Smarten
Augmented Analytics
Powered by ElegantJ BI

User Manual

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Disclaimer

This document is intended to support administrators, technology managers or developers using and implementing Smarten. The business needs of each organization will vary and this document is expected to provide guidelines and not rules for making any decisions related to Smarten. The overall performance of Smarten depends on many factors, including but not limited to hardware configuration and network throughput.

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1. About this document

This document is designed to provide a comprehensive, step-by-step introduction to each of the functions of Smarten. You will learn the steps of analysing corporate data to help you make the decisions that affect your business. It will also teach you how to create crosstab, graphs, GeoMap, tabular and dashboards, and schedule and publish these objects for enterprise users to help them in decision making and performance management.

1.1 Intended audience

This document is for the following audiences:

- Power users: Power users can create and modify front-end objects like dashboards, crosstab, graphs, GeoMap, key performance indicators (KPI), and tabular. Power users can develop and modify various objects and perform advanced analytics and ad-hoc analysis.
- BI users: Depending upon their access rights, BI users can view and interact with front-end objects like crosstab, tabular, graphs, GeoMap, KPI, and dashboards. BI users can also perform basic drill-down, filtering, and other analytic functions.

1.2 Scope and organization of topic areas

The content in this manual is organized according to the modules and tasks performed in Smarten and is arranged in the following topics:

Chapter 2	Introducing Smarten
Chapter 3	Accessing Objects in Repository
Chapter 4	Working with Crosstab
Chapter 5	Working with Graphs
Chapter 6	Working with GeoMap
Chapter 7	Working with KPI
Chapter 8	Working with Dashboards
Chapter 9	Working with Tabular
Chapter 10	Working with Delivery & Publishing Agent
Chapter 11	Working with TeamUp
Chapter 12	Product & Support Information

1.3 Conventions used

This manual uses typographical conventions in the text to help you distinguish between the names of files, instructions and other important notes that are relevant during installation. For example:

- Field names are mentioned in the boldface font:
  Select the **Page Setup** tab under **Page Header/Footer Configuration**.
- Important notes are indicated in blue:

> Note:
> Query Schema is not accessible in MS - Access Database.

- References to documents are highlighted as below:

Reference: **Concept Manual > Designing the Data Model > Cube Generation Process-Extraction from CSV or flat files**

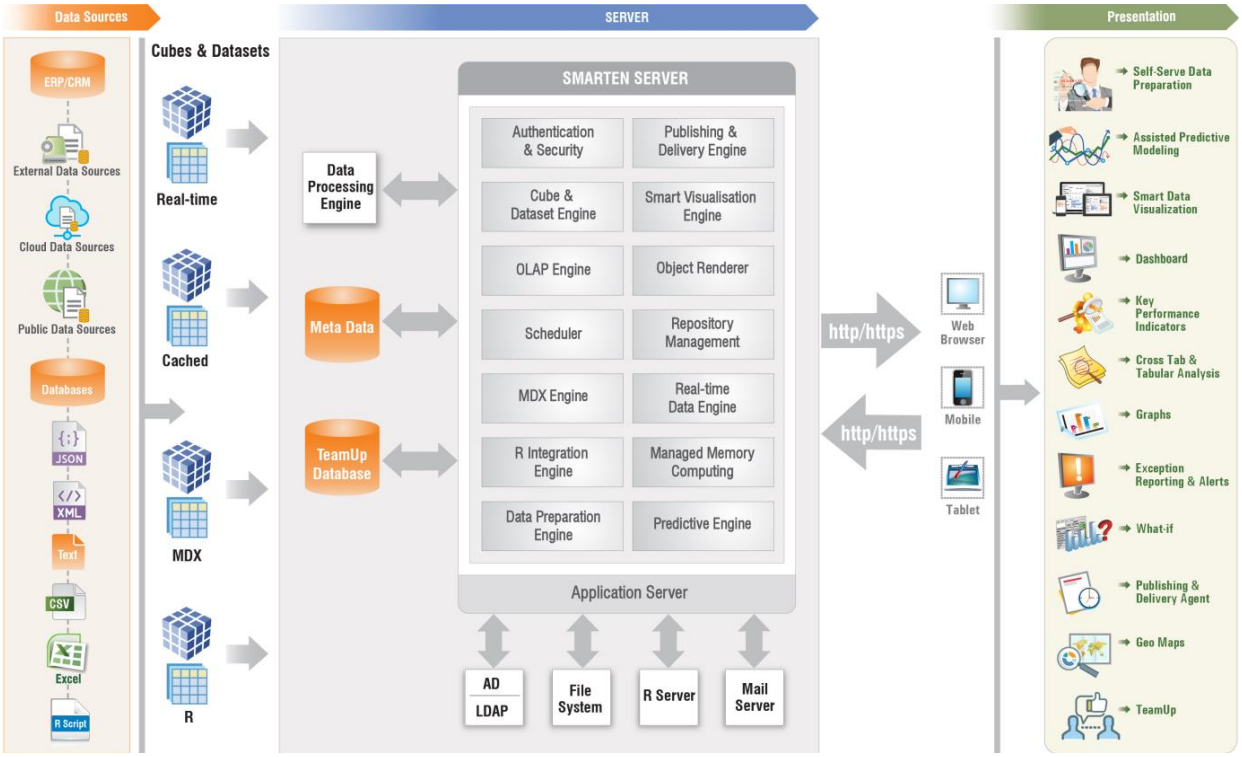
2. Introducing Smarten

This chapter provides an introduction to Advanced Data Discovery and describes how Smarten Advanced Data Discovery helps in proactively answering critical business questions and provides timely insights needed for effective decision making.

2.1 High-level architecture

Smarten provides a comprehensive and integrated set of features and functions that deliver information to end users through crosstab, tabular, graphical charts, GeoMap, KPI and dashboards, thereby allowing users to use data in an interactive manner.

To understand how Smarten provides a complete BI framework for corporate performance management and Advanced Data Discovery with enterprise-wide implementation, refer to the following high-level architecture diagram:



SMARTEN SUITE - HIGH-LEVEL ARCHITECTURE

Refer to documents related to Managed Memory Computing to understand concept and working of Managed Memory Computing.

2.2 Responsive user interface

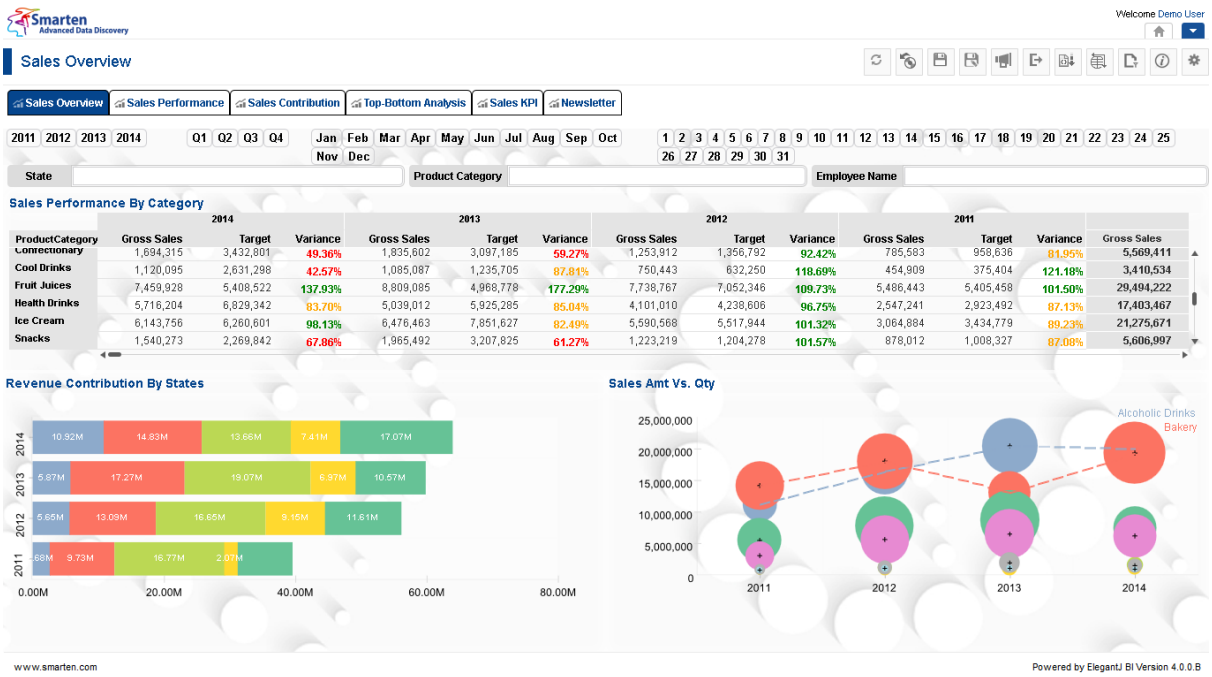
Smarten is designed with an adaptive and responsive user interface that renders the UI elements based on the resolution of the target device. The following three resolutions are taken into consideration:

- Desktop view: screen width of 980 px and above
- Tablet portrait view: screen width between 671px and 979px
- Smartphone view: screen width of 670 px and below

Smarten allows users to enable or disable the Adaptive behavior for any Smarten object regardless of how the object is accessed—through the Smarten portal or API. To accomplish this, a user can set the object property that allows a user to enable or disable the Adaptive behavior at an object level. Although this property is inherited by default when the object is embedded through an API, Smarten allows users to override it by passing an additional parameter to enable or disable the Adaptive behavior from a third-party application to the API.

Reference: **Integration with your App**

The following images explain how different target devices display the same dashboard objects:



DESKTOP VIEW

Smarten Advanced Data Discovery

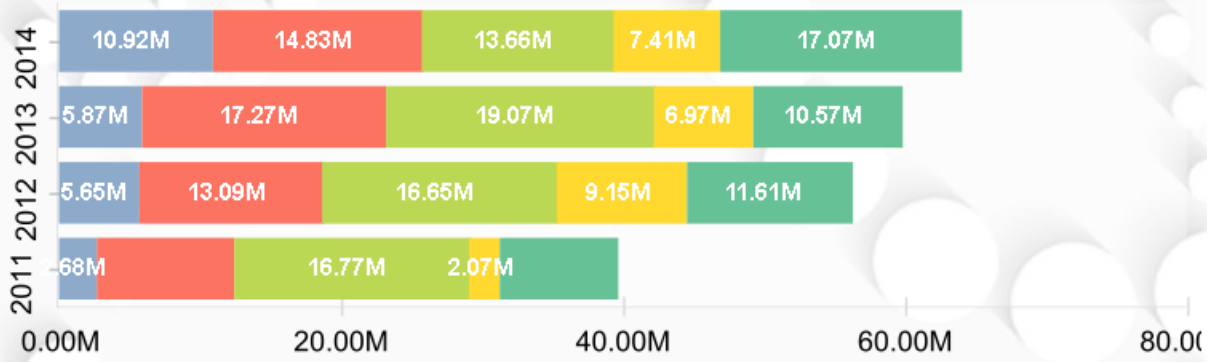
Welcome Demo User

Sales Overview

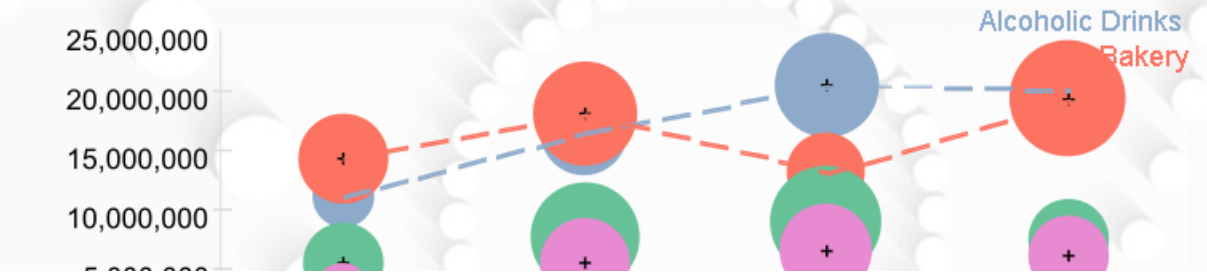
Sales Performance By Category

ProductCategor	2014 Gross Sales	2014 Target	2014 Variance	2013 Gross Sales	2013 Target	2013 Variance	Gros
Alcoholic Drinks	19,957,914	13,650,911	146.20%	20,525,795	9,070,761	226.29%	16,4
Bakery	19,313,105	9,593,968	201.30%	13,008,591	33,253,369	39.12%	18,0
Confectionary	1,694,315	3,432,801	49.36%	1,835,602	3,097,185	59.27%	1,2
Cool Drinks	1,120,095	2,631,298	42.57%	1,085,087	1,235,705	87.81%	7
Fruit Juices	7,459,928	5,408,522	137.93%	8,809,085	4,968,778	177.29%	7,7
Health Drinks	5,716,204	6,829,342	83.70%	5,039,012	5,925,285	85.04%	4,1
Ice Cream	6,143,756	6,260,601	98.13%	6,476,463	7,851,627	82.49%	5,5
Snacks	1,540,273	2,269,842	67.86%	1,965,492	3,207,825	61.27%	1,2
Tea	944,823	5,007,323	18.87%	1,003,353	2,266,908	44.26%	1,0
Total	63,890,413	55,084,608	115.99%	59,748,480	70,877,443	84.30%	56,1

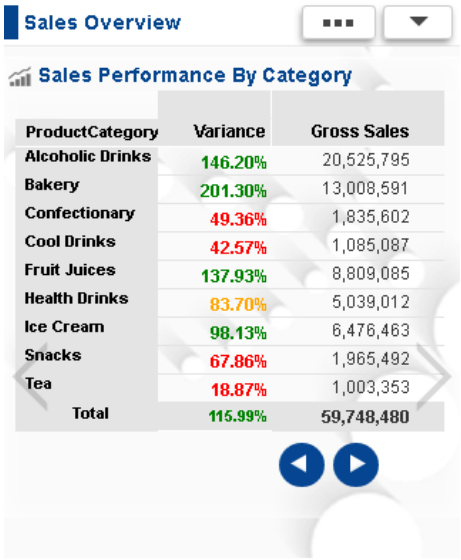
Revenue Contribution By States



Sales Amt Vs. Qty

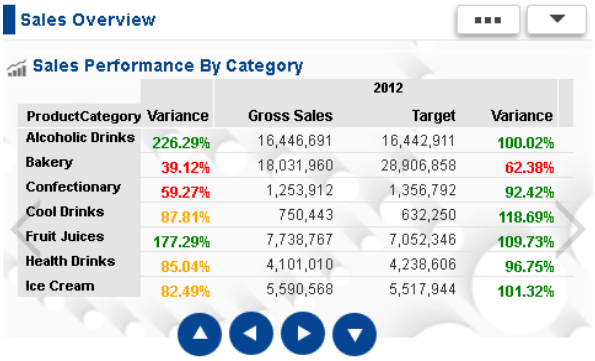


TABLET VIEW



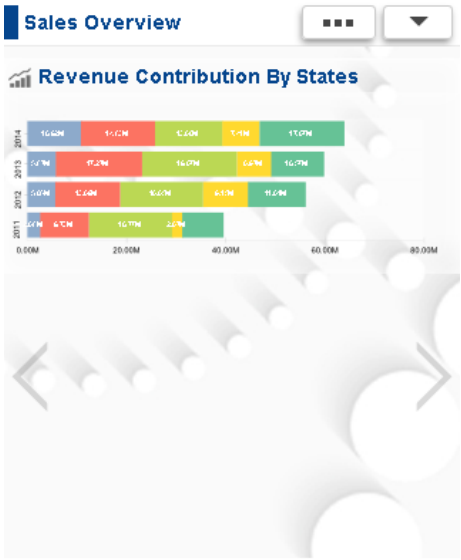
ProductCategory	Variance	Gross Sales
Alcoholic Drinks	146.20%	20,525,795
Bakery	201.30%	13,008,591
Confectionary	49.36%	1,835,602
Cool Drinks	42.57%	1,085,087
Fruit Juices	137.93%	8,809,085
Health Drinks	83.70%	5,039,012
Ice Cream	98.13%	6,476,463
Snacks	67.86%	1,965,492
Tea	18.87%	1,003,353
Total	115.99%	59,748,480

SMARTPHONE VIEW (PORTRAIT)

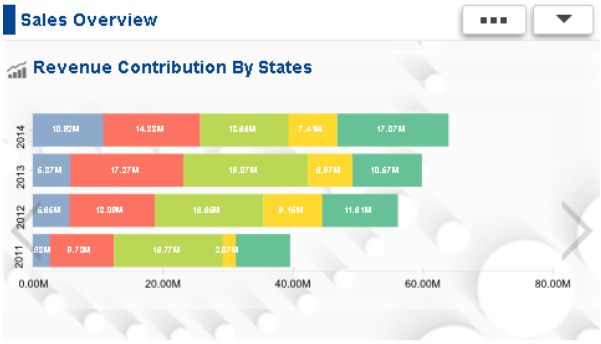


ProductCategory	Variance	2012 Gross Sales	2012 Target	2012 Variance
Alcoholic Drinks	226.29%	16,446,691	16,442,911	100.02%
Bakery	39.12%	18,031,960	28,906,858	62.38%
Confectionary	59.27%	1,253,912	1,356,792	92.42%
Cool Drinks	87.81%	750,443	632,250	118.69%
Fruit Juices	177.29%	7,738,767	7,052,346	109.73%
Health Drinks	85.04%	4,101,010	4,238,606	96.75%
Ice Cream	82.49%	5,590,568	5,517,944	101.32%

SMARTPHONE VIEW (LANDSCAPE)



SMARTPHONE VIEW (PORTRAIT)



SMARTPHONE VIEW (LANDSCAPE)

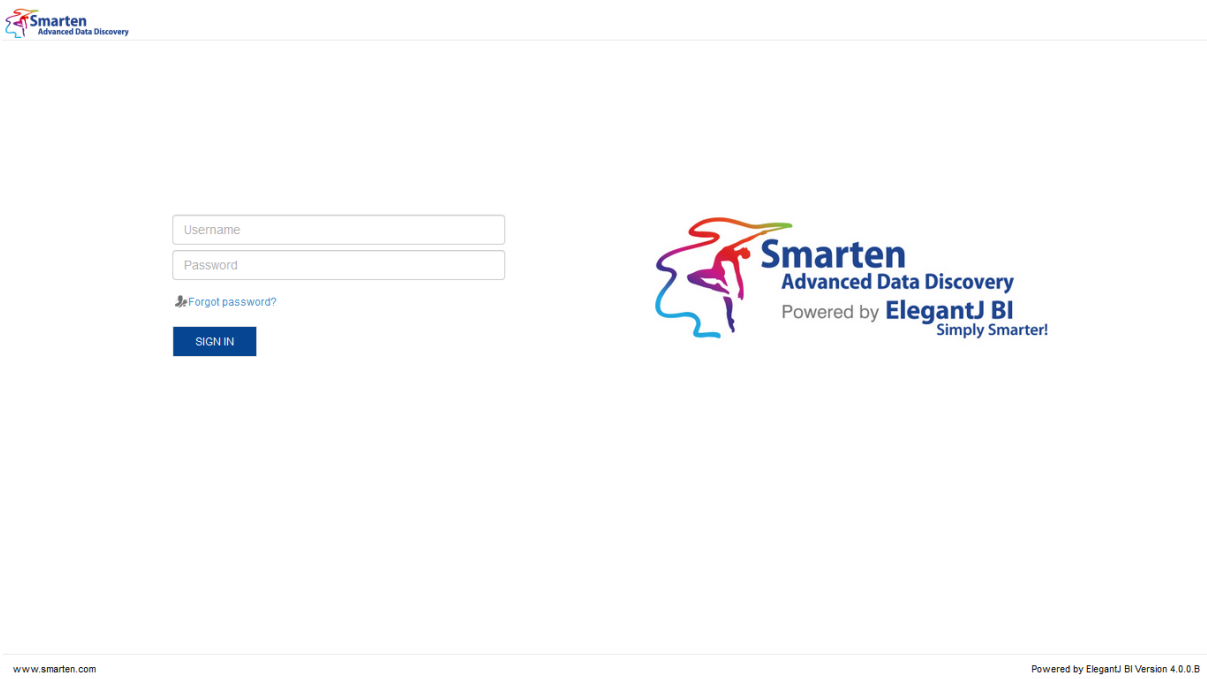
2.3 Smarten modules

Comprehensive and easy-to-use tools such as dashboards, crosstab, graphs, GeoMap, tabular, KPI, alerts, and integrated delivery and publishing agent that are built on the zero-footprint browser-based Smarten interface extend the value of Advanced Data Discovery to every user in the enterprise.

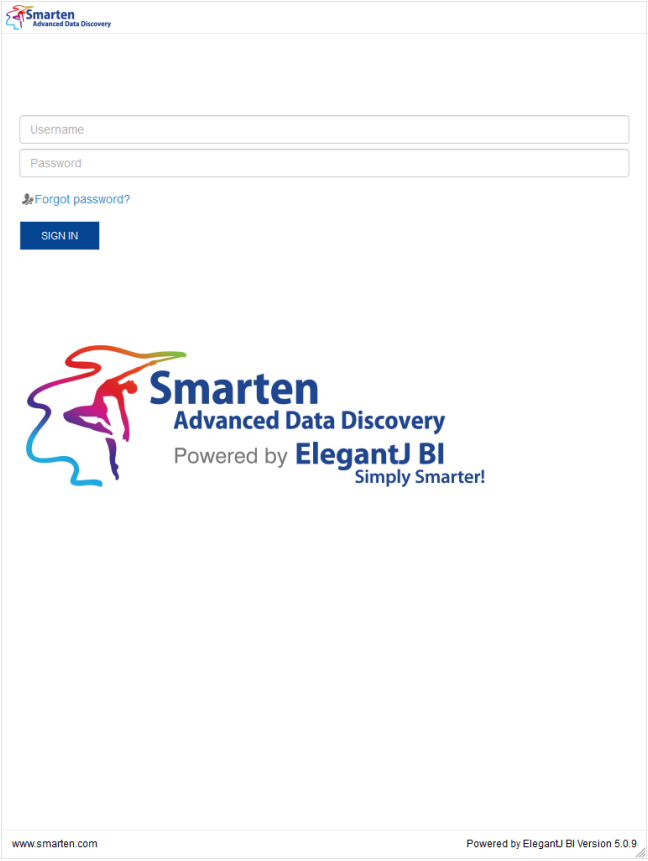
Module	Description
Data Extraction, Data Transformation, Cube Management	Data extraction, data transformation, and data management allows you to extract, load, and transform (ETL) data using an intuitive, graphical interface, through a unified, powerful browser-based platform.
Dashboards	Dashboards provide a customized snapshot of daily operations, assist you in identifying problems and their source, and provide valuable, up-to-date information about financial results, sales and other critical information – all in one place!
Key Performance Indicators (KPI)	Simplified KPI management and tracking with powerful features, formulae and expressions, flexible frequency, and threshold levels enable clear definition and tracking of KPIs for a period and measure performance as compared to any previous cycle. You can analyse performance with easy-to-use features, such as drill down, drill through, slice and dice, and graphical data mining.
Cross-Tab Analysis	Cross-tab analysis offers a 360 degree view of business, seamless integration with data extraction and cube management features, and ad-hoc queries and BI reporting for a clear view of corporate performance and the ability to slice and dice, drill down, and drill through data to find the most relevant information.
Graphs	Graphical technology makes it easy for you to find, filter, and analyse data. It allows you to go beyond numbers and view information with stunning displays, valuable indicators and gauges, charts, and a variety of graph types from which you can choose.
GeoMap	GeoMap makes it easy for you to find, filter and analyse data using geographic maps. It provides such features as drill down, spot lighter, zoom in / zoom out, and other visual properties, and does not need any active connection to the Internet.
Exception Reporting and Alerts	Exception Reporting allows you to define threshold points, monitor Key Performance Indicators and metrics, and receive alerts when exception conditions occur. You have the ability to set, modify, and delete alerts based on specific thresholds.
Tabular Analysis	Tabular delivers web-based Advanced Data Discovery reports to anyone in the organisation within minutes! It is simple to use, easy to implement, and affordable for every organization. Use the Point-and-click and drag-and-drop features to create a tabular analysis and summarize performance metrics and operational data in tabular form.
What-If Analysis	What If Analysis allows users to see the impact of a prospective change to a product, service, resource allocation, budget, project schedule, pricing, raw material cost, labor cost, or other factors and compare that change to other options to ensure they have considered the impact resulting from each option.
Publishing and Delivery Agent	This module ensures that every user has the information that they need. Objects, tabular, cross-tab, graphs, and dashboards are

	automatically delivered so that you are aware of issues, opportunities, finances, and sales. You can access information from anywhere and see information in a form that is meaningful to you on a schedule that you define.
Self-serve data preparation (SSDP)	The Self-Serve Data Preparation component of the Smarten Advanced Data Discovery solution allows business users to prepare and analyze data with clear results without the assistance of technology staff or analysts.
SmartenView – SmartVisualization	Smart Data Visualization allows business users to analyze, share, and present information without waiting for assistance from visualization experts or programmers. With augmented data discovery tools, business users can cut through that mountain of data to find those elusive nuggets of information that have the most impact on business results.
SmatenInsight – Plug n play predictive modelling	SmartenInsight provides predictive modelling capability and auto-recommendations and auto-suggestions to simplify use and allow business users to leverage predictive algorithms without the expertise and skill of a data scientist.

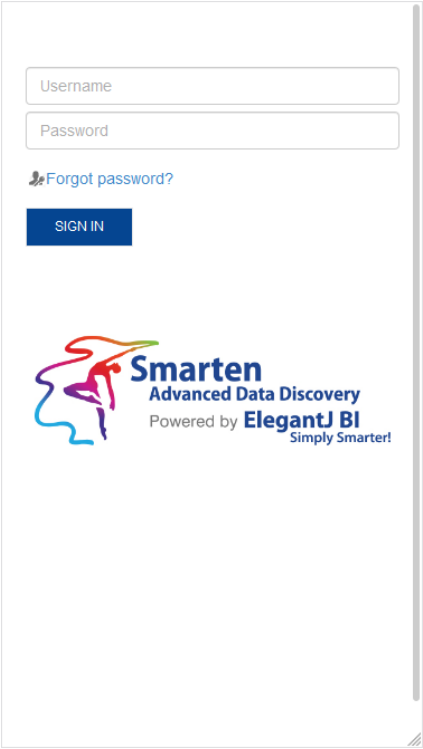
2.4 Log-in



LOG-IN SCREEN - DESKTOP VIEW



LOG-IN SCREEN - TABLET VIEW



LOG-IN SCREEN - SMARTPHONE VIEW

2.4.1 Logging in to Smarten

Before you begin

Install the compatible browser on your device. For more information about the compatible browsers, see the *Technical Specifications* guide.

Procedure

1. In the address field of the web browser, enter the following URL:
   http://<host name> :< port number> where,
   host name is the host name or IP address or host name of the server.
   port number is the port number of the application server. The default port number is 8080.

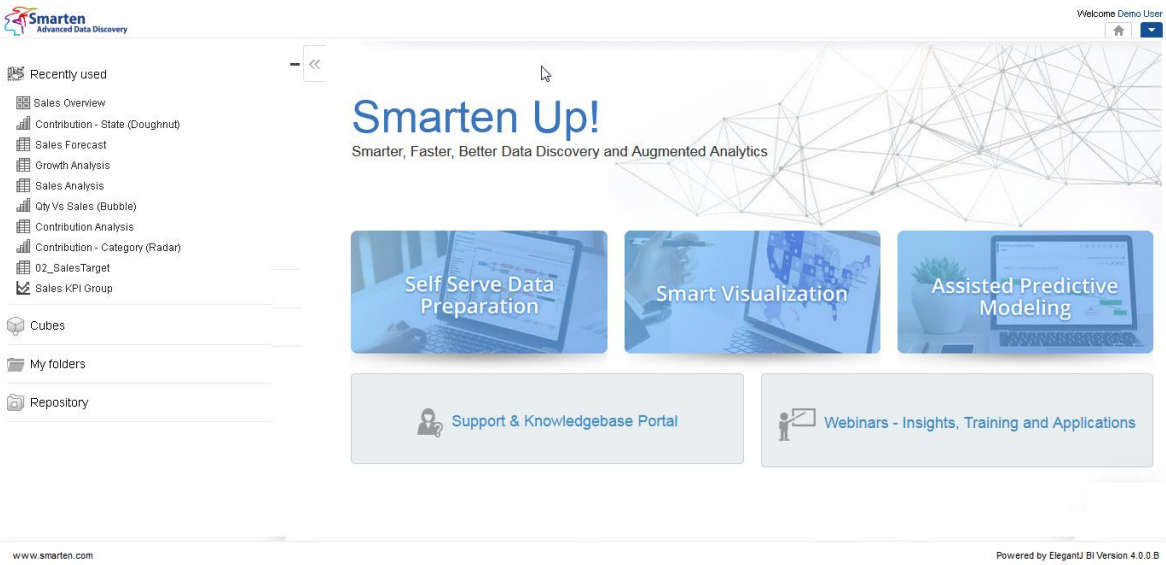
> Note:
> If you do not know URL, contact your administrator.

2. In the **Username** field, enter your username.
3. In the **Password** field, enter your password.

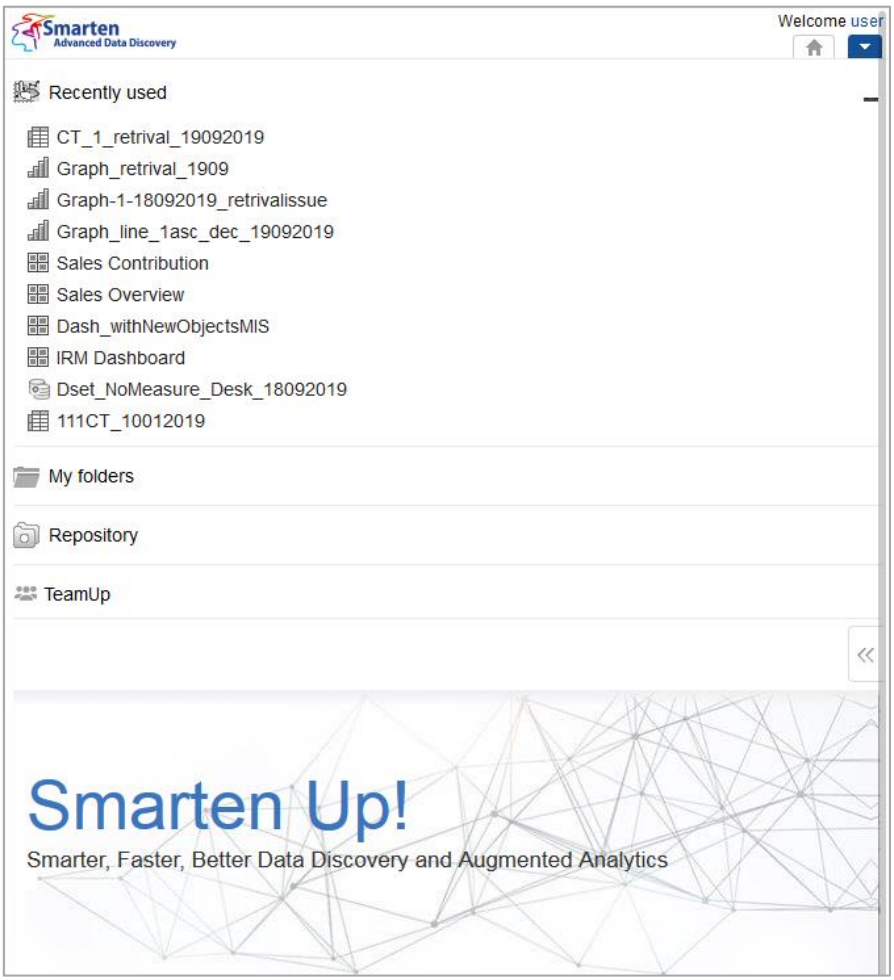
> Note:
> If you do not have login credentials, contact your administrator.

4. Click **Login**.
   The following images explain how different target devices display the Smarten home page:

> Note:
> Administrator can configure the right side page – logged in homepage, of the Smarten interface. You can select any object to set as home page from Preferences screen.



HOME PAGE - DESKTOP VIEW



HOME PAGE – TABLET VIEW

HOME PAGE – SMARTPHONE VIEW

2.4.2 Retrieving your password

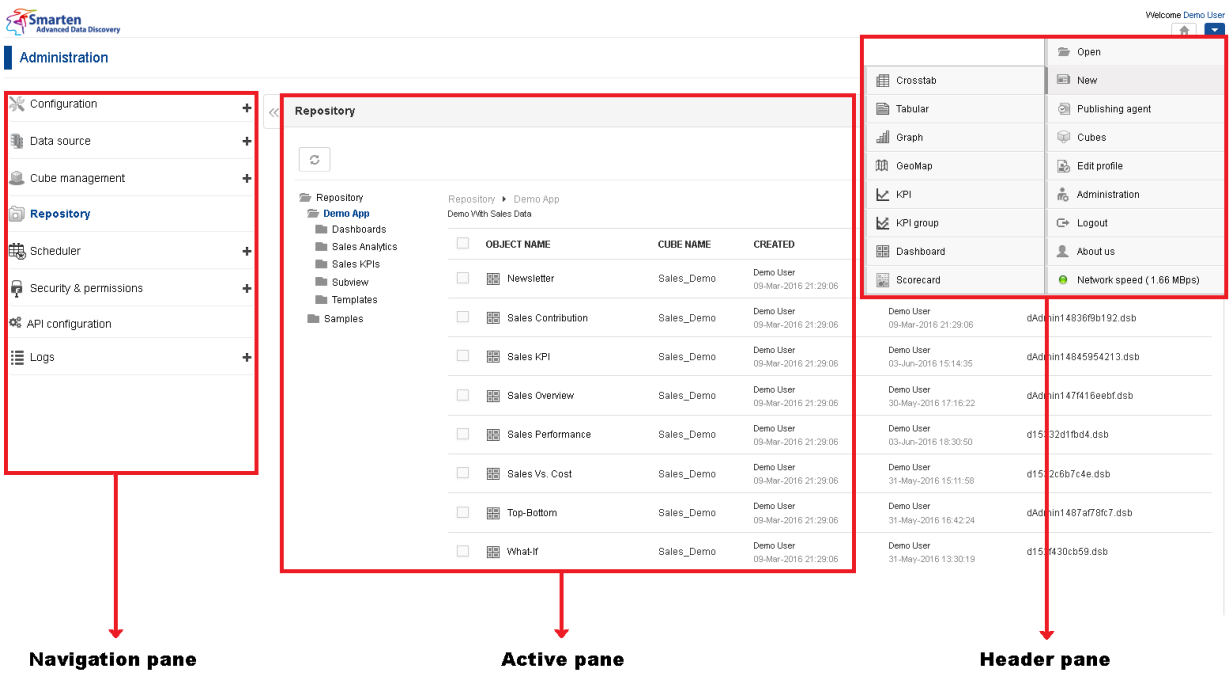
About this task

Use this procedure to retrieve your forgotten password.

Procedure

1. Click the **Forgot password**? link.
2. On the Forgot password screen, enter your username and click **Submit**.
   The system displays the following message:
   Reset password request processed successfully. Please check your email inbox message.
3. Click the link sent to you in the email message.
4. On the Reset password page, enter the **new password** in the New password and the **Re-enter new password** fields.
   The system displays the following message:
   New password saved successfully.
5. Log in to Smarten with your username and new password.

2.5 Components of the Smarten interface



COMPONENTS OF THE SMARTEN INTERFACE

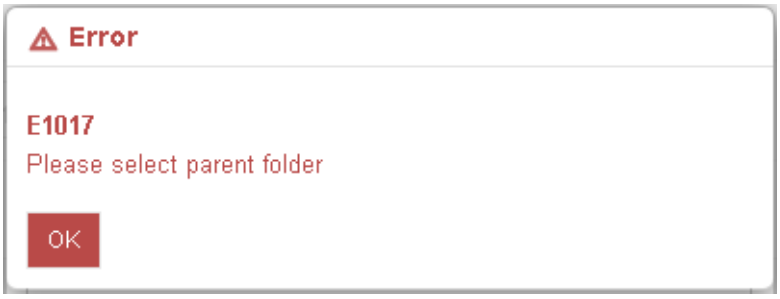
Pane	Description
Navigation pane	The Navigation pane is on the left side of the interface. It contains the hierarchical repository of folders and files such as My Favourites, My Folders, and Repository with stored objects such as crosstab, tabular, graphs, KPI, and dashboards.
Header pane	The Header pane displays the login information and the drop-down menu that lists various functions available to the logged in user as per access rights granted by the administrator.

Active pane	The Active pane is to the right of the Navigation pane and under the Header pane. The contents of the Active pane change depending on the function you are performing on Smarten. For example, when you log in to the application, the Active pane displays the Smarten Home page and when you load a dashboard, the Active pane displays the dashboard along with dashboard-specific toolbar and navigation. The contents of the Active pane include: The selected Smarten object, for example, crosstab, graphs, KPI, KPI group, dashboard, and tabular. The toolbars and menu options for the displayed objects based on the object type.

The system displays Error, Warning and Info type dialogue boxes.

Error dialog box

The system displays the error dialog box when you perform an incorrect action.



ERROR DIALOG BOX

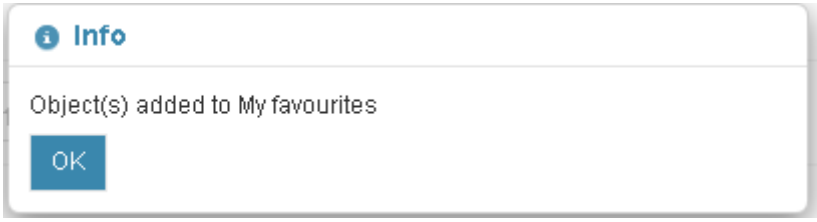
Warning dialog box

The system displays the warning dialog box to alert you of a condition that might cause a problem in the future.

WARNING DIALOG BOX

Info dialog box

The system displays the warning dialog box to display relevant messages such as tips, updates, or help regarding your current action.



INFO DIALOG BOX

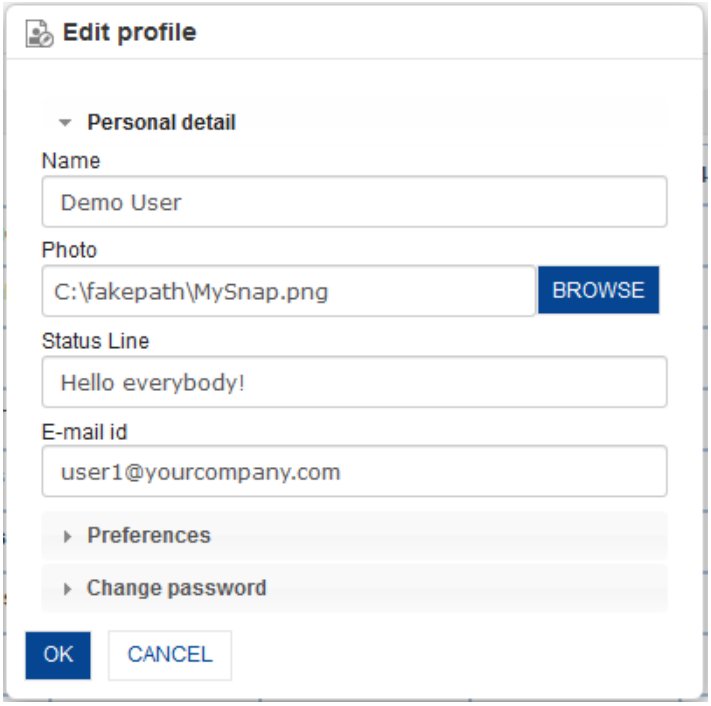
2.6 Managing user profile

You can edit your login profile, customize date and time format, change your password, and change the home page settings.

2.6.1 Changing user preferences

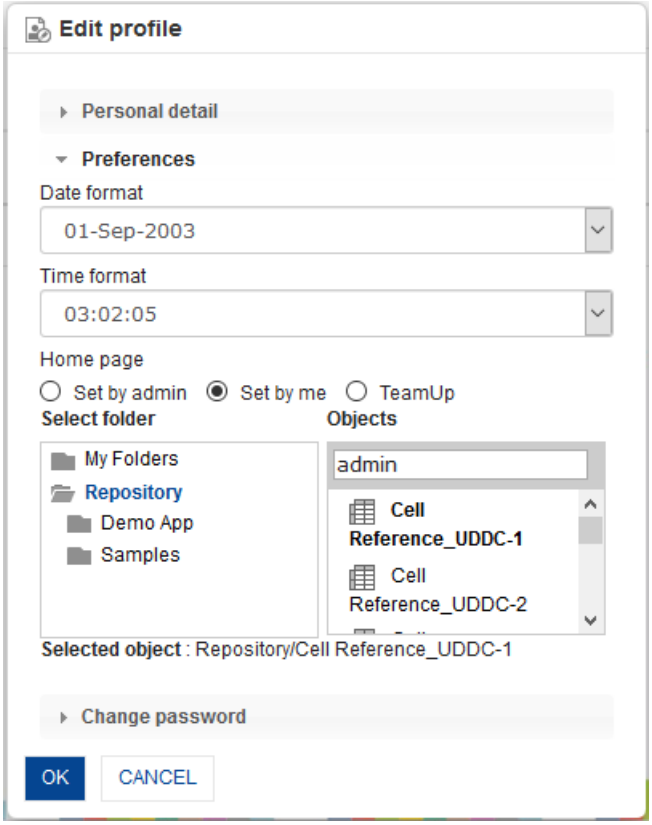
Procedure

1. In the Header pane, click the drop-down menu and click **Edit profile**.
   The system displays the **Edit profile** dialog box.



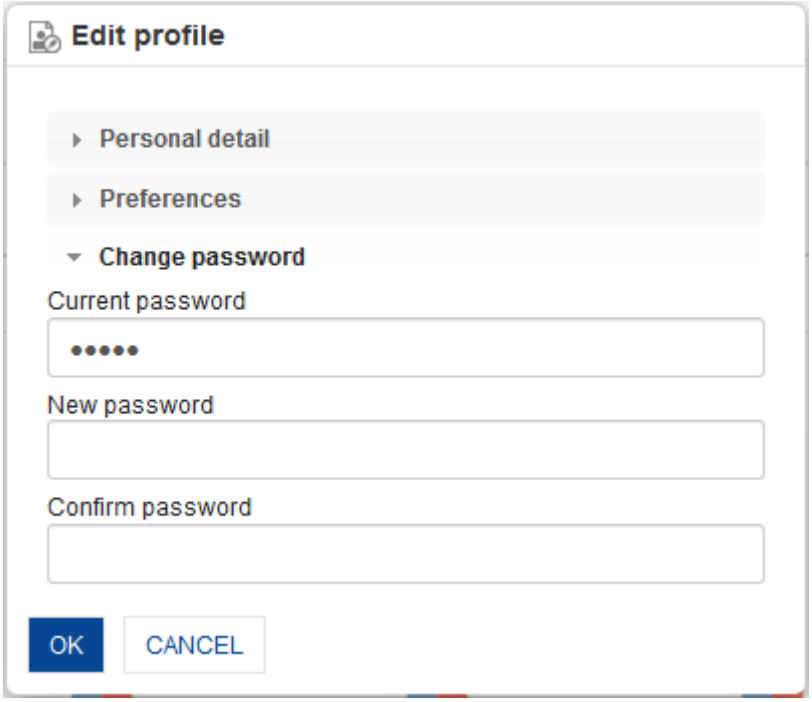
EDIT PROFILE

2. Under the **Personal detail** section, in the **Name** field, enter the new name.
3. Click **BROWSE** to select an image file from the desired directory path. This image will be displayed as an icon in all the TeamUp conversations posted by you.
4. In the **Status Line** field, enter the status line. This status line will be displayed when anyone hovers over your image in TeamUp conversations.
5. In the **E-mail ID** field, enter the new email ID.
6. Click the **Preferences** option to expand the section.



EDIT PROFILE – PREFERENCES

7. Under the **Preferences** section, in the **Date format** field, select a date format.
8. In the **Time format** field, select a time format.
9. To set the home page, click any one of the radio buttons to select either **Set by admin**, or **Set by me**, or **TeamUp**. If **Set by admin** is selected, the home page will be set to the one selected by the administrator. If **Set by me** is selected, you can select an object from its folder to set that object as your home page. If **TeamUp** is selected, the TeamUp page will be set as your home page.
10. If you have set the objects on the Home page, click Delete icon to **delete** the current home page.
11. Click the **Change password** option to expand the section.



EDIT PROFILE – CHANGE PASSWORD

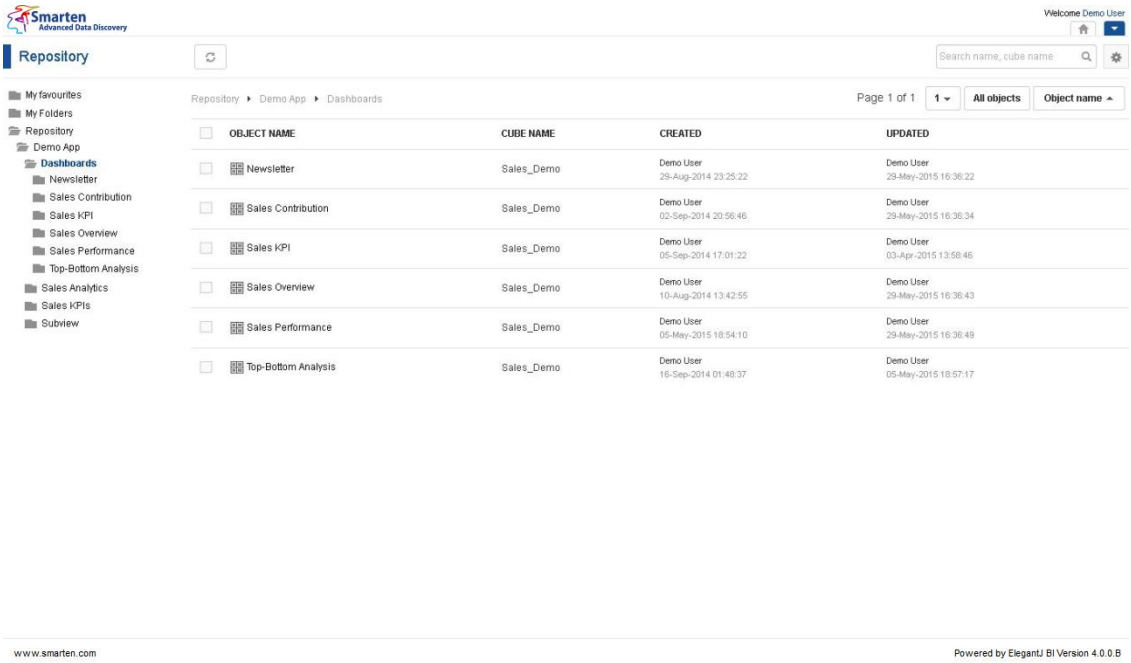
12. Under the **Change password** section, in the **Current password** field, enter the password that you use to log onto the interface.
13. In the **New password** field, enter the new password.
14. In the **Confirm password** field, re-enter the new password.
15. Click **OK**.

> Note:
> If the administrator has disabled the editing of user profile, you will be unable to make any changes. If you want to make the changes, contact the administrator.

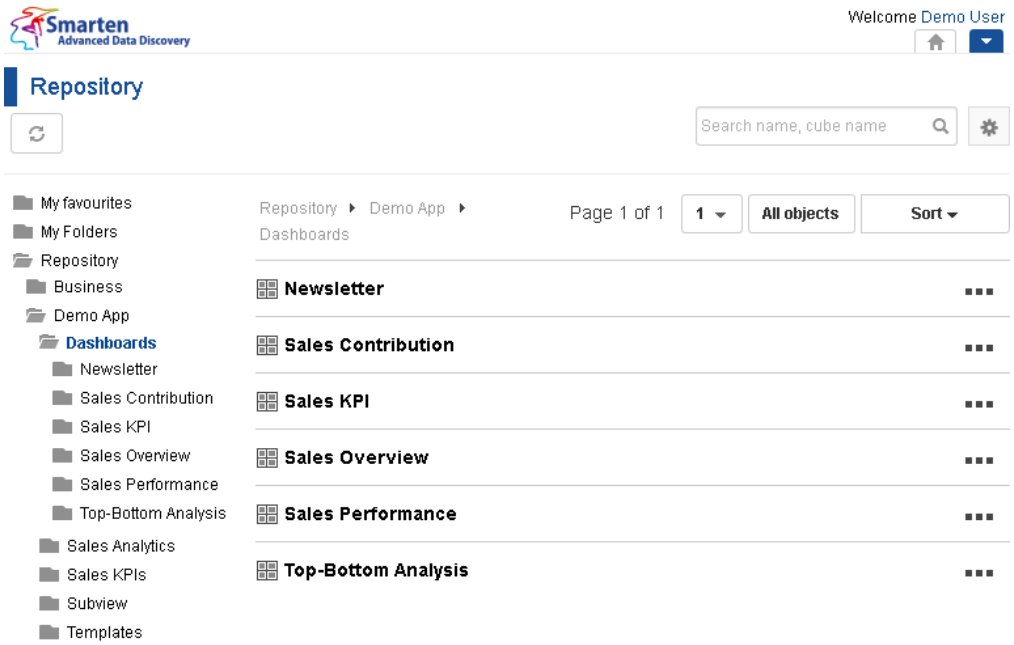
3. Accessing Objects in Repository (/)

This chapter guides you to create repository of objects, use personal folders, save and open objects from the repository, and perform other general functions related to objects.

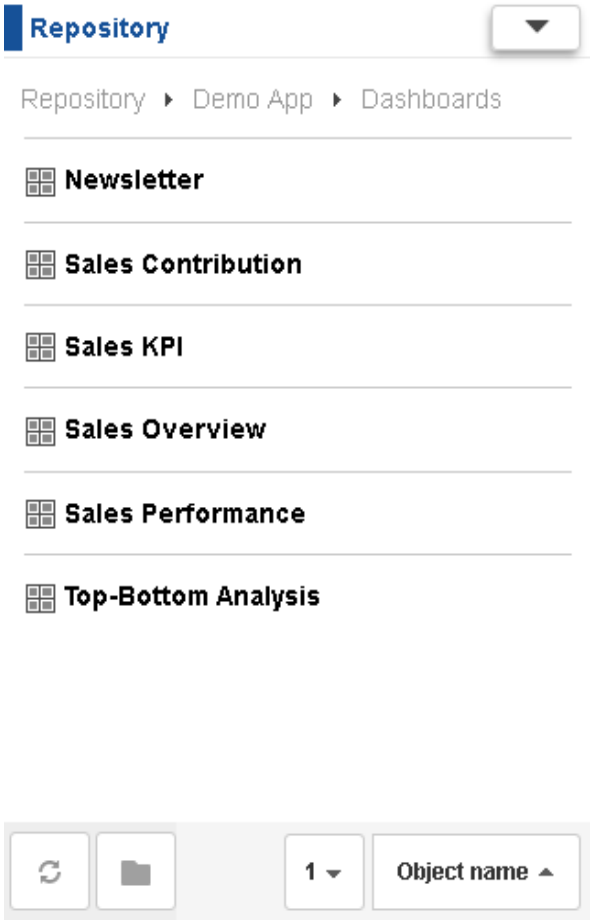
Following images demonstrate how repository hierarchy renders differently in different target devices.



REPOSITORY HIERARCHY – DESKTOP VIEW



REPOSITORY HIERACRCHY – TABLET VIEW

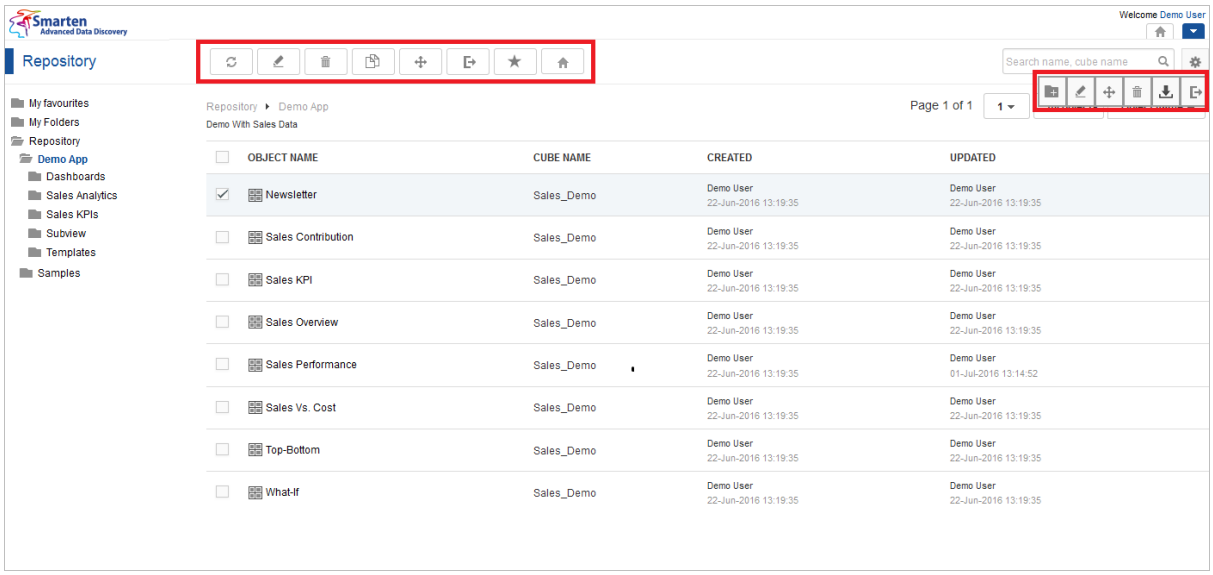


REPOSITORY HIERARCHY – SMARTPHONE VIEW

3.1 Repository list

When you log on to the Smarten interface, the system displays the Repository hierarchy in the left navigation pane.

The folders and objects that you can see under Repository category list are public and your access will depend on the rights that are granted to you by your Smarten administrator, and the settings that are enabled. For easy and quick reference, you can categorise objects under My Favourites and My Folders in Smarten.



REPOSITORY – TOOLBAR AND FOLDER SETTINGS MENU

3.2 Managing folders

The following table describes the folders that you can use to organize the objects within Repository.

Folder	Description
My Favourites	Displays the objects that you added as favourite.
My Folders	Displays the objects that you save in your folder for future use only by you. You can also create folders and n level hierarchy of sub-folders within My Folders.
Repository	Displays all the objects that are part of your organization repository. Administrator restricts the access to these objects and provides access to users and user groups as required.

> Note:
> You can add, edit or delete subfolder. You cannot edit, delete or copy Repository (/) main folder.
> You can create n level hierarchy of sub folders and save various Smarten objects in these folders.

3.2.1 Folder toolbar description

Icon	Icon name
	Add folder
	Edit folder
	Move folder
	Delete folder
	Import object
	Export folder

FOLDER TOOLBAR OPTIONS

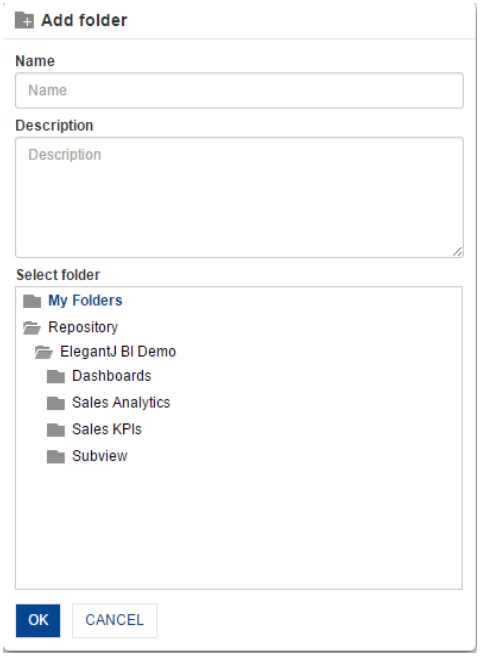
3.2.2 Adding a new folder

About this task

Use the following procedure to create folders and subfolders in the repository. You can also create sub folders, and can save various objects in the folders.

Procedure

1. In the left navigation pane, click Repository.
2. On the upper-right corner, click Setting and click Add folder.
   The system displays the Add folder dialog box.



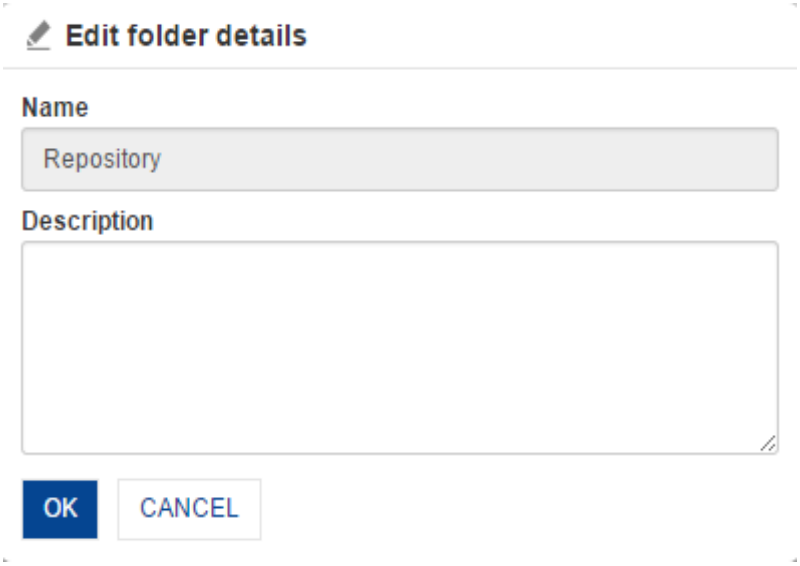
REPOSITORY - ADD NEW FOLDER

3. In the **Name** field, enter the name of the folder.
4. In the **Description** field, enter the description about the folder.
5. In the **Select folder** field, select the folder where you want to add the new folder.
6. Click **OK**.

3.2.3 Editing an existing folder

Procedure

1. In the left navigation pane, click **Repository**.
2. On the upper-right corner, click **Setting** and click **Edit folder**.
   The system displays the **Edit folder details** dialog box.



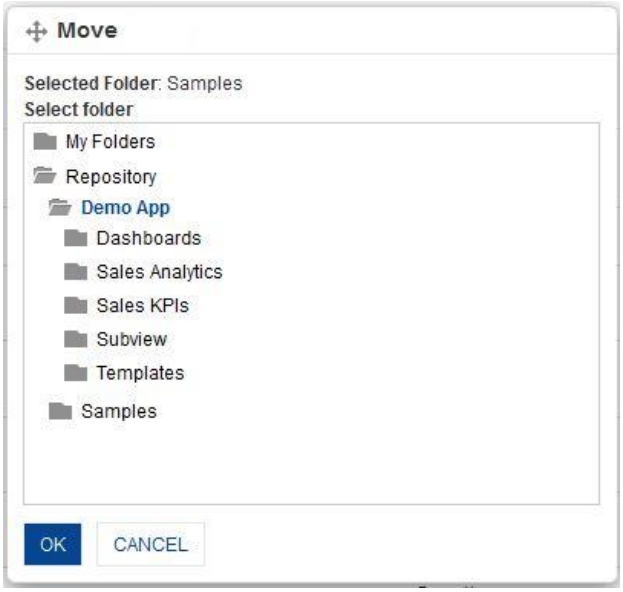
REPOSITORY - EDIT FOLDER DETAILS

3. In the **Description** field, enter the description of the folder.
4. Click **OK**.

3.2.4 Move a folder

Procedure

1. In the left navigation pane, click **Repository**.
2. On the upper-right corner, click **Setting** and click **Move folder**.
   The system displays the **Move folder** dialog box.



REPOSITORY - MOVE FOLDER

3. From the **Repository** folder structure, locate the folder where you want to move the object.
4. Click **OK** to move the folder to the selected folder.

> **Note**: Entire folder is moved (including its objects and subfolders) from one location to another location.

3.2.5 Deleting an existing folder

Procedure

1. In the left navigation pane, click **Repository**.
2. Select the folder that you want to delete.
3. On the upper-right corner, click **Setting** and click **Delete folder**.
   The system displays the **Delete** dialog box to confirm whether you want to delete the selected folder.
4. Click **OK**.

3.2.6 Importing object to a folder

About this task

Import Object is used when you want to import objects developed by other users or want to import objects that are available in another Smarten server instance. Use the following procedure to import objects in folder and subfolders in the repository.

Procedure

1. In the left navigation pane, click **Repository**.
2. Select the folder in which you want to import an object.
3. On the upper-right corner, click **Setting** and click **Import object**.
   The system displays the **Import** dialog box to confirm results of the import process.
4. Click **OK**.

3.2.7 Exporting folder

Procedure

1. In the left navigation pane, click **Repository**.
2. Select the folder which you want to export.
3. On the upper-right corner, click **Setting** and click **Folder export**.
   The system downloads the selected folder including objects and subfolder in an XML file on your system. Using the import object option of the folder menu, you can import the exported folder file in to the system.

3.3 Managing objects

Using the Smarten interface, you can select a folder from the Repository list and view objects. You can edit, delete, copy, move, export, add as favourites, and set an object as home page.

When you select more than one object, the system does not display the **Edit, Export object**, and **Set as Home page** options.

3.3.1 Object toolbar description

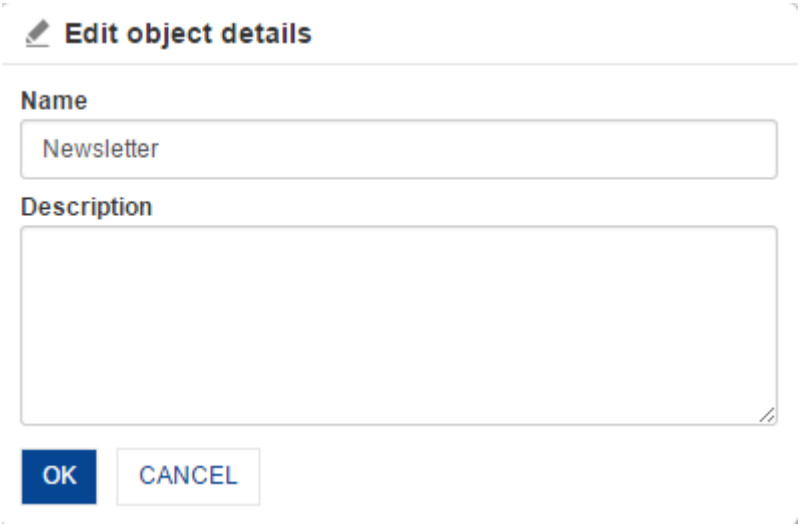
Icon	Icon name
	Refresh
	Edit

Icon	Icon name
	Delete
	Copy
	Move
	Export object
	Set as favourites
	Set as Home page

3.3.2 Editing an object details

Procedure

1. In the left navigation pane, click **Repository**.
2. Select the folder where you have saved the object.
3. Select the object and click **Edit object**.
   The system displays the **Edit object details** dialog box.



EDIT OBJECT

4. In the **Name** field, edit the name of the object.
5. In the **Description** field, edit the description of the object.
6. Click **OK**.

3.3.3 Deleting objects

Procedure

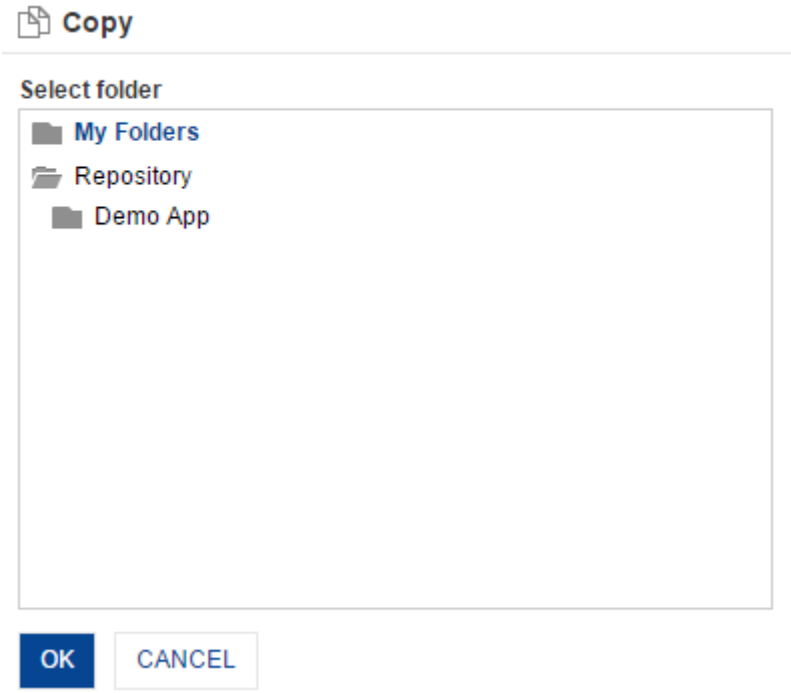
1. In the left navigation pane, click **Repository**.
2. Select the folder where you have saved the object.
3. Select the object and click **Delete**.

4. The system displays the **Delete** dialog box to confirm whether you want to delete the selected object.
5. Click **OK**.

3.3.4 Copying objects

Procedure

1. In the left navigation pane, click **Repository**.
2. Select the folder where you have saved the object.
3. Select the object and click **Copy**.
   The system displays the **Copy** dialog box.



COPY OBJECT

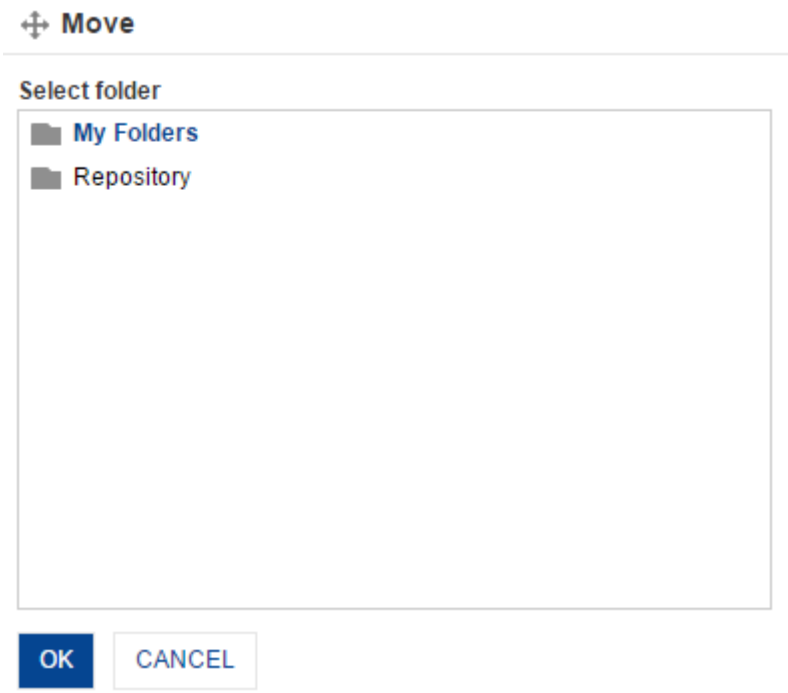
4. Select the folder where you want to copy the object.
5. Click **OK**.

> **Note**:
> You can create multiple copies of the same object in same or other folders. Copies created from an object will be assigned new object names with objectname copy1, objectname copy2 suffix.

3.3.5 Moving objects

Procedure

1. In the left navigation pane, click **Repository**.
2. Select the folder where you have saved the object.
3. Select the object and click **Move**.
   The system displays the **Move** dialog box.



MOVE OBJECT

4. Select the folder where you want to move the object.
5. Click **OK**.

3.3.6 Exporting an object

Procedure

1. In the left navigation pane, click **Repository**.
2. Select the folder where you have saved the object.
3. Select the object and click **Export object**.
   The system downloads the object in an XML file on your system. Using the import object option of the folder menu, you can import the exported object file in to the system.

3.3.7 Adding an object to favourites

Procedure

1. In the left navigation pane, click **Repository**.
2. Select the folder where you have saved the object.
3. Select the object and click **Add to favourites**.
   The system displays the **Info** dialog box to confirm that the object has been added to My favourites list.

3.3.8 Setting an object as Home page

About this task

When you set an object as home page, you can view that object when you log in to the Smarten interface.

Procedure

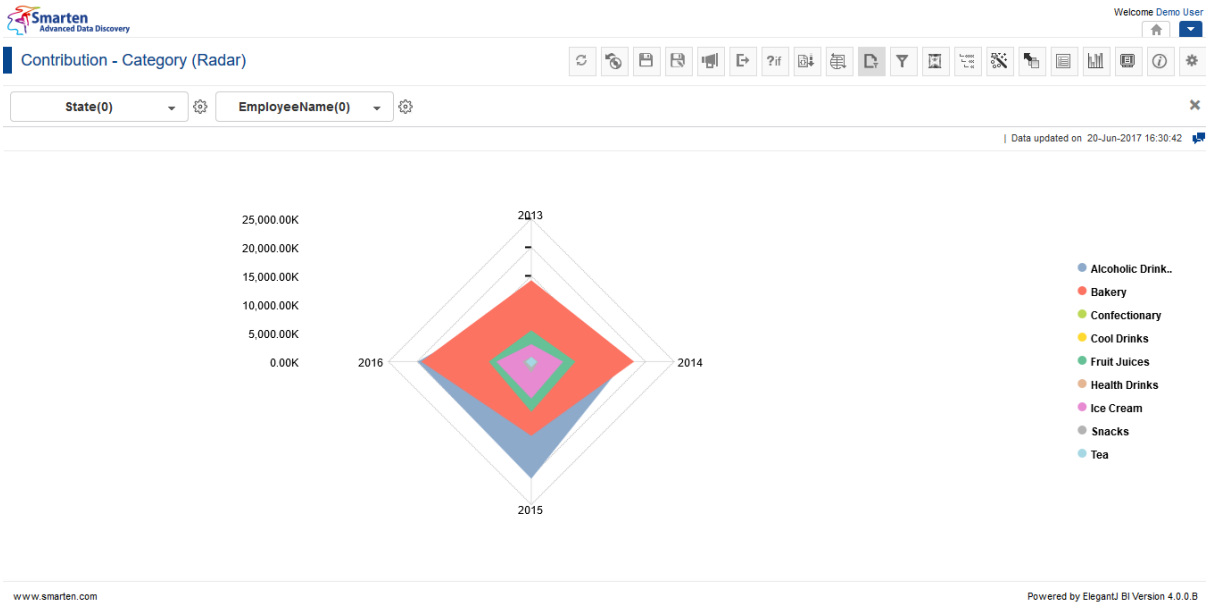
1. In the left navigation pane, click **Repository**.

2. Select the folder where you have saved the object.
3. Select the object and click **Set as Home page**.
   The system displays the **Info** dialog box to confirm that the object has been added as the Home page.
   Use the **Edit profile** option to remove the selected object from the Home page.

3.3.9 Viewing an object

Procedure

1. In the left navigation pane, click Repository.
2. Select the folder where you have saved the object.
3. Click the object to view the object with object type specific tool bar and container.



VIEWING SMARTEN OBJECT

4. Working with Crosstab

This chapter describes how you can use Crosstab to analyse data from cubes without having to understand complex data models. You can use slice and dice, drill down, and drill through operations to analyse data and understand underlying trends.

The following images demonstrate how Smarten crosstab renders differently in different target devices.

Smarten Advanced Data Discovery

Welcome Demo User

Sales Analysis

State | EmployeeName

|Cube last rebuilt on October 29, 2014 12:23:33

Sales Analysis

PRODUCTCATEGORY	2011 GROSSSALES	2012 GROSSSALES	2013 GROSSSALES	2014 GROSSSALES	SUMMARY GROSSSALES
ALCOHOLIC DRINKS	11,180,229	16,446,691	20,525,795	19,957,914	68,110,629
BAKERY	14,270,106	18,031,960	13,008,591	19,313,105	64,623,762
CONFECTIONARY	785,583	1,253,912	1,835,602	1,694,315	5,569,411
COOL DRINKS	454,909	750,443	1,085,087	1,120,095	3,410,534
FRUIT JUICES	5,486,443	7,738,767	8,809,085	7,459,928	29,494,222
HEALTH DRINKS	2,547,241	4,101,010	5,039,012	5,716,204	17,403,467
ICE CREAM	3,064,884	5,590,568	6,476,463	6,143,756	21,275,671
SNACKS	878,012	1,223,219	1,965,492	1,540,273	5,606,997
TEA	830,187	1,005,284	1,003,353	944,823	3,783,646
SUMMARY	39,497,594	56,141,853	59,748,480	63,890,413	219,278,340

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DESKTOP VIEW

Smarten Advanced Data Discovery

Welcome Demo User

Sales Analysis

State | EmployeeName

|Cube last rebuilt on October 29, 2014 12:23:33

Sales Analysis

PRODUCTCATEGORY	2011 GROSSSALES	2012 GROSSSALES	2013 GROSSSALES	2014 GROSSSALES	SUMMARY GROSSSALES
ALCOHOLIC DRINKS	11,180,229	16,446,691	20,525,795	19,957,914	68,110,629
BAKERY	14,270,106	18,031,960	13,008,591	19,313,105	64,623,762
CONFECTIONARY	785,583	1,253,912	1,835,602	1,694,315	5,569,411
COOL DRINKS	454,909	750,443	1,085,087	1,120,095	3,410,534
FRUIT JUICES	5,486,443	7,738,767	8,809,085	7,459,928	29,494,222
HEALTH DRINKS	2,547,241	4,101,010	5,039,012	5,716,204	17,403,467
ICE CREAM	3,064,884	5,590,568	6,476,463	6,143,756	21,275,671
SNACKS	878,012	1,223,219	1,965,492	1,540,273	5,606,997
TEA	830,187	1,005,284	1,003,353	944,823	3,783,646
SUMMARY	39,497,594	56,141,853	59,748,480	63,890,413	219,278,340

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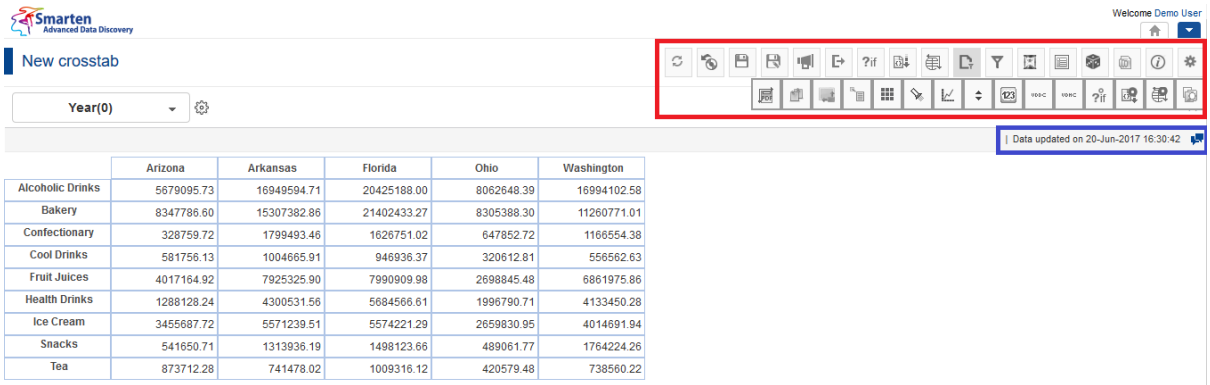
TABLET VIEW

SMARTPHONE VIEW

4.1 Becoming familiar with crosstab menus and toolbars

The crosstab menu and toolbars consist of icons for various views, expressions, formatting options, export options, etc.



CROSSTAB TOOLBAR AND INFORMATION BAR

CROSSTAB TOOLBAR

Icon	Icon name
	Refresh
	Restore
	Save

Icon	Icon name
	Save as
	Publish now
	Export
?if	What-if
	Retrieval Parameters
	Global variables
	Page filter
	Filter
	Time series
	Outliner
	R script parameters
	Slice and dice
	Graph
	Object information
	Setting
	PDF setup
	Manage notes
	Manage subviews
	Manage data display value mapping
	Manage drill through columns
	Manage spotlighters
	Manage sort
123	Manage rank
UDDC	Manage UDDC
UDHC	Manage UDHC
?if	Select what-if variables
	Manage retrieval parameters
	Manage global variables
	Crosstab properties

CROSSTAB TOOLBAR OPTIONS

The crosstab information bar displays position of selected cell, date & time of last data update, and comments icon.

CROSSTAB INFORMATION BAR

4.2 Creating new crosstab

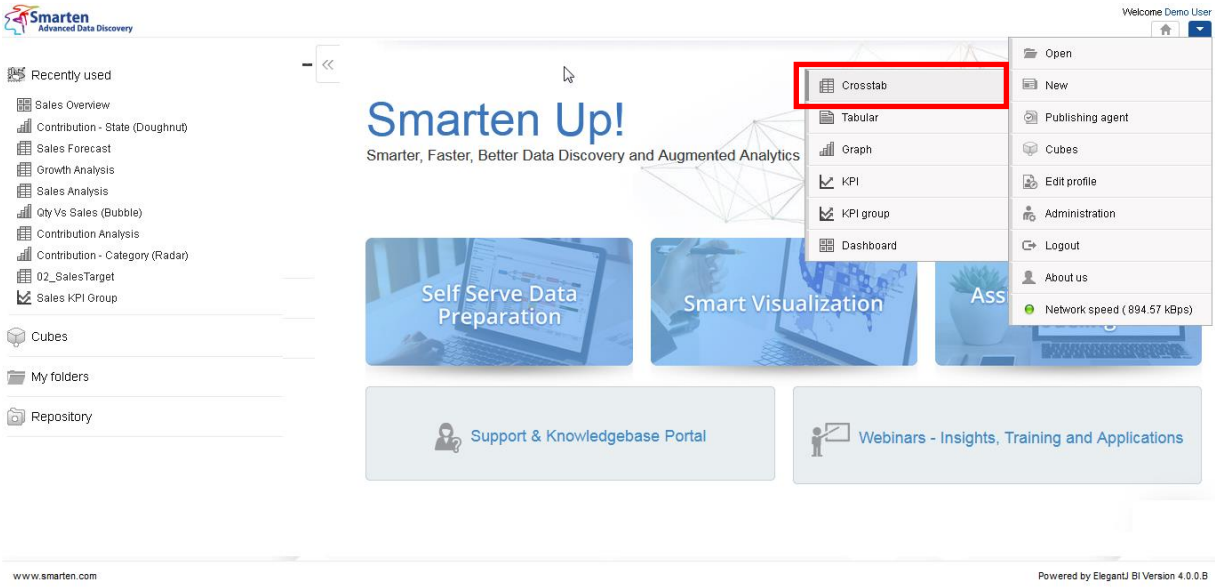
Cubes

Cubes are the main source of data that is extracted from various data sources. Cubes are indexed with multidimensional data structure and optimised for high performance, high speed, high volume query, and crosstab for quick response times.

A wizard guides you through the steps required to create a new crosstab.

Procedure

1. In the upper right-hand corner, click the **down arrow** icon.
   The system displays the Main Menu.
2. In the Main Menu, mouse over on **New**.
   The system displays the Submenu.



NEW CROSSTAB

3. Click **Crosstab**.

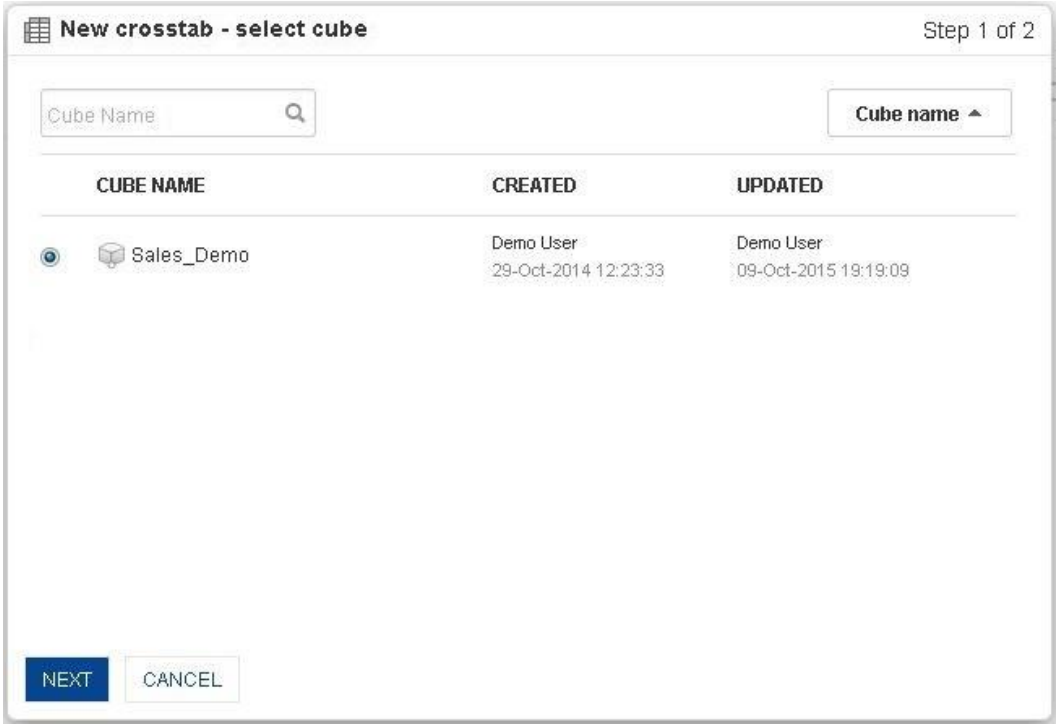
   Creating a crosstab is a wizard-driven simple process and has the following steps:

   - Step 1—Selecting cube for crosstab
   - Step 2—Building outliner settings

4.2.1 Selecting a cube for crosstab

Procedure

1. Follow the Procedure for **Creating new crosstab**.
   The system displays the **New crosstab – select cube** dialog box.



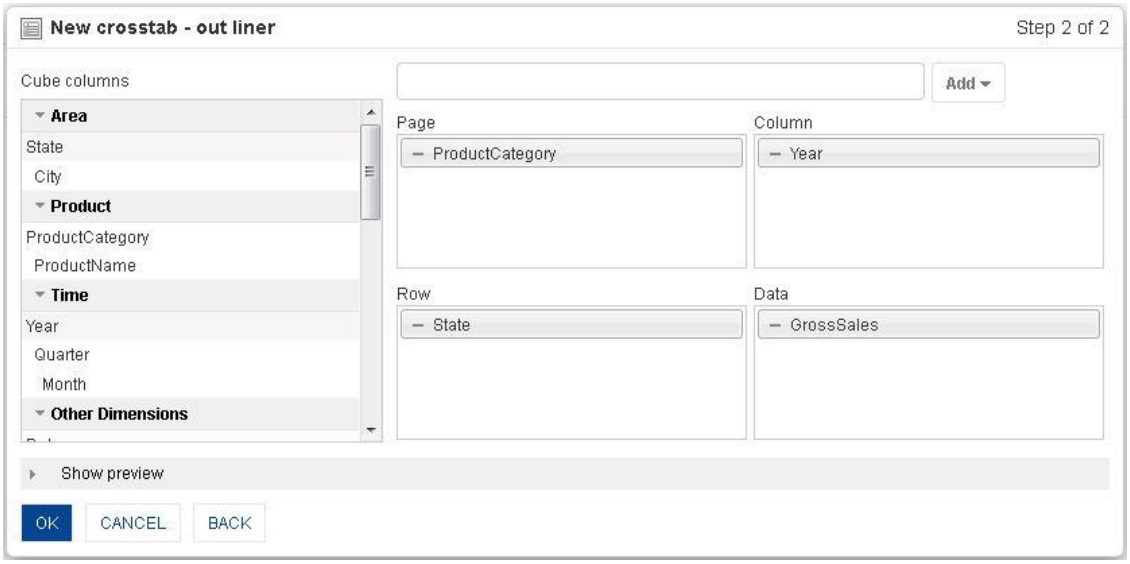
NEW CROSSTAB—SELECTING CUBE

2. Click the radio button to select the cube name.
3. Click **Next**.

4.2.2 Outliner settings

Cube Columns displays the dimensions, measures, and custom measures that are available in the cube to build the cross-tab analysis.

You can view cube columns in **Cube Columns** inside the outliner.



OUTLINER HIERARCHICAL VIEW

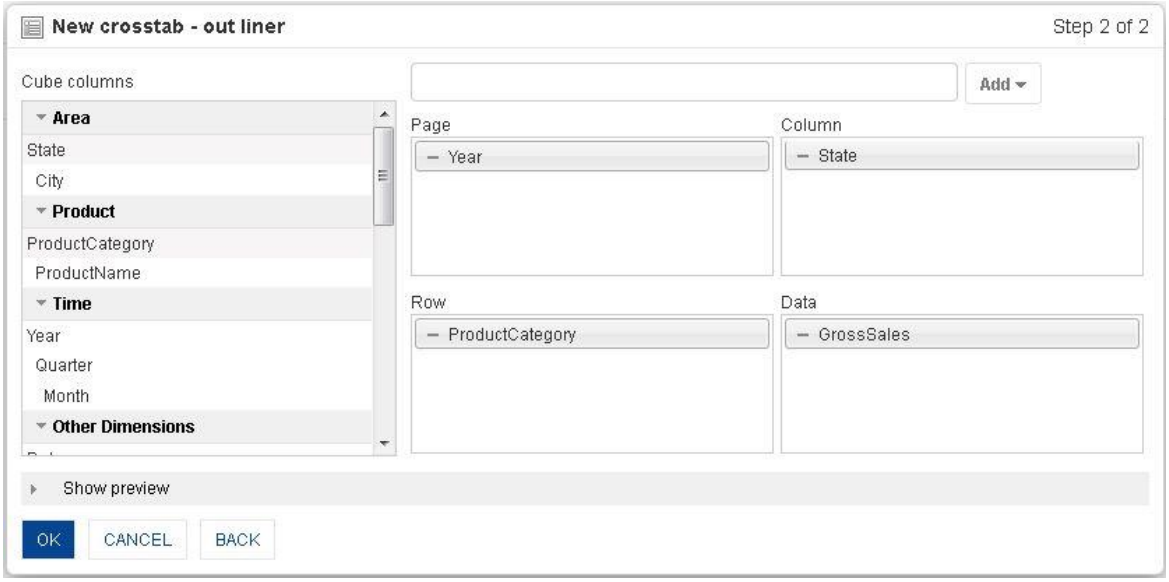
4.2.2.1 Adding columns to Page, Column, Row, and Data

About this task

To build the crosstab, you need to assign the dimensions from **Cube Columns** to **Page**, **Column**, **Row,** and **Data** sections in the Outliner.

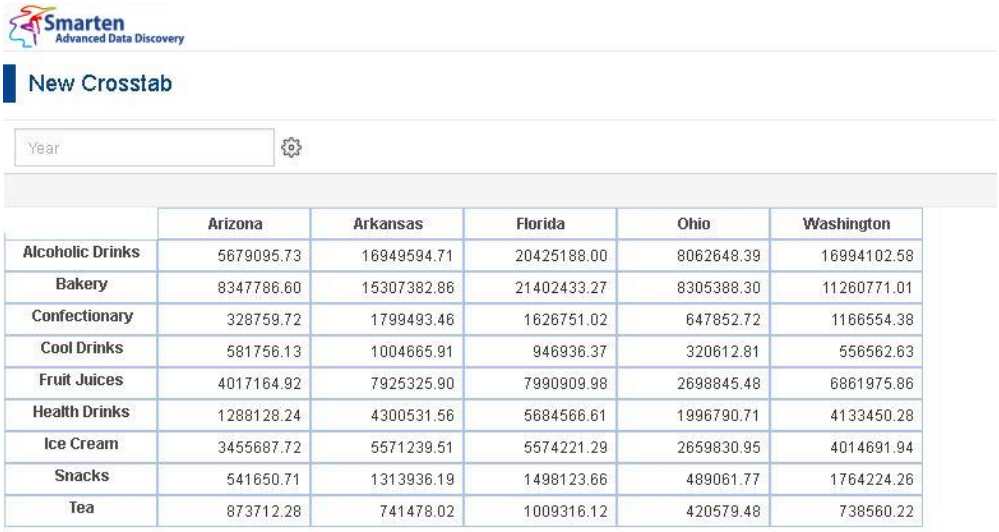
Procedure

1. Follow the **Procedure** of **Selecting a cube for crosstab**.
   The system displays the **New crosstab – outliner** dialog box.



ADDING COLUMNS TO PAGE, COLUMN, ROW, AND DATA

2. Select columns from **Cube Columns**.
3. Drag and drop the selected dimensions in **Page, Column, or Row**.
4. Drag and drop the selected measures in **Data**.
5. Click **Show Preview** to generate and preview a miniature view of cross-tab as per outliner settings.
6. Click **OK**.



	Arizona	Arkansas	Florida	Ohio	Washington
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

CROSS-TAB WITH DIMENSIONS AND MEASURE

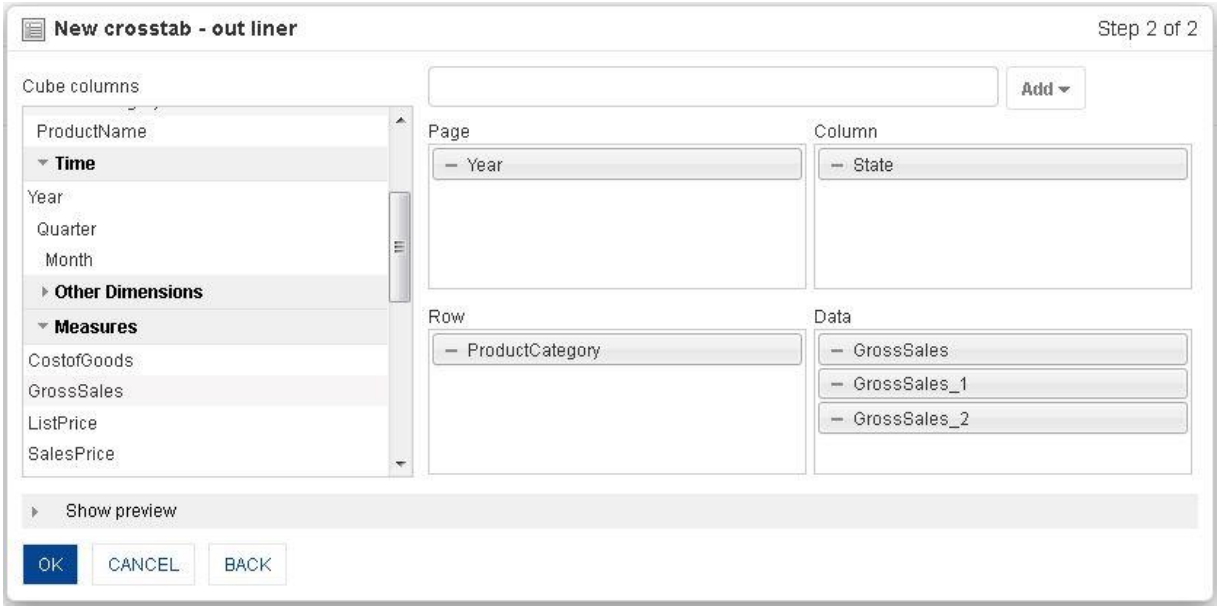
> Note:
> Once you have added a dimension to any section, you cannot add that dimension again in any other section.

4.2.2.2 Adding multiple measures

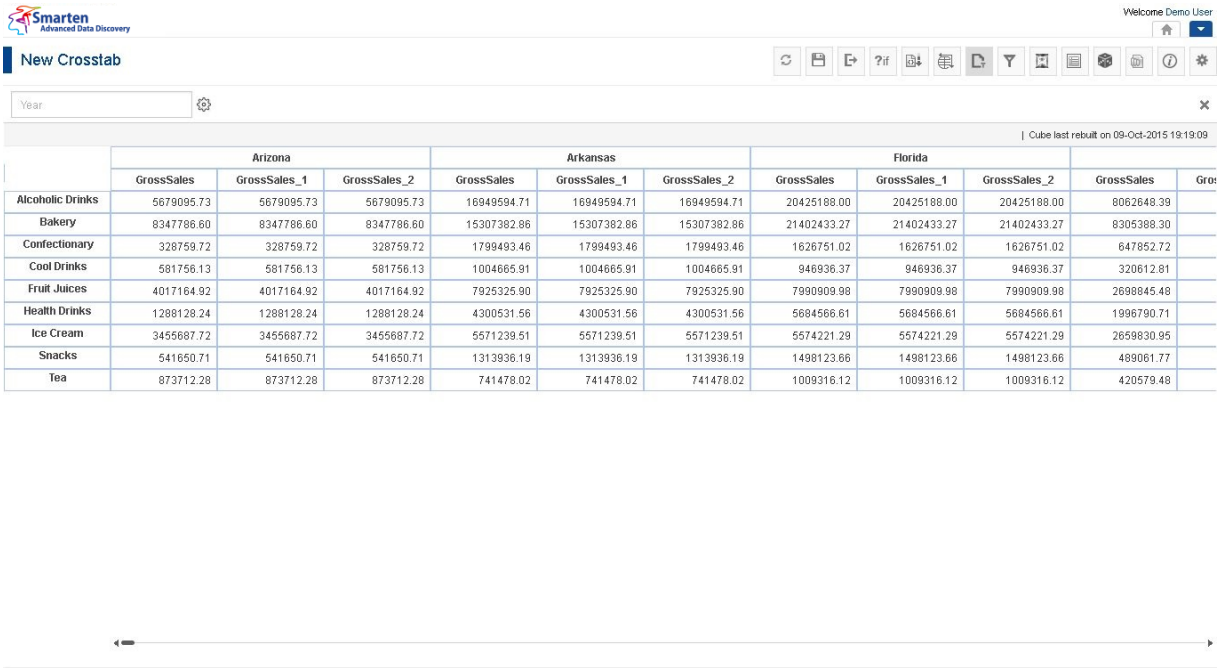
You can add multiple measure columns to **Data** sections in the outliner.

Procedure

1. Follow the **Procedure** of **Selecting a cube for crosstab.**
   The system displays the **New crosstab – outliner** dialog box.
2. Drag and drop the selected measures in **Data**.
3. Click **Show Preview** to generate and preview a miniature view of cross-tab as per outliner settings.
4. Click **OK.**



ADDING MULTIPLE MEASURES



	Arizona			Arkansas			Florida			
	GrossSales	GrossSales_1	GrossSales_2	GrossSales	GrossSales_1	GrossSales_2	GrossSales	GrossSales_1	GrossSales_2	GrossSales
Alcoholic Drinks	5679095.73	5679095.73	5679095.73	16949594.71	16949594.71	16949594.71	20425188.00	20425188.00	20425188.00	8062648.39
Bakery	8347786.60	8347786.60	8347786.60	15307382.86	15307382.86	15307382.86	21402433.27	21402433.27	21402433.27	8305388.30
Confectionary	328759.72	328759.72	328759.72	1799493.46	1799493.46	1799493.46	1626751.02	1626751.02	1626751.02	647852.72
Cool Drinks	581756.13	581756.13	581756.13	1004665.91	1004665.91	1004665.91	946936.37	946936.37	946936.37	320612.81
Fruit Juices	4017164.92	4017164.92	4017164.92	7925325.90	7925325.90	7925325.90	7990909.98	7990909.98	7990909.98	2698845.48
Health Drinks	1288128.24	1288128.24	1288128.24	4300531.56	4300531.56	4300531.56	5684566.61	5684566.61	5684566.61	1996790.71
Ice Cream	3455687.72	3455687.72	3455687.72	5571239.51	5571239.51	5571239.51	5574221.29	5574221.29	5574221.29	2659830.95
Snacks	541650.71	541650.71	541650.71	1313936.19	1313936.19	1313936.19	1498123.66	1498123.66	1498123.66	489061.77
Tea	873712.28	873712.28	873712.28	741478.02	741478.02	741478.02	1009316.12	1009316.12	1009316.12	420579.48

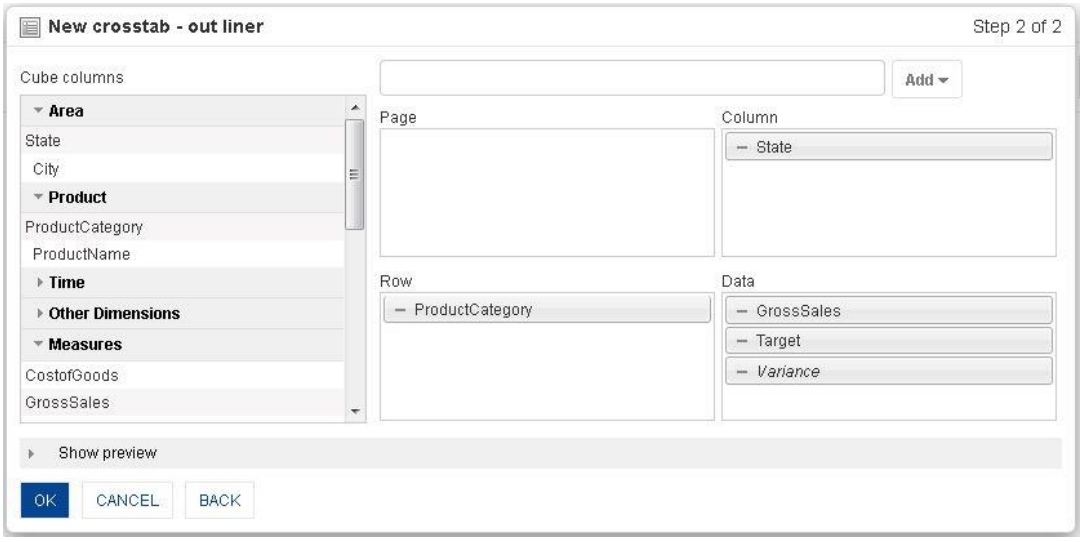
CROSS-TAB WITH DIMENSIONS AND MULTIPLE MEASURES

> Note:
> You can add multiple and duplicate measure columns to Data.

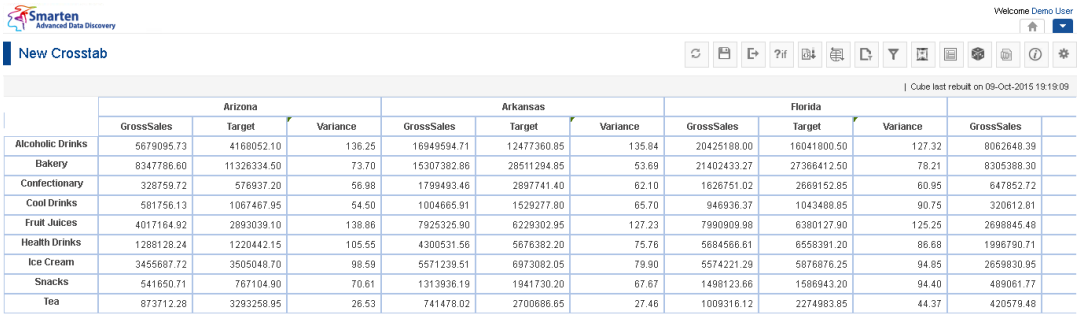
4.2.2.3 Adding Custom Measures

Procedure

1. Follow the **Procedure** of **Selecting a cube for crosstab**.
   The system displays the **New crosstab – outliner** dialog box.
2. Drag and drop the selected custom measure in **Data**.
3. Click **Show Preview** to generate and preview a miniature view of cross-tab as per outliner settings.
4. Click **OK**.



ADDING CUSTOM MEASURES



Smarten Advanced Data Discovery

Welcome Demo User

New Crosstab

| Cube last rebuilt on 09-Oct-2015 19:19:09

	Arizona			Arkansas			Florida			
	GrossSales	Target	Variance	GrossSales	Target	Variance	GrossSales	Target	Variance	GrossSales
Alcoholic Drinks	5679095.73	4168052.10	136.25	16949594.71	12477360.85	135.84	20425188.00	16041800.50	127.32	8062648.39
Bakery	8347786.60	11326334.50	73.70	15307382.86	28511294.85	53.69	21402433.27	27366412.50	78.21	8305388.30
Confectionary	328759.72	576937.20	56.98	1799493.46	2897741.40	62.10	1626751.02	2669152.85	60.95	647852.72
Cool Drinks	581756.13	1067467.95	54.50	1004665.91	1529277.80	65.70	946936.37	1043488.85	90.75	320612.81
Fruit Juices	4017164.92	2893039.10	138.86	7925325.90	6229302.95	127.23	7990909.98	6380127.90	125.25	2698845.48
Health Drinks	1288128.24	1220442.15	105.55	4300531.56	5676382.20	75.76	5684566.61	6558391.20	86.68	1996790.71
Ice Cream	3455687.72	3505048.70	98.59	5571239.51	6973082.05	79.90	5574221.29	5876876.25	94.85	2659830.95
Snacks	541650.71	767104.90	70.61	1313936.19	1941730.20	67.67	1498123.66	1586943.20	94.40	489061.77
Tea	873712.28	3293258.95	26.53	741478.02	2700686.65	27.46	1009316.12	2274983.85	44.37	420579.48

CROSS-TAB WITH CUSTOM MEASURES IN OUTLINER

Note:
All custom measures (UDDC) of a selected cube are displayed in italics in the outliner.

Reference: **Concept Manual > Analytic Functions > UDDC & UDHC**

4.3 Relationship of Outliner with Cross-tab

Outliner is a Smarten tool for defining cross-tab structure through Page, Row, Column, and Data dimensions.

1. Adding one dimension in row and one measure in data quadrant

ProductCategory	GrossSales
Alcoholic Drinks	68110629.41
Bakery	64623762.04
Confectionary	5569411.31
Cool Drinks	3410533.85
Fruit Juices	29494222.13
Health Drinks	17403467.39
Ice Cream	21275671.40
Snacks	5606996.60
Tea	3783646.12

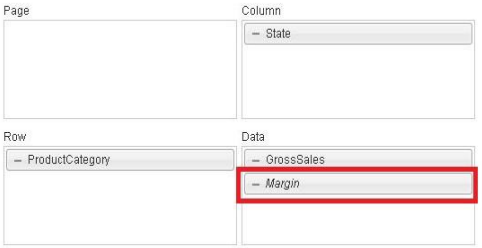
ADDING ONE DIMENSION IN ROW AND ONE MEASURE IN DATA QUADRANT

2. Adding one dimension in column, one in row, and one measure in data quadrant

	Arizona	Arkansas	Florida	Ohio	Washington
ProductCategory	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

ADDING ONE DIMENSION IN COLUMN, ONE IN ROW, AND ONE MEASURE IN DATA QUADRANT

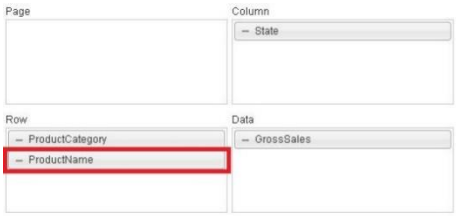
3. Adding one dimension in row, one in column, one measure and one custom measure (UDDC) in the data quadrant



	Arizona		Arkansas		Florida		Ohio		Washington	
ProductCategory	GrossSales	Margin	GrossSales	Margin	GrossSales	Margin	GrossSales	Margin	GrossSales	Margin
Alcoholic Drinks	5679095.73	17641.25	16949594.71	54737.40	20425188.00	69082.60	8062648.39	26353.75	16994102.58	54905.30
Bakery	8347786.60	34227.02	15307382.86	61581.44	21402433.27	78281.59	8305388.30	33415.39	11260771.01	43645.01
Confectionary	328759.72	4756.40	1799493.46	23203.70	1626751.02	23229.50	647852.72	8676.87	1166554.38	16014.22
Cool Drinks	581756.13	10099.45	1004665.91	17513.68	946936.37	17476.65	320612.81	5669.98	556562.63	9799.65
Fruit Juices	4017164.92	30798.20	7925325.90	65518.80	7990909.98	70817.25	2698845.48	23180.85	6861975.86	58295.40
Health Drinks	1288128.24	10228.40	4300531.56	33625.20	5684566.61	43358.05	1996790.71	14660.35	4133450.28	31386.45
Ice Cream	3455687.72	32822.30	5571239.51	53782.35	5574221.29	55639.85	2659830.95	25561.25	4014691.94	38850.85
Snacks	541650.71	6799.80	1313936.19	18223.30	1498123.66	21092.40	489061.77	6748.35	1764224.26	23576.50
Tea	873712.28	7772.41	741478.02	7059.68	1009316.12	9931.28	420579.48	4279.66	738560.22	6777.15

ADDING ONE DIMENSION IN ROW, ONE IN COLUMN, ONE MEASURE AND ONE CUSTOM MEASURE (UDDC) IN THE DATA QUADRANT

4. Adding one dimension in column, two dimensions in row, and one measure in the data quadrant



		Arizona	Arkansas	Florida	Ohio	Washington
ProductCategory	ProductName	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	Beer	1941878.70	7034826.83	10181924.10	2507707.22	7996336.09
	Whisky	1821136.69	6926420.71	6247864.60	3355917.91	6224110.69
	Wine	1916080.34	2988347.17	3995399.31	2199023.26	2773655.80
Bakery	Cake	1426505.76	2637695.11	1986093.58	1411503.33	1610841.48
	Cookies	6921280.85	12669687.75	19416339.69	6893884.97	9649929.52
Confectionary	Mints	220079.99	1558712.30	1218668.90	537342.86	936009.52
	Toffees	108679.73	240781.16	408082.12	110509.87	230544.86
Cool Drinks	Cola	320584.02	387827.37	452604.60	119597.71	413149.02
	Soda	261172.11	616838.54	494331.77	201015.09	143413.61
Fruit Juices	Apple	2147753.06	3001359.86	2687772.61	856918.35	2259913.14
	Mango	1338052.40	2936329.66	3268923.21	820101.83	2947388.43
	Orange	531359.46	1987636.38	2034214.16	1021825.30	1654674.29
Health Drinks	Chocolate	835908.67	3141761.82	4457324.55	1692179.87	3291347.11
	Strawberry	452219.57	1158769.74	1227242.05	304610.84	842103.16
Ice Cream	Pineapple	1246318.54	1639460.90	1659459.85	838523.46	1265264.26
	Vanilla	2209369.18	3931778.61	3914761.44	1821307.48	2749427.68
Snacks	Macaroni	349253.96	633710.82	707602.82	216972.74	718803.92
	Noodles	192396.74	680225.38	790520.84	272089.03	1045420.34
Tea	Ginger Tea	583407.00	516828.69	674347.97	238669.56	531230.37
	Green Tea	290305.28	224649.32	334968.15	181909.92	207329.86

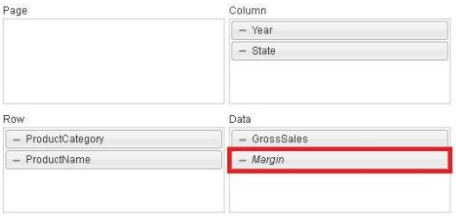
ADDING ONE DIMENSION IN COLUMN, TWO DIMENSIONS IN ROW, AND ONE MEASURE IN THE DATA QUADRANT

5. Adding two dimensions in column and row, one measure in the data quadrant

		2012			2013			2014		
		Arizona	Florida	Ohio	Arizona	Florida	Ohio	Arizona	Florida	Ohio
ProductCategory	ProductName	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	Beer	231066.87	1716217.91	610182.66	475939.13	5679561.74	423169.36	1110092.60	1177405.73	1397276.03
	Whisky	393499.97	2256834.90	1214435.16	322180.65	1478708.35	980809.52	941032.83	702696.22	1004742.64
	Wine	155763.90	837350.28	922590.53	214299.14	769667.85	532040.42	1404436.45	1265814.27	439957.80
Bakery	Cake	213495.46	305565.00	217005.41	518090.18	300386.47	353264.67	628795.67	804167.88	800687.48
	Cookies	2721631.53	4895405.70	3050632.62	1760020.84	3475065.38	2066495.59	993954.57	5484490.99	941988.25
Confectionary	Mints	58166.08	290842.10	193179.11	41789.89	293767.77	204774.23	110317.20	362117.36	110734.14
	Toffees	12412.60	118067.72	14634.51	19179.69	130688.31	15510.60	70948.34	103242.11	78876.57
Cool Drinks	Cola	55660.13	115937.16	36796.91	34918.84	102952.67	46512.62	220940.77	148810.30	28908.08
	Soda	53386.65	109110.49	68192.79	127271.60	139982.56	60803.67	41868.29	134700.67	56869.76
Health Drinks	Chocolate	165550.28	856350.15	366773.83	113577.40	1533862.70	265658.91	517620.27	950567.72	927920.22
	Strawberry	69300.09	341657.89	48750.45	84992.40	422483.63	101917.41	281469.64	275559.13	134601.69
Ice Cream	Pineapple	158880.03	553832.80	282995.52	351975.42	575633.62	233834.52	654859.27	139282.90	276671.08
	Vanilla	594496.34	1102349.27	512105.53	602360.00	1092220.00	597944.29	770548.41	813751.77	618782.47
Snacks	Macaroni	42974.23	199410.27	98288.62	61663.55	190467.90	80804.00	231547.60	193476.47	23975.53
	Noodles	12434.59	251037.04	86904.27	46421.47	275811.44	107652.32	112784.68	98234.25	64466.75

ADDING TWO DIMENSIONS IN COLUMN AND ROW, ONE MEASURE IN THE DATA QUADRANT

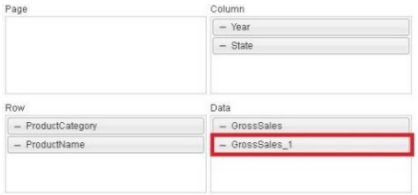
6. Adding two dimensions in column and row, a measure and custom measure (UDDC) in data quadrant



		2012				2013				2014			
		Arizona		Florida		Arizona		Florida		Arizona		Florida	
ProductCategory	ProductName	GrossSales	Margin	GrossSales	Margin	GrossSales	Margin	GrossSales	Margin	GrossSales	Margin	GrossSales	Margin
Alcoholic Drinks	Beer	231066.87	847.00	1716217.91	6079.80	475939.13	1581.95	5679561.74	19472.65	1110092.60	3180.20	1177405.73	3276.75
	Whisky	393499.97	1264.45	2256834.90	6826.65	322180.65	890.75	1478708.35	4148.55	941032.83	2359.60	702696.22	1977.45
	Wine	155763.90	650.60	837350.28	3186.25	214299.14	761.25	769667.85	2862.95	1404436.45	4510.20	1265814.27	4296.45
Bakery	Cake	213495.46	1880.65	305565.00	2823.99	518090.18	4686.40	300386.47	2541.95	628795.67	4567.75	804167.88	5505.90
	Cookies	2721631.53	8709.87	4895405.70	16229.80	1760020.84	5256.50	3475065.38	10582.20	993954.57	2940.60	5484490.99	14709.70
Confectionary	Mints	58166.08	769.50	290842.10	3655.25	41789.89	530.05	293767.77	3310.25	110317.20	1124.52	362117.36	3428.48
	Toffees	12412.60	335.70	118067.72	2843.85	19179.69	378.00	130688.31	2878.75	70948.34	1308.12	103242.11	1878.52
Cool Drinks	Cola	55660.13	1064.85	115937.16	2295.00	34918.84	627.00	102952.67	1863.60	220940.77	3534.68	148810.30	2367.62
	Soda	53386.65	1056.60	109110.49	2139.95	127271.60	2199.00	139982.56	2502.00	41868.29	660.62	134700.67	2114.02
Health Drinks	Chocolate	165550.28	1041.05	856350.15	5563.00	113577.40	647.00	1533862.70	9051.30	517620.27	3072.60	950567.72	6023.25
	Strawberry	69300.09	824.10	341657.89	4370.25	84992.40	910.00	422483.63	4944.30	281469.64	3224.25	275559.13	2972.70
Ice Cream	Pineapple	158880.03	2089.10	553832.80	7036.75	351975.42	3905.00	575633.62	6236.35	654859.27	6191.00	139282.90	1407.35
	Vanilla	594496.34	5700.95	1102349.27	10417.05	602360.00	5241.00	1092220.00	9145.95	770548.41	6061.05	813751.77	6415.90
Snacks	Macaroni	42974.23	649.15	199410.27	2973.10	61663.55	896.00	190467.90	2541.60	231547.60	2580.00	193476.47	2120.10
	Noodles	12434.59	204.95	251037.04	3900.00	46421.47	596.00	275811.44	3643.70	112784.68	1340.00	98234.25	1215.45

ADDING TWO DIMENSIONS IN COLUMN AND ROW, A MEASURE AND CUSTOM MEASURE (UDDC) IN DATA QUADRANT

7. Adding two dimensions in column and row and duplicate measure in data quadrant



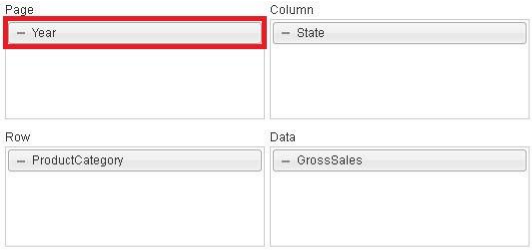
		2012				2013				2014			
		Arizona		Florida		Arizona		Florida		Arizona		Florida	
ProductCategory	ProductName	GrossSales	GrossSales_1	GrossSales	GrossSales_1	GrossSales	GrossSales_1	GrossSales	GrossSales_1	GrossSales	GrossSales_1	GrossSales	GrossSales_1
Alcoholic Drinks	Beer	231066.87	231066.87	1716217.91	1716217.91	475939.13	475939.13	5679561.74	5679561.74	1110092.60	1110092.60	1177405.73	1177405.73
	Whisky	393499.97	393499.97	2256834.90	2256834.90	322180.65	322180.65	1478708.35	1478708.35	941032.83	941032.83	702696.22	702696.22
	Wine	155763.90	155763.90	837350.28	837350.28	214299.14	214299.14	769667.85	769667.85	1404436.45	1404436.45	1265814.27	1265814.27
Bakery	Cake	213495.46	213495.46	305565.00	305565.00	518090.18	518090.18	300386.47	300386.47	628795.67	628795.67	804167.88	804167.88
	Cookies	2721631.53	2721631.53	4895405.70	4895405.70	1760020.84	1760020.84	3475065.38	3475065.38	993954.57	993954.57	5484490.99	5484490.99
Confectionary	Mints	58166.08	58166.08	290842.10	290842.10	41789.89	41789.89	293767.77	293767.77	110317.20	110317.20	362117.36	362117.36
	Toffees	12412.60	12412.60	118067.72	118067.72	19179.69	19179.69	130688.31	130688.31	70948.34	70948.34	103242.11	103242.11
Cool Drinks	Cola	55660.13	55660.13	115937.16	115937.16	34918.84	34918.84	102952.67	102952.67	220940.77	220940.77	148810.30	148810.30
	Soda	53386.65	53386.65	109110.49	109110.49	127271.60	127271.60	139982.56	139982.56	41868.29	41868.29	134700.67	134700.67
Health Drinks	Chocolate	165550.28	165550.28	856350.15	856350.15	113577.40	113577.40	1533862.70	1533862.70	517620.27	517620.27	950567.72	950567.72
	Strawberry	69300.09	69300.09	341657.89	341657.89	84992.40	84992.40	422483.63	422483.63	281469.64	281469.64	275559.13	275559.13
Ice Cream	Pineapple	158880.03	158880.03	553832.80	553832.80	351975.42	351975.42	575633.62	575633.62	654859.27	654859.27	139282.90	139282.90
	Vanilla	594496.34	594496.34	1102349.27	1102349.27	602360.00	602360.00	1092220.00	1092220.00	770548.41	770548.41	813751.77	813751.77
Snacks	Macaroni	42974.23	42974.23	199410.27	199410.27	61663.55	61663.55	190467.90	190467.90	231547.60	231547.60	193476.47	193476.47
	Noodles	12434.59	12434.59	251037.04	251037.04	46421.47	46421.47	275811.44	275811.44	112784.68	112784.68	98234.25	98234.25

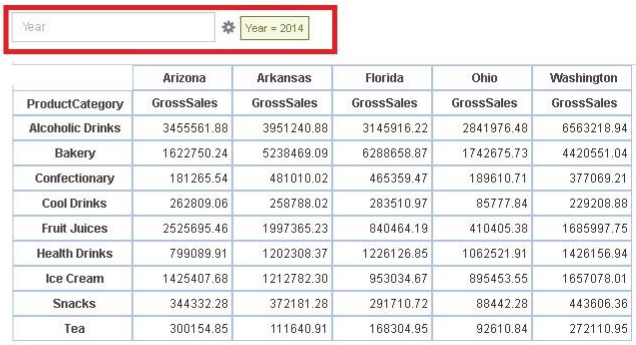
ADDING TWO DIMENSIONS IN COLUMN AND ROW AND DUPLICATE MEASURE IN DATA QUADRANT

Note:
Duplicate (multiple) columns in data dimension: You can add same measure column multiple times in the data quadrant. This will create duplicate columns from the same measure. You can then apply different filters and data operations on these columns to analyse the same measure with different expressions.

For example, in order to view gross sales of a product and % of sales of a product to total sales, you can add “GrossSales” measure twice in the data quadrant and create two identical columns. The subsequent duplicate column will have the same heading with suffix like “_1” or “_2.” Once two columns are created, you can apply row percentage data operation on second column and see gross sales in first column and row percentage in second column.

8. Adding one dimension in page, one in row, one in column, and one measure in data quadrant

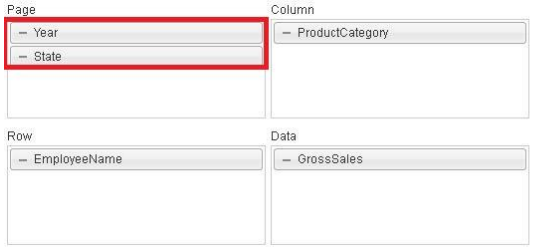




	Arizona	Arkansas	Florida	Ohio	Washington
ProductCategory	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	3455561.88	3951240.88	3145916.22	2841976.48	6563218.94
Bakery	1622750.24	5238469.09	6288658.87	1742675.73	4420551.04
Confectionary	181265.54	481010.02	465359.47	189610.71	377069.21
Cool Drinks	262809.06	258788.02	283510.97	85777.84	229208.88
Fruit Juices	2525695.46	1997365.23	840464.19	410405.38	1685997.75
Health Drinks	799089.91	1202308.37	1226126.85	1062521.91	1426156.94
Ice Cream	1425407.68	1212782.30	953034.67	895453.55	1657078.01
Snacks	344332.28	372181.28	291710.72	88442.28	443606.36
Tea	300154.85	111640.91	168304.95	92610.84	272110.95

ADDING ONE DIMENSION IN PAGE, ONE IN ROW, ONE IN COLUMN, AND ONE MEASURE IN DATA QUADRANT

9. Adding two dimensions in page, one in row, one in column, and one measure in data quadrant



	Alcoholic Drinks	Bakery	Confectionary	Cool Drinks	Fruit Juices	Health Drinks	Ice Cream	Snacks	Tea
Heather Bruce		4404009.19	216201.39	182164.40	387174.98		987874.44		84937.41
Jenifer Jefferson		834459.90		76623.62			224907.85		26703.50
Jennifer Paul			104535.75		211037.83	36970.20			
Vuong Smith	3951240.88		160272.88		1399152.43	1165338.17		372181.28	

ADDING TWO DIMENSIONS IN PAGE, ONE IN ROW, ONE IN COLUMN, AND ONE MEASURE IN DATA QUADRANT

10. Adding measure(s) in the data quadrant without any dimensions in either of the Page, Column, or Row quadrants

SalesQty	GrossSales
1311096.93	219278340.24

The sum of the results in SalesQty column

The sum of the results in GrossSales column

ADDING MEASURE(S) IN DATA QUADRANT WITHOUT ANY DIMENSIONS IN EITHER OF THE PAGE, COLUMN, OR ROW QUADRANTS

4.4 Operations on crosstab

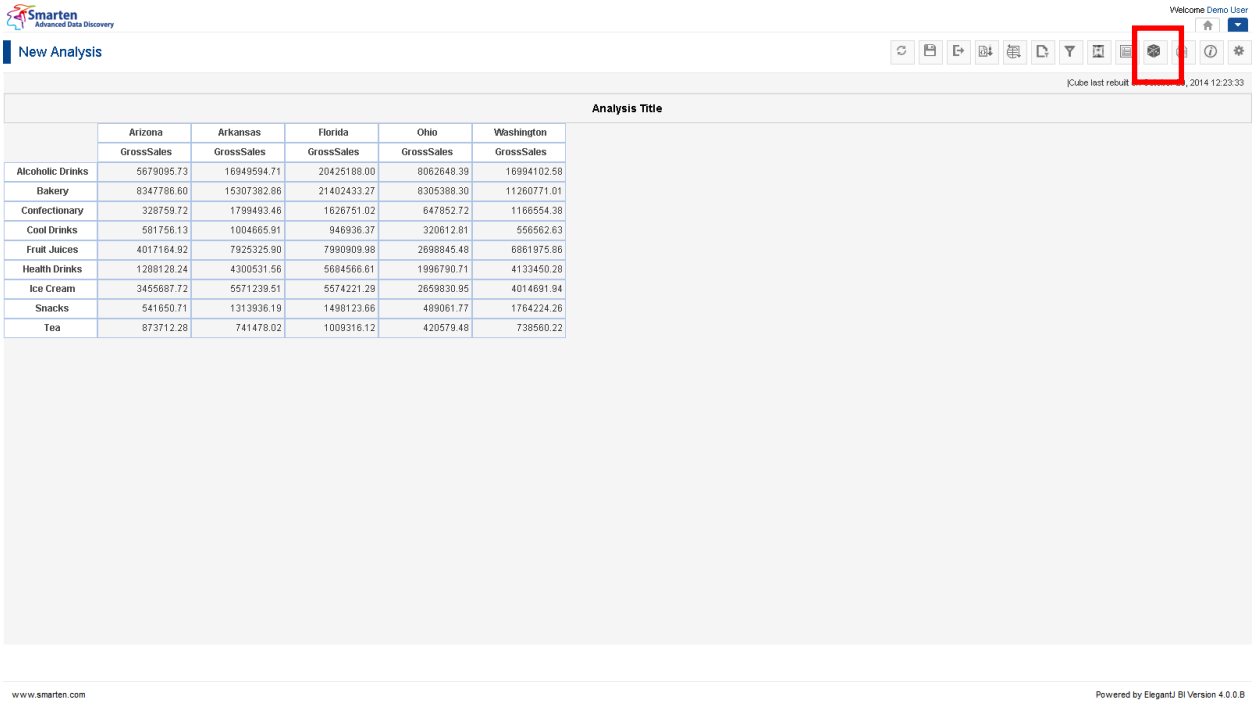
4.4.1 Slice and dice

The slice and dice operation allows analysis of data from various perspectives to derive insightful information. After generating a crosstab, you can swap dimensions from row to column and column to row in cross-tabs.

4.4.1.1 Performing the slice and dice operation

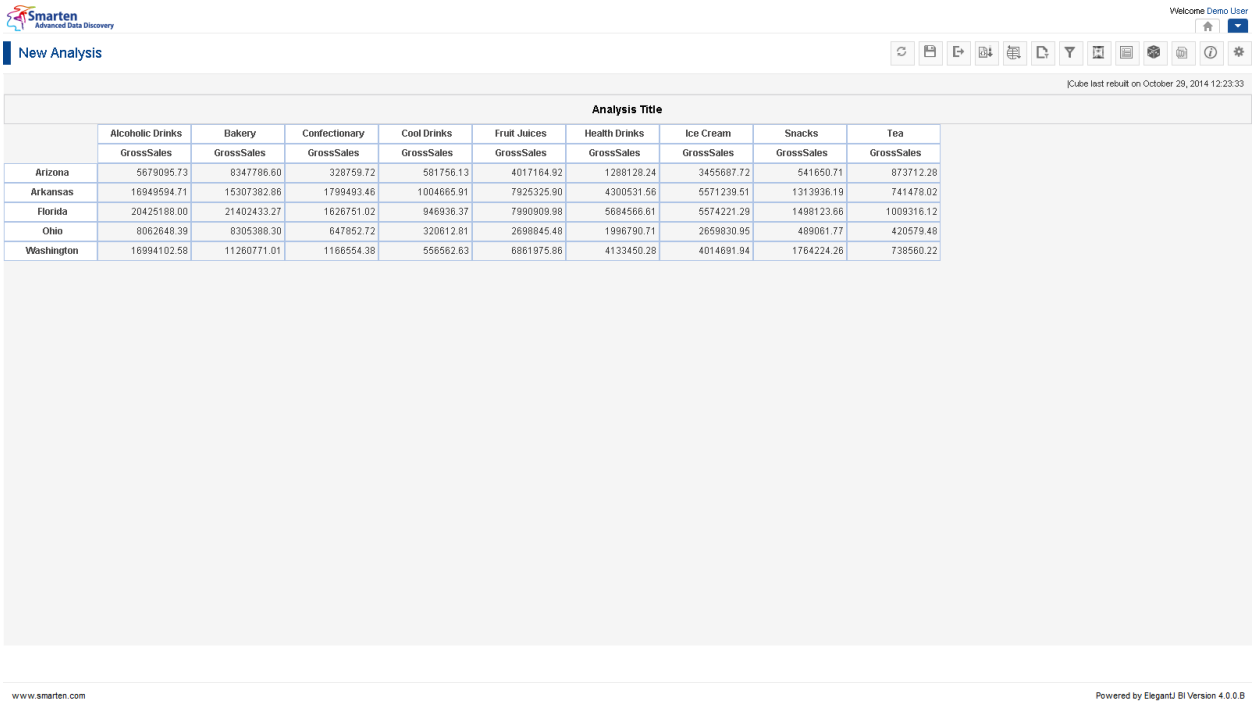
Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the Crosstab Toolbar, click **Slice and dice**.
   The system displays the results page.



	Arizona	Arkansas	Florida	Ohio	Washington
	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

BEFORE SLICE AND DICE



Analysis Title									
	Alcoholic Drinks	Bakery	Confectionary	Cool Drinks	Fruit Juices	Health Drinks	Ice Cream	Snacks	Tea
	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Arizona	5679095.73	8347786.60	328759.72	581756.13	4017164.92	1288128.24	3455687.72	541650.71	873712.28
Arkansas	16949594.71	15307382.86	1799493.46	1004665.91	7925325.90	4300531.56	5571239.51	1313936.19	741478.02
Florida	20425188.00	21402433.27	1626751.02	946936.37	7990909.98	5684566.61	5574221.29	1498123.66	1009316.12
Ohio	8062648.39	8305388.30	647852.72	320612.81	2698845.48	1996790.71	2659830.95	489061.77	420579.48
Washington	16994102.58	11260771.01	1166554.38	556562.63	6861975.86	4133450.28	4014691.94	1764224.26	738560.22

AFTER SLICE AND DICE

When you perform the slice and dice operation, the Smarten swaps the rows with the columns. In the above screenshots, the state and product category dimensions are swapped.

Reference: **Concept Manual > Analytic Functions > Slice & Dice**

4.4.2 Drill down and drill up

The drill down and drill up operation provides interactive data analysis through predefined dimension hierarchy. Using drill down and drill up, you can perform hierarchical drilling on column and row headings available as links in crosstab.

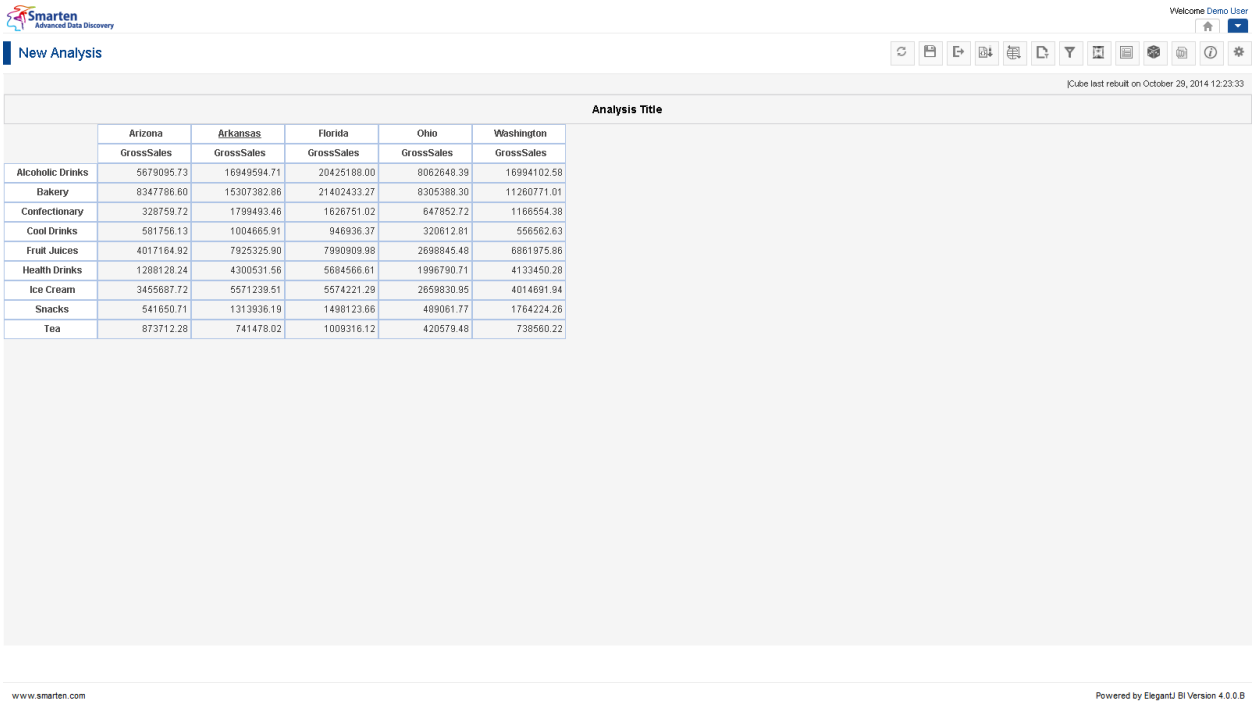
4.4.2.1 Performing the drill down and drill up operation

About this task

You can use the drill down option to navigate from less-detailed aggregated information to view data that is more granular.

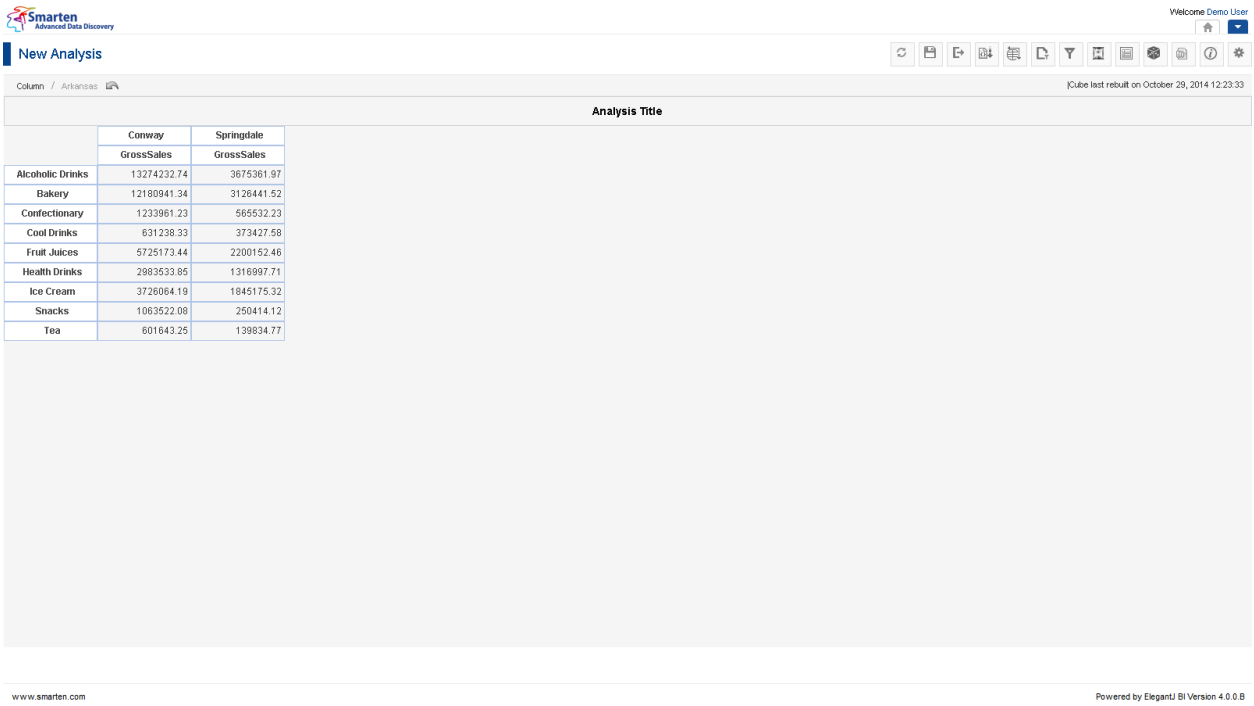
Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the Crosstab Toolbar, click the dimension on which you want to perform the drill down operation.
   The system displays the results page.



	Arizona	Arkansas	Florida	Ohio	Washington
	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647952.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

BEFORE DRILL DOWN

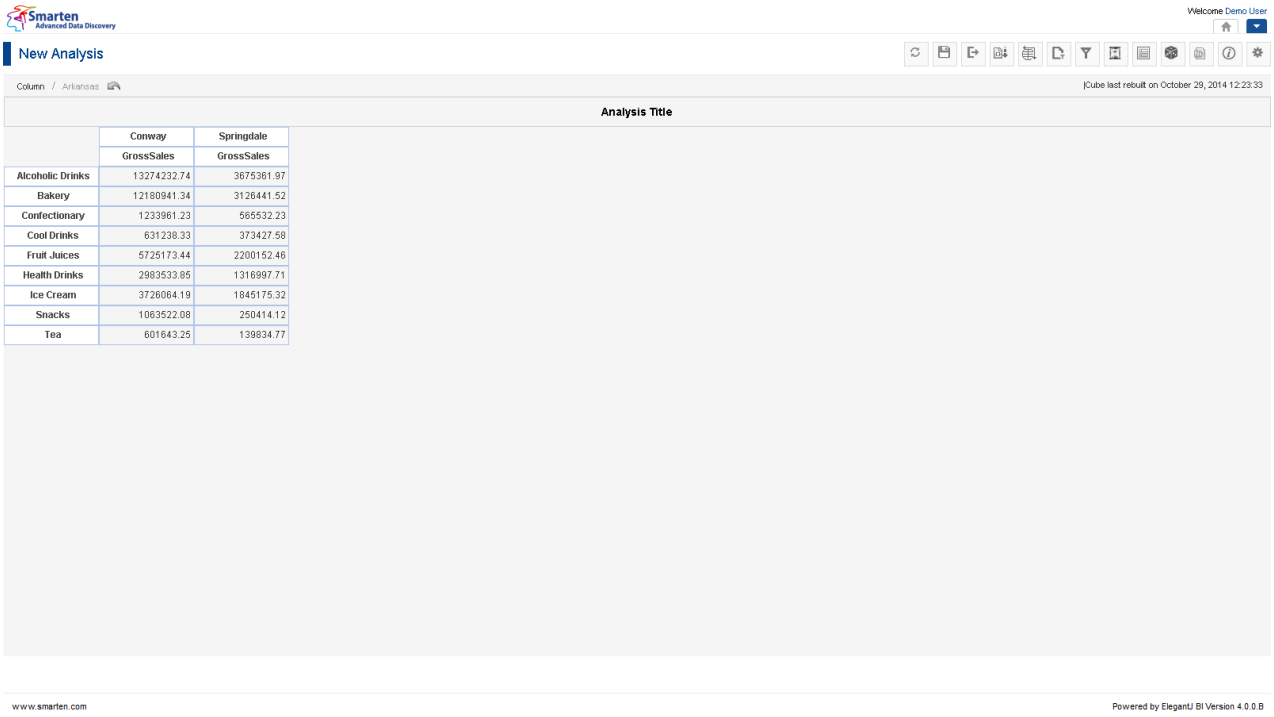


	Conway	Springdale
	GrossSales	GrossSales
Alcoholic Drinks	13274232.74	3675361.97
Bakery	12180941.34	3126441.52
Confectionary	1233961.23	565532.23
Cool Drinks	631238.33	373427.58
Fruit Juices	5725173.44	2200152.46
Health Drinks	2983533.85	1316997.71
Ice Cream	3726064.19	1845175.32
Snacks	1063522.08	250414.12
Tea	601643.25	139834.77

AFTER DRILL DOWN

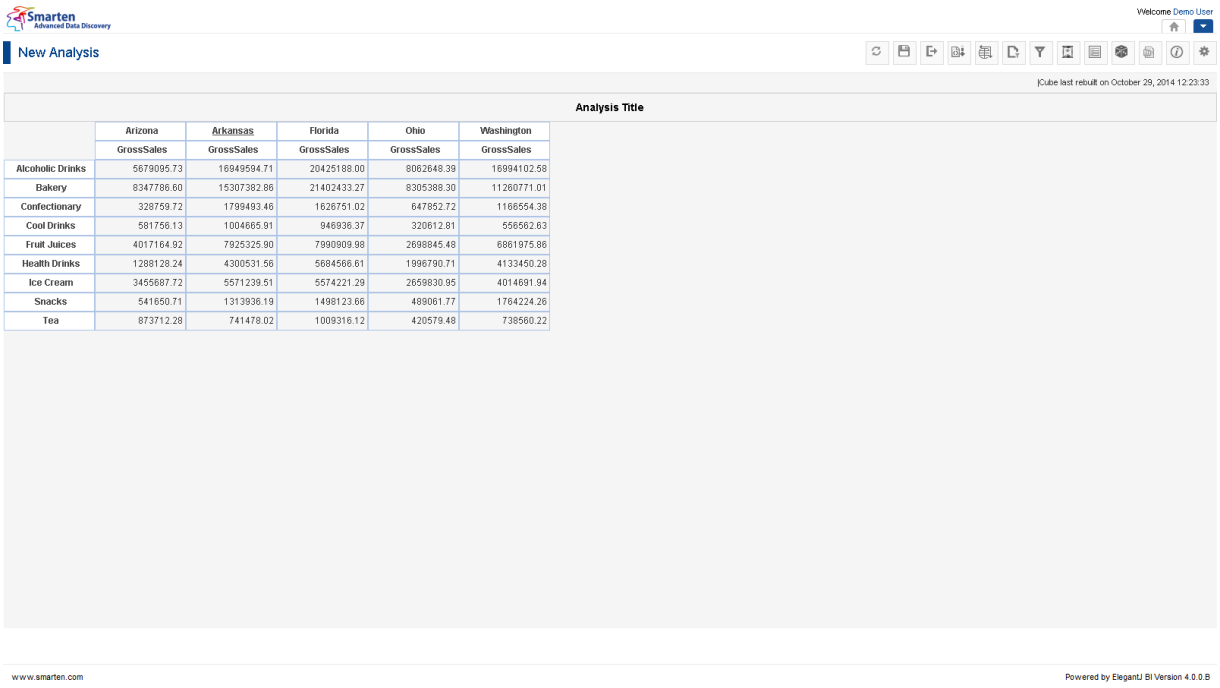
When you perform the drill down operation, Smarten displays the results for all the areas under the selected dimension. In the above screenshots, when Arkansas is selected, Smarten displays the Gross Sales of all Products for cities that fall under Arkansas.

To drill up back to the original results, click the Back arrow key next to the Dimension name.



	Conway	Springdale
	GrossSales	GrossSales
Alcoholic Drinks	13274232.74	3675361.97
Bakery	12180941.34	3126441.52
Confectionary	1233961.23	565532.23
Cool Drinks	631238.33	373427.58
Fruit Juices	5725173.44	2200152.46
Health Drinks	2983533.85	1316997.71
Ice Cream	3726064.19	1845175.32
Snacks	1063522.08	250414.12
Tea	601643.25	139834.77

BEFORE DRILL UP



	Arizona	Arkansas	Florida	Ohio	Washington
	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

AFTER DRILL UP

Reference: **Concept Manual > Analytic Functions> Drill Down and Drill Up**

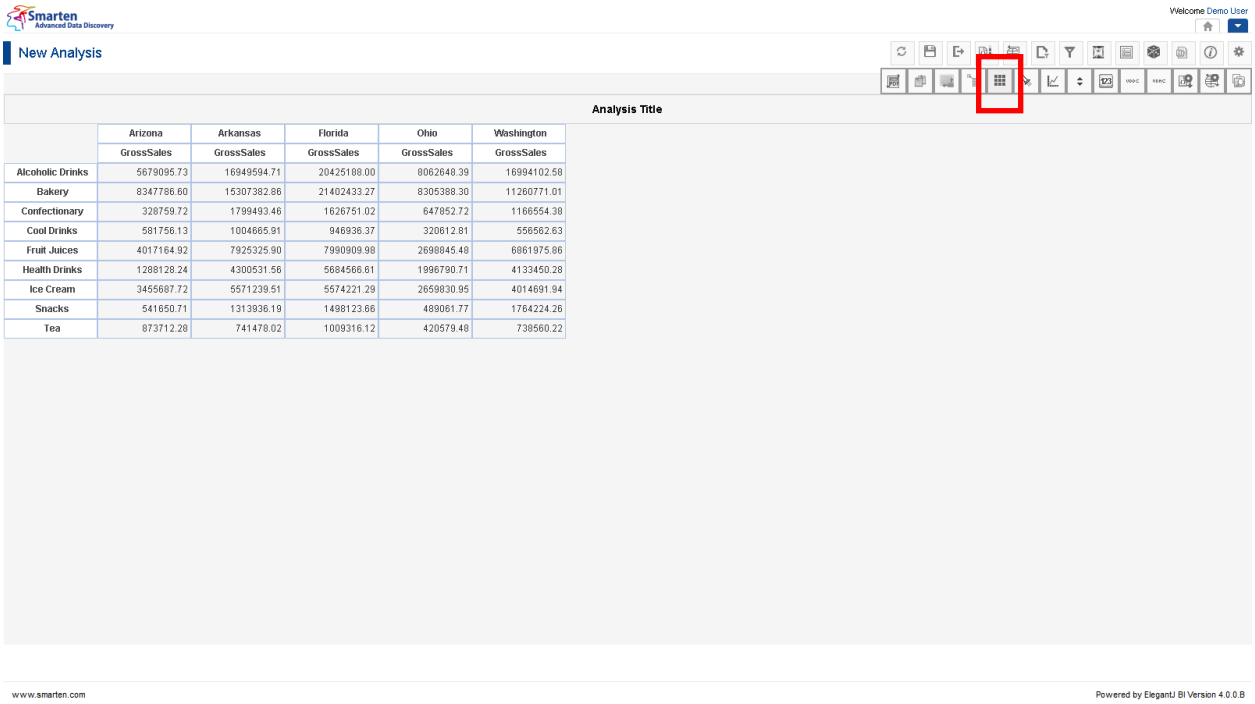
4.4.3 Drill through

You can use the drill through operation on crosstab to retrieve detailed row-level and transaction-level data from cubes. You can access the underlying transactional or row-level view of selected crosstab columns, row, or cell. For example, performing the drill through operation on the cell for state Arkansas, year 2014 displays all the row-level records that contribute to the sales of state Arkansas for year 2014.

4.4.3.1 Performing the drill through operation

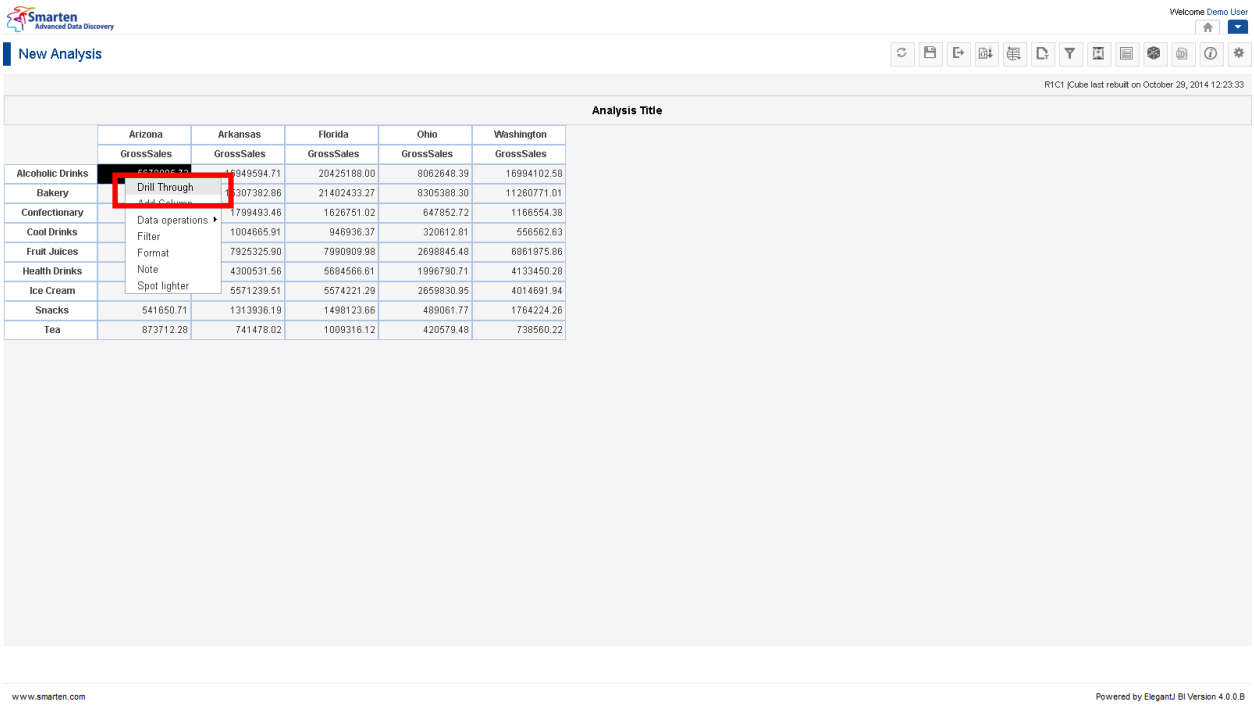
Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. You can perform drill through operation from the Crosstab Toolbar.
   Or
   In the crosstab, right-click on a specific cell.



	Arizona	Arkansas	Florida	Ohio	Washington
	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

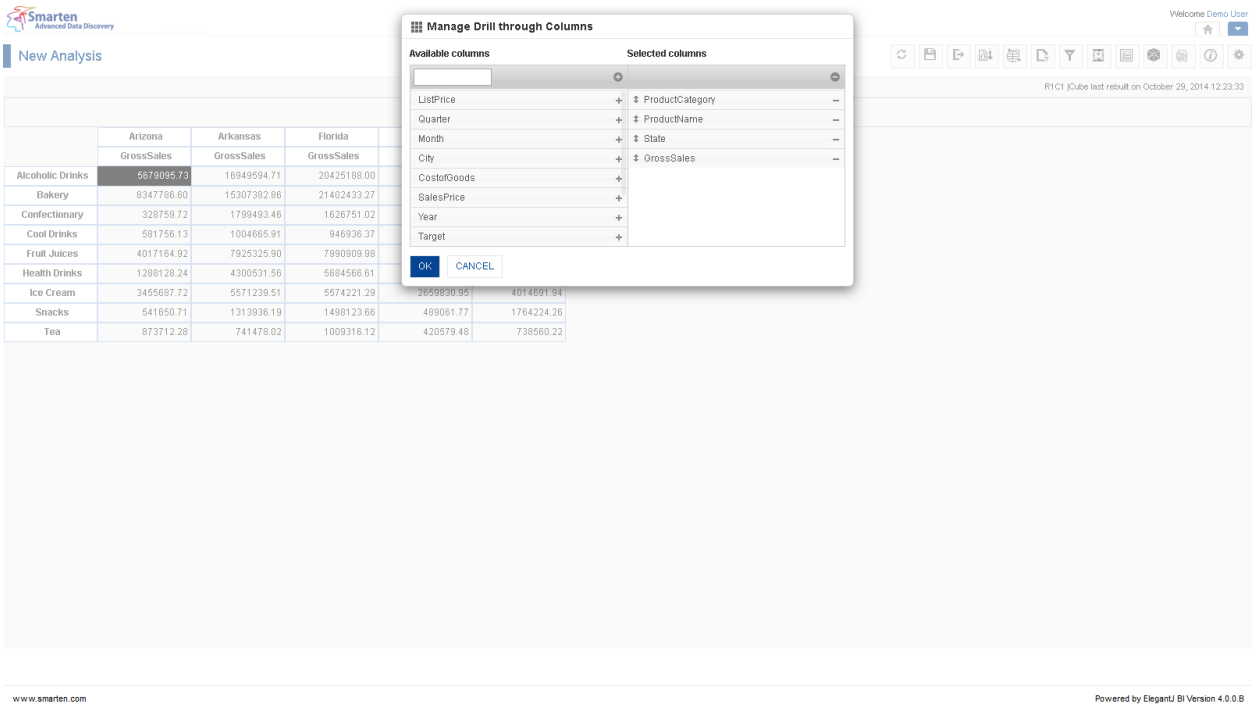
DRILL THROUGH OPERATION FROM TOOLBAR



	Arizona	Arkansas	Florida	Ohio	Washington
	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	[illegible]	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	[illegible]	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	[illegible]	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	[illegible]	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	[illegible]	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	[illegible]	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	[illegible]	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

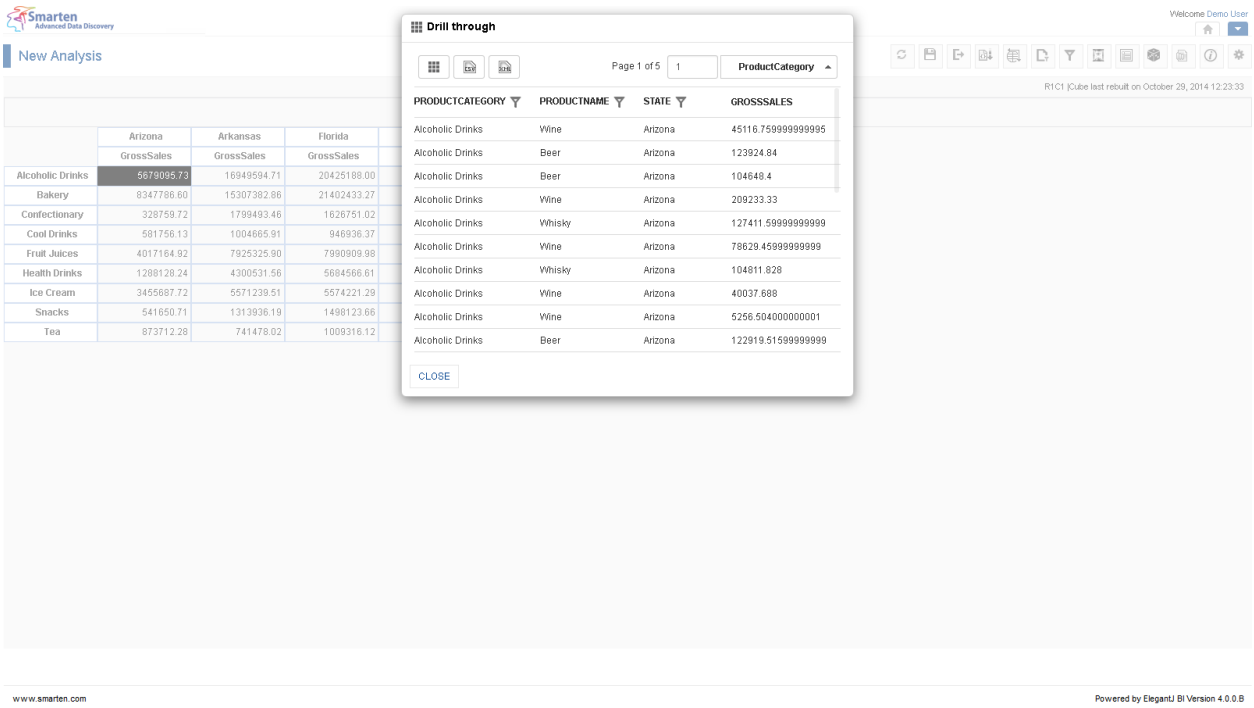
DRILL THROUGH OPERATION FROM CROSSTAB

The system displays the **Manage Drill through Columns** dialog box if columns are not selected for drill through earlier. If drill through columns are selected earlier, the system will straightaway open drill through view.



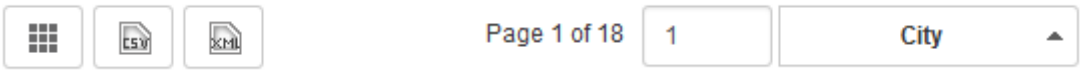
MANAGE DRILL THROUGH COLUMNS

3. On the **Manage Drill through Columns** screen, drag and drop the columns from the **Available Columns** section to the **Selected Columns** section. You can set the order of the selected columns by moving up and down the columns from **Selected Columns** section.



DRILL THROUGH DATA

4. Click **OK**.
   The system displays the drill through screen with all records for the selected cell.



CROSSTAB: DRILL THROUGH DIALOG OPTIONS

Icon	Icon name
	Manage drill through columns
	CSV export
	XML export
Page 1 of 18 1	Page navigation
City	Sorting on column

CROSSTAB: DRILL THROUGH DIALOG OPTIONS

Reference: **Concept Manual > Analytic Functions > Drill Through**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

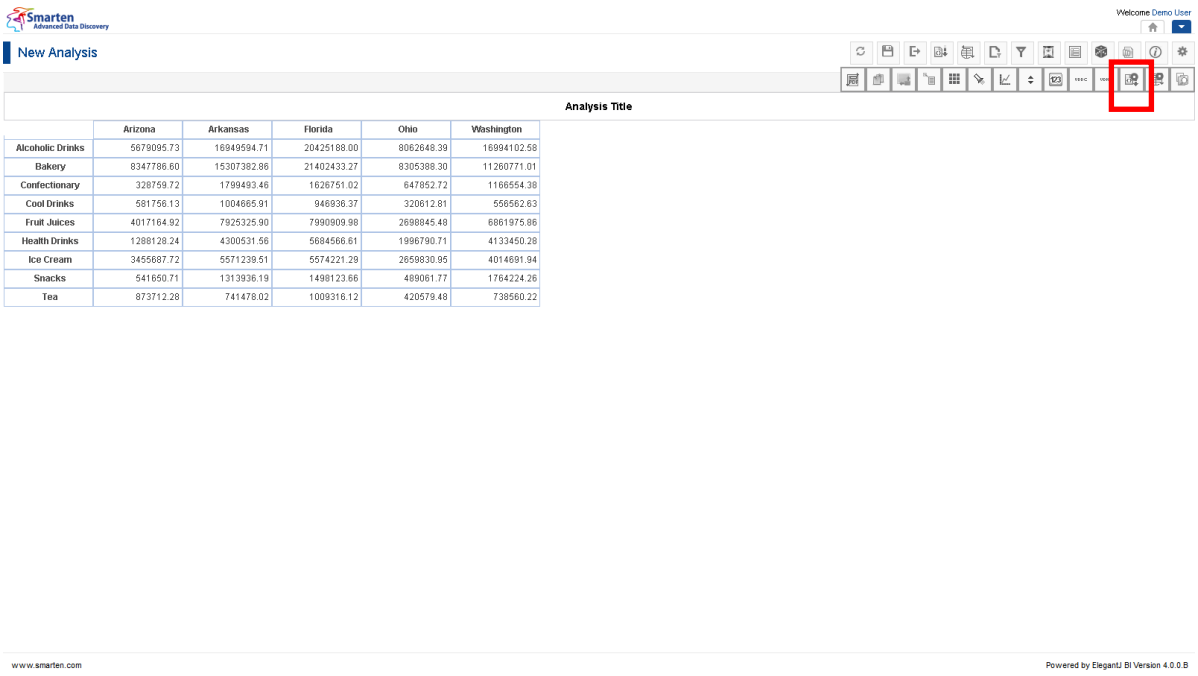
4.4.4 Retrieval parameters

By default, Smarten Crosstab objects are loaded with full data from the cube. To see crosstab objects with filtered views, retrieval parameters are required. These are run-time parameters for analysing the objects. You can select retrieval parameters for dimensions as well as for variables.

4.4.4.1 Creating & Managing Retrieval parameters

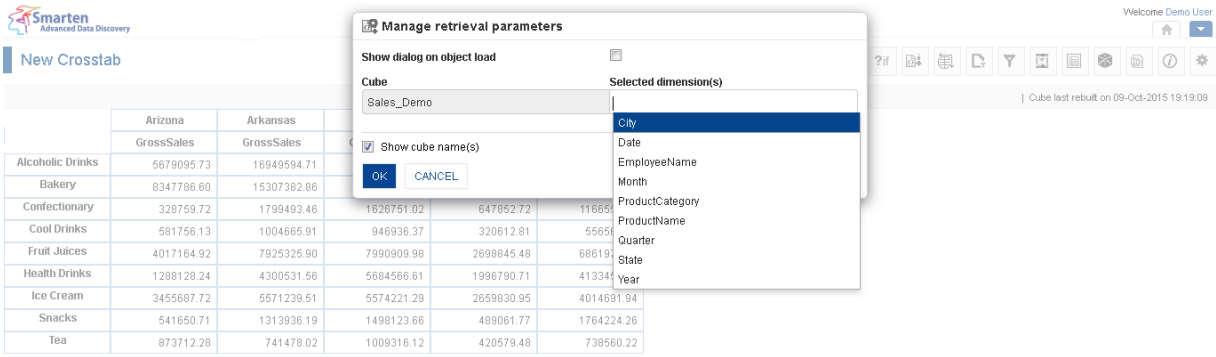
Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the upper right-hand corner, click **Setting**.
   The system displays the Setting Toolbar.
3. Click **Manage retrieval parameters**.
   The system displays the **Manage retrieval parameters** dialog box.



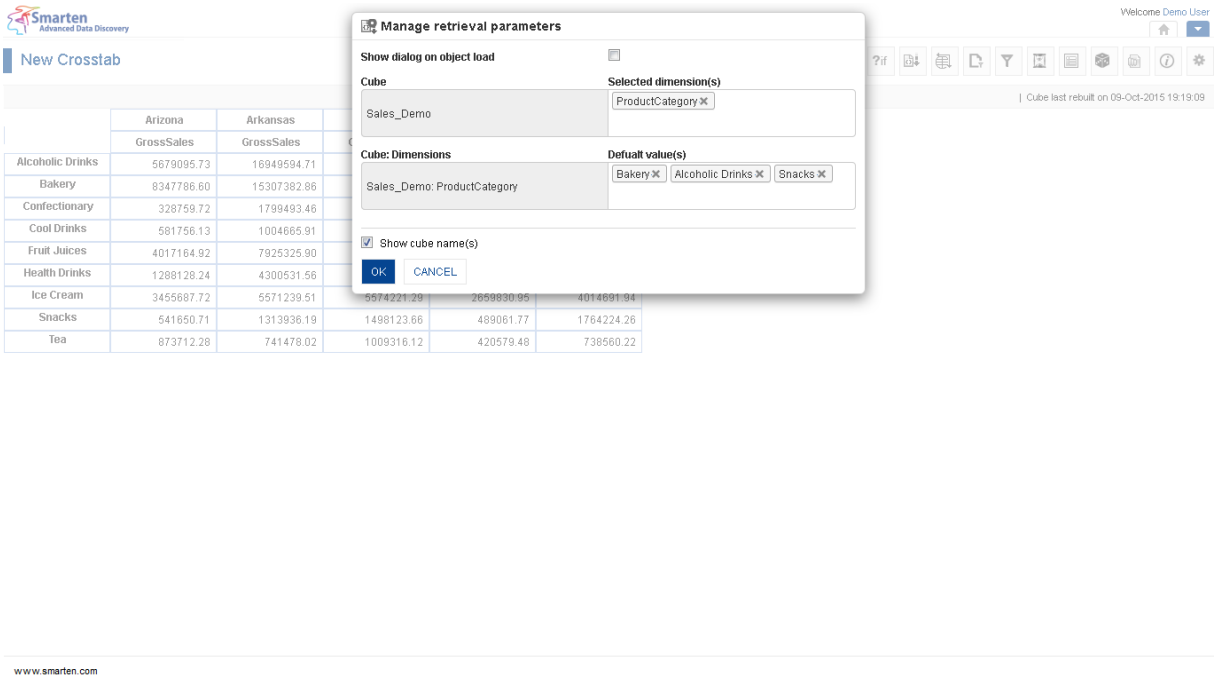
	Arizona	Arkansas	Florida	Ohio	Washington
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

CREATING RETRIEVAL PARAMETERS



MANAGE RETRIEVAL PARAMETERS

4. In the **Selected dimension(s)** field, select the dimensions from the drop-down list.
   You can remove retrieval parameters by deleting dimensions from the selected dimensions.
5. In the **Default value(s)** field, select the value from the drop-down list.
6. In the **Show object on dialog load** field, check the checkbox if you want to display retrieval parameters dialog on object load.
7. Click **OK** to save settings.



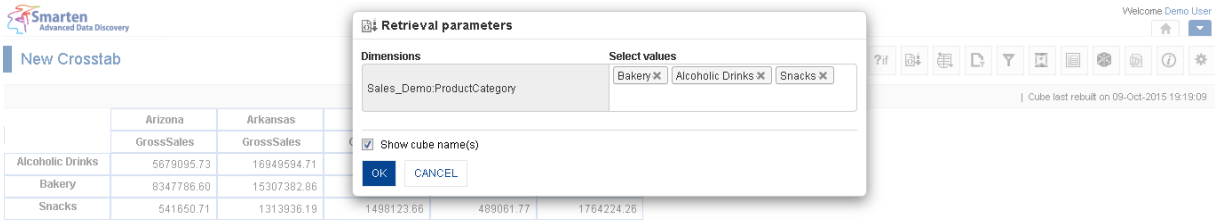
SETTING DEFAULT VALUE FOR RETRIEVAL PARAMETERS

4.4.4.2 Applying Retrieval parameters

After creating retrieval parameters, you can filter the crosstab by applying the retrieval parameter.

Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the Crosstab Toolbar, click **Retrieval parameters**.
   The system displays a list of retrieval parameters created through **Manage retrieval parameters.**
3. Select the value of retrieval parameters as needed.
4. Click **OK**.



APPLYING RETRIEVAL PARAMETERS

Reference:	**Concept Manual > Filters and Expressions > Retrieval Parameters**

4.4.5 Global variables

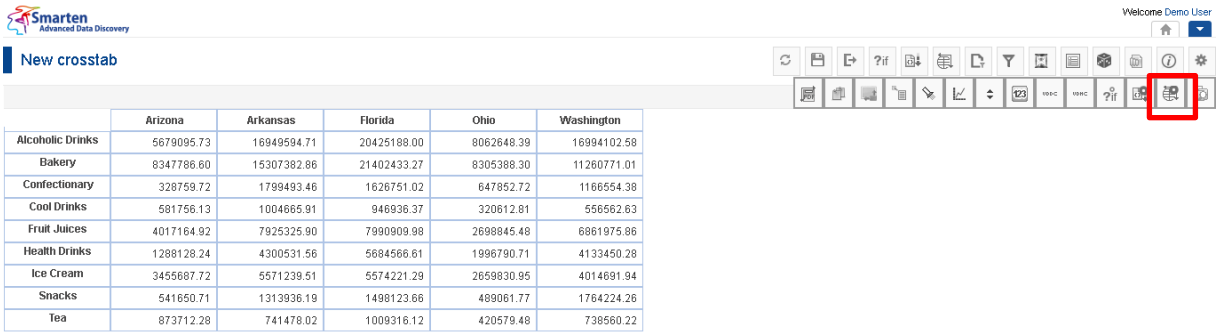
Variables that can be globally accessed with different expressions and filters for objects within Smarten are known as Global variables.

4.4.5.1 Creating Global variables

To add global variable with Single value option:

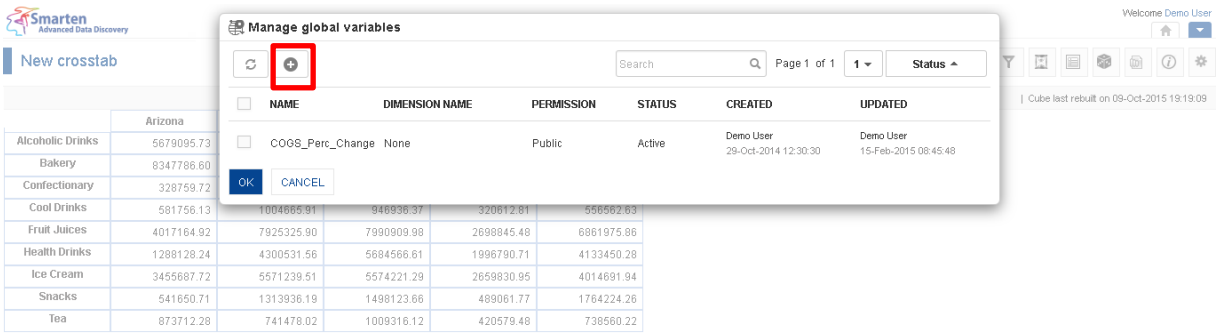
Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the Crosstab Toolbar, click **Manage global variables**.
   The system displays the **Manage global variables** dialog box.



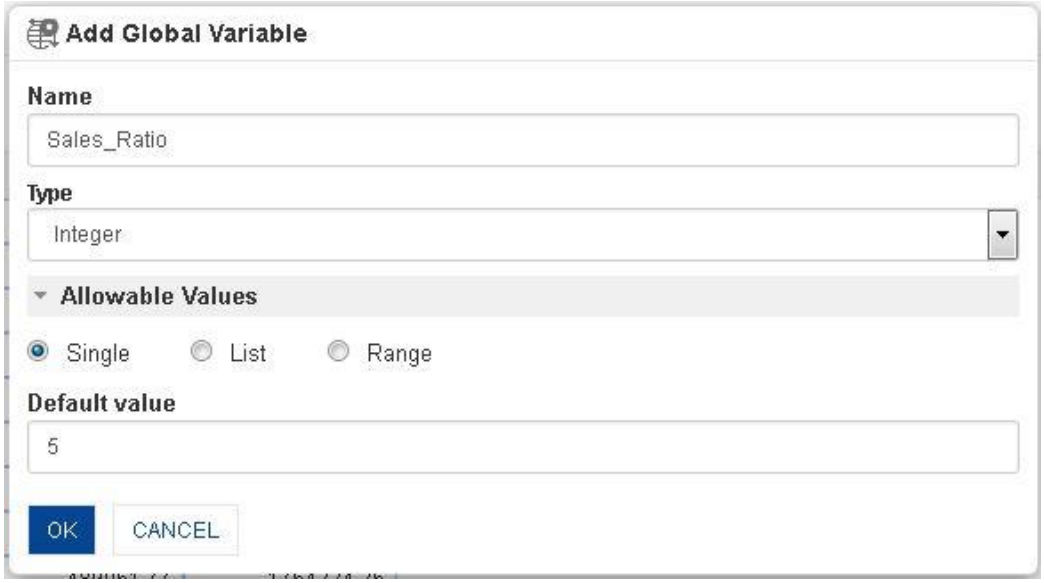
	Arizona	Arkansas	Florida	Ohio	Washington
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

GLOBAL VARIABLES



ADDING GLOBAL VARIABLES

3. In the **Manage global variables** dialog box, click the **Add** icon.
   The system displays the **Add Global Variable** dialog box.



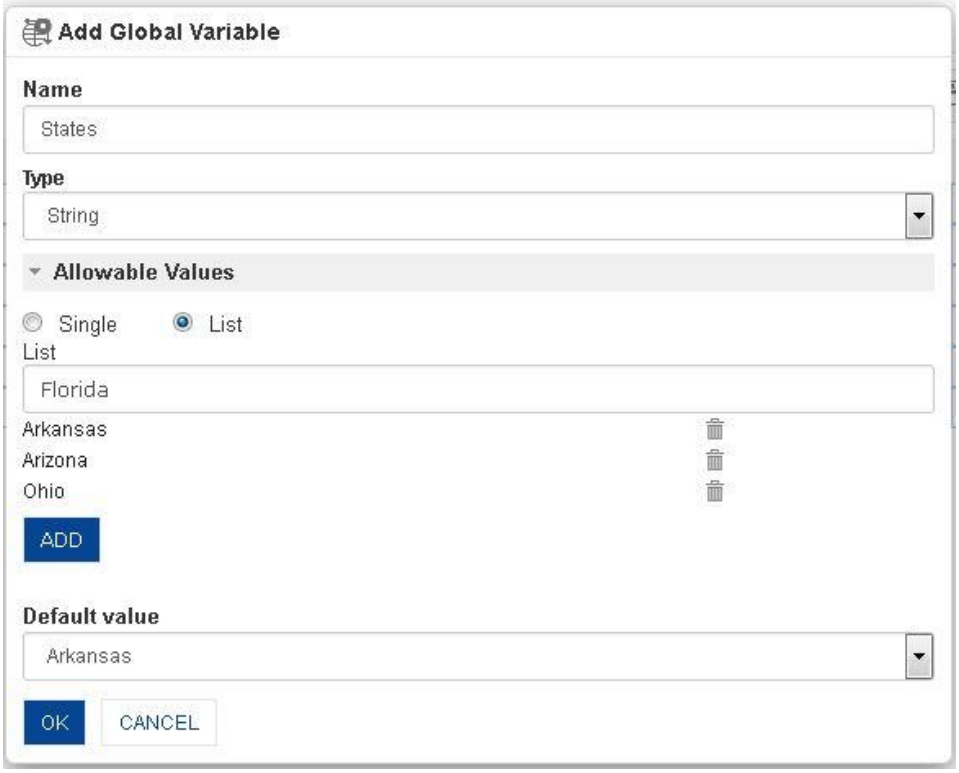
ADDING GLOBAL VARIABLE WITH SINGLE VLAUE OPTION

4. In the **Name** field, enter the name of global variable.
5. In the **Type** field, select a type from the drop-down list.
6. In the **Allowable Values** field, select **Single** radio button option
7. In the **Default value** field, enter a value.
8. Click **OK** to save the variable.

To add global variable with List value option:

Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the Crosstab Toolbar, click **Manage global variables**.
   The system displays the **Manage global variables** dialog box.
3. In the **Manage global variables** dialog box, click the **Add** icon.
   The system displays the **Add Global Variable** dialog box.



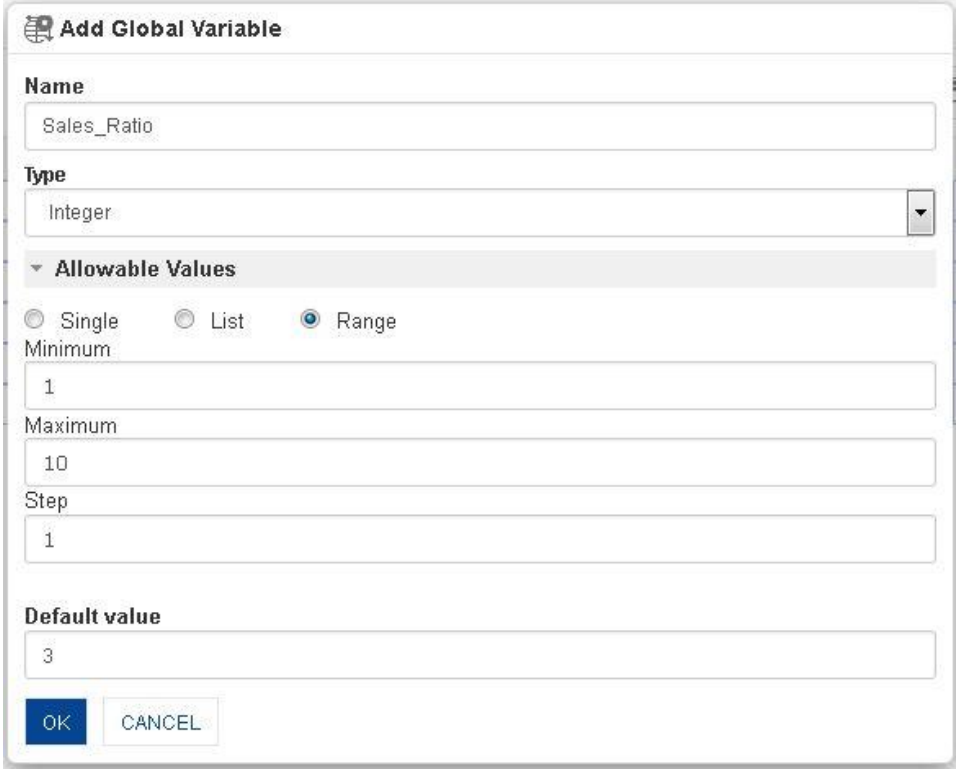
ADDING GLOBAL VARIABLE WITH LIST VALUE OPTION

4. In the **Name** field, enter the name of global variable.
5. In the **Type** field, select a type from the drop-down list.
6. In the **Allowable Values** field, select **List** radio button option
7. In the **List** field, enter a value
   Click **Add** to add list value
8. In the **Default value** field, select default value from drop-down list.
9. Click **OK** to save the variable.

To add global variable with Range value option:

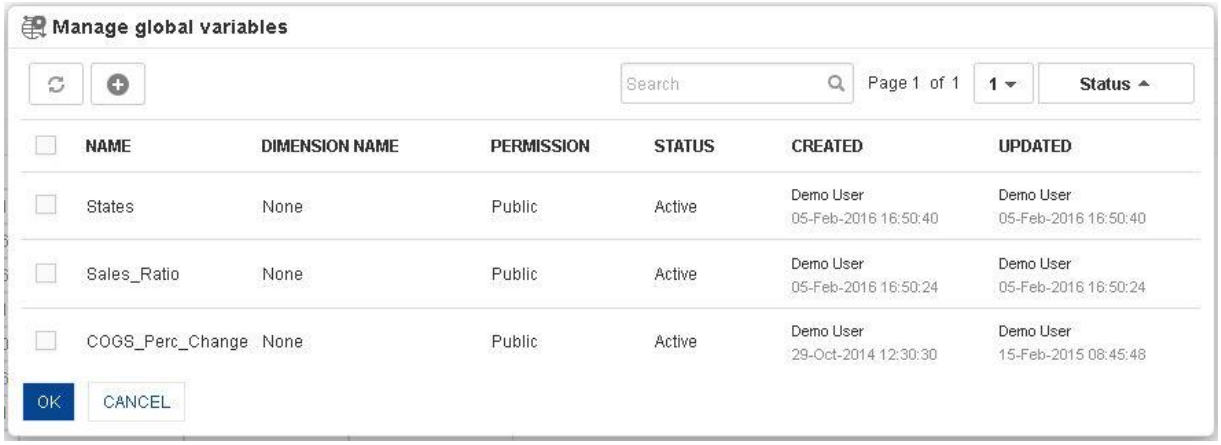
Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the Crosstab Toolbar, click **Manage global variables**.
   The system displays the **Manage global variables** dialog box.
3. In the **Manage global variables** dialog box, click the **Add** icon.
   The system displays the **Add Global Variable** dialog box.



ADDING GLOBAL VARIABLE WITH RANGE VALUE OPTION

4. In the **Name** field, enter the name of global variable.
5. In the **Type** field, select a type from the drop-down list.
6. In the **Allowable Values** field, select **Range** radio button option
7. In the **Minimum** field, enter a value.
8. In the **Maximum** field, enter a value.
9. In the **Step** field, enter a value.
10. In the **Default value** field, enter a value.
11. Click **OK** to save the variable.

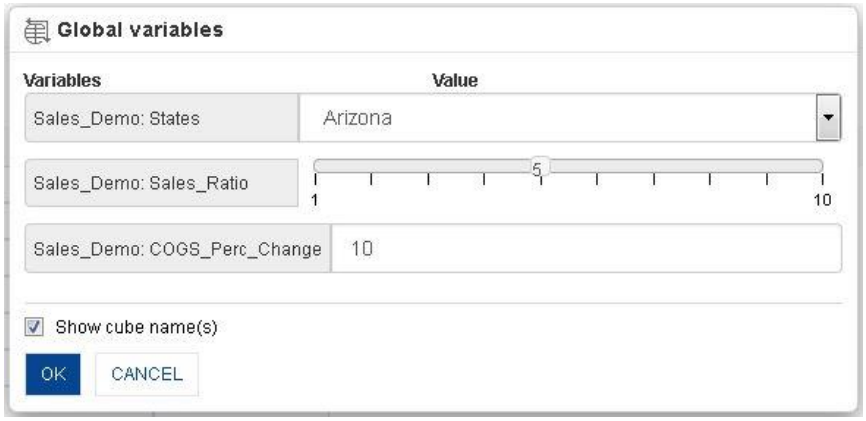


LIST OF GLOBAL VARIABLES

4.4.5.2 Applying Global variables

Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the Crosstab Toolbar, click **Global variables**.
   The system displays a list of global variables created through **Manage global variables.**
3. Select the value of global variables as needed.
4. Click **OK**.

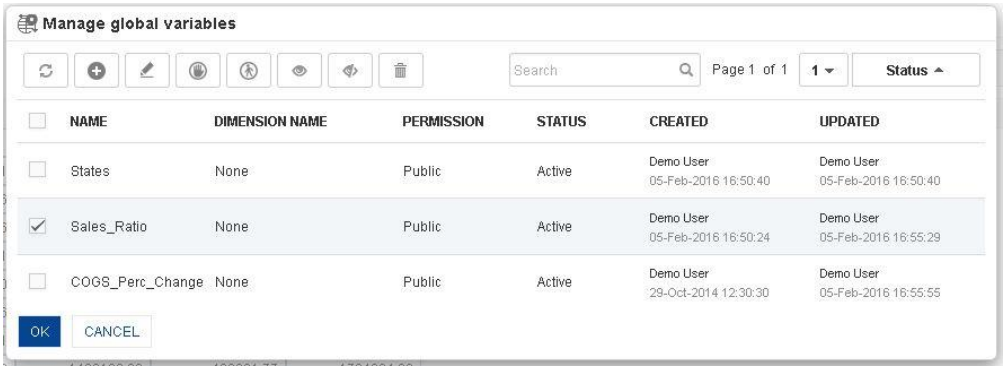


APPLYING GLOBAL VARIABLES

4.4.5.3 Create & Manage Templates

Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the upper right-hand corner, click **Setting**.
   The system displays the Setting Toolbar.
3. Click **Manage global variables**.
   The system displays the **Manage global variables** dialog box. Select a checkbox in front of a global variable name.
   The system displays a toolbar for managing the global variables template.



GLOBAL VARIABLES—CREATE AND MANAGE GLOBAL VARIABLES TEMPLATE

GLOBAL VARIABLES: CREATE AND MANAGE GLOBAL VARIABLES TEMPLATE TOOLBAR

Icon	Icon name
	Refresh
	Add
	Edit
	Private
	Public
	Active
	Inactive
	Delete

GLOBAL VARIABLES: CREATE AND MANAGE GLOBAL VARIABLES TEMPLATE TOOLBAR OPTIONS

> Note:
> Templates can be edited or deleted only by creator of the template or the administrator.

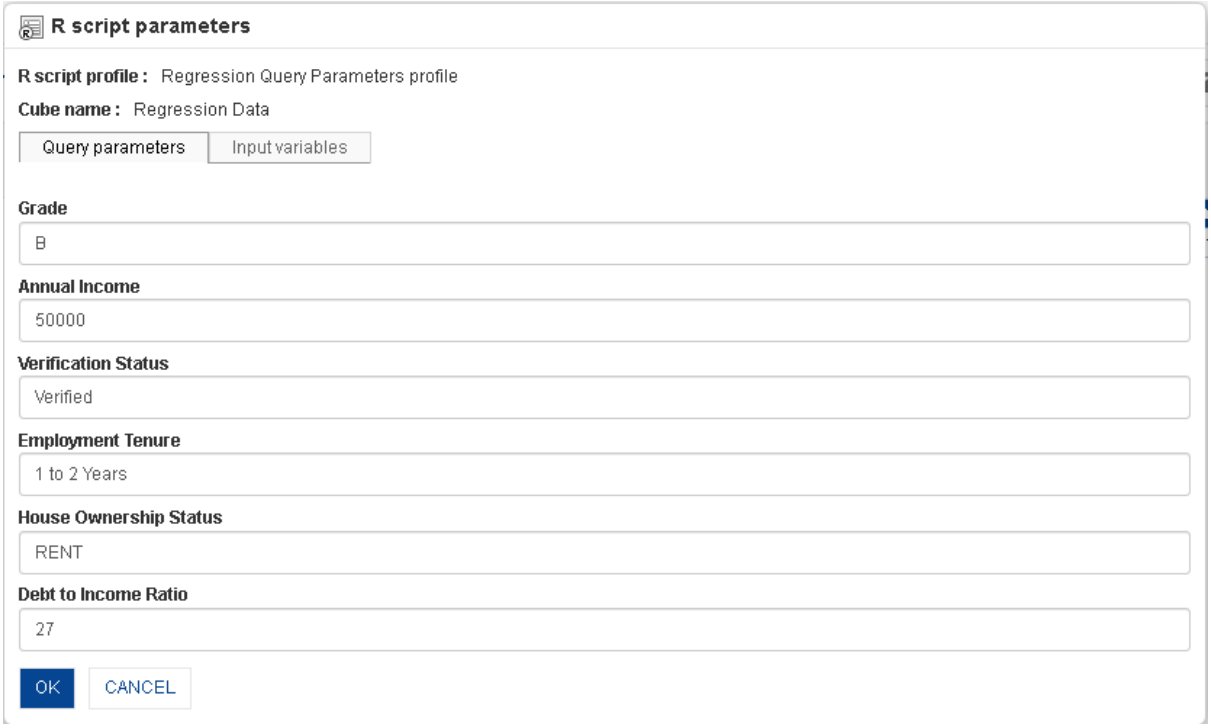
Reference: **Concept Manual > Filters and Expressions > Global Variables**

4.4.6 R script parameters

By default, Real-time crosstab objects are loaded with data fetched by the Real-time R cube with default Query parameters applied. You can regenerate the real-time object with different output by entering different values of Query parameters from the object itself. You can change the values of Query parameters in run-time through the “R script parameters” icon in the toolbar of the object. As a result, the R script will be re-executed with new values of Query parameters, and the real-time R cube will be rebuilt for the new output, which will, in turn, be instantly reflected in the real-time object.

Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the Crosstab Toolbar, click **R script parameters**.
   The system displays the **R script parameters** dialog box.



R SCRIPT PARAMETERS

3. Enter new query parameters values.
4. Click **OK**.

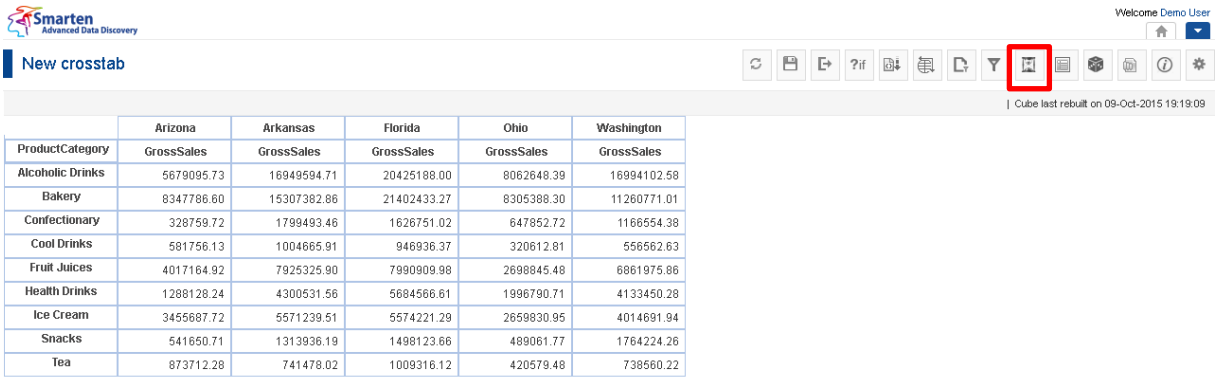
Reference: **Working with R Integration**

> Note:
> R script parameters icon will be displayed only when the crosstab is a Real-time object created from a Real-time R cube.

4.4.7 Time Series

Time series analysis is one of the most useful sources for data mining. For example, by allowing you to understand the relationship between the products and sales performance or analysis of trends in sales over different time periods, what has changed over previous years, half years, quarters, months, days, dates, and other critical measures; the role of time series analysis in Advanced Data Discovery is significant.

In Smarten, you have support for built-in customisable time series, making powerful analysis both more effective and easier to use. Using the time series filtering options in Smarten—absolute, relative, or range time series filtering—you can quickly analyse data across financial and calendar years and drill down up to half years, quarters, months, weeks, days, and dates.

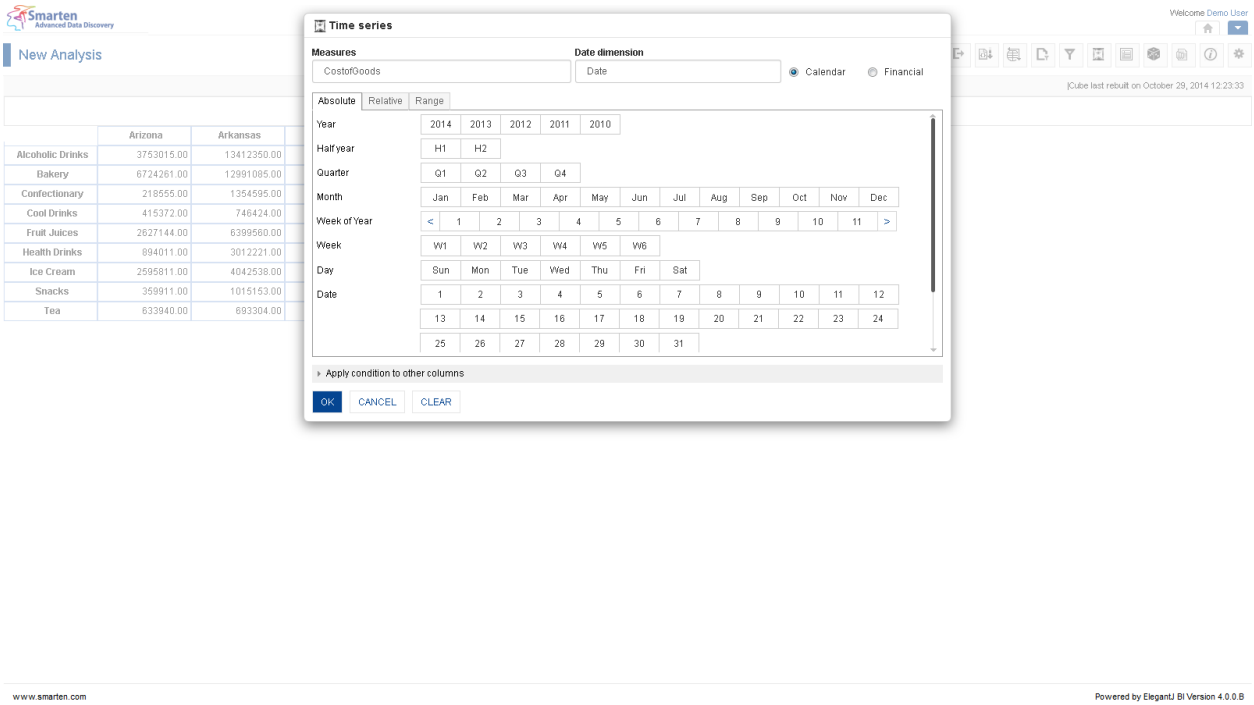


	Arizona	Arkansas	Florida	Ohio	Washington
ProductCategory	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

CROSSTAB: TIME SERIES ICON

Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the Crosstab Toolbar, click **Time series**.
   The system displays the **Time series** dialog box.



TIME SERIES FILTER

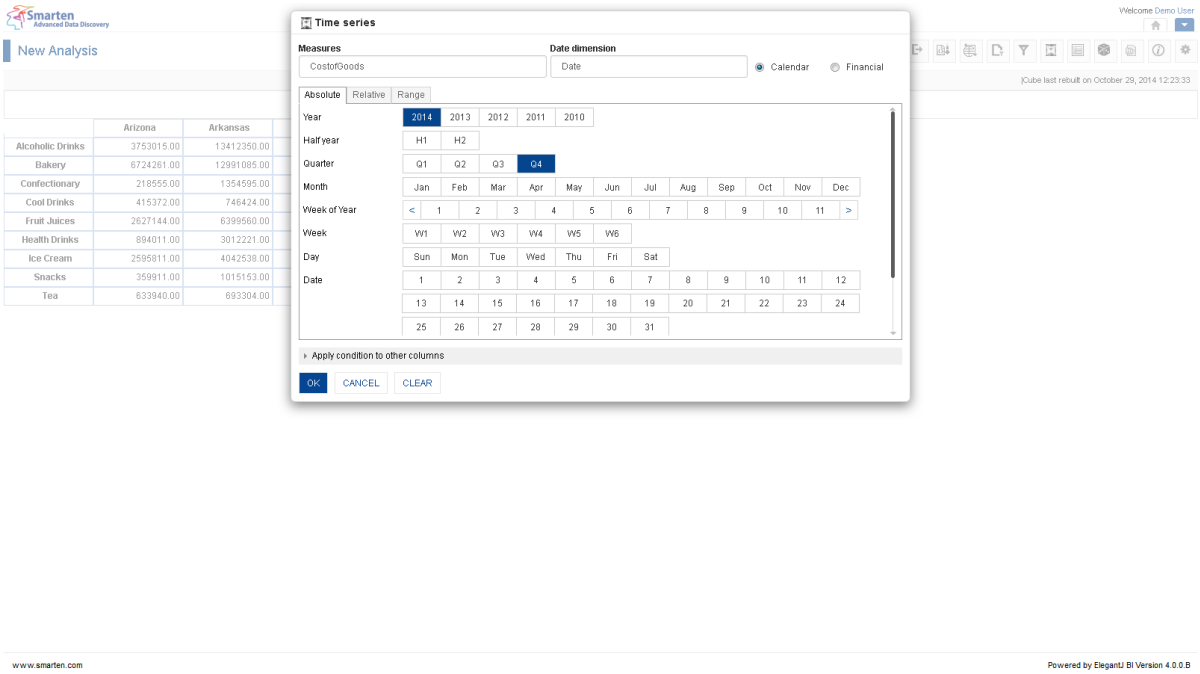
4.4.7.1 Absolute Time Series Filter

The Filter Type—Absolute option is used to filter value of a measure at a particular year, half year, quarter, month, week, day, or date. It has no dependency or relevance to the current date.

For example, to analyse Gross Sales for Q2 (second quarter) of year 2014, use the absolute time series filtering option.

Procedure

1. Follow the **Procedure** of **Time Series**.
2. Select a measure on which time series needs to be applied.
3. Select date dimension for time series calculation.
4. Select financial or calendar year (as year type) for time series calculation.
5. In the **Time series** dialog box, click **Absolute** tab.
6. In the Absolute tab, select values in the fields.
7. Click **Apply condition to other columns**.
   The system displays a list of other columns in the cross-tab.
8. Select column(s) to apply this time series filter condition to multiple column(s).
9. Click **Cancel** to go back to crosstab without saving any change.
10. Click **Clear** to deselect the entered values.
11. Click **OK**.

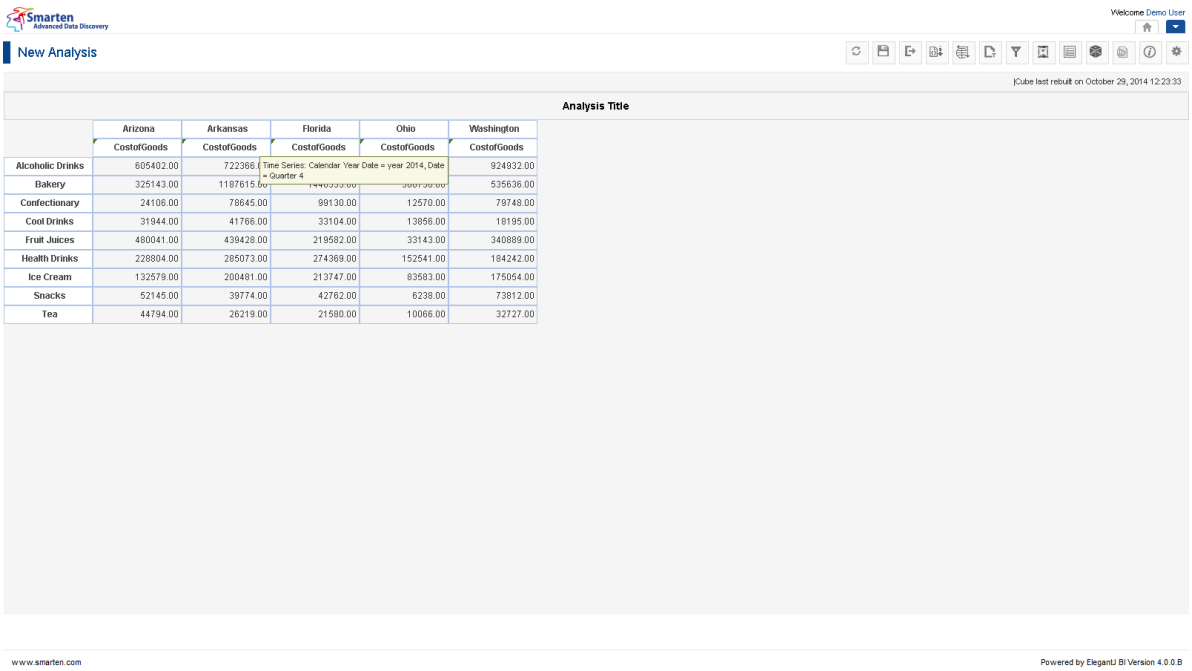


CROSSTAB: TIME SERIES: ABSOLUTE FILTER

Field	Description
Measures	All Measures selected in Crosstab
Date dimension	All Date Dimension of Cube
Year Type	Calendar / Financial
Filter Type	Absolute Filters measure at a particular period
	Year

	Half year
	Quarter
	Month
	Week or Year
	Week
	Day
	Date
	Day of Year

ABSOLUTE TIME SERIES SETTINGS



	Arizona	Arkansas	Florida	Ohio	Washington
	CostofGoods	CostofGoods	CostofGoods	CostofGoods	CostofGoods
Alcoholic Drinks	605402.00	722366.0			924932.00
Bakery	325143.00	1187615.00			535636.00
Confectionary	24106.00	78645.00	99130.00	12570.00	79748.00
Cool Drinks	31944.00	41766.00	33104.00	13856.00	18195.00
Fruit Juices	480041.00	439428.00	219582.00	33143.00	340889.00
Health Drinks	228804.00	285073.00	274369.00	152541.00	184242.00
Ice Cream	132579.00	200481.00	213747.00	83583.00	175054.00
Snacks	52145.00	39774.00	42762.00	6238.00	73812.00
Tea	44794.00	26219.00	21580.00	10066.00	32727.00

CROSSTAB AFTER APPLYING ABSOLUTE TIME SERIES FILTER

Example 1: Full Data for years 2013, 2014

	On 30 November 2014
Selected Fields	Result
Year: 2013, 2014	Data for 2013
	Data for 2014

Example 2: 1st Half Year for 2014

	On 30 November 2014
Selected Fields	Result
Year: 2014 Half Year: H1	Data for Jan 2014
	Data for Feb 2014
	Data for Mar 2014
	Data for Apr 2014
	Data for May 2014
	Data for Jun 2014

Example 3: 3rd week of month for year 2014

	On 30 November 2014
Selected Fields	Result
Year: 2014 Week: W3	Data for 3rd week of every month for 2014

Example 4: Thursday in month June for 2014

	On 30 November 2014
Selected Fields	Result
Year: 2014 Month: Jun Day: Thu	Data for 5 June 2014
	Data for 12 June 2014
	Data for 19 June 2014
	Data for 26 June 2014

Reference: **Administrator Manual > Application Configuration Settings > General Configuration > Time Series Periods**
Reference: **Concept Manual > Filters and Expressions > Time Series**
Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

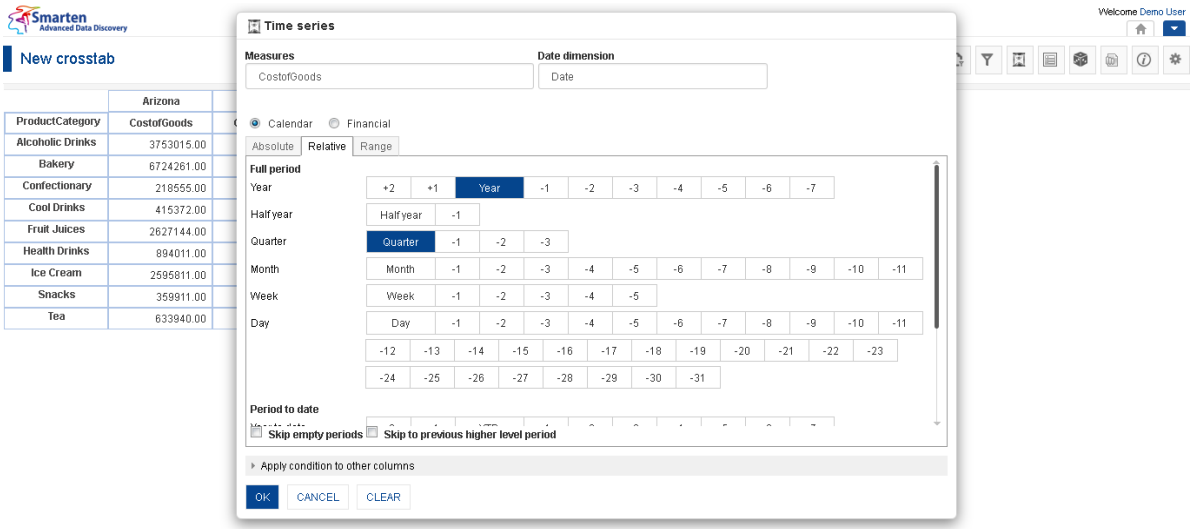
4.4.7.2 Relative Time Series Filter (Full Period)

Filters value of a measure at a particular period relative for the full period. Here the current date value affects definition of time series periods.

To analyse the gross sales for the quarter before previous quarter of current year and previous year, use relative filtering with below options selected.

Procedure

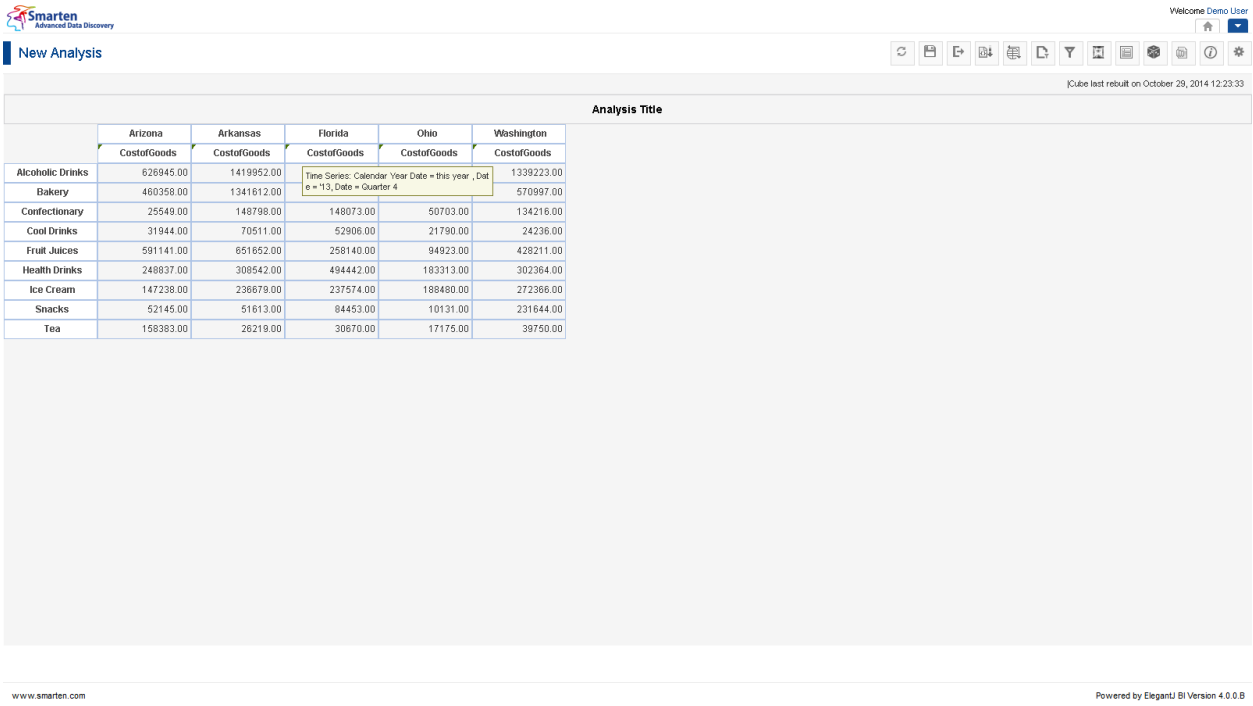
1. Follow the **Procedure** of **Time Series**.
2. Select a measure on which time series needs to be applied.
3. Select date dimension for time series calculation.
4. Select financial or calendar year (as year type) for time series calculation.
5. In the **Time series** dialog box, click **Relative** tab.
6. In the **Relative** tab, select values in the **Full Period** section.
7. Check the checkbox of **Skip empty periods** to skip empty periods.
8. Check the checkbox of **Skip to previous higher level period** to skip previous higher level period.
9. Click **Apply condition to other columns**.
   The system displays a list of other columns in the cross-tab.
10. Select column(s) to apply this time series filter condition to multiple column(s).
11. Click **Cancel** to go back to crosstab without saving any change.
12. Click **Clear** to deselect the entered values.
13. Click **OK**.



CROSSTAB: TIME SERIES: RELATIVE (FULL PERIOD) FILTERING

Field	Description
Measures	All Measures selected in Crosstab
Date dimension	All Date Dimension of Cube
Year Type	Calendar / Financial
Filter Type	Relative (Full Period) Filter the value of measure at a particular period relative to current date
	Year
	Half year
	Quarter
	Month
	Week or Year
	Week
	Day
	Date
	Day of Year

RELATIVE (FULL PERIOD) TIME SERIES SETTINGS



	Arizona	Arkansas	Florida	Ohio	Washington
	CostofGoods	CostofGoods	CostofGoods	CostofGoods	CostofGoods
Alcoholic Drinks	626945.00	1419952.00			1339223.00
Bakery	460358.00	1341612.00			570997.00
Confectionary	25549.00	148798.00	148073.00	50703.00	134216.00
Cool Drinks	31944.00	70511.00	52906.00	21790.00	24236.00
Fruit Juices	591141.00	651652.00	258140.00	94923.00	428211.00
Health Drinks	248837.00	308542.00	494442.00	183313.00	302364.00
Ice Cream	147238.00	236679.00	237574.00	188480.00	272366.00
Snacks	52145.00	51613.00	84453.00	10131.00	231644.00
Tea	158383.00	26219.00	30670.00	17175.00	39750.00

CROSSTAB AFTER APPLYING RELATIVE TIME SERIES FILTER USING FULL PERIOD

Examples (without skip empty periods):

Example 1: Full Data for current year and previous year

Selected Fields	Result on 31 July 2013	Result on 15 July 2012
Year: Year, Year -1	Data for 2013	Data for 2012
	Data for 2012	Data for 2011

Example 2: This week and previous week of current month for current year

Selected Fields	Result on 31 July 2013	Result on 15 July 2013
Year: Year, Month: Month Week: Week, Week -1	Data for 5th week of July 2013	Data for 3rd week of July 2013
	Data for 4th week of July 2013	Data for 2nd week of July 2013

Example 3: This week of current month of this year and previous year

Selected Fields	Result on 31 July 2013	Result on 15 July 2013
Year: Year, Year -1 Month: Month Week: Week	Data for 5th week of July 2012	Data for 3rd week of July 2012
	Data for 5th week of July 2013	Data for 3rd week of July 2013

Example 4: Today and yesterday of current month of this year

Selected Fields	Result on 31 July 2013	Result on 15 July 2013
Day: Day, Day -1	Data for 31 July 2013 Data for 30 July 2013	Data for 15 July 2013 Data for 14 July 2013

Example 5: current half year for current year

Selected Fields	Result on 31 July 2014	Result on 15 April 2014

Year: Year Half Year: Half Year	Data for July 2014	Data for Jan 2014 Data for Feb 2014 Data for Mar 2014 Data for April 2014

Example 6: current half year for current year and previous year

Selected Fields	Result on 31 July 2014	Result on 15 April 2014
Year: Year, Year -1 Half Year: Half Year	Data for July 2013 Data for July 2014	Data for Jan 2013 Data for Feb 2013 Data for Mar 2013 Data for April 2013 Data for Jan 2014 Data for Feb 2014 Data for Mar 2014 Data for April 2014

Example 7: previous half year for current year

Selected Fields	Result on 31 July 2014	Result on 15 June 2014
Year: Year Half Year: Half Year -1	Data from Jan 2014 to Jun 2014	Data from July 2013 to Dec 2013

Example 8: current month and previous month for current year

Selected Fields	Result on 31 July 2014	Result on 15 July 2013
Year: Year, Month: Month, Month -1	Data for June 2014 Data for July 2014	Data for June 2013 Data for July 2013

Example 9: current month for current year and previous year

Selected Fields	Result on 31 July 2014	Result on 15 July 2013
Year: Year, Year -1 Month: Month	Data for July 2013 Data for July 2014	Data for July 2012 Data for July 2013

Example 10: current quarter and previous quarter for current year

Selected Fields	Result on 31 July 2014	Result on 15 July 2013
Year: Year Quarter: Quarter, Quarter -1	Data for April 2014 Data for May 2014 Data for June 2014 Data for July 2014	Data for April 2013 Data for May 2013 Data for June 2013 Data for July 2013

Example 11: current quarter for current year and previous year

Selected Fields	Result on 31 July 2014	Result on 15 July 2013
Year: Year, Year -1 Month: Quarter	Data for July 2013 Data for July 2014	Data for July 2012 Data for July 2013

Example 12: 20th week for current year and previous year

Selected Fields	Result on 31 July 2014	Result on 15 July 2013
Year: Year, Year -1 Week (Year): 20	Data for 3rd Week of May 2014 Data for 3rd Week of May 2013	Data for 3rd Week of May 2012 Data for 3rd Week of May 2013

Examples (with skip empty periods):

Example 1: Full Data for current year and previous year (When data for previous year is not present)

Selected Fields	Result on 31 July 2013	Result on 15 July 2012
Year: Year, Year -1	Data for 2013	Data for 2012
	Data for 2011	Data for 2010

Example 2: This month and previous month for current year (When data for previous month is not present)

Selected Fields	Result on 31 July 2013	Result on 15 July 2013
Year: Year Month: Month, Month -1	Data for July 2013	Data for July 2013
	Data for May 2013	Data for May 2013

Example 3: This week and previous week of current month for current year (When data for previous week is not present)

Selected Fields	Result on 31 July 2013	Result on 15 July 2013
Year: Year Month: Month Week: Week, Week -1	Data for 5th week of July 2013	Data for 3rd week of July 2013
	Data for 3th week of July 2013	Data for 1nd week of July 2013

Example 4: Today and yesterday (When data for yesterday is not available)

Selected Fields	Result on 31 July 2013	Result on 15 July 2013
Day: Day, Day -1	Data for 31 July 2013 Data for 29 July 2013	Data for 15 July 2013 Data for 13 July 2013

Examples (without Skip to previous higher level period):

Example 1: Data for current Quarter and previous Quarter (when current Quarter is Quarter 1)

Selected Fields	Result on 15 Mar 2015
Year: Year Quarter: Quarter,Quarter-1	Data for Quarter 1 of 2015

Example 2: Data for current Month and previous Month (when current Month is January)

Selected Fields	Result on 31 Jan 2015
Year: Year Month: Month, Month-1	Data for Jan 2015

Example 3: Data for Week and previous Week of current Month for current Year (when Current week is 1st Week)

Selected Fields	Result on 6 Mar 2015

Year: Year Month: Month Week: Week, Week -1	Data for 1st week of Mar 2015

Examples (with Skip to previous higher level period):

Example 1: Data for current Quarter and previous Quarter (when current Quarter is Quarter 1)

Selected Fields	Result on 15 Mar 2015
Year: Year Quarter: Quarter,Quarter-1	Data for Quarter 1 of 2015 Data for Quarter 4 of 2014

Example 2: Data for current Month and previous Month (when current Month is January)

Selected Fields	Result on 31 Jan 2015
Year: Year Month: Month, Month-1	Data for Jan 2015 Data for Dec 2014

Example 3: Data for Week and previous Week of current Month for current Year (when Current week is 1st Week)

Selected Fields	Result on 6 Mar 2015
Year: Year Month: Month Week: Week, Week -1	Data for 1st week of Mar 2015 Data for 4th week of Feb 2015

Reference: **Administrator Manual > Application Configuration Settings > General Configuration > Time Series Periods**

Reference: **Concept Manual > Filters and Expressions > Time Series**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

4.4.7.3 Relative Time Series Filter (Period to Date)

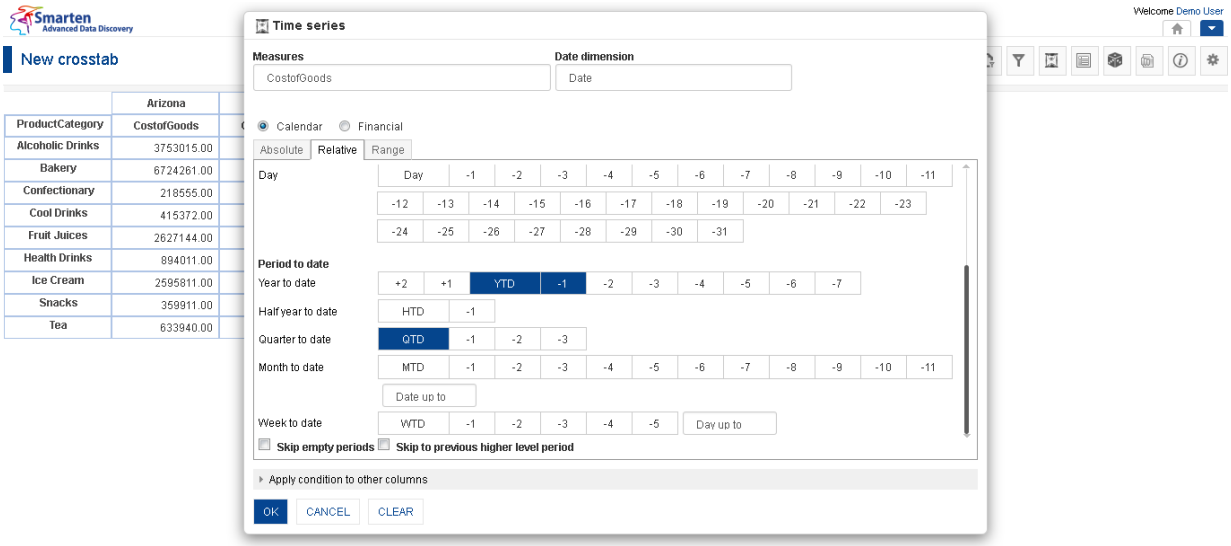
Filters value of a measure at a particular period relative to current date, up to the current date. Here the current value affects definition of time series periods.

To analyse the gross sales for quarter for current year and previous year up to current date, use relative filtering with below options selected.

Procedure

1. Follow the **Procedure** of **Time Series**.
2. Select a measure on which time series needs to be applied.
3. Select date dimension for time series calculation.
4. Select financial or calendar year (as year type) for time series calculation.
5. In the **Time series** dialog box, click **Relative** tab.

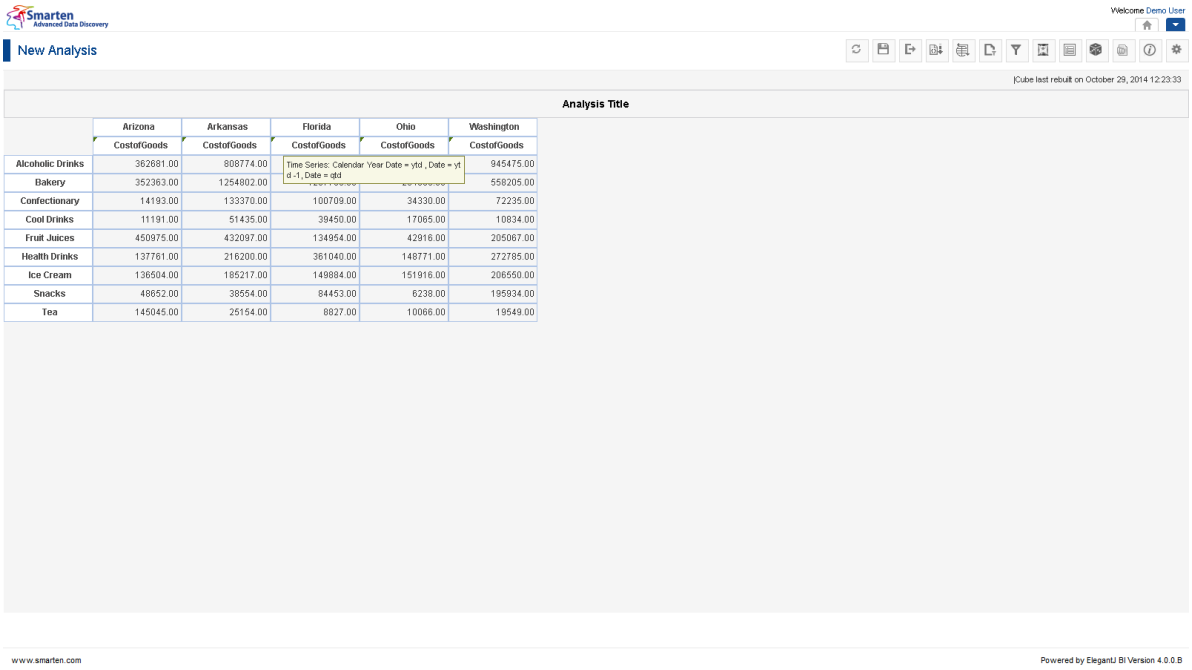
6. In the **Relative** tab, select values in the **Period to date** section.
7. Check the checkbox of **Skip empty periods** to skip empty periods.
8. Check the checkbox of **Skip to previous higher level period** to skip previous higher level period.
9. Click **Apply condition to other columns**.
   The system displays a list of other columns in the cross-tab.
10. Select column(s) to apply this time series filter condition to multiple column(s).
11. Click **Cancel** to go back to crosstab without saving any change.
12. Click **Clear** to deselect the entered values.
13. Click **OK**.



CROSSTAB: TIME SERIES: RELATIVE (PERIOD TO DATE) FILTERING

Field	Description
Measures	All Measures selected in Crosstab
Date dimension	All Date Dimension of Cube
Year Type	Calendar / Financial
Filter Type	Relative (Period To Date) Filter the value of measure at a particular period relative to current date
	Year to date
	Half year to date
	Quarter to date
	Month to date
	Week to date

RELATIVE (PERIOD TO DATE) TIME SERIES SETTINGS



	Arizona	Arkansas	Florida	Ohio	Washington
	CostofGoods	CostofGoods	CostofGoods	CostofGoods	CostofGoods
Alcoholic Drinks	362681.00	808774.00			945475.00
Bakery	352363.00	1254802.00			558205.00
Confectionary	14193.00	133370.00	100709.00	34330.00	72235.00
Cool Drinks	11191.00	51435.00	39450.00	17065.00	10834.00
Fruit Juices	450975.00	432097.00	134954.00	42916.00	205067.00
Health Drinks	137761.00	216200.00	361040.00	148771.00	272785.00
Ice Cream	136504.00	185217.00	149884.00	151916.00	206550.00
Snacks	48652.00	38554.00	84453.00	6238.00	195934.00
Tea	145045.00	25154.00	8827.00	10066.00	19549.00

CROSSTAB AFTER APPPLYING RELATIVE TIME SERIES FILTER USING PERIOD TO DATE

Examples (without skip empty periods):

Example 1: Year to date data for current year and previous year

Selected Fields	Result on 31 July 2014	Result on 15 July 2014
YTD: YTD, YTD -1	Data for 1 Jan to 31 July 2013 Data for 1 Jan to 31 July 2014	Data for 1 Jan to 15 July 2013 Data for 1 Jan to 15 July 2014

Example 2: Half year to date data for current half year and current year

Selected Fields	Result on 31 July 2014	Result on 15 April 2014
YTD: YTD HTD: HTD	Data for 1 July 2014 to 31 July 2014	Data for 1 Jan 2014 to 15 April 2014

Example 3: Quarter to date data for previous quarter and current year

Selected Fields	Result on 31 July 2014	Result on 15 July 2014
YTD: YTD QTD: QTD -1	Data for 1 Apr 2014 to 30 Apr 2014	Data for 1 Apr 2014 to 15 Apr 2014
YTD: YTD QTD: QTD -1 MTD date up to 20th	Data for 1 Apr 2014 to 20 Apr 2014	Data for 1 Apr 2014 to 20 Apr 2014

Example 4: Month to date data for current quarter and current year

Selected Fields	Result on 31 July 2014	Result on 15 July 2014
YTD: YTD QTD: QTD Month: MTD MTD date up to Current Date	Data for 1 July to 31 July 2014	Data for 1 July to 15 July 2014
MTD date up to 20th	Data for 1 July to 20 July 2014	Data for 1 July to 20 July 2014

Example 5: Month to date data for current year and previous year

Selected Fields	Result on 31 July 2014	Result on 15 July 2014

YTD: YTD, YTD -1 QTD: QTD MTD: MTD MTD date up to Current Date	Data for 1 July to 31 July 2013 Data for 1 July to 31 July2014	Data for 1 July to 15 July 2013 Data for 1 July to 15 July 2014
MTD date up to 20 July	Data for 1 July to 20 July 2013 Data for 1 July to 20 July 2014	Data for 1 July to 20 July 2013 Data for 1 July to 15 July 2014

Example 6: Month to date data for current month and previous month for current year

Selected Fields	Result on 31 July 2014	Result on 15 July 2013
YTD: YTD MTD: MTD, MTD -1 MTD date up to Current Date	Data for 1 June to 30 June 2014 Data for 1 July to 31 July 2014	Data for 1 June to 15 June 2013 Data for 1 July to 15 July 2013
MTD date up to 20 July	Data for 1 June to 20 June 2014 Data for 1 July to 20 July 2014	Data for 1 June to 20 June 2013 Data for 1 July to 15 July 2014

Example 7: Quarter to date data for previous quarter and current quarter of current year

Selected Fields	Result on 31 March 2014	Result on 31 March 2013
YTD: YTD QTD: QTD, QTD -1	Data for 1st Qtr 2014 Data for 4th Qtr 2013	Data for 1st Qtr 2013 Data for 4th Qtr 2012

Examples (with skip empty periods):

Example 1: Year to date data for current year and previous year (When data for previous year is not present)

Selected Fields	Result on 31 July 2014	Result on 15 July 2014
YTD: YTD, YTD -1	Data for 1 Jan to 31 July 2014 Data for 1 Jan to 31 July 2013	Data for 1 Jan to 15 July 2014 Data for 1 Jan to 15 July 2013

Example 2: Quarter to date data for current quarter and previous quarter for current year (When data for previous quarter is not present)

Selected Fields	Result on 31 July 2014	Result on 15 April 2014
YTD: YTD QTD: QTD, QTD -1	Data for 1 July 2014 to 31 July 2014 Data for 1 January 2014 to 31 January 2014	Data for 1 April 2014 to 15 April 2014 Data for 1 October 2013 to 15 October 2013

Example 3: Month to date data for current month and previous month of current year (When data for previous month is not present)

Selected Fields	Result on 31 July 2014	Result on 15 July 2014
YTD: YTD Month: MTD, MTD-1	Data for 1 July to 31 July 2014 Data for 1 May to 31 May 2014	Data for 1 July to 15 July 2014 Data for 1 May to 15 May 2014

Examples (without Skip to previous higher level period):

Example 1: Quarter to date Data for current Quarter and previous Quarter (when current Quarter is Quarter 1)

Selected Fields	Result on 15 Mar 2015
Year: YTD Quarter: QTD,QTD-1	Data for 1 January 2015 to 15 March 2015

Example 2: Month to date Data for current Month and previous Month (when current Month is January)

Selected Fields	Result on 15 Jan 2015
Year: YTD Quarter: MTD, MTD-1	Data for 1 January 2015 to 15 January 2015

Example 3: Week to date Data for Week and previous Week of current Month for current Year (when Current week is 1st Week)

Selected Fields	Result on 6 Mar 2015
Year: YTD Month: MTD Week: WTD, WTD -1	Data for 1st March to 6th March 2015

Examples (with Skip to previous higher level period):

Example 1: Quarter to date Data for current Quarter and previous Quarter (when current Quarter is Quarter 1)

Selected Fields	Result on 15 Mar 2015
Year: YTD Quarter: QTD,QTD-1	Data for 1 January 2015 to 15 March 2015 Data for 1 October 2014 to 15 December 2014

Example 2: Month to date Data for current Month and previous Month (when current Month is January)

Selected Fields	Result on 15 Jan 2015
Year: YTD Month: MTD, MTD-1	Data for 1 January 2015 to 15 January 2015 Data for 1 December 2014 to 15 December 2014

Example 3: Week to date Data for Week and previous Week of current Month for current Year (when Current week is 1st Week)

Selected Fields	Result on 6 Mar 2015
Year: YTD Month: MTD Week: WTD, WTD -1	Data for 1st March 2015 to 6th March 2015 Data for 22nd February 2015 to 27th February 2015

Reference: **Administrator Manual > Application Configuration Settings > General Configuration > Time Series Periods**

Reference: **Concept Manual > Filters and Expressions > Time Series**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

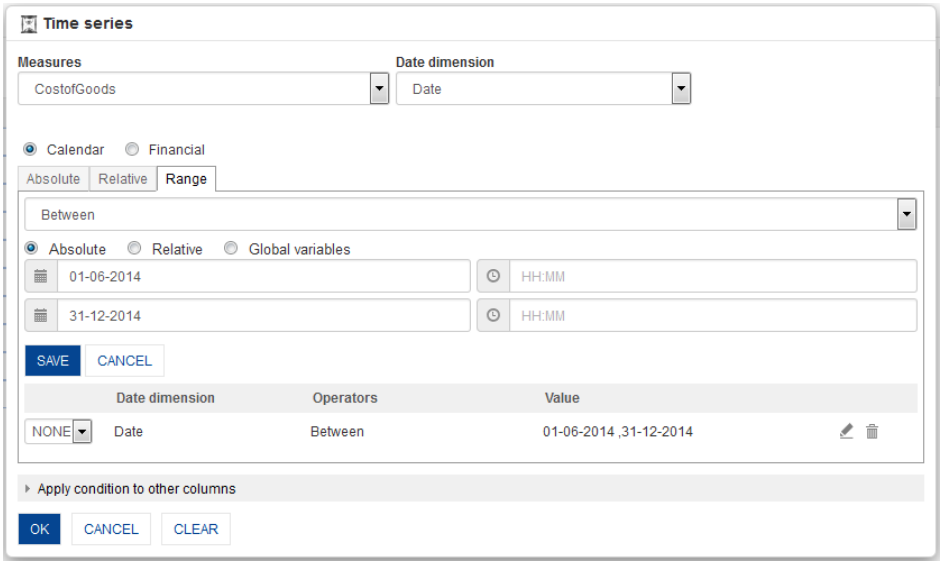
4.4.7.4 Range Time Series Filter

This option is used to filter time based on range and custom periods. To analyse the gross sales for specific time period, use range filtering with below options.

To apply Range with Absolute option

Procedure

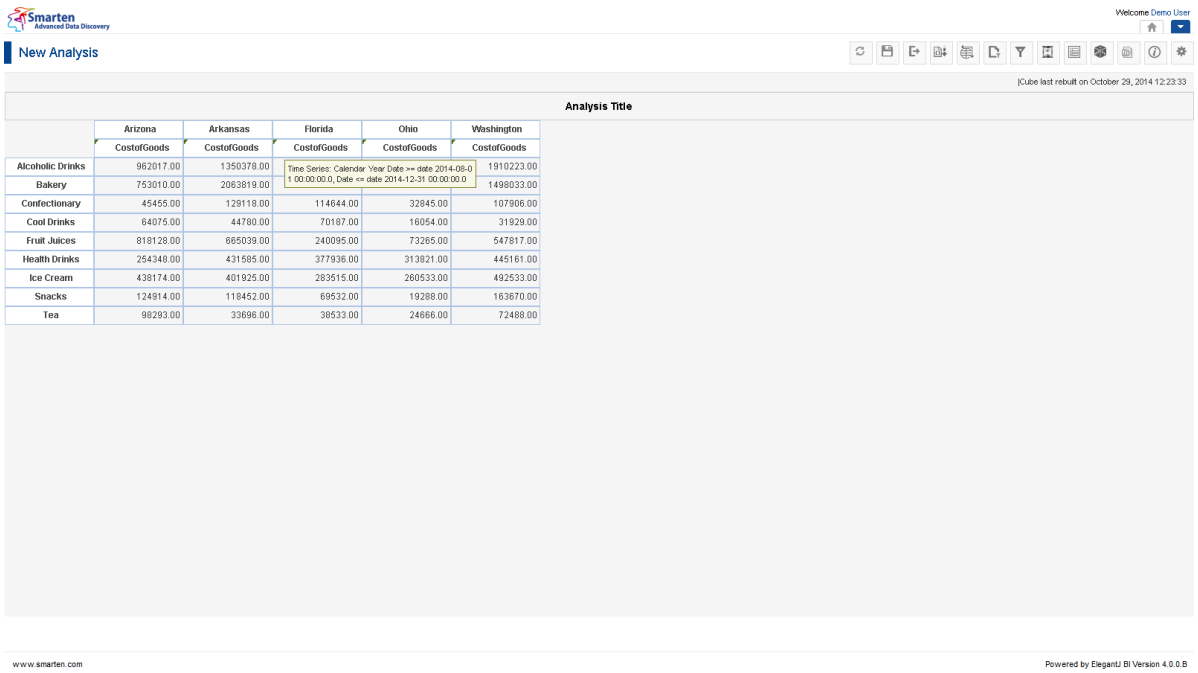
1. Follow the **Procedure** of **Time Series**.
2. Select a measure on which time series needs to be applied.
3. Select date dimension for time series calculation.
4. Select financial or calendar year (as year type) for time series calculation.
5. In the **Time series** dialog box, click **Range** tab.
6. In the Value drop-down list, select a value.
   The systems display calendar and time control based on the option selected.
7. Select **Absolute** radio option.
8. In the **Date** field, select a date.
9. In the **Time** field, select a time.
10. Click **ADD**. You can also include multiple conditions by clicking **Add**.
    The system displays the column name, selected operator, and value.
11. From the drop-down list, select a logical operator (either AND or OR) to join two conditions.
    Select NONE if you do not want to add any other condition.
    You can edit the added condition by clicking **Edit** icon.
    You can also delete the added condition by clicking **Delete** icon.
12. Click **Apply condition to other columns**.
    The system displays a list of other columns in the cross-tab.
13. Select column(s) to apply this time series filter condition to multiple column(s).
14. Click **Cancel** to go back to crosstab without saving any change.
15. Click **Clear** to deselect the entered values.
16. Click **OK**.



CROSSTAB: TIME SERIES: RANGE FILTER WITH ABSOLUTE OPTION

Field	Description
Measures	All Measure selected in Crosstab
Date dimension	All Date Dimension of Cube
Year Type	Calendar / Financial
Filter Type	Range Filter the value of measure based on range and custom periods
	Value
	Before
	After
	Between
	Not Between

RANGE TIME SERIES SETTINGS



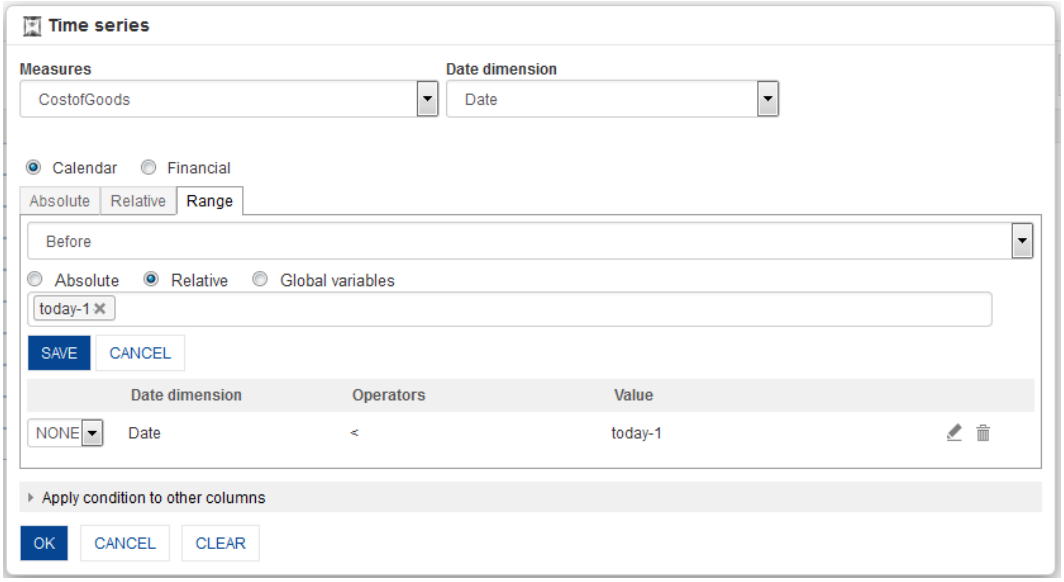
	Arizona	Arkansas	Florida	Ohio	Washington
	CostofGoods	CostofGoods	CostofGoods	CostofGoods	CostofGoods
Alcoholic Drinks	962017.00	1350378.00			1910223.00
Bakery	753010.00	2063819.00			1498033.00
Confectionary	45455.00	129118.00	114644.00	32845.00	107906.00
Cool Drinks	64075.00	44780.00	70187.00	16054.00	31929.00
Fruit Juices	818128.00	665039.00	240095.00	73265.00	547817.00
Health Drinks	254348.00	431585.00	377936.00	313821.00	445161.00
Ice Cream	438174.00	401925.00	283515.00	260533.00	492533.00
Snacks	124914.00	118452.00	69532.00	19288.00	163670.00
Tea	98293.00	33696.00	38533.00	24666.00	72488.00

CROSSTAB AFTER APPLYING RANGE TIME SERIES FILTER

To apply Range with Relative option

Procedure

1. Follow the **Procedure** of **Time Series**.
2. Select a measure on which time series needs to be applied.
3. Select date dimension for time series calculation.
4. Select financial or calendar year (as year type) for time series calculation.
5. In the **Time series** dialog box, click **Range** tab.



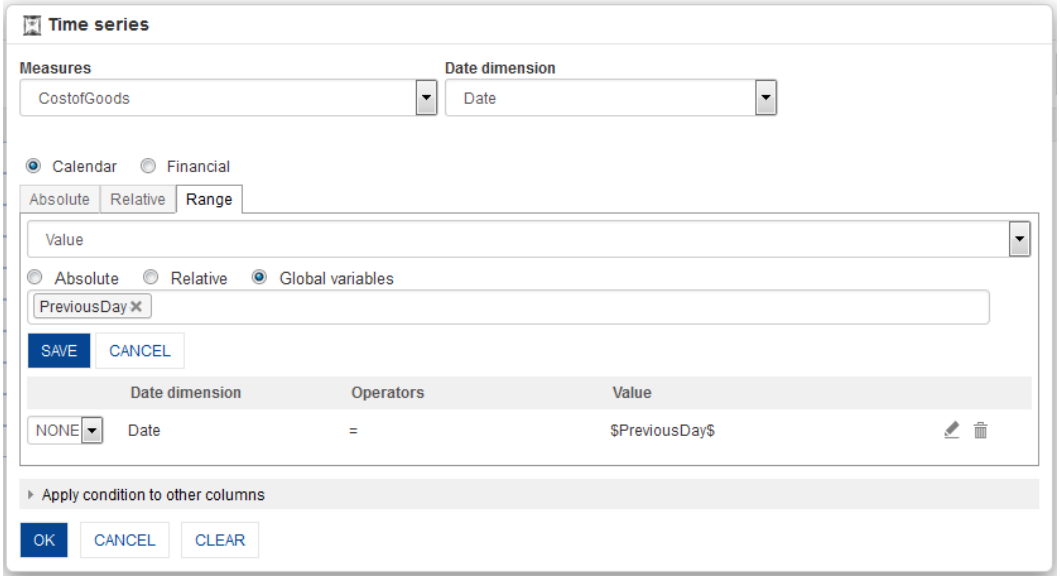
CROSSTAB: TIME SERIES: RANGE FILTER WITH RELATIVE OPTION

6. In the Value drop-down list, select a value.
   The systems display calendar and time control based on the option selected.
7. Select **Relative** radio option.
8. From the List of value, select a pre-set value
9. Click **ADD**. You can also include multiple conditions by clicking **Add**.
   The system displays the column name, selected operator, and value.
10. From the drop-down list, select a logical operator (either AND or OR) to join two conditions.
    Select NONE if you do not want to add any other condition.
    You can edit the condition by clicking **Edit** icon.
    You can also delete the added condition by clicking **Delete** icon.
11. Click **Apply condition to other columns**.
    The system displays a list of other columns in the cross-tab.
12. Select column(s) to apply this time series filter condition to multiple column(s).
13. Click **Cancel** to go back to crosstab without saving any change.
14. Click **Clear** to deselect the entered values.
15. Click **OK**.

To apply Range with Global variable option

Procedure

1. Follow the **Procedure** of **Time Series**.
2. Select a measure on which time series needs to be applied.
3. Select date dimension for time series calculation.
4. Select financial or calendar year (as year type) for time series calculation.
5. In the **Time series** dialog box, click **Range** tab.



CROSSTAB: TIME SERIES: RANGE FILTER WITH GLOBAL VARIABLE OPTION

6. In the Value drop-down list, select a value.
   The systems display calendar and time control based on the option selected.
7. Select **Global variable** radio option.
8. From the List of value, select a value
9. Click **ADD**. You can also include multiple conditions by clicking **Add**.
   The system displays the column name, selected operator, and value.
10. From the drop-down list, select a logical operator (either AND or OR) to join two conditions.
    Select NONE if you do not want to add any other condition.
    You can edit the condition by clicking **Edit** icon.
    You can also delete the added condition by clicking **Delete** icon.
11. Click **Apply condition to other columns**.
    The system displays a list of other columns in the cross-tab.
12. Select column(s) to apply this time series filter condition to multiple column(s).
13. Click **Cancel** to go back to crosstab without saving any change.
14. Click **Clear** to deselect the entered values.
15. Click **OK**.

Examples:

Selected Fields	Options	On 30 November 2014
		Result
Value	1 Nov 2014	Data for only 1 Nov 2014
Before	1 Nov 2014	Date up to 31 Oct 2014
After	1 Apr 2014	Data from 1 Apr 2014 to 30 Nov 2014
Between	1 Apr 2014 to 20 Aug 2014	Data from 1 Apr 2014 to 20 Aug 2014
Not Between	1 Apr 2014 to 20 Aug 2014	Data up to 31 Mar 2014 and Data from 21 Aug 2014 to 30 Nov 2014

Reference: **Concept Manual > Filters and Expressions > Time Series**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

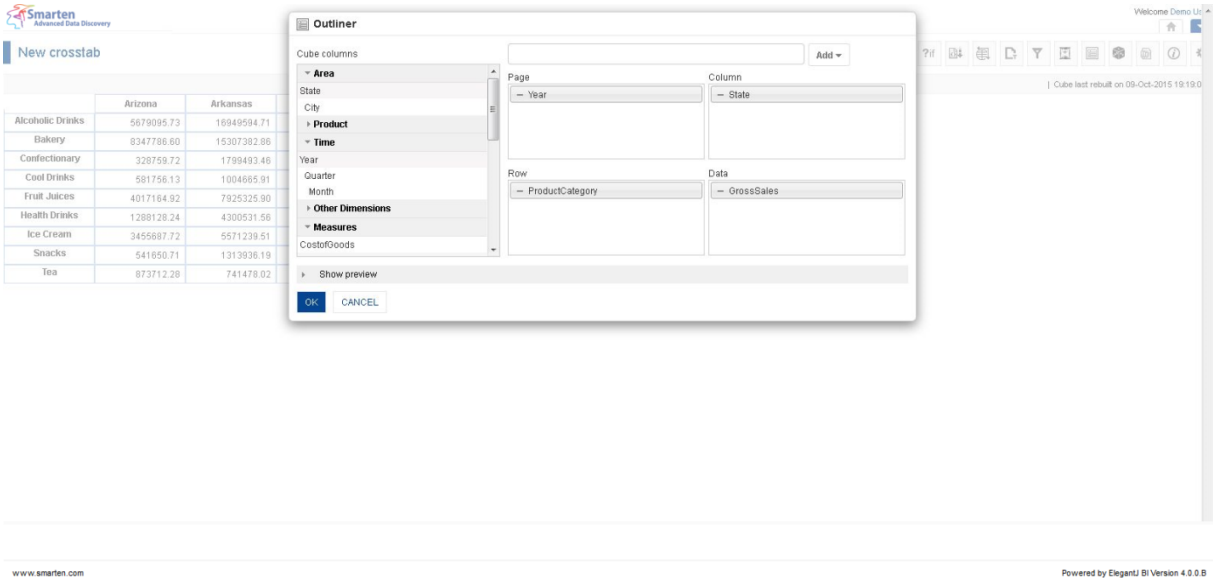
4.4.8 Page Dimension Filter

Page dimension filters can be used as a pivot filter on the crosstab providing filtering on any dimension available in cube.

For example, using Year filter on Page, you can view the crosstab for different years by selecting the page dimension filter from the drop-down list. You can also have multiple dimensions in page dimension filter.

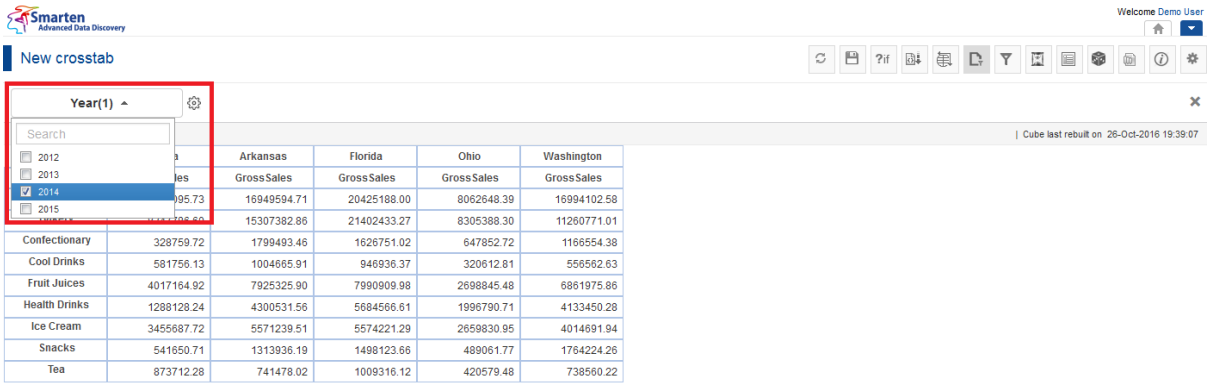
Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the Crosstab Toolbar, click **Outliner**.
   The system displays the **Outliner** dialog box.

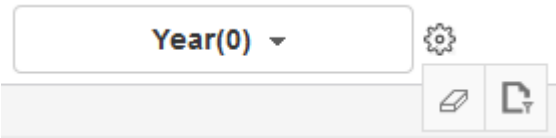


OUTLINER: PAGE DIMENSION FILTER

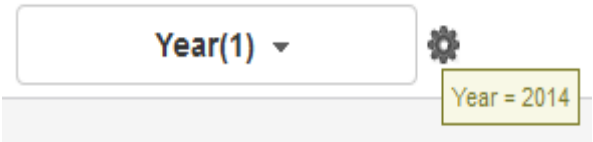
3. Select the dimension from **Cube Columns**.
4. Drag and drop the selected dimension in **Page, Column, Row,** and **Data**.
5. Click **OK**.
   The system displays the crosstab with page filter. You can add multiple columns to **Page** section to create multiple page filters on a cross-tab.
   To apply page filter, you can simply enter values in the text field of page filter and apply filters. For example, if the filter is created on year, you can set filters on multiple year values. This is simple page filter.
   You can remove a column from **Page** section if you want to remove page dimension filter from page filter panel.



CROSSTAB: PAGE DIMENSION FILTER PANEL



CROSSTAB: PAGE DIMENSION FILTER IN THE PAGE FILTER PANEL BEFORE APPLYING FILTER



CROSSTAB: PAGE DIMENSION FILTER IN THE PAGE FILTER PANEL AFTER APPLYING FILTER

6. Beside the page filter text box, click the **Setting** icon.
   The system displays two icons: **Clear** and **Advanced**.
7. Click **Clear** to remove the page filter values.
8. Click the **Advanced** icon.
   The system displays the **Advanced filter** dialog box based on column data type. For example, if you create page filter on string dimension, it will show filter dialog box for string data type, and if you create page filter on numeric column, it will show numeric data type dialog box.

You can provide one or multiple filter conditions using Advanced filter. Given below are some examples of page filter.

Examples:

Column Name	Include / Exclude	Criteria	Result
Product Category	Include	Value = Tea	Tea
Product Category	Include	Value = Bakery, Tea	Bakery, Tea
Product Category	Include	Starts with C	Cool Drinks, Confectionary
Product Category	Include	Ends with Drinks	Alcoholic Drinks, Cool Drinks, Health Drinks
Product Category	Exclude	Value = Alcoholic Drinks, Snacks	Bakery, Confectionary, Cool Drinks, Fruit Juices, Health Drinks, Ice

Column Name	Include / Exclude	Criteria	Result
			Cream, Tea
Product Category	Exclude	Starts with C	Alcoholic Drinks, Bakery, Fruit Juices, Health Drinks, Ice Cream, Snacks, Tea
Product Category	Exclude	Ends with Drinks	Bakery, Confectionary, Fruit Juices, Ice Cream, Snacks, Tea

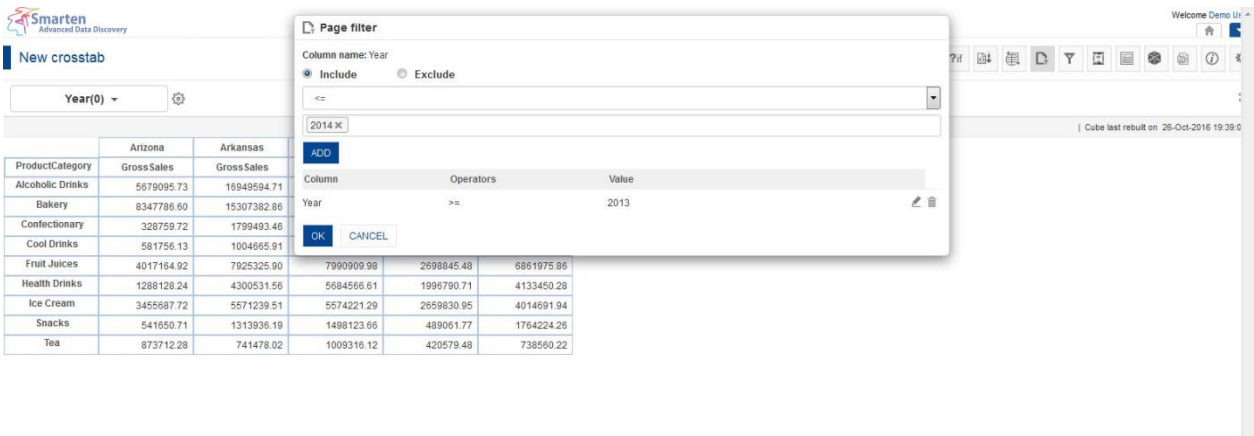
Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

4.4.8.1 Numeric-Type Page Filter

The system displays this filter box for page filters created on numeric data type.

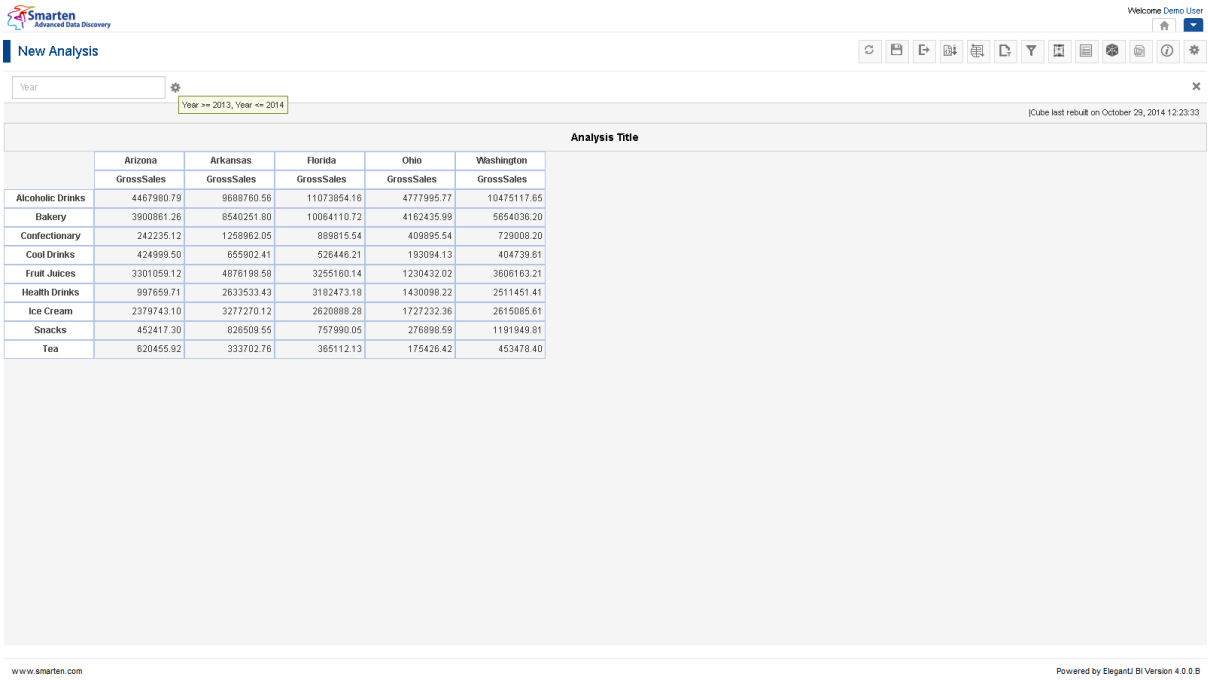
Procedure

1. Follow the **Procedure** of **Page Dimension Filter**.
   The system displays the numeric **Page filter** dialog box if the data type of page filter column is numeric.



PAGE DIMENSION FILTER: SELECT NUMERIC FILTER CRITERIA

2. Select the radio button, either **Include** or **Exclude.**
3. From the operator's drop-down list, select an operator (=, <, >, <=, >= etc.)
4. From the value drop-down list, select a value.
5. Click **ADD.** You can also include multiple conditions by clicking **Add.**
   The system displays the column name, selected operator, and value.
   You can edit the condition by clicking **Edit** icon.
   You can also delete the added condition by clicking **Delete** icon.
6. Click **OK**.



	Arizona	Arkansas	Florida	Ohio	Washington
	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	4467980.79	9688760.56	11073854.16	4777995.77	10475117.65
Bakery	3900861.26	8540251.80	10064110.72	4162435.99	5654036.20
Confectionary	242235.12	1258962.05	889815.54	409895.54	729008.20
Cool Drinks	424999.50	655902.41	526446.21	193094.13	404739.61
Fruit Juices	3301059.12	4876198.58	3255160.14	1230432.02	3606163.21
Health Drinks	997659.71	2633533.43	3182473.18	1430098.22	2511451.41
Ice Cream	2379743.10	3277270.12	2620888.28	1727232.36	2615085.61
Snacks	452417.30	826509.55	757990.05	276898.59	1191949.81
Tea	620455.92	333702.76	365112.13	175426.42	453478.40

CROSSTAB: PAGE DIMENSION FILTER: USING NUMERIC DIMENSION

Field	Description
Column name	Selected Dimension name
Include	Includes the values in crosstab satisfying the filter criteria
Exclude	Excludes the values in crosstab satisfying the filter criteria
	= Specified Single or Multiple values
	<
	>
	<=
	>=
	Null
	Not null
	Between

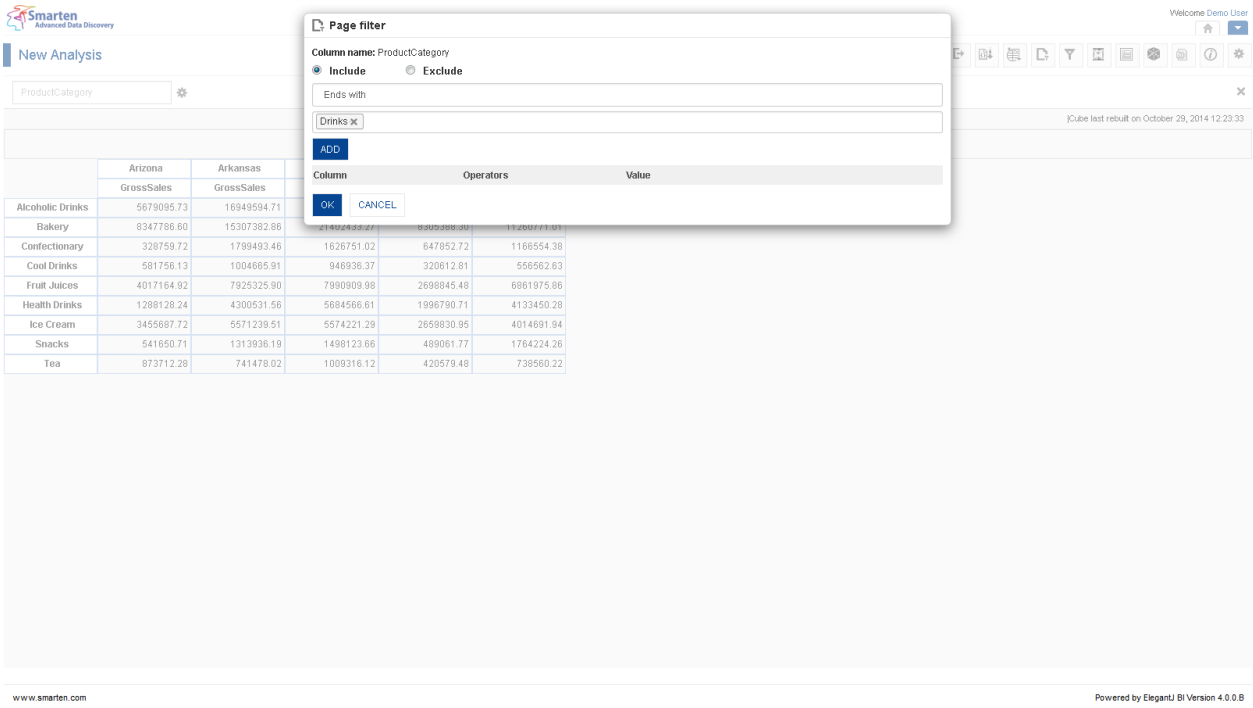
TABLE: NUMERIC DATA-TYPE PAGE FILTER

4.4.8.2 String-Type Page Filter

The system displays this filter box for page filters created on string data type.

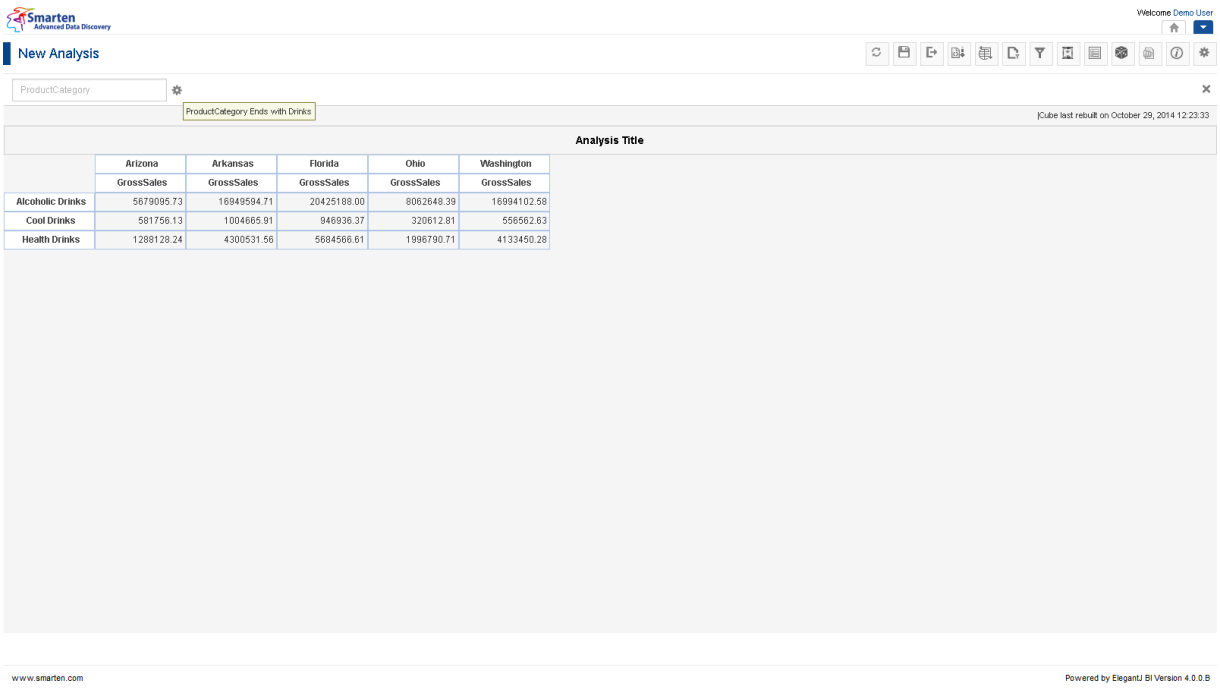
Procedure

1. Follow the **Procedure** of **Page Dimension Filter**.
   The system displays the string **Page filter** dialog box if the data type of page filter column is string.



PAGE DIMENSION FILTER: SELECT STRING FILTER CRITERIA

2. Select the radio button, either **Include** or **Exclude**.
3. From the operator's drop-down list, select an operator (=, NULL, NOT NULL, STARTS WITH, ENDS WITH, or CONTAINS)
4. From the value drop-down list, select a value.
5. Click **ADD**. You can also include multiple conditions by clicking **Add**.
   The system displays the column name, selected operator, and value.
   You can edit the condition by clicking **Edit** icon.
   You can also delete the added condition by clicking **Delete** icon.
6. Click **OK**.



CROSSTAB: PAGE DIMENSION FILTER: USING STRING DIMENSION

Field	Description
Column name	Selected Dimension name
Include	Includes the values in crosstab satisfying the filter criteria
Exclude	Excludes the values in crosstab satisfying the filter criteria
	= Specified Single or Multiple values
	Null
	Not Null
	Starts with
	Ends with
	Contains

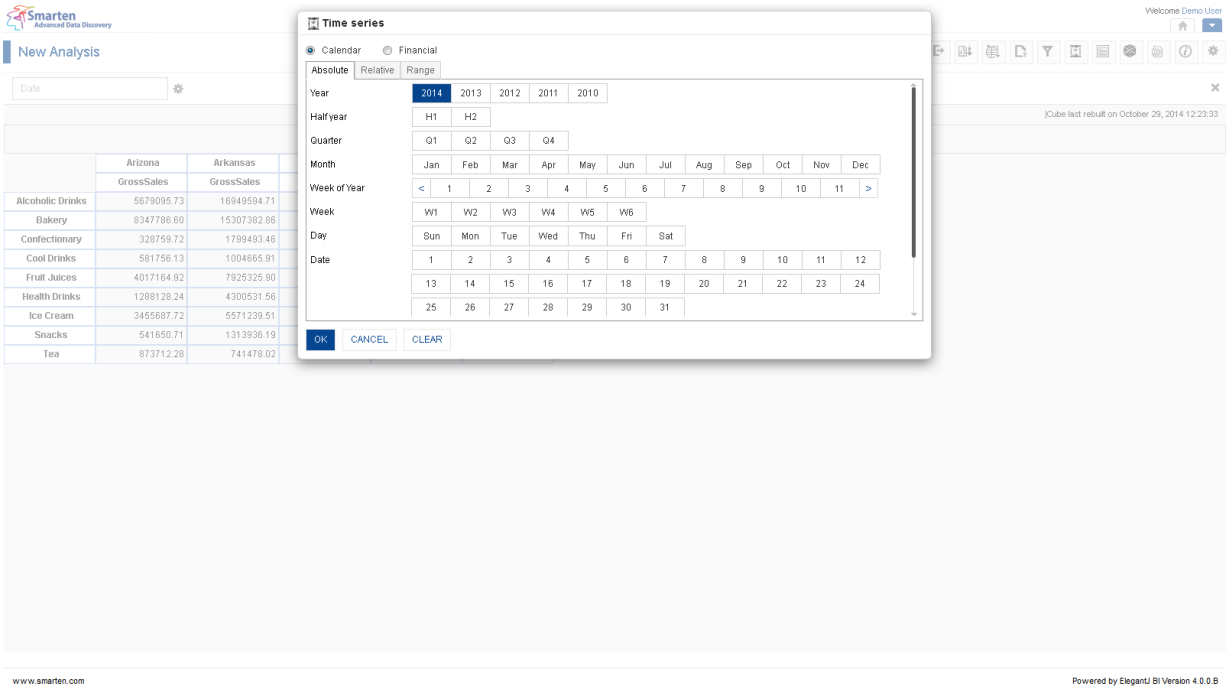
TABLE: STRING DATA-TYPE PAGE FILTER

4.4.8.3 Date-Type Page Filter

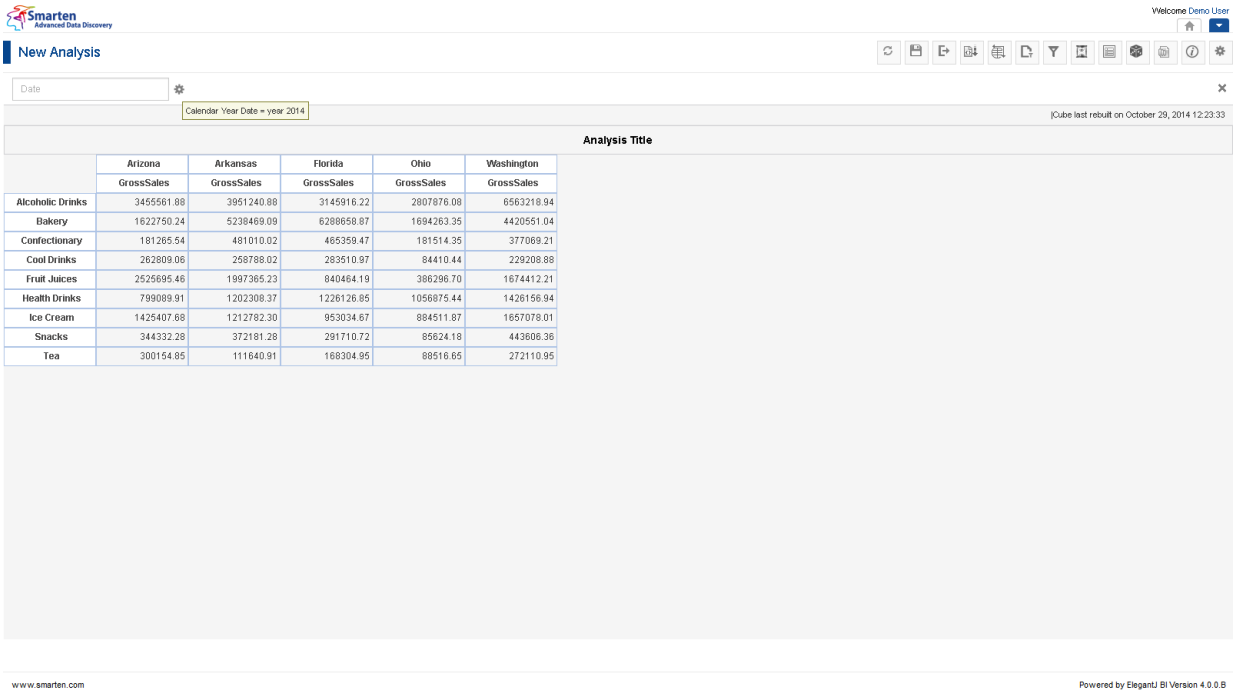
The system displays this filter box for page filters created on date data type.

Procedure

1. Follow the **Procedure** of **Page Dimension Filter**.
   The system displays the **Time Series** dialog box if the data type of page filter column is date.
2. Select time series elements from **Absolute, Relative**, and **Range** time series tabs.
3. In the **Absolute** tab, select values for absolute time series filter.
4. In the **Relative** tab, select values for **Full Period** or **Period to date** time series filter.
5. In the **Range** tab, create and manage multiple conditions for time series filter.
6. In the Value drop-down list, select a value.
   The system displays calendar and time control based on the option selected.
7. In the **Date** field, select a date.
8. In the **Time** field, select a time
9. Click **ADD**. You can also include multiple conditions by clicking **Add**.
   The system displays the column name, selected operator, and value.
10. From the drop-down list, select a logical operator (either AND or OR) to join two conditions.
    Select NONE if you do not want to add any other condition.
    You can edit the condition by clicking **Edit** icon.
    You can also delete the added condition by clicking **Delete** icon.
11. Click **OK** to add filter in crosstab.
12. Click **Cancel** to go back to crosstab without saving any change.
13. Click **Clear** to deselect the entered values.



PAGE DIMENSION FILTER: SELECT DATE FILTER CRITERIA



CROSSTAB: PAGE DIMENSION FILTER: USING DATE-TYPE DIMENSION

Reference: **Concept Manual > Filters and Expressions > Time Series**

4.4.8.4 Multiple Dimensions in Page Filter

Options for page dimension filtering in Smarten allow you to add multiple page dimension filters in crosstab also.

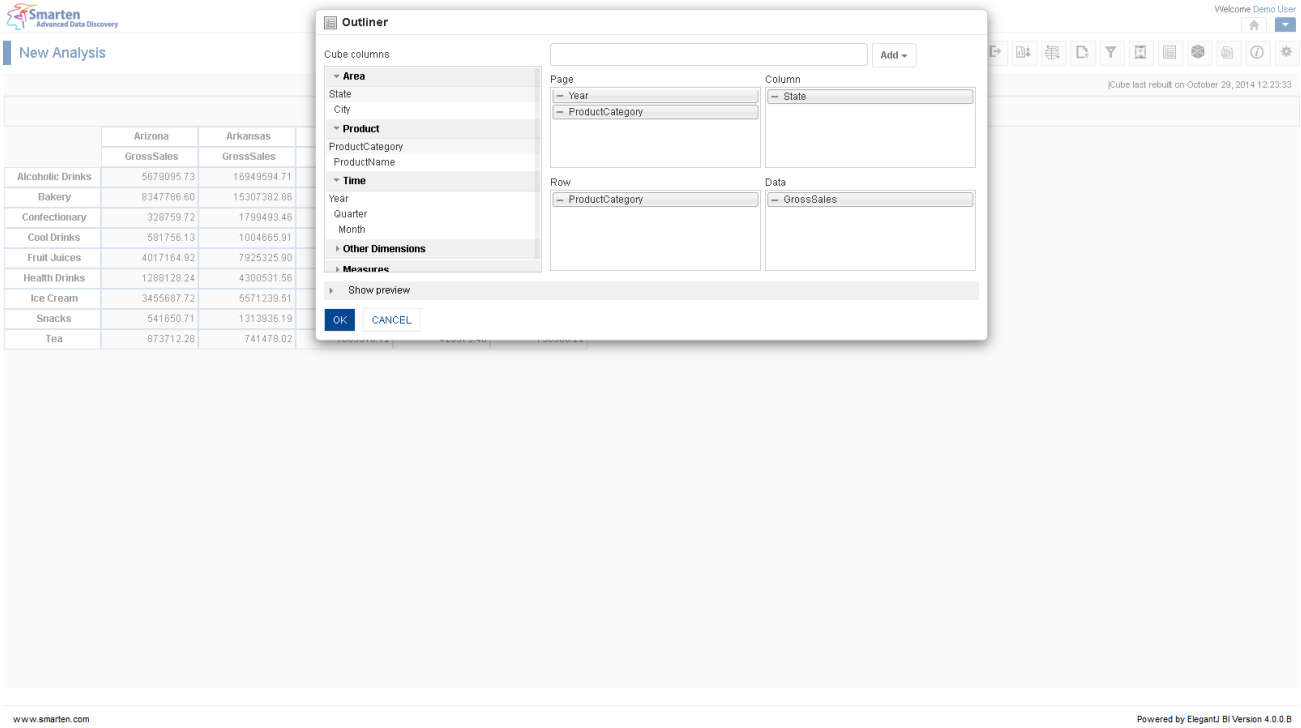
Procedure

1. In the **Repository**, open crosstab.

The system displays the selected crosstab.

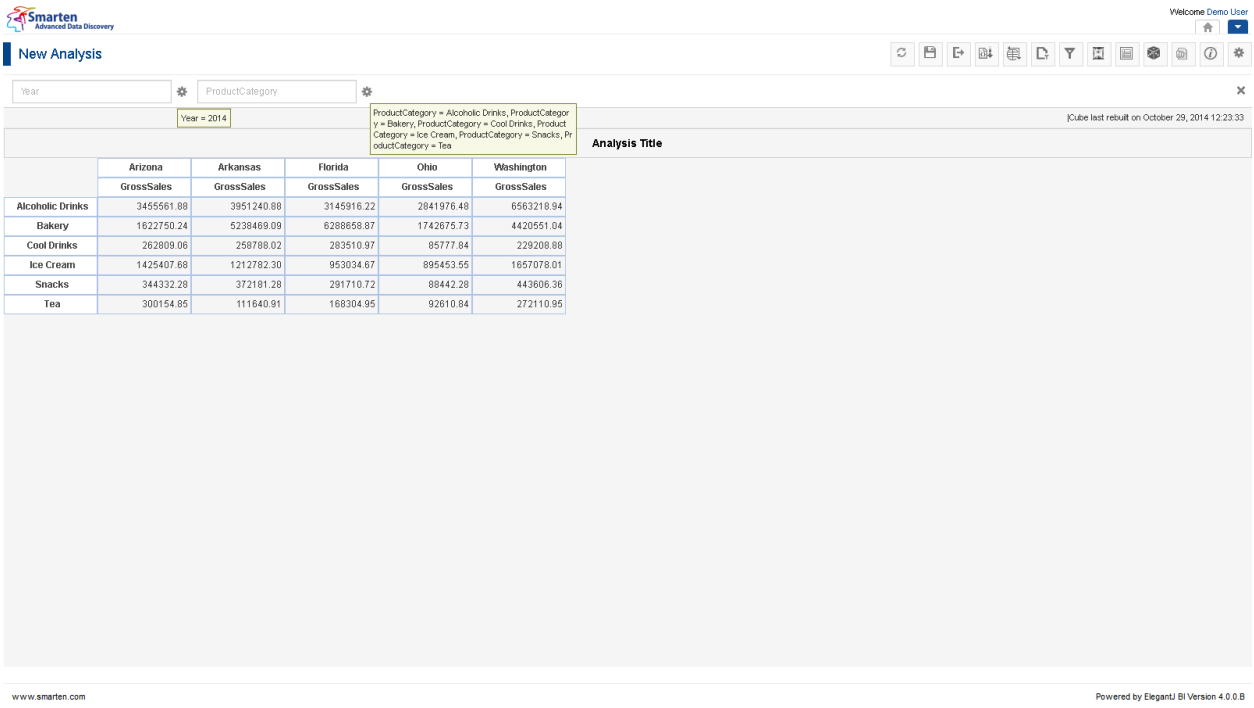
2. In the Crosstab Toolbar, click **Outliner**.

   The system displays the **Outliner** dialog box.



MULTIPLE PAGE FILTER: ADDING YEAR AND PRODUCT CATEGORY TO PAGE DIMENISON

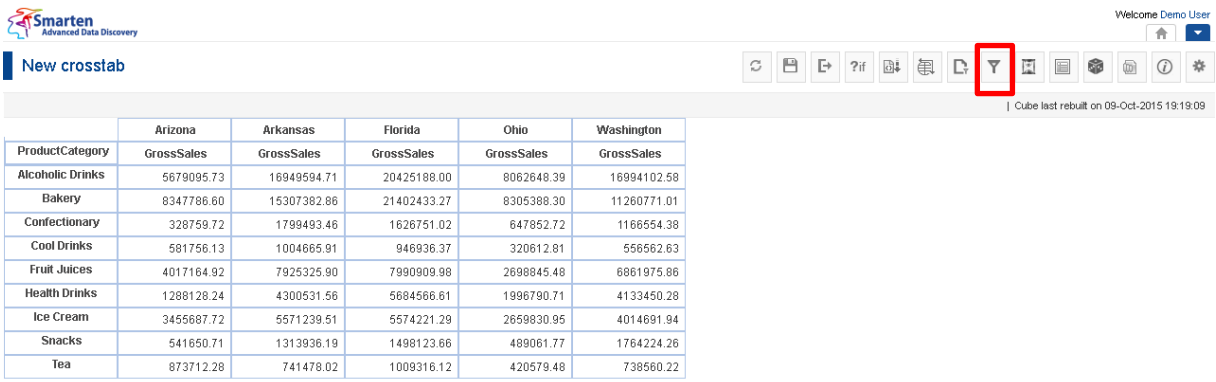
3. Select the column from **Cube Columns**.
4. Drag and drop the selected dimension in **Page, Column, Row**, and **Data**.
5. Add multiple columns to **Page** section to add multiple columns in page filter.
6. Click **OK**.



SALES ANALYSIS RESULTS FOR YEAR 2014 AND SELECTED PRODUCT CATEGORY

4.4.9 Filter

You can use Filters in Smarten cross-tab analysis to filter based on row dimension, column dimension, and measures in crosstab data.

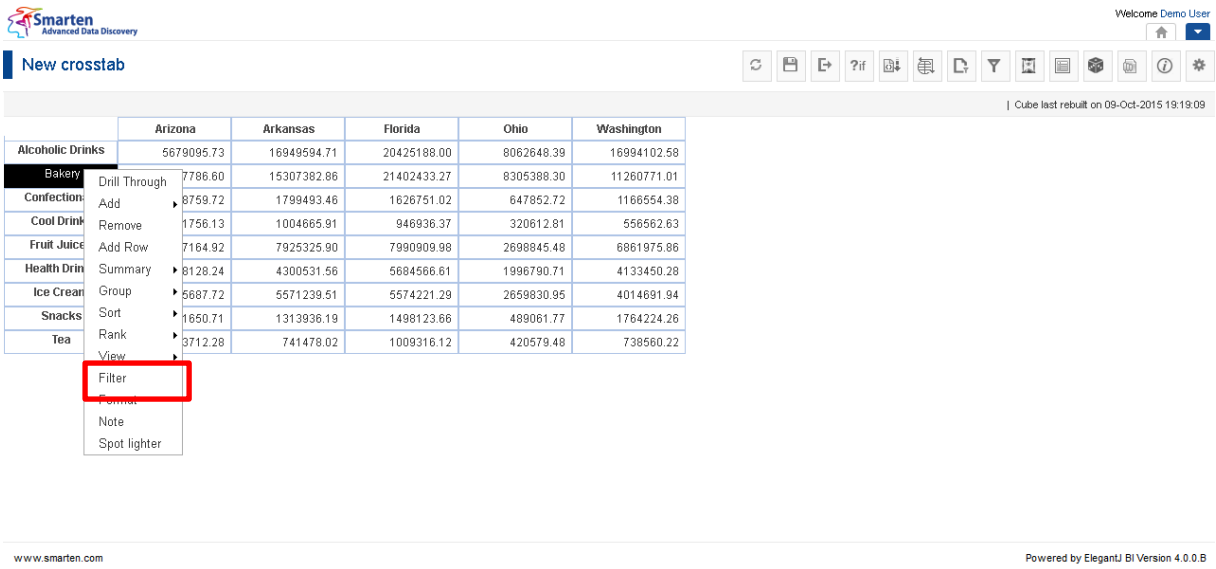


	Arizona	Arkansas	Florida	Ohio	Washington
ProductCategory	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

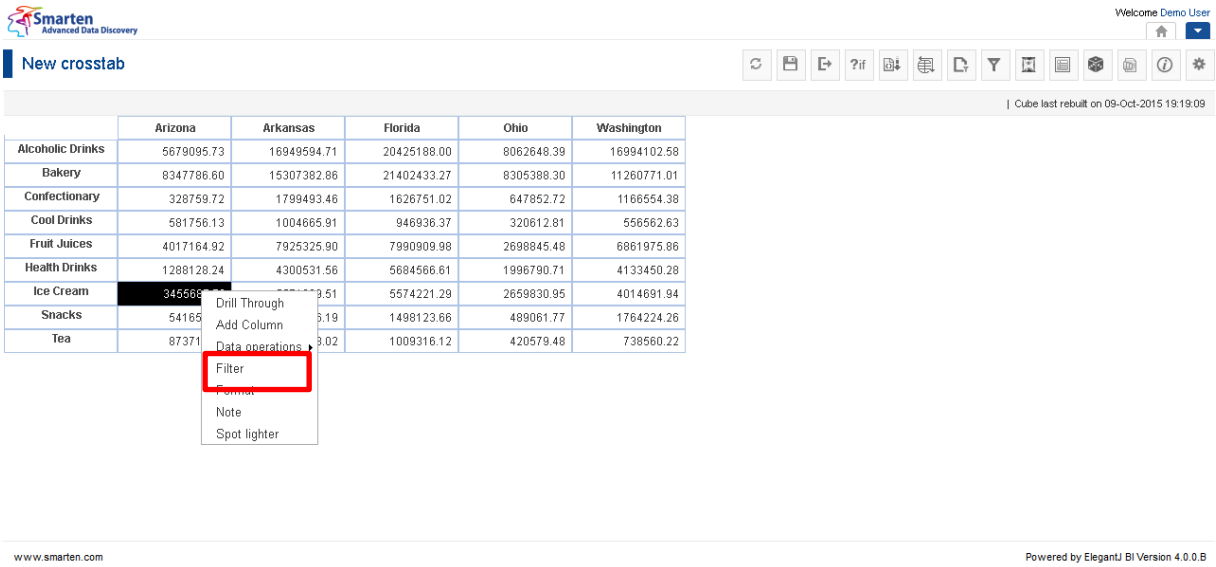
CROSSTAB: FILTER ICON TOOLBAR

Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. You can open the **Filter** dialog box from the Crosstab Toolbar.
   Or
   In the crosstab, right-click on a specific cell.
   The system displays the menu.

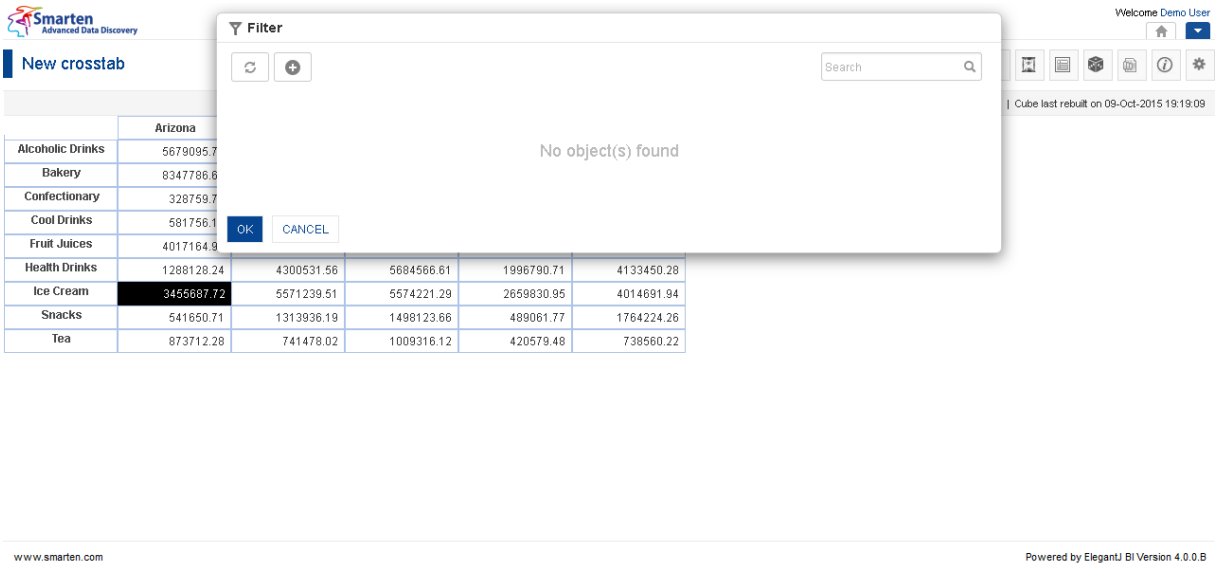


CROSSTAB: FILTER LINK RIGHT-CLICK MENU ON DIMENSION



CROSSTAB: FILTER LINK RIGHT-CLICK MENU ON MEASURE

3. In the menu, click **Filter**.
   The system displays the **Filter** dialog box.



FILTER: MANAGE FILTER TEMPLATE DIALOG

The **Filter** dialog box opens with filter based on data type of column—Numeric dimension, String dimension, Date dimension, or Measure.

You can filter either on back-end data (cube data) or front-end data (object data). Back-end filters apply filter on cube data, while front-end filters apply filter on front-end (crosstab) data.

> Note:
> If cube data filter (back-end filter) is selected, the system will display all dimensions available in the cube and will not display any measures. Back-end filter on measure or custom measure is not available.
>
> If object data filter (front-end filter) is selected, the system will display all columns (dimensions, measures, and custom measures) available in the cross-tab. It will not display any other columns available in the cube except the columns that are used in the cross-tab.

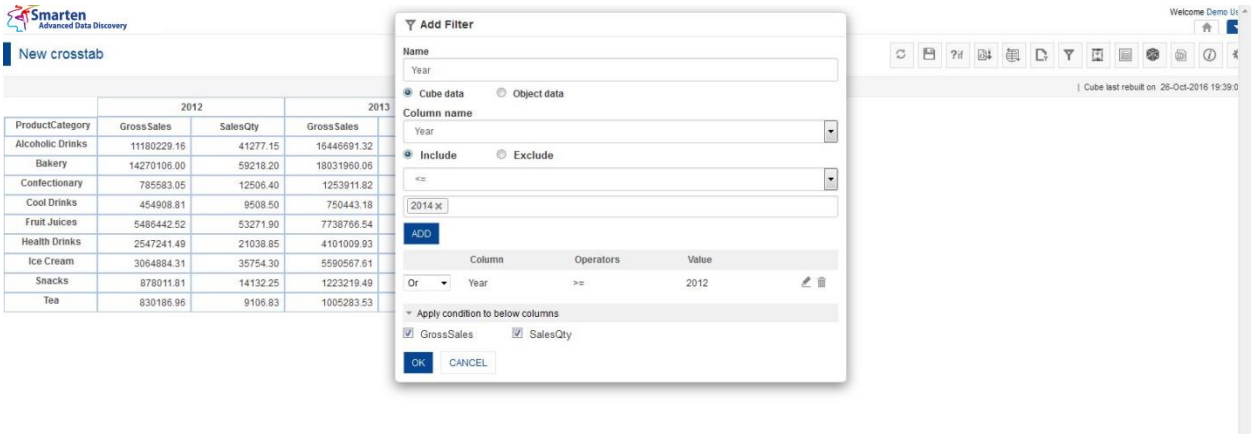
Reference: **Concept Manual > Filters and Expressions**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

4.4.9.1 Numeric-Type Dimension Filter

Procedure

1. Follow the **Procedure** of **Filter**.
2. In the **Filter** dialog box, click Add icon.
   The system displays the **Add Filter** dialog box.



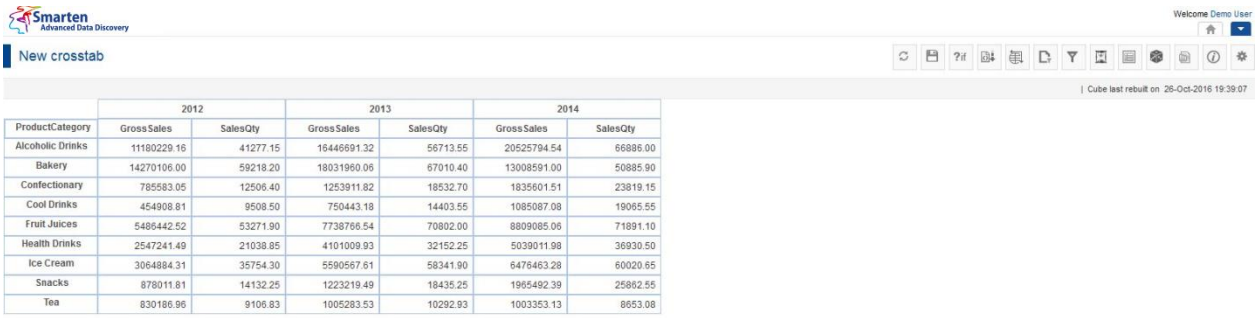
FILTER: ADD NUMERIC-TYPE DIMENSION FILTER

3. In the **Name** field, enter a name.
4. Select the **Cube data** or **Object data** filter option depending on back-end or front-end filter need.
5. Select the radio button, either **Include** or **Exclude**.
6. From the operator's drop-down list, select an operator (=, <, >, <=, <= etc.)
7. Click **ADD**. You can also include multiple conditions by clicking **Add**.
   The system displays the column name, selected operator, and value.
   You can edit the condition by clicking **Edit** icon.
   You can also delete the added condition by clicking **Delete** icon.
8. From the drop-down list, select a logical operator (either AND or OR) to join two conditions. Select None if you do not want to add any other condition.
9. Click **Apply to below conditions columns** and that will display list of other columns in the cross tab.
   Select column(s) to apply this filter condition to multiple column(s).
10. Click **OK**.

Field	Description
Column name	Selected Numeric Dimension name
Include	Includes the values in crosstab satisfying the filter criteria
Exclude	Excludes the values in crosstab satisfying the filter criteria
	= Specified Single or Multiple values

	<
	>
	<=
	<=
	Null
	Not null
	Between

TABLE: ADD NUMERIC-TYPE DIMENSION FILTER



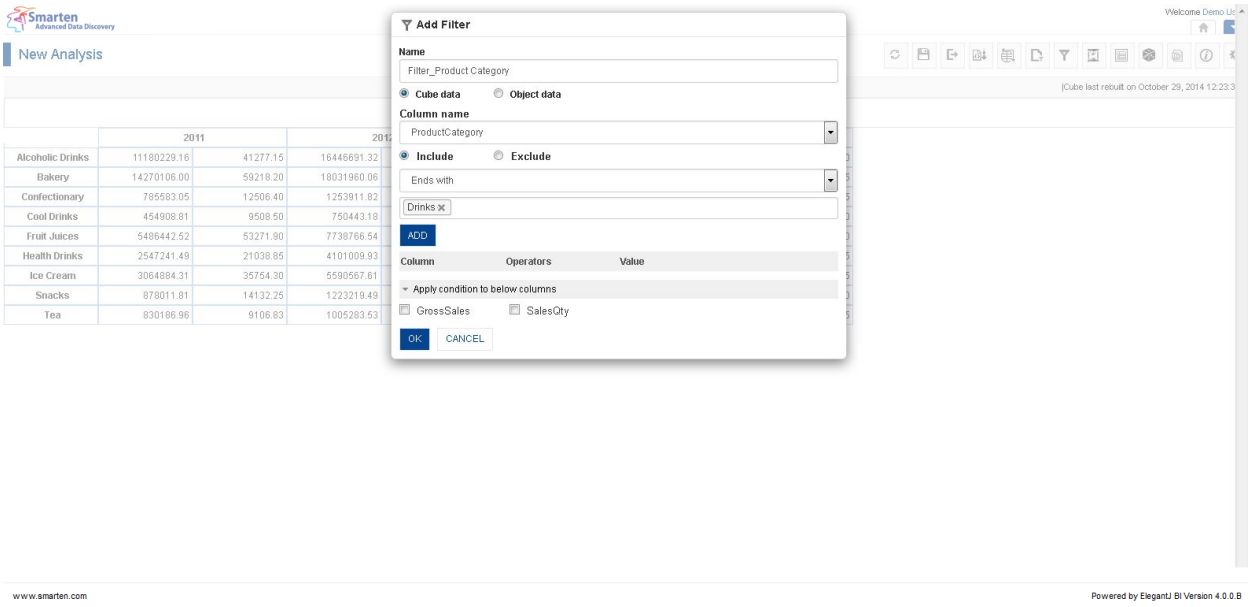
	2012		2013		2014	
ProductCategory	GrossSales	SalesQty	GrossSales	SalesQty	GrossSales	SalesQty
Alcoholic Drinks	11180229.16	41277.15	16446691.32	56713.55	20525794.54	66886.00
Bakery	14270106.00	59218.20	18031960.06	67010.40	13008591.00	50885.90
Confectionary	785583.05	12506.40	1253911.82	18532.70	1835601.51	23819.15
Cool Drinks	454908.81	9508.50	750443.18	14403.55	1085087.08	19065.55
Fruit Juices	5486442.52	53271.90	7738766.54	70802.00	8809085.06	71891.10
Health Drinks	2547241.49	21038.85	4101009.93	32152.25	5039011.98	36930.50
Ice Cream	3064884.31	35754.30	5590567.61	58341.90	6476463.28	60020.65
Snacks	878011.81	14132.25	1223219.49	18435.25	1965492.39	25862.55
Tea	830186.96	9106.83	1005283.53	10292.93	1003353.13	8653.08

SALES ANALYSIS RESULTS FOR YEARS 2012 TO 2014

4.4.9.2 String-Type Dimension Filter

Procedure

1. Follow the **Procedure** of **Filter**.
2. In the **Filter** dialog box, click **Add** icon.
   The system displays the **Add Filter** dialog box.



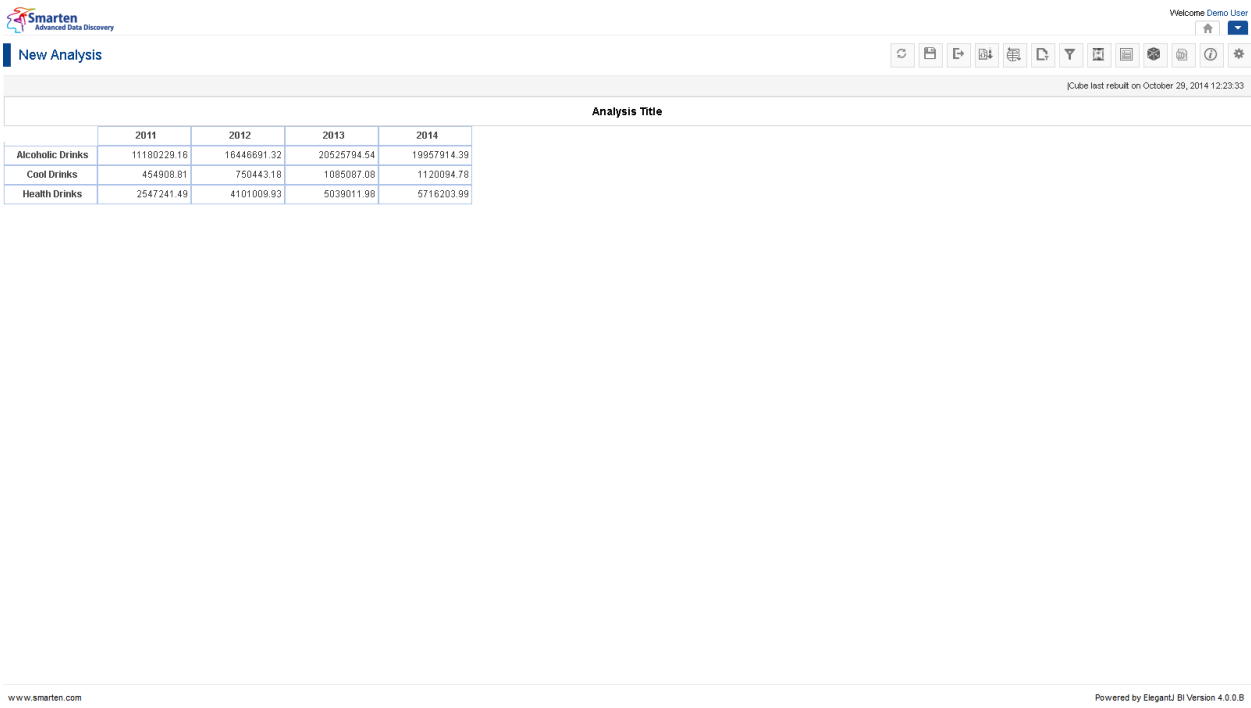
FILTER: ADD STRING-TYPE DIMENSION FILTER

3. In the **Name** field, enter a name.
4. Select the **Cube data** or **Object data** filter option depending on back-end or front-end filter need.
5. Select the radio button, either **Include** or **Exclude**.

6. From the operator's drop-down list, select an operator (=, NULL, NOT NULL, STARTS WITH, ENDS WITH, or CONTAINS)
7. Click **ADD**. You can also include multiple conditions by clicking **Add**.
   The system displays the column name, selected operator, and value.
   You can edit the condition by clicking **Edit** icon.
   You can also delete the added condition by clicking **Delete** icon.
8. From the drop-down list, select a logical operator (either AND or OR) to join two conditions. Select None if you do not want to add any other condition.
9. Click **Apply to below conditions columns** and that will display list of other columns in the cross-tab.
10. Select column(s) to apply this filter condition to multiple column(s).
11. Click **OK**.

Field	Description
Column name	Selected String Dimension name
Include	Includes the values in crosstab satisfying the filter criteria
Exclude	Excludes the values in crosstab satisfying the filter criteria
	= Specified Single or Multiple values
	Null
	Not Null
	Starts with
	Ends with
	Contains

TABLE: ADD STRING-TYPE DIMENSION FILTER



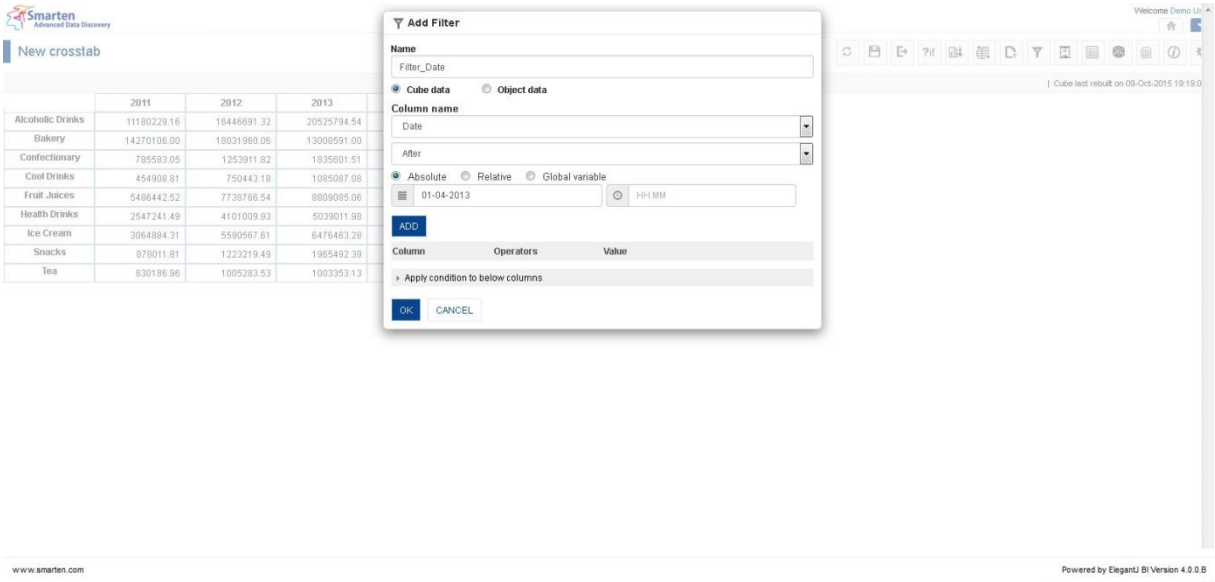
	2011	2012	2013	2014
Alcoholic Drinks	11180229.16	16446691.32	20525794.54	19957914.39
Cool Drinks	454908.81	750443.18	1085087.08	1120094.78
Health Drinks	2547241.49	4101009.93	5039011.98	5716203.99

SALES ANALYSIS RESULTS FOR PRODUCT CATEGORY ENDING WITH DRINKS

4.4.9.3 Date-Type Dimension Filter

Procedure

1. Follow the **Procedure** of **Filter**.
2. In the **Filter** dialog box, click Add icon.
   The system displays the **Add Filter** dialog box.



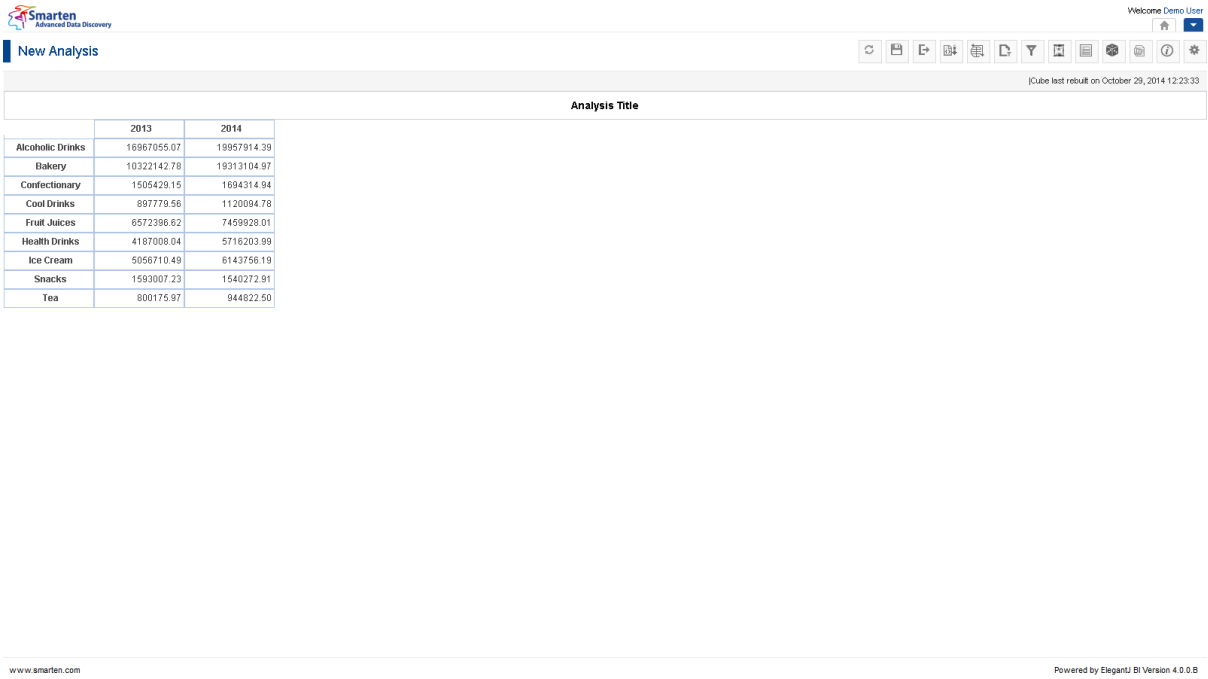
FILTER: ADD DATE-TYPE DIMENSION FILTER

3. In the **Name** field, enter a name.
4. Select the **Cube data** or **Object data** filter option depending on back-end or front-end filter need.
5. From the operator's drop-down list, select an operator (BEFORE, AFTER, BETWEEN, or NOT BETWEEN).
   The system displays calendar and time control based on the option selected.
6. In the **Calendar** field, select a date.
7. In the **Time** field, select a time.
8. Click **ADD**. You can also include multiple conditions by clicking **Add**.
   The system displays the column name, selected operator, and value.
   You can edit the condition by clicking **Edit** icon.
   You can also delete the added condition by clicking **Delete** icon.
9. From the drop-down list, select a logical operator (either AND or OR) to join two conditions.
   Select None if you do not want to add any other condition.
10. Click **Apply to below conditions columns** and that will display list of other columns in the cross tab.
11. Select column(s) to apply this filter condition to multiple column(s).
12. Click **OK**.

Field	Description
Column name	Selected Date Dimension name
Include	Includes the values in crosstab satisfying the filter criteria
Exclude	Excludes the values in crosstab satisfying the filter criteria
	Value
	Before
	After

Field	Description
	Between
	Not Between

TABLE: ADD DATE-TYPE DIMENSION FILTER



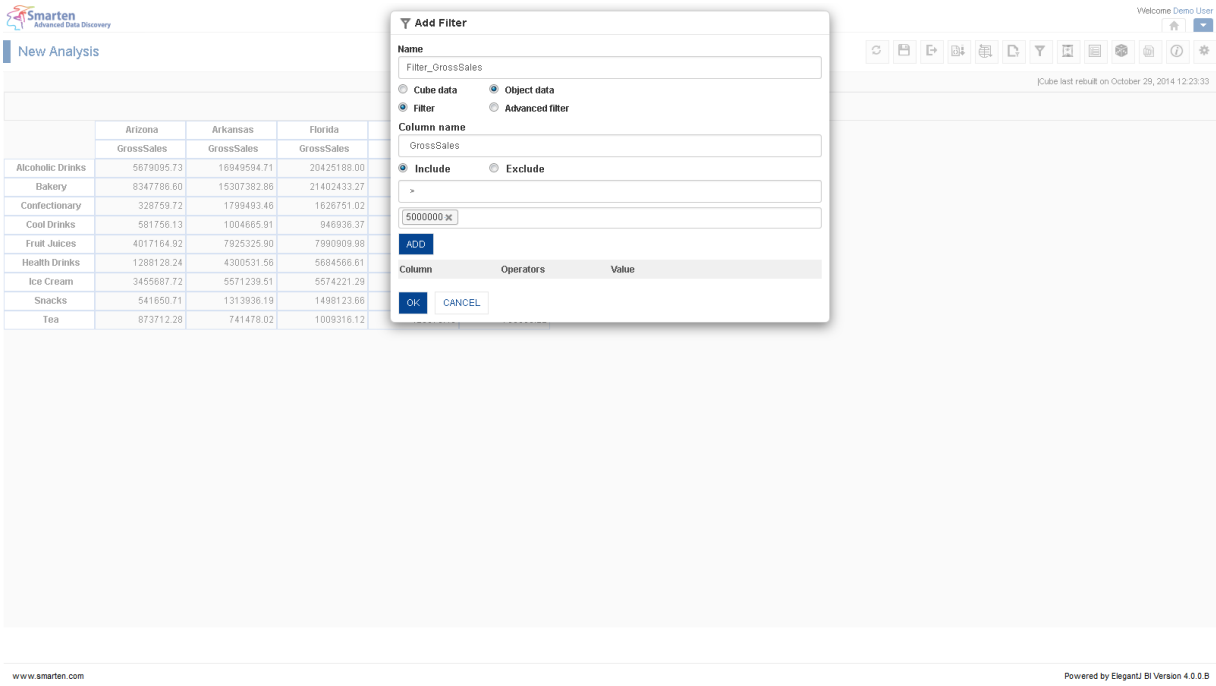
	2013	2014
Alcoholic Drinks	16967055.07	19957914.39
Bakery	10322142.78	19313104.97
Confectionary	1505429.15	1694314.94
Cool Drinks	897779.56	1120094.78
Fruit Juices	6572396.62	7459928.01
Health Drinks	4187008.04	5716203.99
Ice Cream	5056710.49	6143756.19
Snacks	1593007.23	1540272.91
Tea	800175.97	944822.50

SALES ANALYSIS RESULTS FOR DATE AFTER 1 APR 2013

4.4.9.4 Measure Filter

Procedure

1. Follow the **Procedure** of **Filter**.
2. In the **Filter** dialog box, click Add icon.
   The system displays the **Add Filter** dialog box.

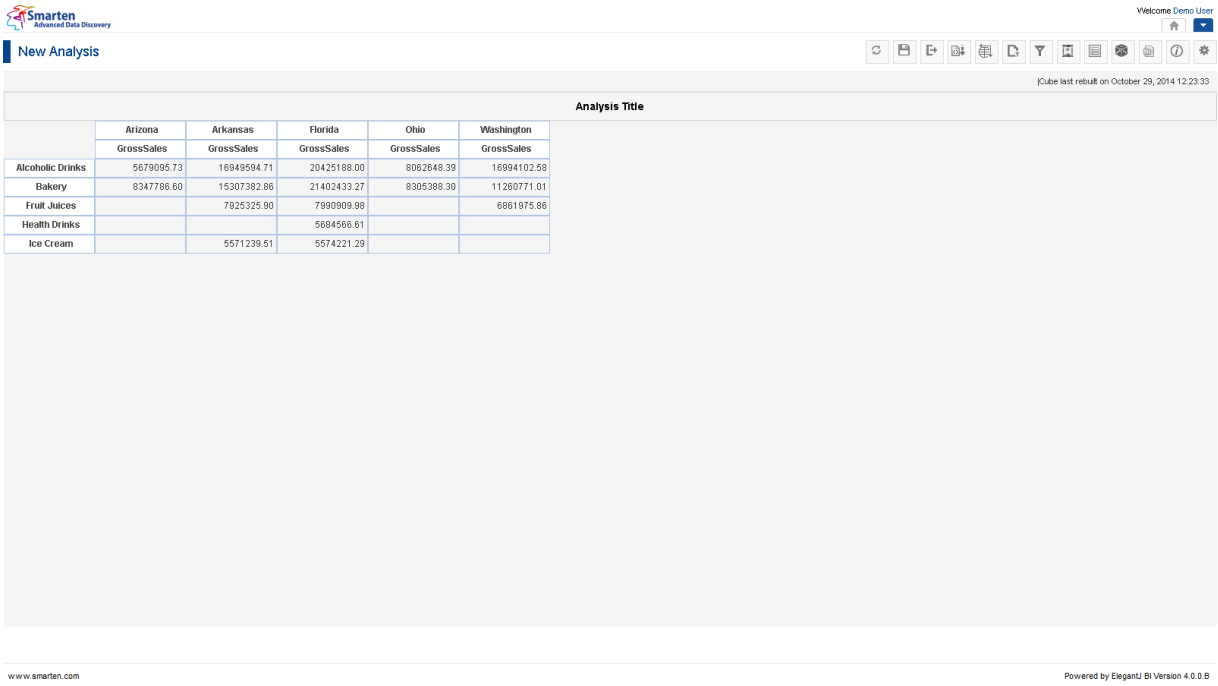


ADD MEASURE FILTER

3. In the **Name** field, enter a name.
4. Select the **Object data** filter option to apply front-end filter.
5. Select the radio button, either **Include** or **Exclude**.
6. From the operator's drop-down list, select an operator (=, <, >, <=, <=, etc.).
7. From the value drop-down list, select a value.
8. Click **ADD**. You can also include multiple conditions by clicking **Add**.
   The system displays the column name, selected operator, and value.
   You can edit the condition by clicking **Edit** icon.
   You can also delete the added condition by clicking **Delete** icon.
9. From the drop-down list, select a logical operator (either AND or OR) to join multiple conditions. Select None if you do not want to add any other condition.
10. Click **OK**.

Field	Description
Column name	Selected Numeric Dimension name
Include	Includes the values in crosstab satisfying the filter criteria
Exclude	Excludes the values in crosstab satisfying the filter criteria
	= Specified Single or Multiple values
	<
	>
	<=
	>=
	Null
	Not null
	Between

TABLE: ADD MEASURE FILTER



	Arizona	Arkansas	Florida	Ohio	Washington
	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Fruit Juices		7925325.90	7990909.98		6861975.86
Health Drinks			5684566.61		
Ice Cream		5571239.51	5574221.29		

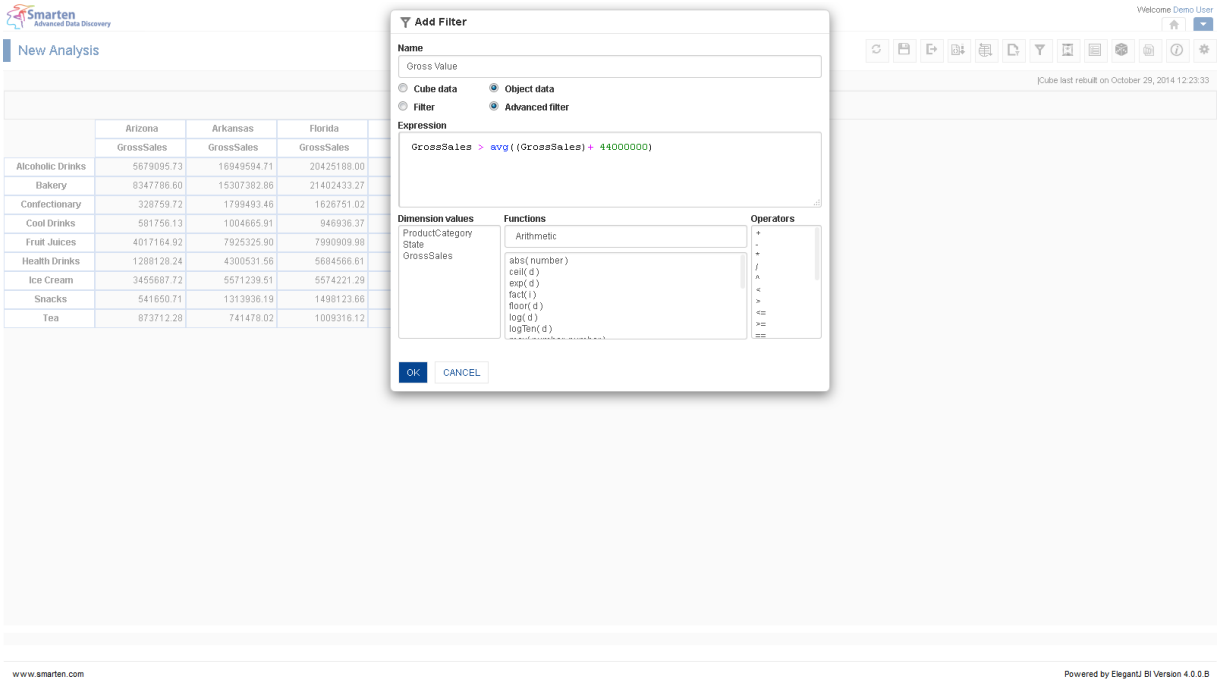
SALES ANALYSIS RESULTS FOR FILTER BY GROSS SALES

4.4.9.5 Advanced Filter

The advanced filter option in Smarten allows you to create filters based on various string, arithmetic, date, statistics, trigonometry, or conditional statements using various arithmetic operators (like +, -, /, etc.) or comparison operators (like =, >, < etc.). A wide range of functions, including **Arithmetic**, **Date**, **Statistical**, **String**, **Trigonometric,** and **Miscellaneous,** are available in Smarten.
It is available as object—front-end filter only.

Procedure

1. Follow the **Procedure** of **Filter**.
2. In the **Filter** dialog box, click Add icon.
   The system displays the **Add Filter** dialog box.



	Arizona	Arkansas	Florida
	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00
Bakery	8347786.60	15307382.86	21402433.27
Confectionary	328759.72	1799493.46	1626751.02
Cool Drinks	581756.13	1004665.91	946936.37
Fruit Juices	4017164.92	7925325.90	7990909.98
Health Drinks	1288128.24	4300531.56	5684566.61
Ice Cream	3455687.72	5571239.51	5574221.29
Snacks	541650.71	1313936.19	1498123.66
Tea	873712.28	741478.02	1009316.12

CROSSTAB: ADVANCED FILTER

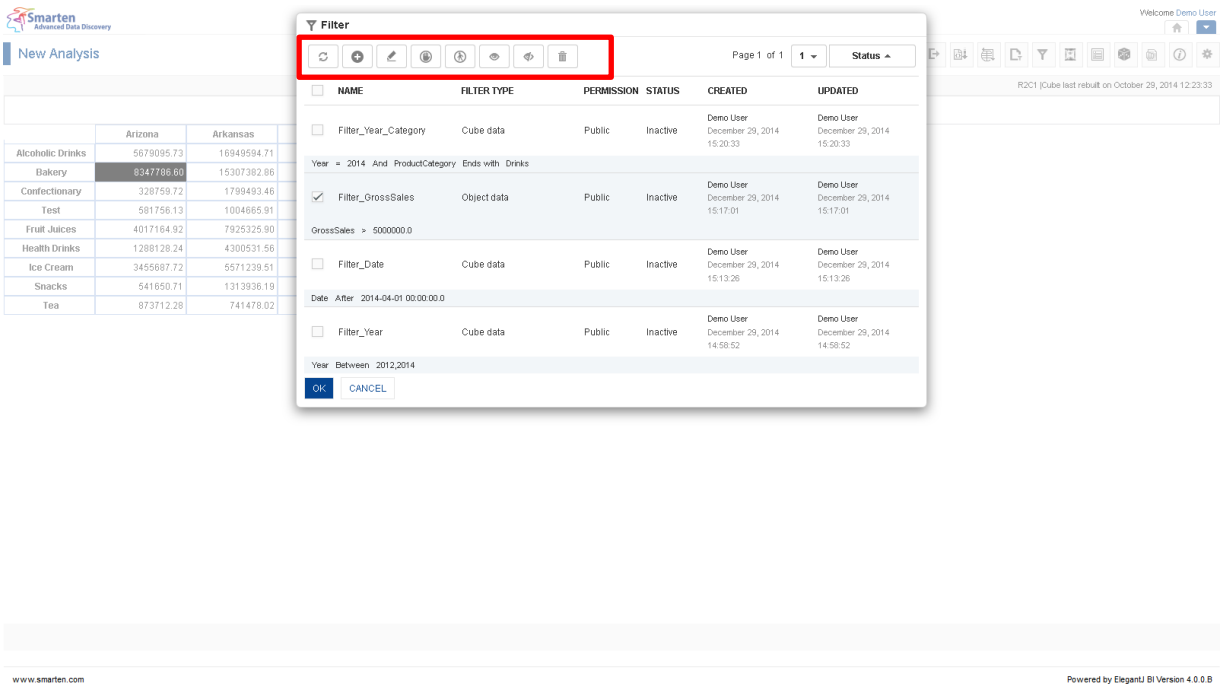
3. In the **Name** field, enter a name.
4. Select the **Object data** radio button to apply front-end filter.
5. Select the **Advanced filter** radio button.
6. In the **Expression box**, enter the expression.
   The system displays the expression in **Expression** box.
7. You can create or edit expression by direct edit in the **Expression** box or by selecting values from Dimension Values, Functions, and Operators boxes.
8. Click **OK**.

Reference: **Concept Manual > Filters and Expressions > Advanced Filter**

4.4.9.6 Create & Manage Templates

Procedure

1. Follow the **Procedure** of **Filter**.
2. In the **Filter** dialog box, select a checkbox in front of a filter.
   The system displays a toolbar for managing tool template.



CROSSTAB: CREATE AND MANAGE FILTER TEMPLATE

CROSSTAB: CREATE AND MANAGE FILTER TEMPLATE TOOLBAR

Icon	Icon name
	Refresh
	Add
	Edit

Icon	Icon name
	Private
	Public
	Active
	Inactive
	Delete

CROSSTAB: CREATE AND MANAGE FILTER TEMPLATE TOOLBAR OPTIONS

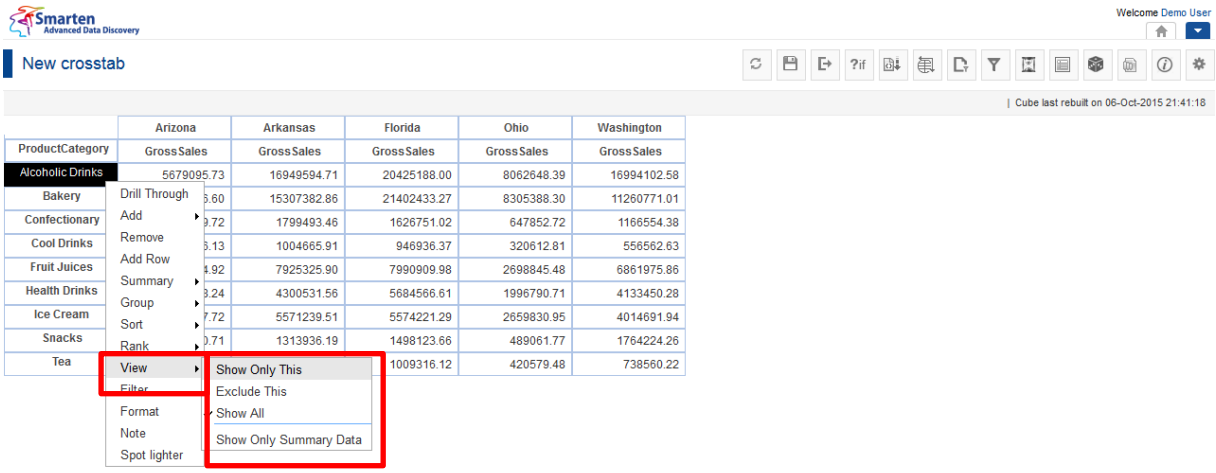
> Note:
> Templates can be edited or deleted only by creator of the template or the administrator.

4.4.10 Show/Hide

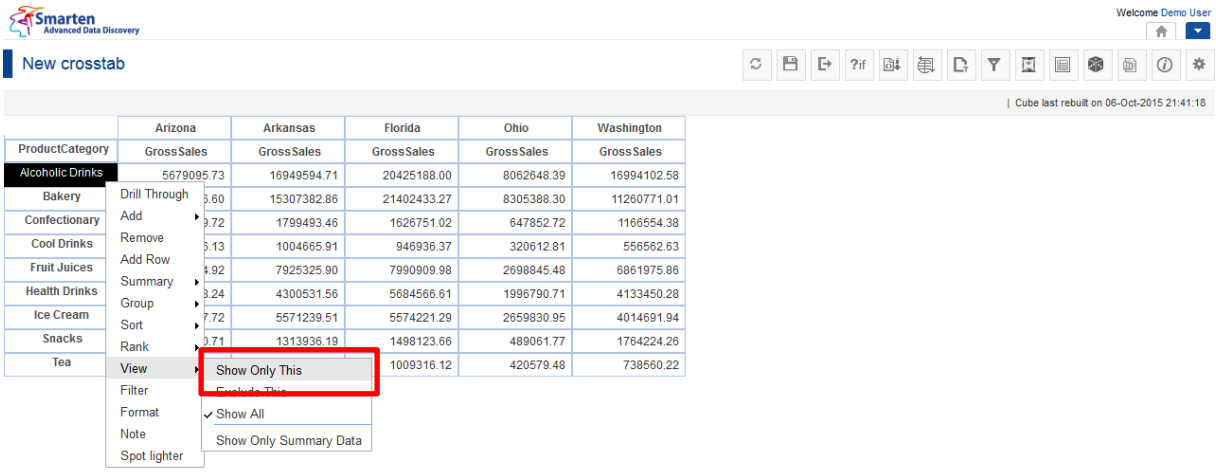
Show/Hide is used to show or hide row or column header. You can show or hide multiple rows or columns.

Procedure

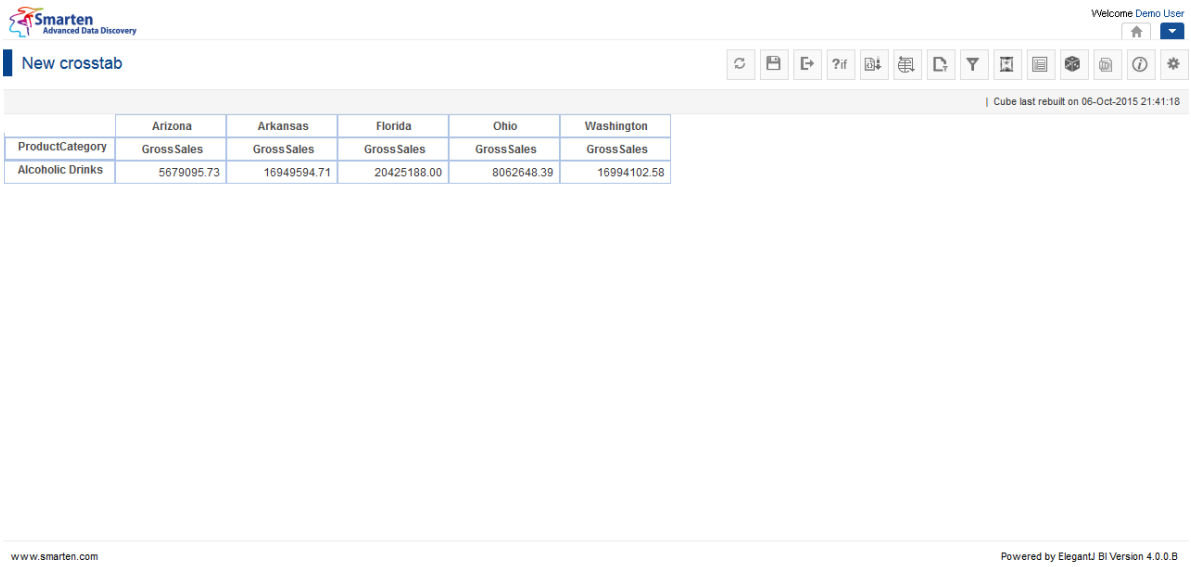
1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the crosstab, right-click on a specific cell.
   The system displays the menu.
3. In the menu, select **View**.
   The system displays the submenu with various options, such as Show Only This, Exclude This, Show All, and Show Only Summary Data.
4. In the submenu, select the required option.
   The system displays the crosstab according to the view option selected as displayed in the images below.



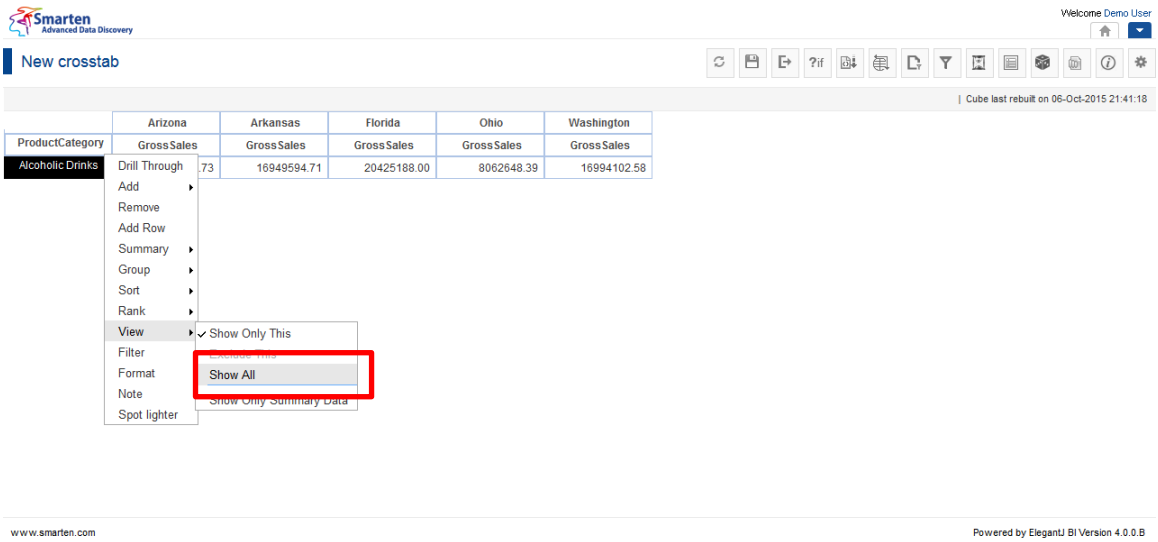
CROSSTAB: VIEW



CROSSTAB: SHOW ONLY THIS



CROSSTAB: SHOW ONLY THIS: ALCOHOLIC DRINKS



CROSSTAB: SHOW ALL

Smarten Advanced Data Discovery

Welcome Demo User

New crosstab

| Cube last rebuilt on 06-Oct-2015 21:41:18

	Arizona	Arkansas	Florida	Ohio	Washington
ProductCategory	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

CROSSTAB: SHOW ALL

Smarten Advanced Data Discovery

Welcome Demo User

New crosstab

| Cube last rebuilt on 06-Oct-2015 21:41:18

	Arizona	Arkansas	Florida	Ohio	Washington
ProductCategory	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

Drill Through
Add
Remove
Add Row
Summary
Group
Sort
Rank
View
Filter
Format
Note
Spot lighter

Show Only This
Exclude This
Show All
Show Only Summary Data

CROSSTAB: EXCLUDE THIS

Smarten Advanced Data Discovery

Welcome Demo User

New crosstab

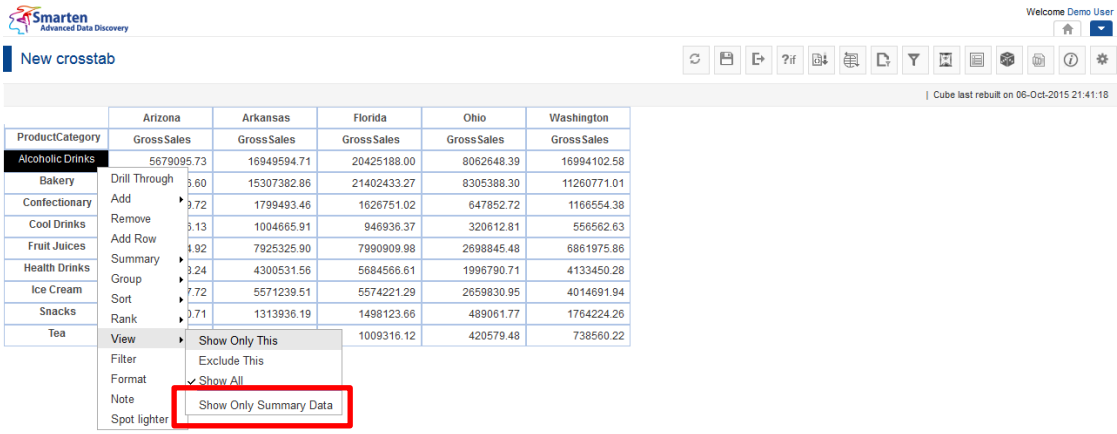
| Cube last rebuilt on 06-Oct-2015 21:41:18

	Arizona	Arkansas	Florida	Ohio	Washington
ProductCategory	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

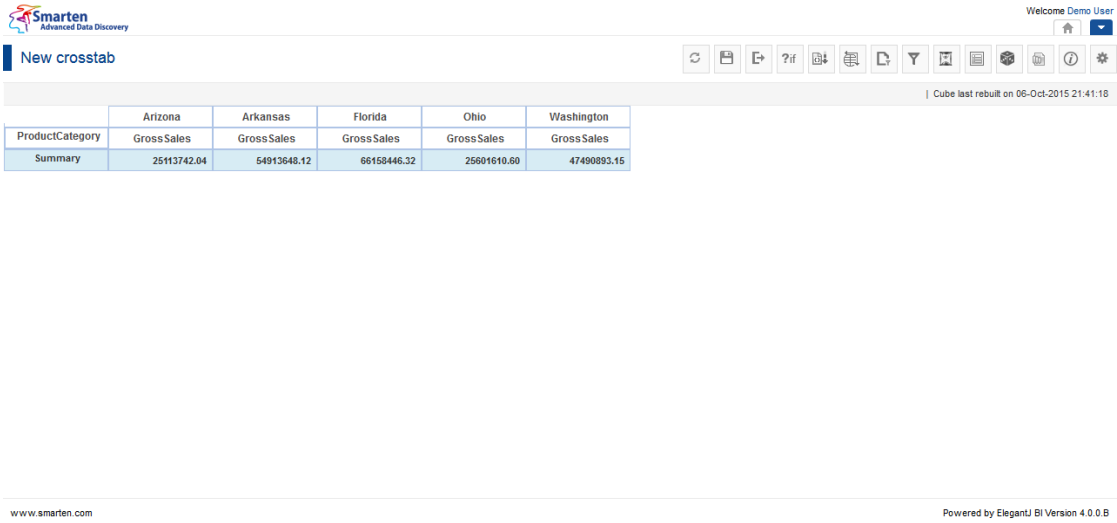
www.smarten.com

Powered by ElegantJ BI Version 4.0.0.B

CROSSTAB: EXCLUDE THIS: ALCOHOLIC DRINKS



CROSSTAB: SHOW ONLY SUMMARY DATA



CROSSTAB: SHOW ONLY SUMMARY DATA

Reference: **Concept Manual > Analytic Functions > Show only Summary data**

4.4.11 Sort

Use this option to sort the tabular based on sorting criteria of columns. This will arrange column data in ascending or descending order.

> Note:
> You can apply only General sort on the measure columns. You cannot sort a measure column if Dimension summary is enabled.

Reference: **User manual > Working with Crosstab > Sort**

Reference: **Concept Manual > Analytic Functions > Sort**

4.4.11.1 General sort

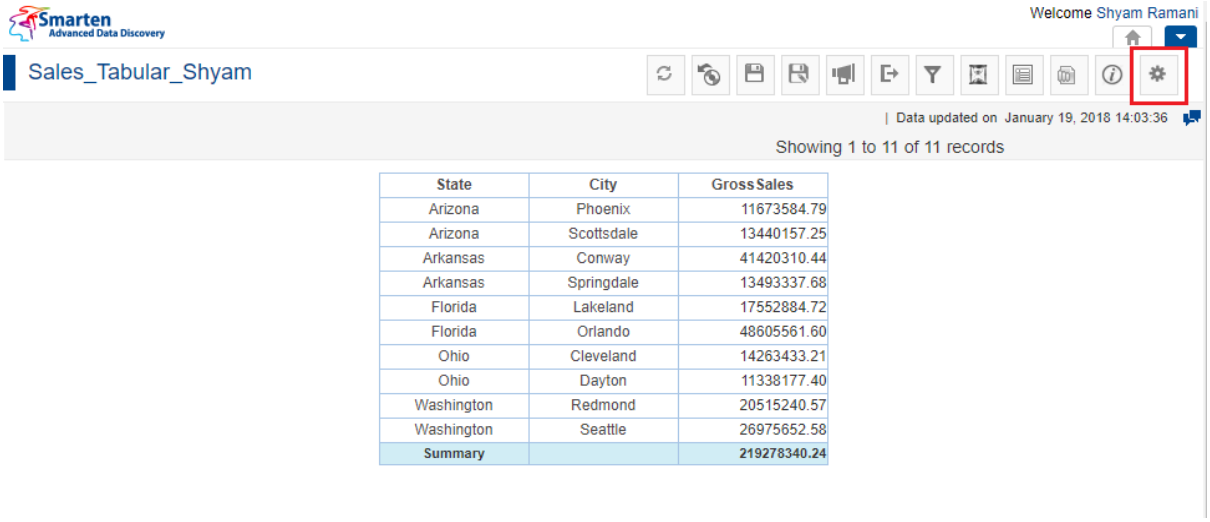
The General sort enables you to sort a column in ascending or descending order. You can apply general sort on dimension and measures available in a tabular.

Procedure

1. In the **Repository**, open tabular on which you want to apply sort.

   The system displays the selected tabular.

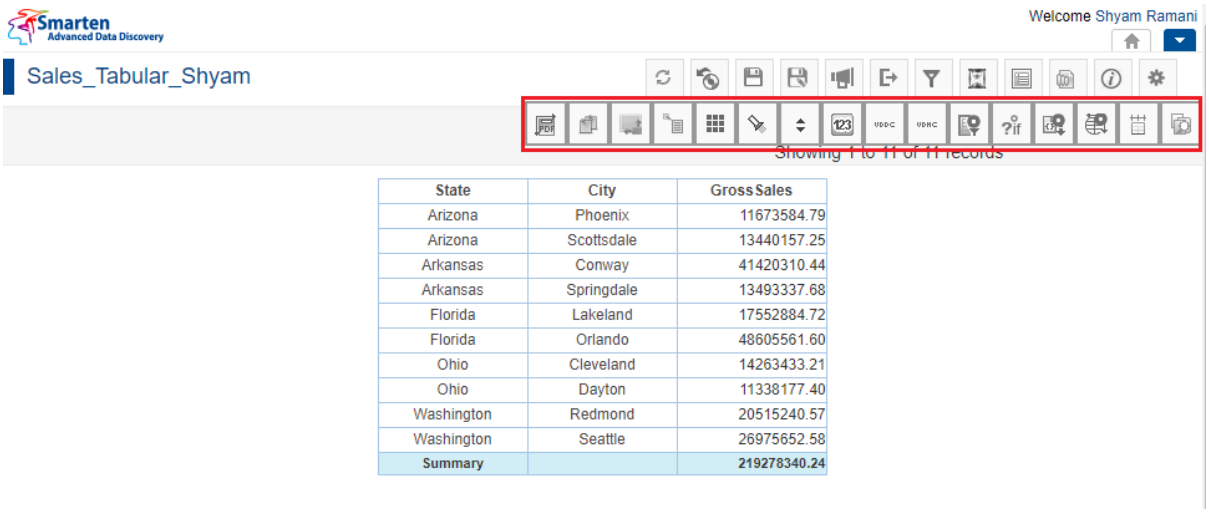
2. In the upper right-hand corner click **Setting**.



State	City	Gross Sales
Arizona	Phoenix	11673584.79
Arizona	Scottsdale	13440157.25
Arkansas	Conway	41420310.44
Arkansas	Springdale	13493337.68
Florida	Lakeland	17552884.72
Florida	Orlando	48605561.60
Ohio	Cleveland	14263433.21
Ohio	Dayton	11338177.40
Washington	Redmond	20515240.57
Washington	Seattle	26975652.58
Summary		**219278340.24**

TABULAR: THE SETTINGS ICON

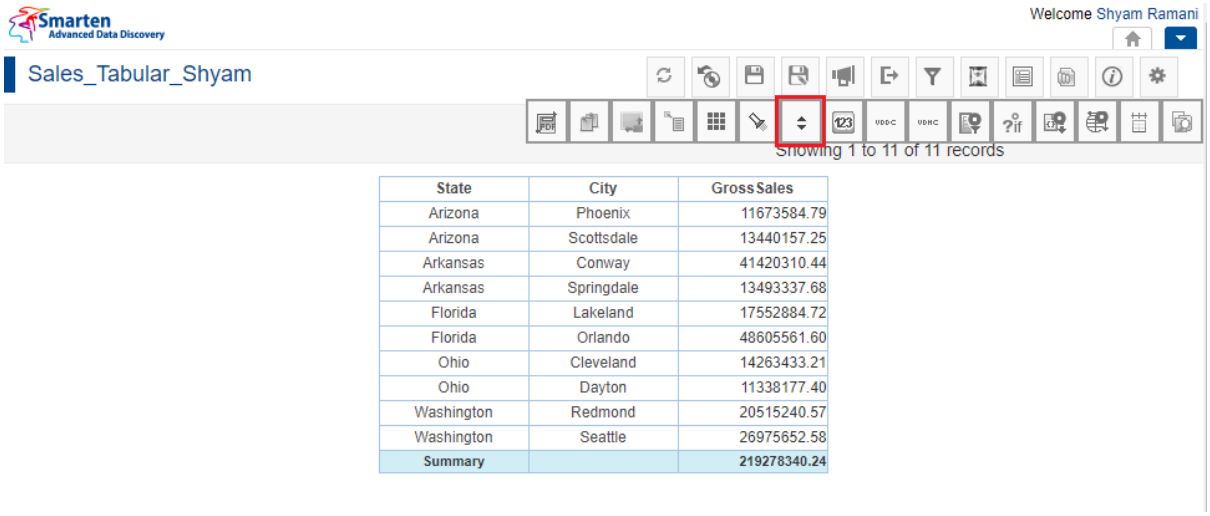
The system displays the Setting toolbar.



State	City	Gross Sales
Arizona	Phoenix	11673584.79
Arizona	Scottsdale	13440157.25
Arkansas	Conway	41420310.44
Arkansas	Springdale	13493337.68
Florida	Lakeland	17552884.72
Florida	Orlando	48605561.60
Ohio	Cleveland	14263433.21
Ohio	Dayton	11338177.40
Washington	Redmond	20515240.57
Washington	Seattle	26975652.58
Summary		**219278340.24**

TABULAR: THE SETTINGS TOOLBAR

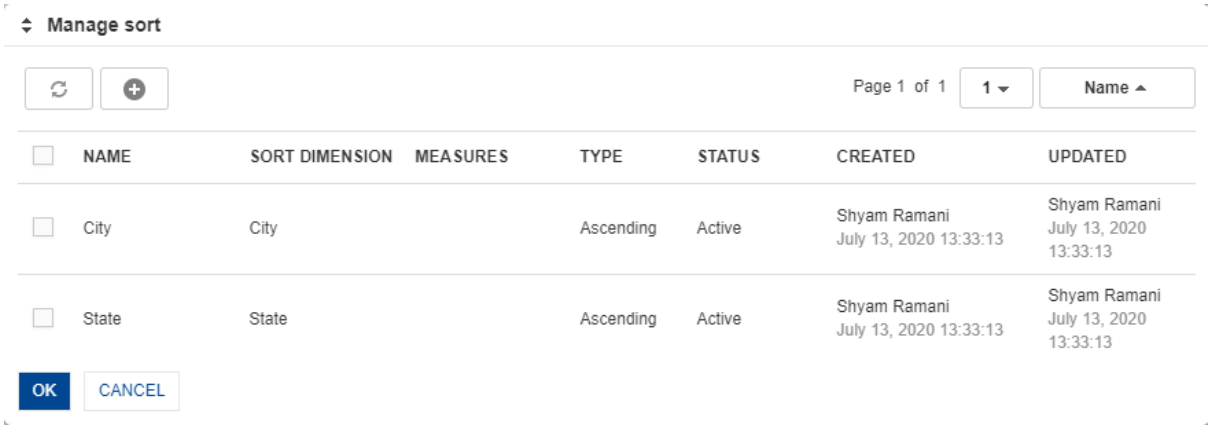
3. Click **Manage sort**.



State	City	Gross Sales
Arizona	Phoenix	11673584.79
Arizona	Scottsdale	13440157.25
Arkansas	Conway	41420310.44
Arkansas	Springdale	13493337.68
Florida	Lakeland	17552884.72
Florida	Orlando	48605561.60
Ohio	Cleveland	14263433.21
Ohio	Dayton	11338177.40
Washington	Redmond	20515240.57
Washington	Seattle	26975652.58
Summary		**219278340.24**

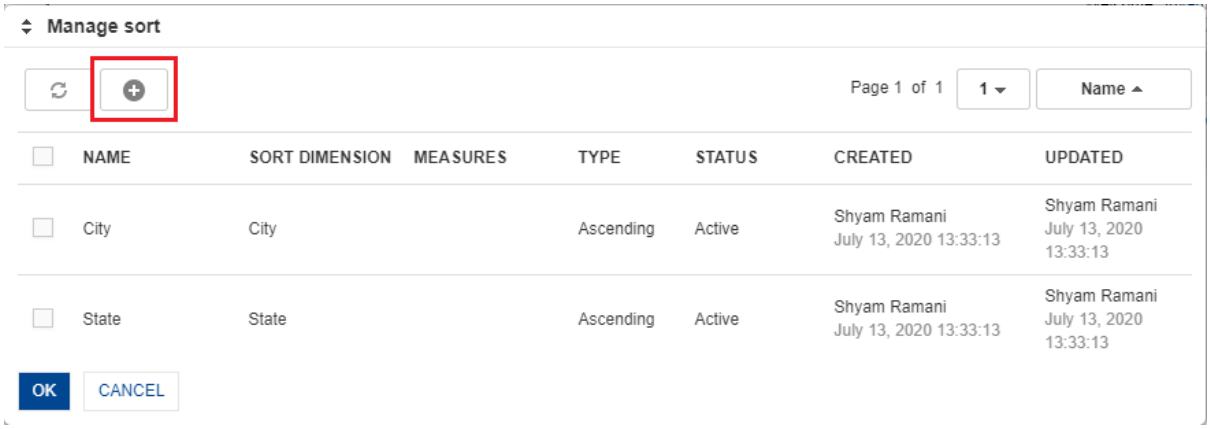
TABULAR: MANAGE SORT OPTION

The system displays the **Manage sort** dialog box.



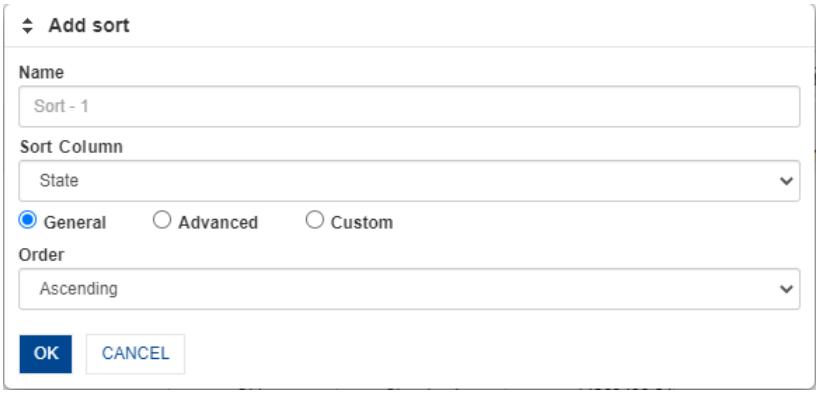
TABULAR: MANAGE SORT DIALOG BOX

4. In the **Manage sort** dialog box, click the **Add** icon.



TABULAR: THE ADD ICON

The system displays the **Add sort** dialog box.



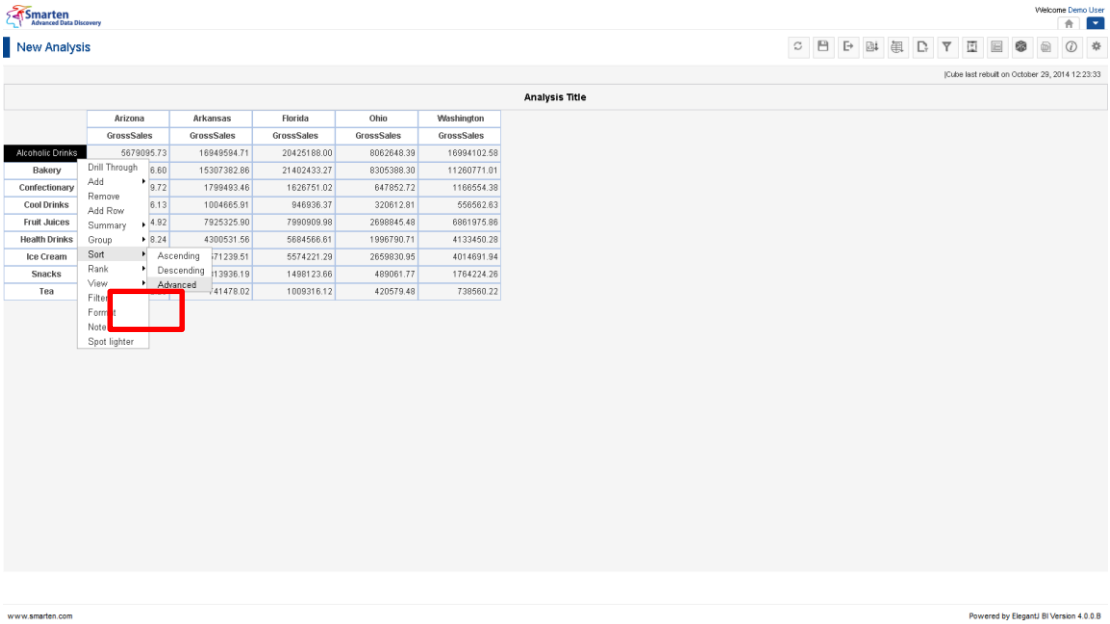
TABULAR: ADD SORT DIALOG

5. Enter a name for the sort in the **Name** field.
6. Select the column on which you want to apply sort from the **Sort Column** list.
   System will list down the dimensions and measures used in the object.
7. Select the **General** option.
8. Select an option from the **Order** list to specify the sort you want to apply.
   You can select either **Ascending** or **Descending** from the **Order** list.
9. Click **OK**.

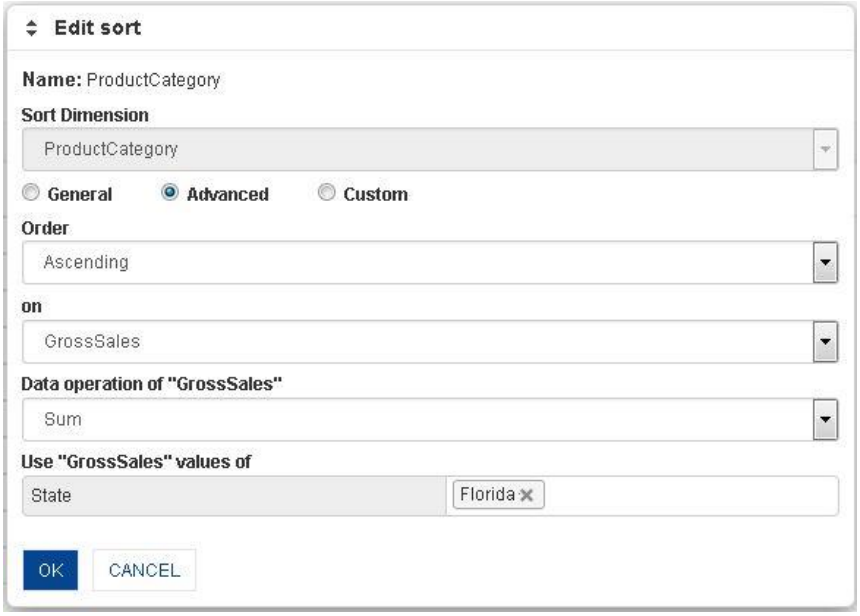
4.4.11.2 Advanced Sort

Procedure

1. Follow the **Procedure** of **Sort**.
2. In the submenu, select Advanced.
   The system displays the **Edit sort** dialog box.



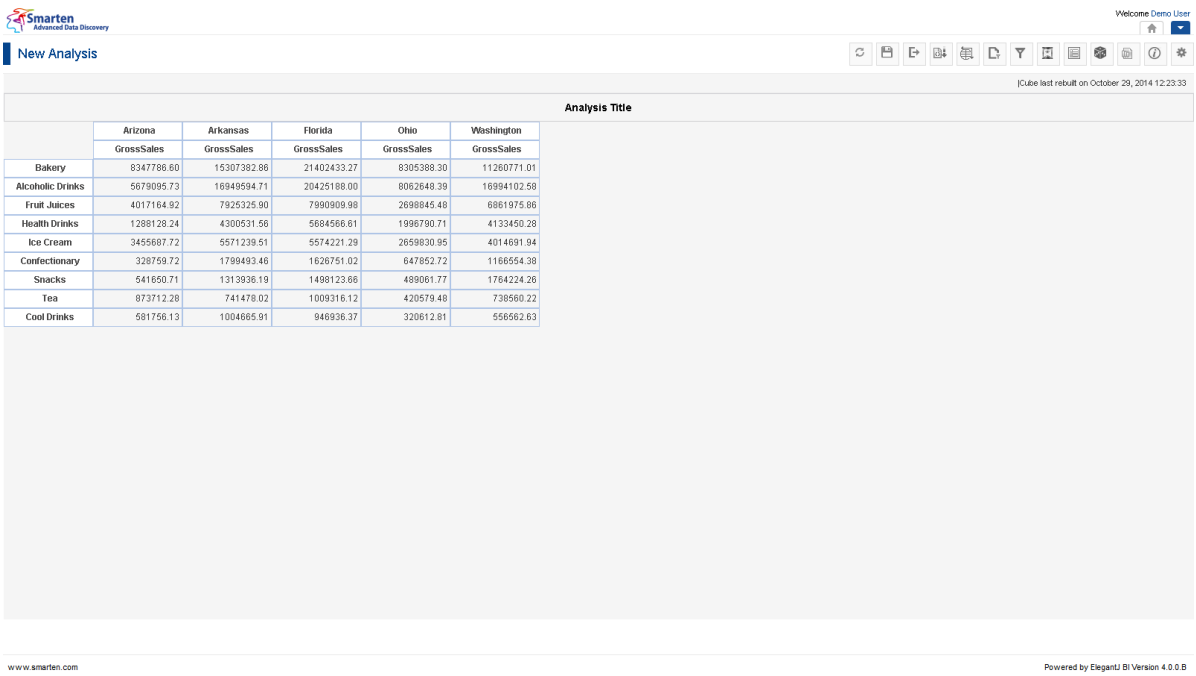
CROSSTAB: ADVANCED SORT LINK



CROSSTAB: ADVANCED SORT

3. In the **Edit sort** dialog box, select the **Advanced** radio button.
4. In the **Order** drop-down list select order, either Ascending or Descending.
5. In the **On** drop-down list, select a column.
6. In the **Data operation of On ''column"** drop-down list, select a function.
7. In the **Use ''column" value of** drop-down list, select a value to filter sort condition
8. Click **OK.**

Field	Dimension
Sort Dimension	The column on which sorting is to be performed
Order	Order for sorting the selected column—Ascending or Descending
On (Data Column)	A column on which sorting will be based
Data operation	Data operation for data column
Filter	Filter condition for sorting



	Arizona	Arkansas	Florida	Ohio	Washington
	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63

CROSSTAB: SORT PRODUCT CATEGORY BASED ON SUM OF GROSS SALES IN FLORIDA

Reference: **Concept Manual > Analytic Functions > Sort**

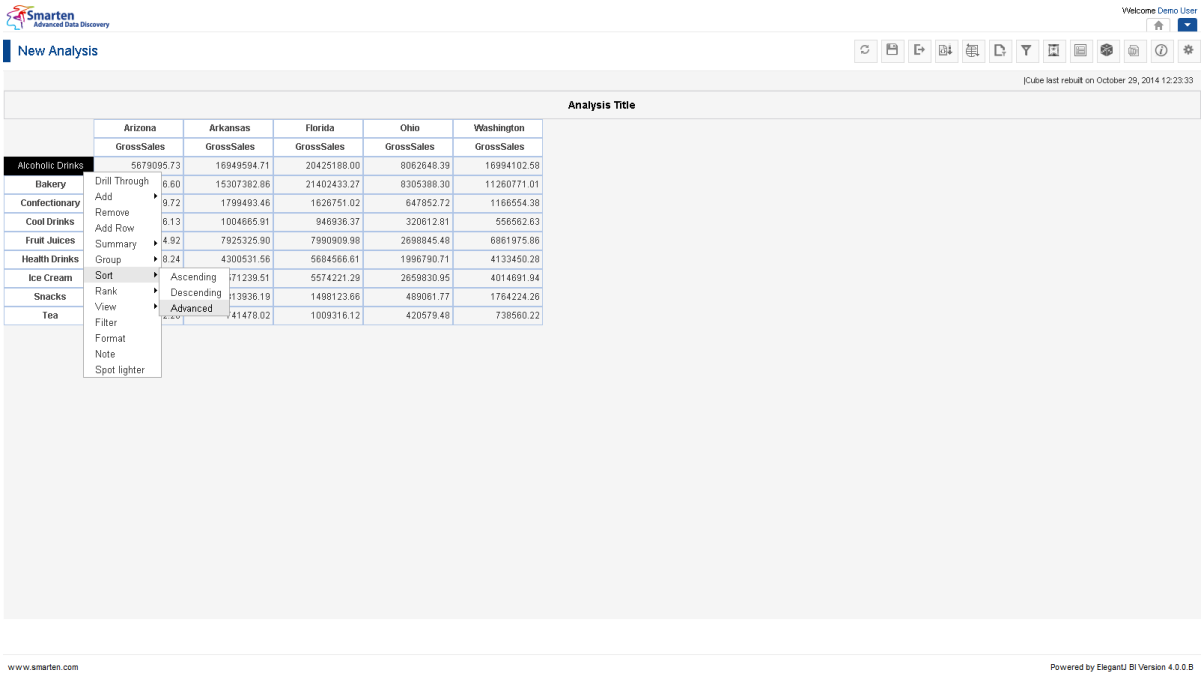
Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

4.4.11.3 Custom Sort

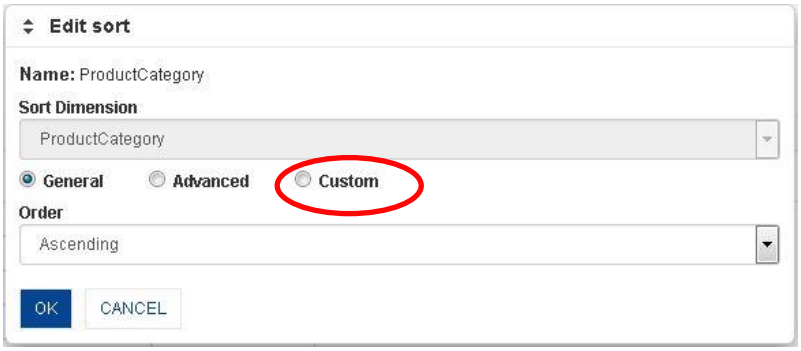
Custom sort option allows you to sort crosstab data as per your requirement.

Procedure

1. Follow the **Procedure** of **Sort**.
2. In the submenu, select Advanced.
   The system displays the **Edit sort** dialog box.

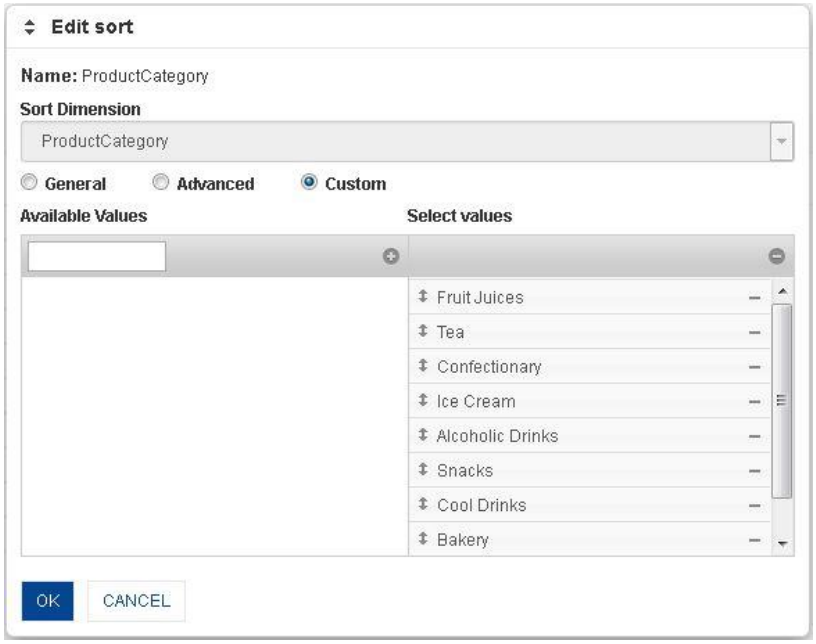


CROSSTAB: ADVANCED SORT LINK



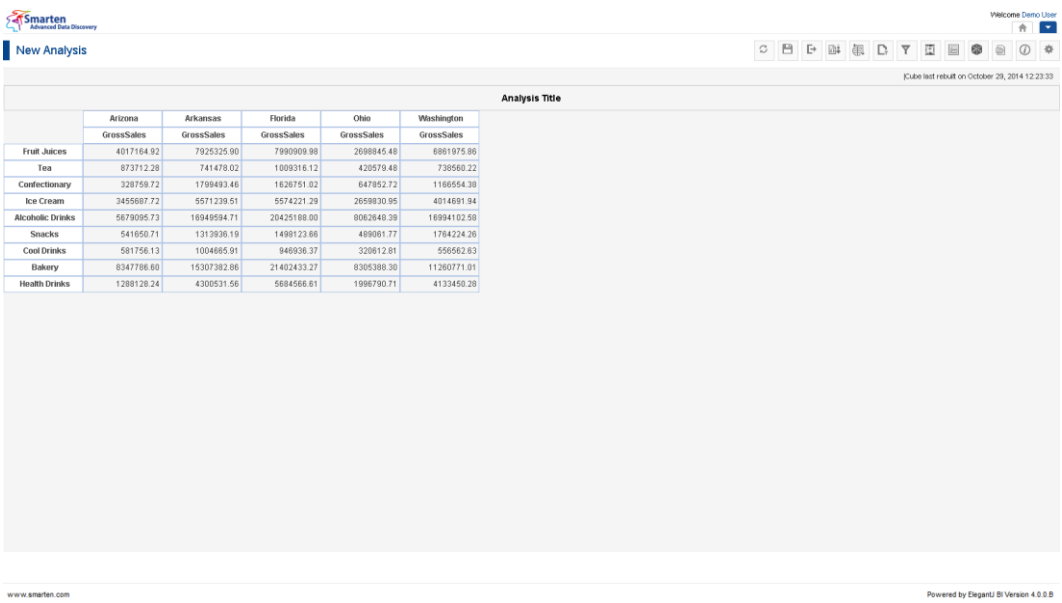
CROSSTAB: CUSTOM RADIO OPTION

3. In the **Edit sort** dialog box, select the **Custom** radio button.



CROSSTAB: DEFINE CUSTOM SORTING ORDER SEQUENCE

4. From the **Available Values** section, drag and drop the selected values to arrange sorting order from the **Select values** section.
5. From the **Select Values** section, move columns up and down to arrange sorting order of selected columns.
6. Click **OK**.



	Arizona	Arkansas	Florida	Ohio	Washington
	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Bakery	8347786.60	15307382.86	21402433.27	8305386.30	11260771.01
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28

CROSSTAB: AFTER CUSTOM SORT

Reference: **Concept Manual > Analytic Functions > Sort**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

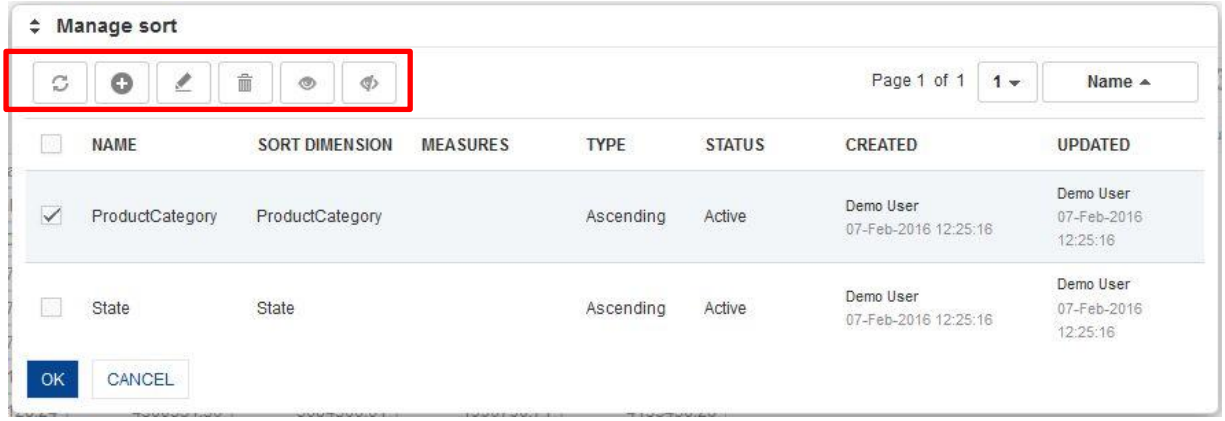
Note:

> You can select some or all columns for custom sort order. For example, if you select only 4 columns as available columns out of the available 10 columns, you can set custom order for these 4 available columns. As you have not given any custom sort for the other 6 columns, these columns will be displayed after the first 4 selected columns (as per the order given in custom order dialogue) in the default order. To put it simply, if from columns C1–C10 you select C1, C4, and C5 in custom columns and assign order like C5, C1, C4. In this case, columns will be displayed as C5, C1, C4, C2, C3, C6, C7, C8, C9, C10.

4.4.11.4 Create & Manage Templates

Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage sort.**
   The system displays the **Manage sort** dialog box. Select a checkbox in front of a sort name.
   The system displays a toolbar for managing sort template.



CROSSTAB: CREATE AND MANAGE SORT TEMPLATE

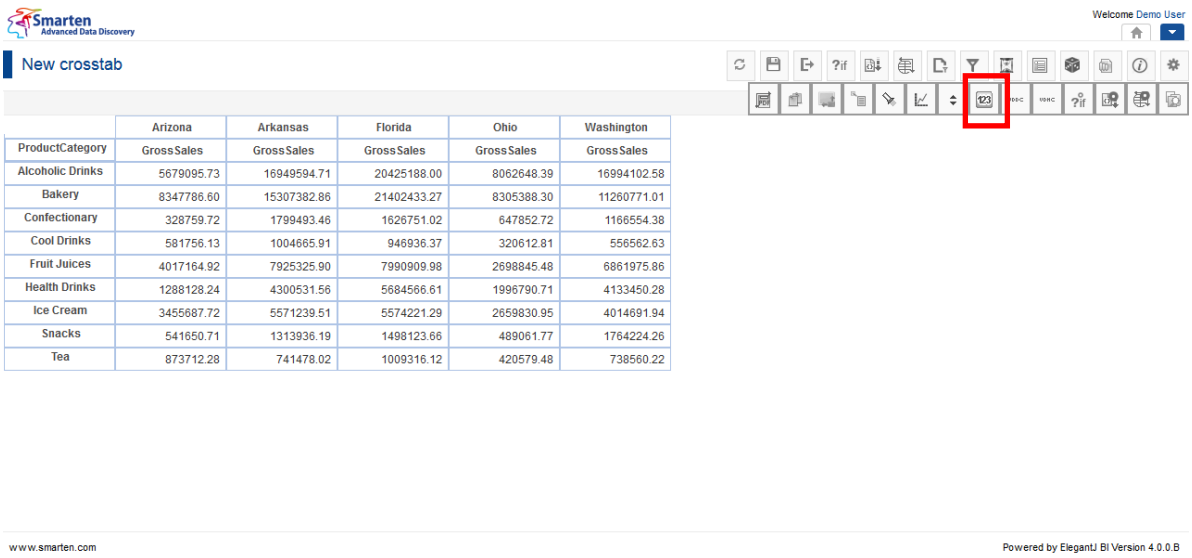
CROSSTAB: CREATE AND MANAGE SORT TEMPLATE TOOLBAR

Icon	Icon name
	Refresh
	Add
	Edit
	Delete
	Active
	Inactive

CROSSTAB: CREATE AND MANAGE SORT TEMPLATE TOOLBAR OPTIONS

4.4.12 Rank

This option is used to assign ranks to data rows or columns. You can analyse and compare data based on top-bottom, high-low, or maximum and minimum ranking.

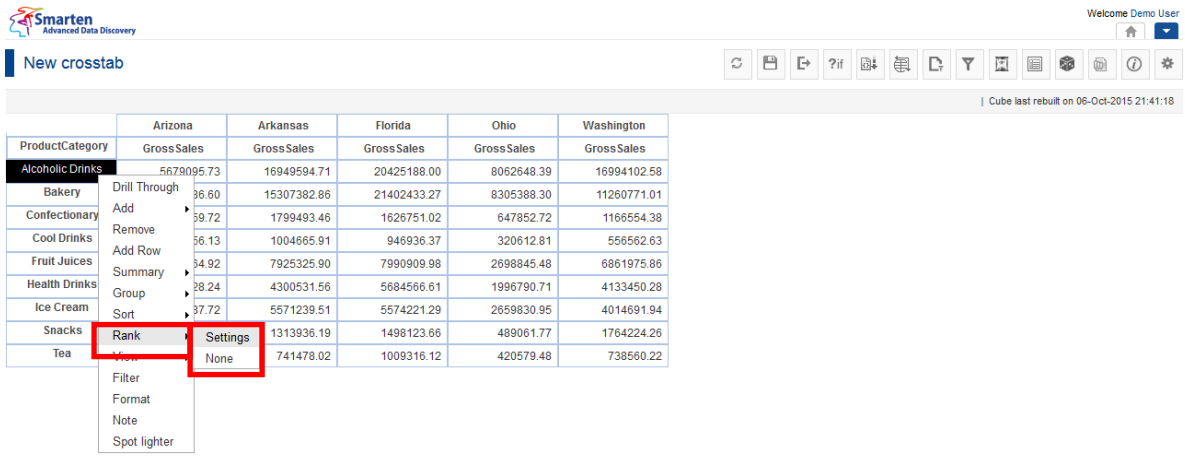


	Arizona	Arkansas	Florida	Ohio	Washington
ProductCategory	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

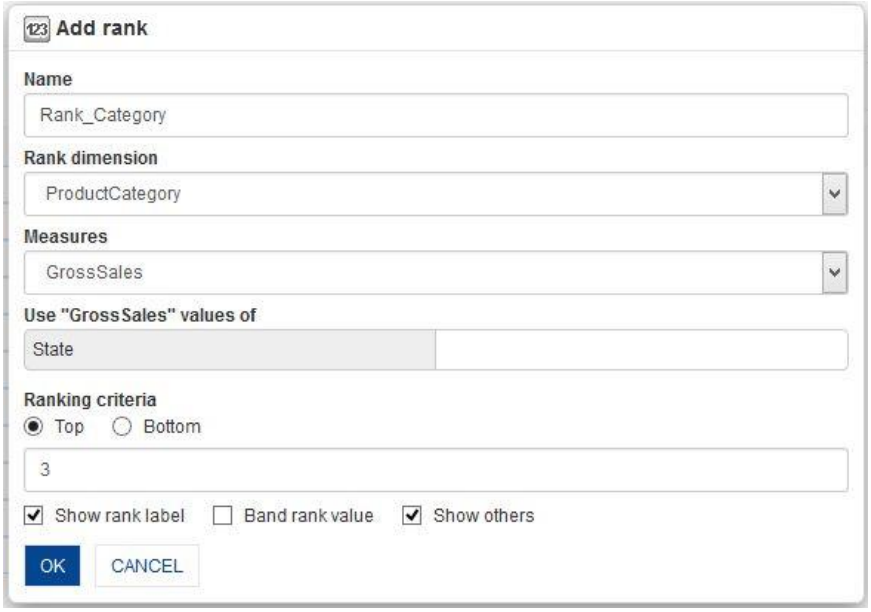
CROSSTAB: RANK SETTTING

Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. You can assign rank from the Crosstab Toolbar.
   Or
   In the crosstab, right-click on a specific cell.
   The system displays the menu.
3. In the menu, select **Rank.**
   The system displays the submenu with options such as Settings and None.
4. In the submenu, select **Settings.**
   The system displays the **Add rank** dialog box.

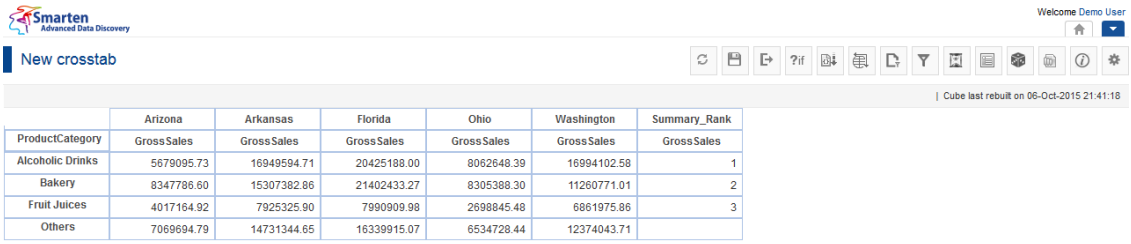


CROSSTAB: RANK SETTTING



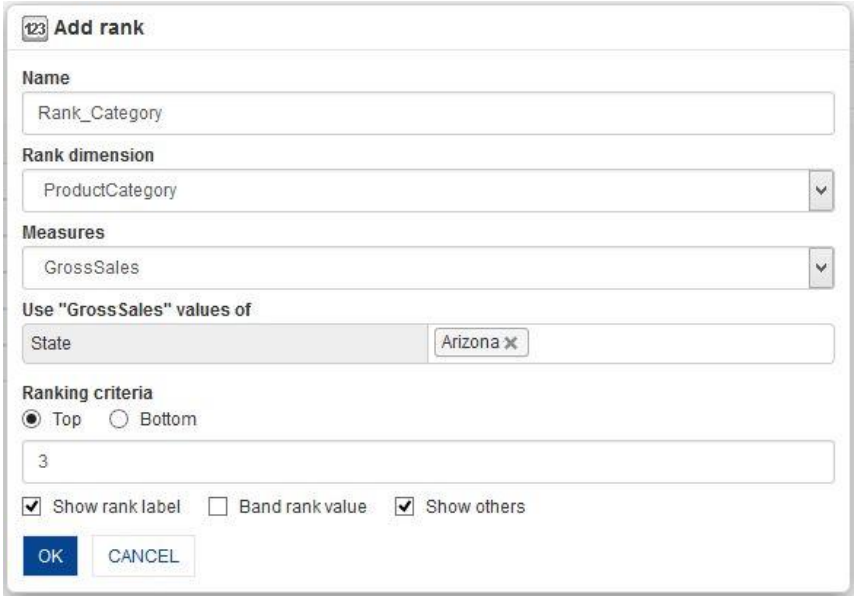
CROSSTAB: RANK: WITH SHOW OTHERS AND WITHOUT FILTER COLUMN

5. In the **Name** field, enter a name.
6. In the **Rank dimension** drop-down list, select a dimension.
7. In the **Measure** drop-down list, select a measure.
8. In the **Use "Measure" values of** field, select a dimension.
9. In the **Ranking Criteria** section, select a radio button, either Top or Bottom.
10. In the **Ranking Criteria** section, enter a value in the field.
11. Select the **Show rank label** checkbox to show rank number column for ranks.
12. Select the **Band rank value** checkbox to apply band ranking.
13. Select the **Show others** checkbox to show others column.
14. Click **OK.**



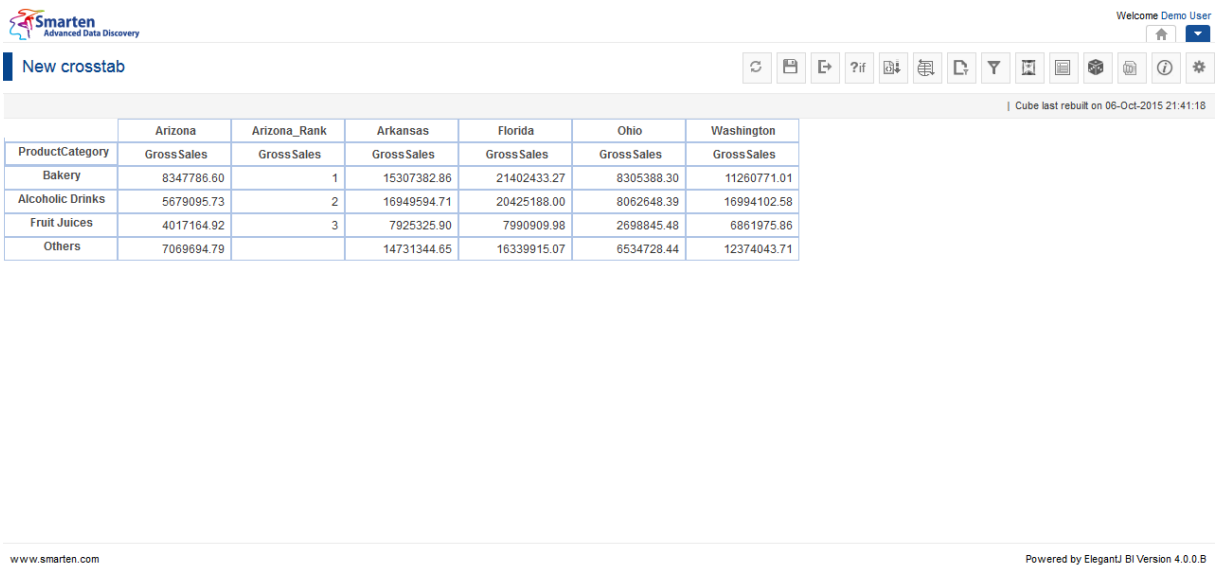
	Arizona	Arkansas	Florida	Ohio	Washington	Summary_Rank
ProductCategory	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58	1
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01	2
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86	3
Others	7069694.79	14731344.65	16339915.07	6534728.44	12374043.71	

CROSSTAB: RANK: APPLIED WITHOUT SPECIFYING FILTER COLUMN



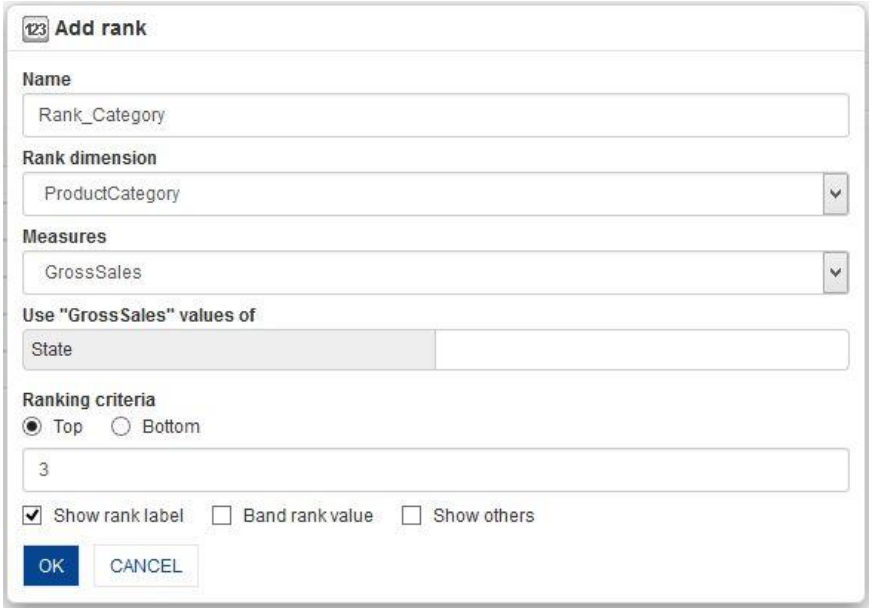
CROSSTAB: RANKING WITH SHOW OTHERS AND WITH FILTER COLUMN

Field	Description
Rank Name	Name of Rank
Rank Dimension	The Column on which ranking is to be applied
Measure	Data column for which ranking operation is to be performed
Filter	Filter condition for ranking
Ranking criteria	Select Rank criteria Top N / Bottom N
Show rank label	Show Ranks in different row/column
Show others	Show others column in row/column

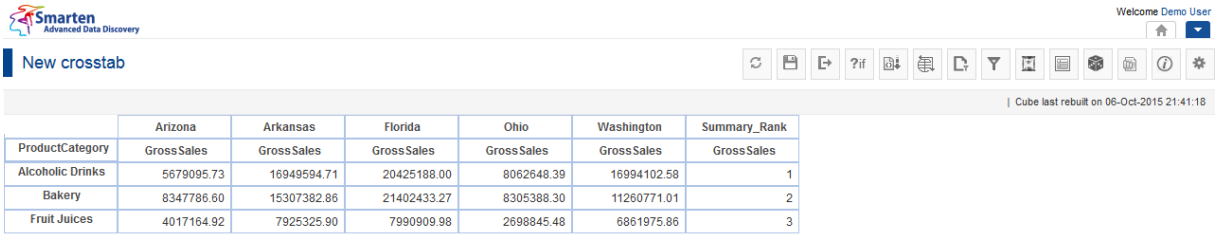


	Arizona	Arizona_Rank	Arkansas	Florida	Ohio	Washington
ProductCategory	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Bakery	8347786.60	1	15307382.86	21402433.27	8305388.30	11260771.01
Alcoholic Drinks	5679095.73	2	16949594.71	20425188.00	8062648.39	16994102.58
Fruit Juices	4017164.92	3	7925325.90	7990909.98	2698845.48	6861975.86
Others	7069694.79		14731344.65	16339915.07	6534728.44	12374043.71

CROSSTAB: RANK TOP 3 PRODUCT CATEGORIES BASED ON GROSS SALES FOR ARIZONA



CROSSTAB: RANKING WITHOUT SHOW OTHERS



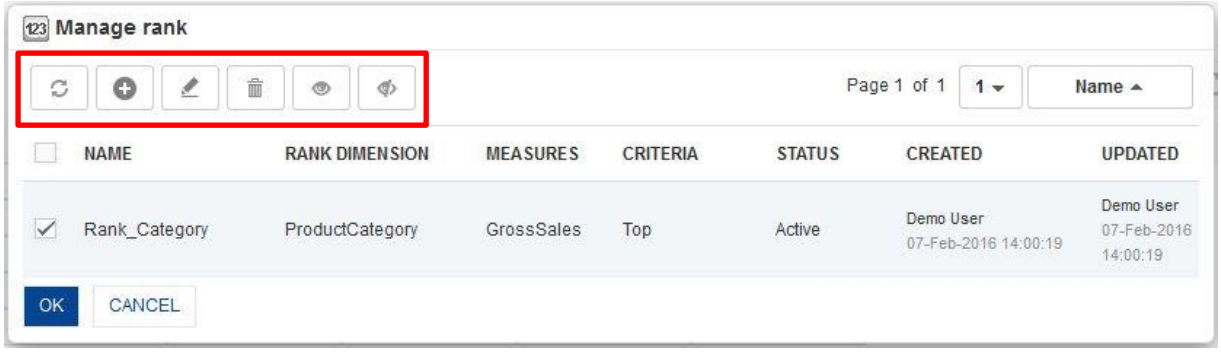
	Arizona	Arkansas	Florida	Ohio	Washington	Summary_Rank
ProductCategory	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58	1
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01	2
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86	3

CROSSTAB: RANK: APPLIED WITHOUT SHOW OTHRES OPTION

4.4.12.1 Create & Manage Templates

Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage Rank.**
   The system displays the **Manage Rank** dialog box. Select a checkbox in front of a rank name.
   The system displays a toolbar for managing rank template.



CROSSTAB: CREATE AND MANAGE RANK TEMPLATE

CROSSTAB: CREATE AND MANAGE RANK TEMPLATE TOOLBAR

Icon	Icon name
	Refresh
	Add
	Edit
	Delete
	Active
	Inactive

CROSSTAB: CREATE AND MANAGE RANK TEMPLATE TOOLBAR OPTIONS

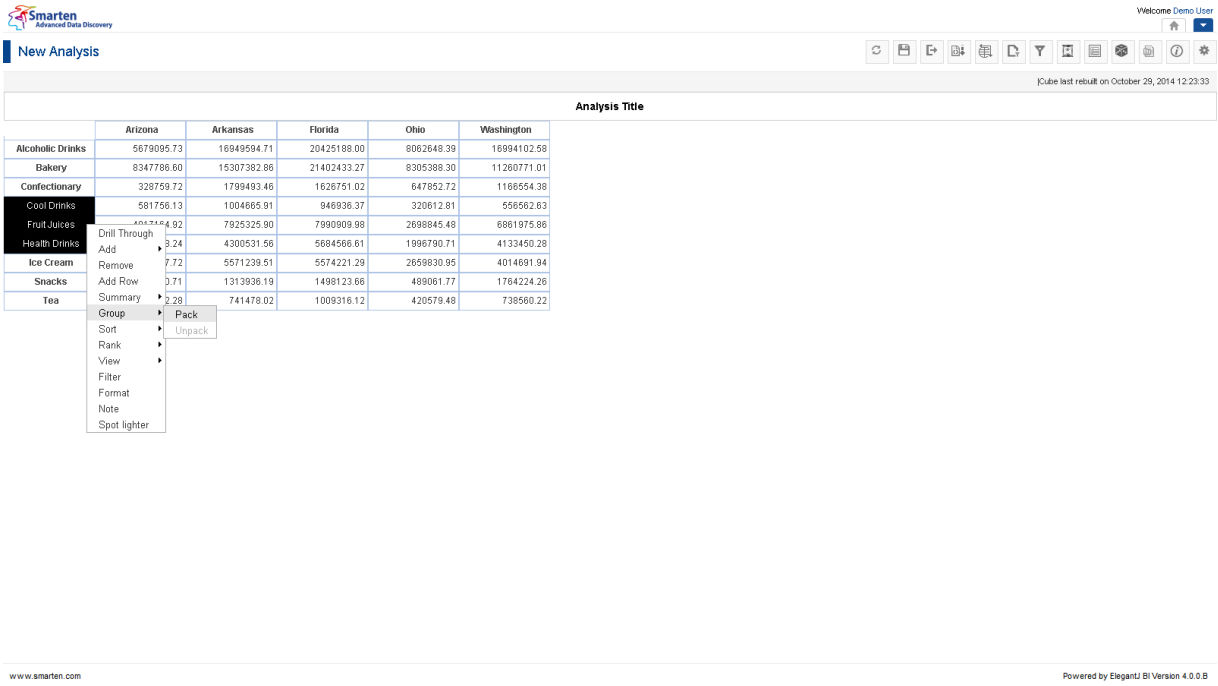
Reference: **Concept Manual > Filters and Expressions > Rank**

4.4.13 Group/Ungroup

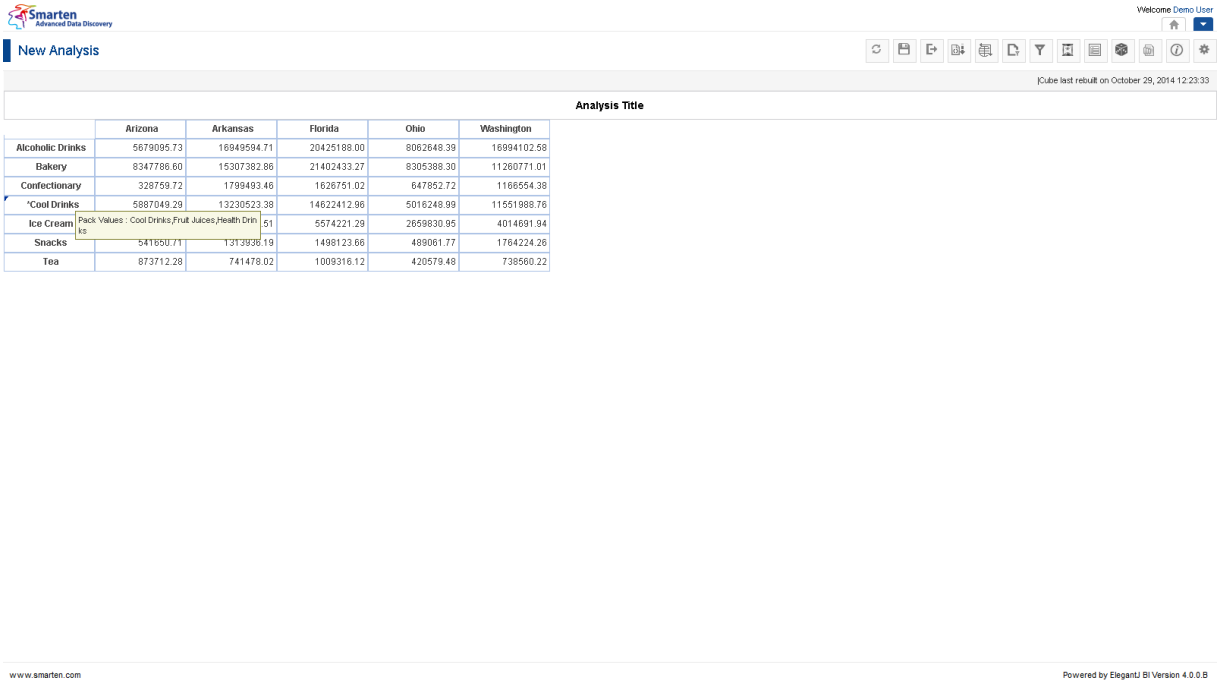
This option is used to pack or unpack the values in the crosstab. Using Grouping, you can merge selective cells into one cell. Ungrouping can be used to demerge grouped data.

Procedure

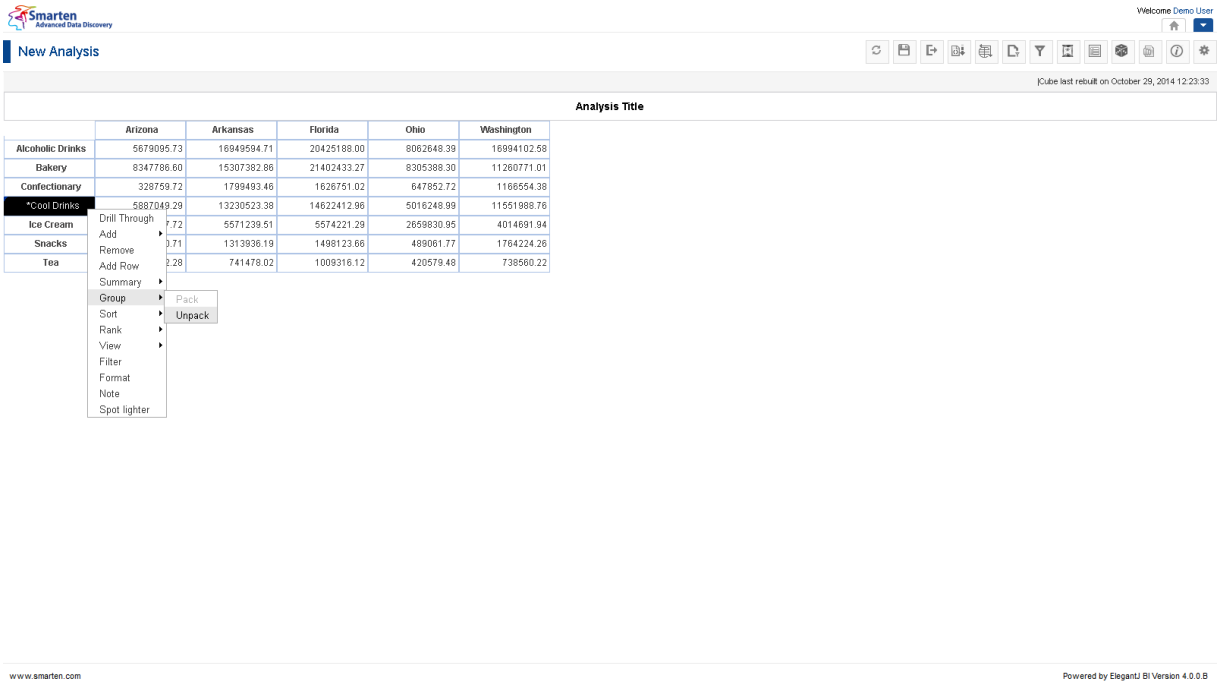
1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the crosstab, select multiple rows or columns by using **Ctrl** key.
3. Right-click on the selected row dimension or column dimension.
4. Select **Group.**
   The system displays the submenu with **Pack** and **Unpack** options.
5. Select **Pack** option to group the data.
   Grouped item will have star on left-top side.
6. Select **Unpack** option to ungroup the data.



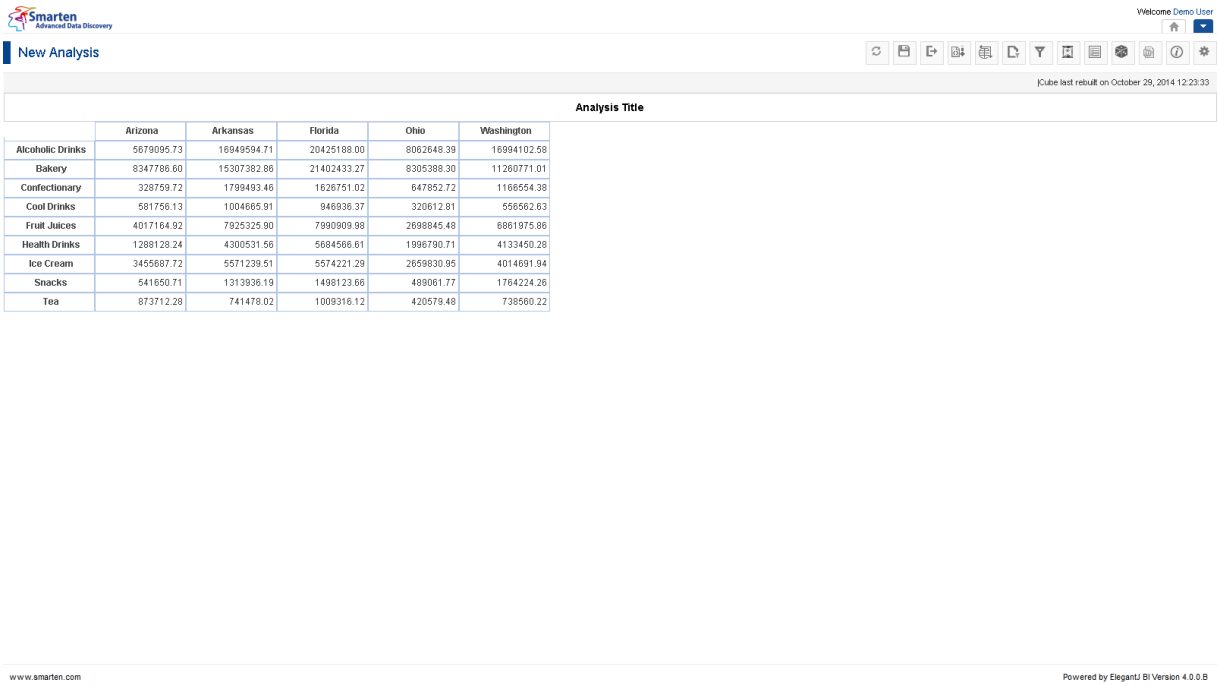
CROSSTAB: OPERATION: GROUP PACK



CROSSTAB: GROUP: SELECTED PRODUCT ROWS WITH PACK OPTION



CROSSTAB: OPERATION: GROUP UNPACK



CROSSTAB: GROUP SELECTED PRODUCT ROWS WITH UNPACK OPTION

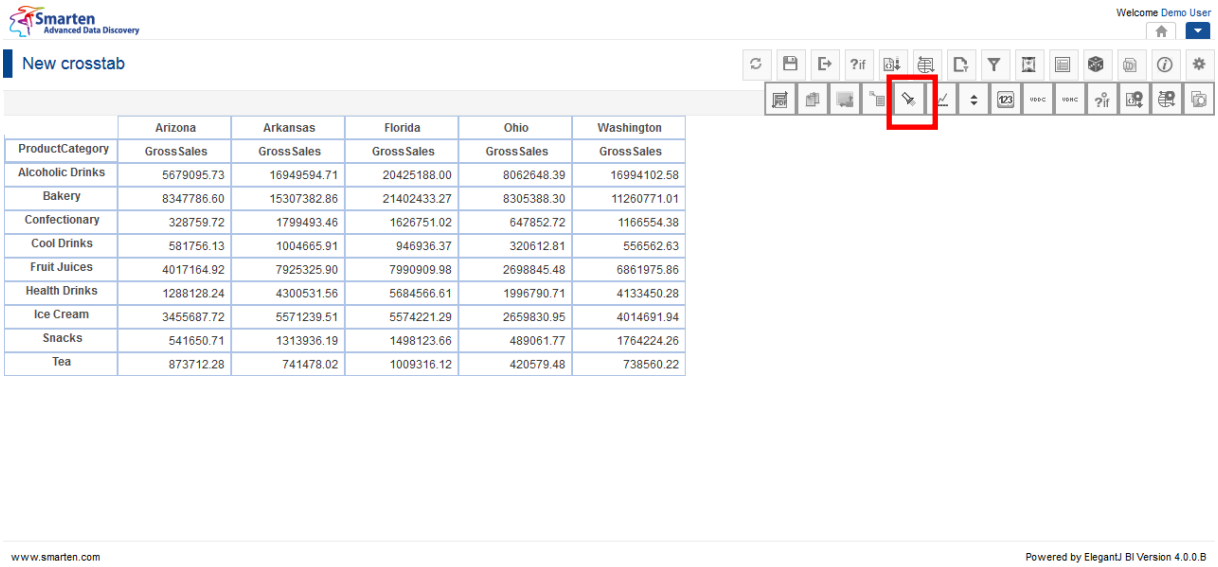
Reference: **Concept Manual > Analytic Functions > Group & Ungroup**

4.4.14 Spotlighter

Spotlighter is used to highlight specific cells based on conditional values to view data patterns at a glance. You can highlight multiple cells. You can assign background colour, text colour, font style, and alternative text to highlight the cell.

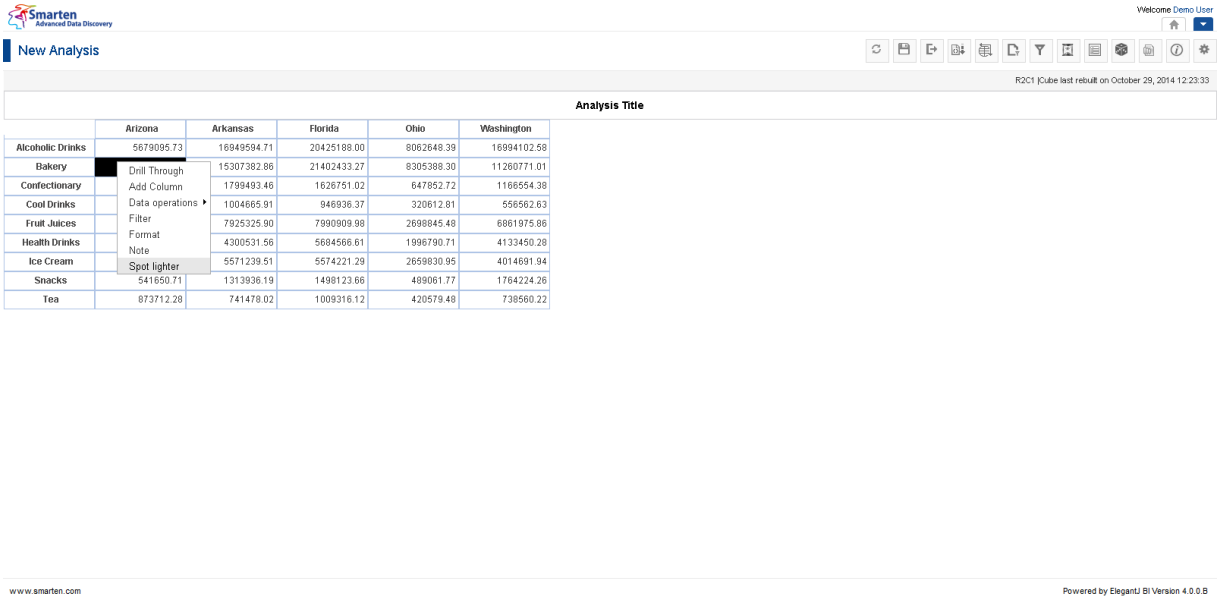
Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. You can apply spotlighter from the Crosstab Toolbar.
   Or
   In the crosstab, right-click on a specific cell.
   The system displays the menu.
3. In the menu, select **Spotlighter.**
   The system displays the **Add Spotlighters** dialog box.



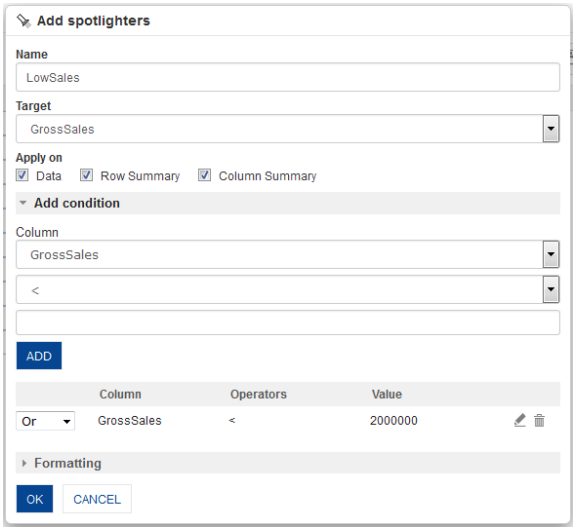
	Arizona	Arkansas	Florida	Ohio	Washington
ProductCategory	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

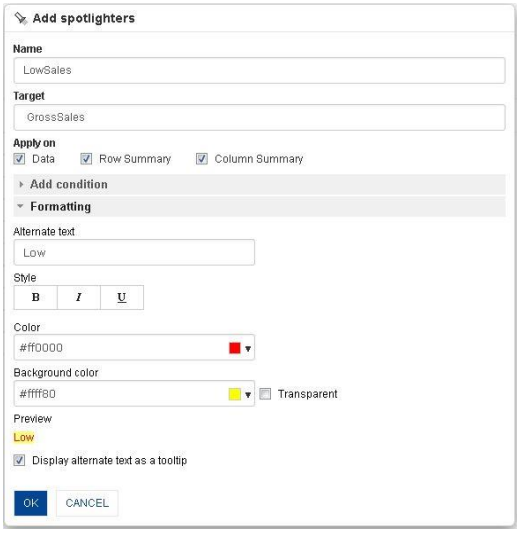
CROSSTAB: SPOTLIGHTER



	Arizona	Arkansas	Florida	Ohio	Washington
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	[illegible]	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	[illegible]	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	[illegible]	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	[illegible]	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	[illegible]	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	[illegible]	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

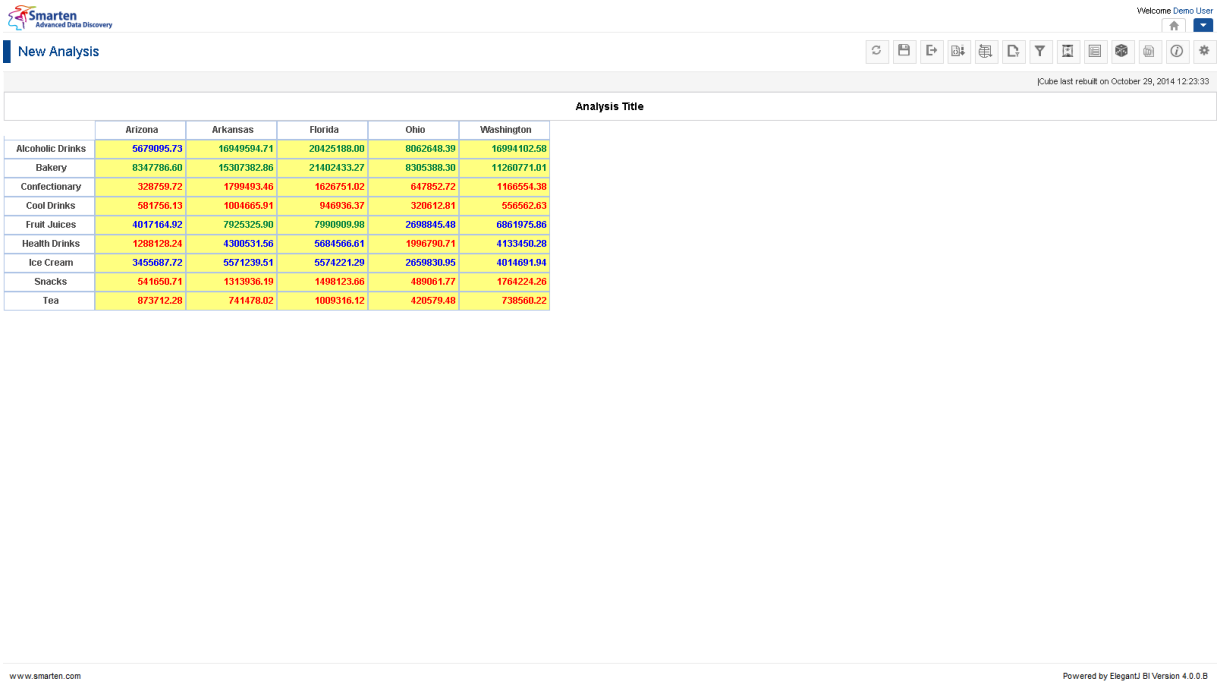
CROSSTAB: ADD SPOTLIGHTER





CROSSTAB: ADD SPOTLIGHTER

4. In the **Name** field, enter a name.
5. In the **Target** drop-down list, select a value.
6. In the **Apply on** section, select appropriate checkbox (Data, Row Summary, and Column Summary)
7. In the **Add Condition** section, select a value from the **Column** drop-down list.
8. In the **Operator** drop-down list, select an operator.
9. In the drop-down list, select a value.
10. Click **ADD.** You can also include multiple conditions by clicking **Add.**
    The system displays the column name, selected operator, value and operator dropdown.
    You can edit the condition by clicking **Edit** icon.
    You can also delete the added condition by clicking **Delete** icon.
11. In the **Formatting** section, enter value in the **Alternate text** field.
12. In the **Style** field, select style (Bold, Italics, and Underline)
13. In the **Colour** field, select a colour.
14. In the **Background colour** field, select a colour.
    The **Preview** section displays the alternate text as it would appear on screen.
15. Select the **Display alternate text as a tooltip** checkbox if needed.
16. Click **OK.**



	Arizona	Arkansas	Florida	Ohio	Washington
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

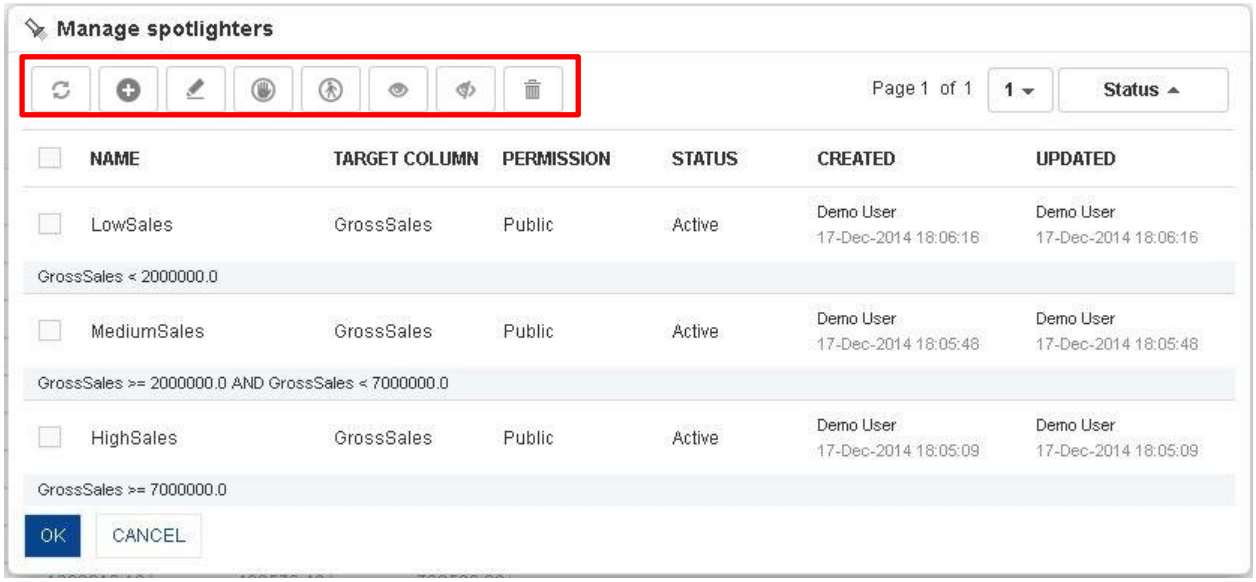
CROSSTAB: SPOTLIGHTER ON GROSS SALES

4.4.14.1 Create & Manage Templates

The created **Spotlighter** conditions can be saved in the **Spotlighter** template. These conditions can be reused by various users while creating different crosstab.

Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage Spotlighters.**
   The system displays the **Manage Spotlighters** dialog box. Select a checkbox in front of a spotlighter name.
   The system displays a toolbar for managing spotlighters template.



CROSSTAB: CREATE AND MANAGE SPOTLIGHTERS TEMPLATE

CROSSTAB: CREATE AND MANAGE SPOTLIGHTERS TEMPLATE TOOLBAR

Icon	Icon name
	Refresh
	Add
	Edit
	Private
	Public
	Active
	Inactive
	Delete

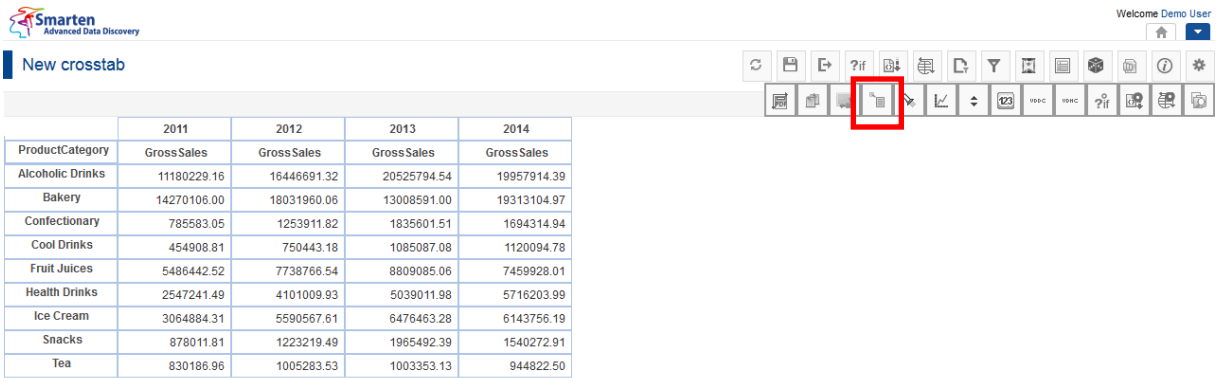
CROSSTAB: CREATE AND MANAGE SPOTLIGHTERS TEMPLATE TOOLBAR OPTIONS

Note:
Templates can be edited or deleted only by creator of the template or the administrator.

Reference: **Concept Manual > Analytic Functions > Spotlighter**

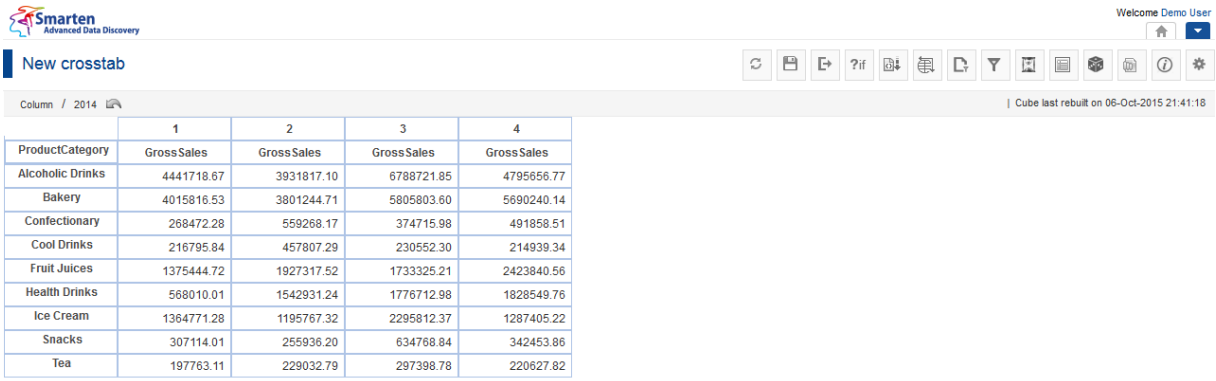
4.4.15 Data Value/Display Value Mapping

Use Data value/display value mapping to display alternate text for specific data values.



	2011	2012	2013	2014
ProductCategory	Gross Sales	Gross Sales	Gross Sales	Gross Sales
Alcoholic Drinks	11180229.16	16446691.32	20525794.54	19957914.39
Bakery	14270106.00	18031960.06	13008591.00	19313104.97
Confectionary	785583.05	1253911.82	1835601.51	1694314.94
Cool Drinks	454908.81	750443.18	1085087.08	1120094.78
Fruit Juices	5486442.52	7738766.54	8809085.06	7459928.01
Health Drinks	2547241.49	4101009.93	5039011.98	5716203.99
Ice Cream	3064884.31	5590567.61	6476463.28	6143756.19
Snacks	878011.81	1223219.49	1965492.39	1540272.91
Tea	830186.96	1005283.53	1003353.13	944822.50

CROSSTAB: DDVM ICON

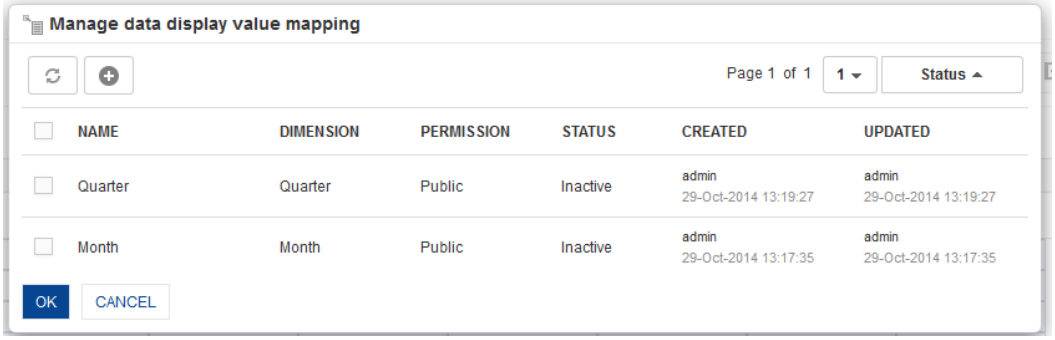


	1	2	3	4
ProductCategory	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	4441718.67	3931817.10	6788721.85	4795656.77
Bakery	4015816.53	3801244.71	5805803.60	5690240.14
Confectionary	268472.28	559268.17	374715.98	491858.51
Cool Drinks	216795.84	457807.29	230552.30	214939.34
Fruit Juices	1375444.72	1927317.52	1733325.21	2423840.56
Health Drinks	568010.01	1542931.24	1776712.98	1828549.76
Ice Cream	1364771.28	1195767.32	2295812.37	1287405.22
Snacks	307114.01	255936.20	634768.84	342453.86
Tea	197763.11	229032.79	297398.78	220627.82

CROSSTAB: BEFORE APPLYING DATA VALUE DISPLAY VALUE MAPPING

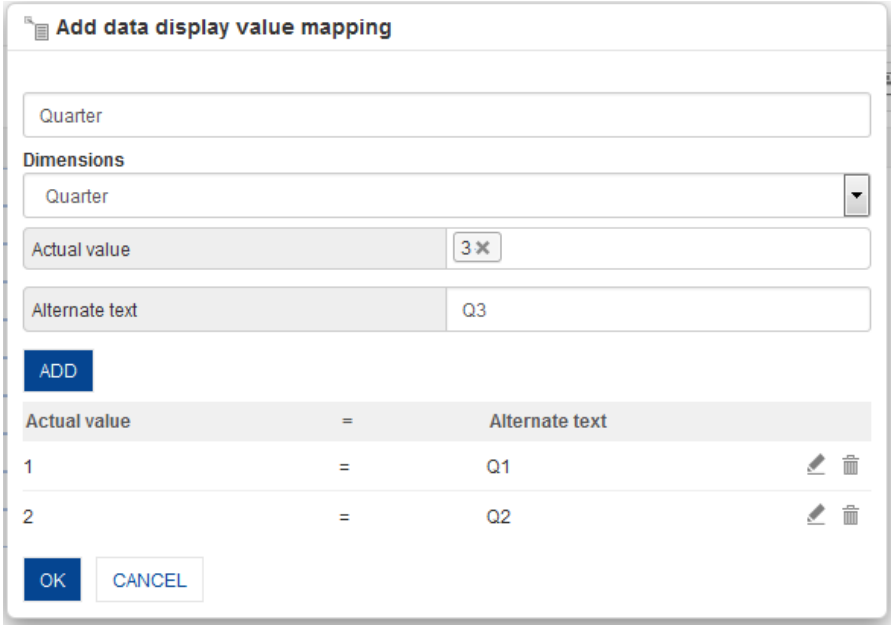
Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage data display value mapping.**
   The system displays the **Manage data display value mapping** dialog box.



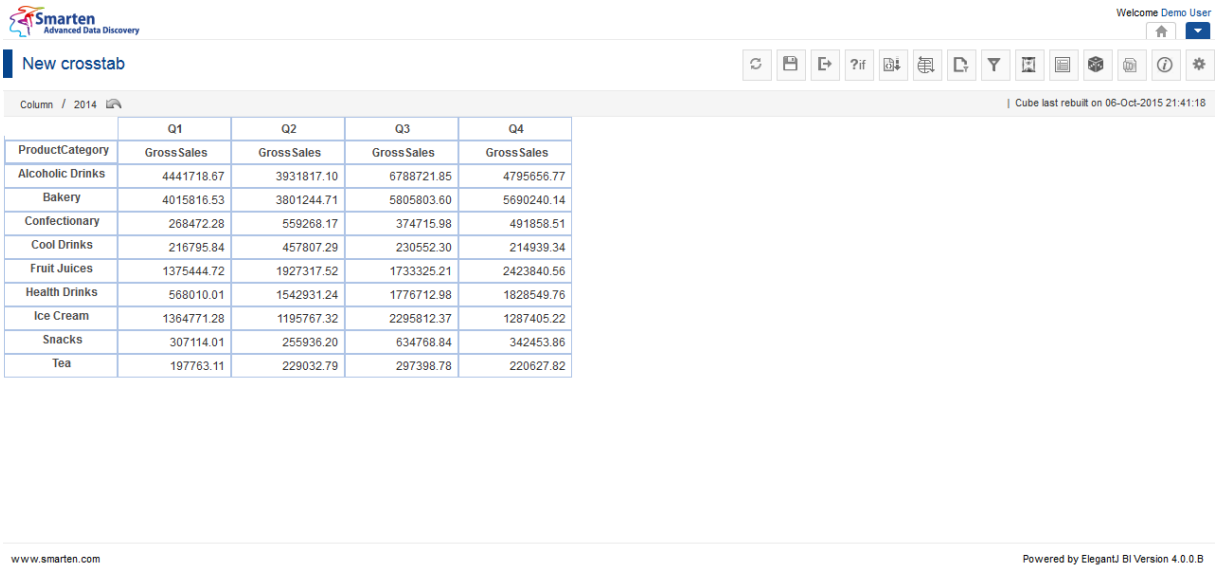
CROSSTAB: MANAGE DATA DISPLAY VALUE MAPPING

4. In the **Manage data display value mapping** dialog box, click **Add** icon.
   The system displays the **Add data display value mapping** dialog box.



CROSSTAB: MAP DATA VALUE: MAPPING DATA VALUE

5. In the **name** field, enter a name.
6. In the **Dimension** drop-down list, select a dimension.
7. In the **Actual value** field, select a value.
8. In the **Alternate text** field, enter a value.
9. Click **ADD.**
   The system displays the selected values.
   You can edit the condition by clicking **Edit** icon.
   You can also delete the added values by clicking **Delete** icon.
10. Click **OK.**



	Q1	Q2	Q3	Q4
ProductCategory	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	4441718.67	3931817.10	6788721.85	4795656.77
Bakery	4015816.53	3801244.71	5805803.60	5690240.14
Confectionary	268472.28	559268.17	374715.98	491858.51
Cool Drinks	216795.84	457807.29	230552.30	214939.34
Fruit Juices	1375444.72	1927317.52	1733325.21	2423840.56
Health Drinks	568010.01	1542931.24	1776712.98	1828549.76
Ice Cream	1364771.28	1195767.32	2295812.37	1287405.22
Snacks	307114.01	255936.20	634768.84	342453.86
Tea	197763.11	229032.79	297398.78	220627.82

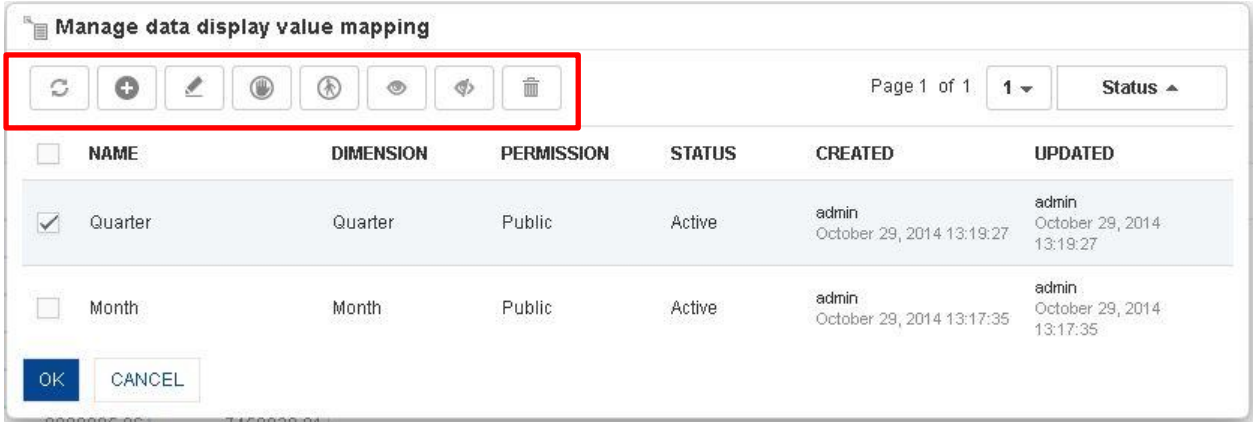
CROSSTAB: AFTER APPLYING DATA VALUE DISPLAY VALUE MAPPING

4.4.15.1 Create and Manage Templates

The Data display value mapping operation is available as templates in Smarten. The conditions available in templates can be reused by various users while mapping value with data for different crosstab.

Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage data display value mapping.**
   The system displays the **Manage data display value mapping** dialog box.
4. In the **Manage data display value mapping** dialog box, select a checkbox in front of a DDVM name.
   The system displays a toolbar for managing tool template.



CROSSTAB: CREATE AND MANAGE DATA DISPLAY VALUE MAPPING TEMPLATES

CROSSTAB: CREATE AND MANAGE DATA DISPLAY VALUE MAPPING TOOLBAR

Icon	Icon name
	Refresh
	Add
	Edit
	Private
	Public
	Active
	Inactive
	Delete

CROSSTAB: CREATE AND MANAGE DATA DISPLAY VALUE MAPPING TOOLBAR OPTIONS

Note:
Templates can be edited or deleted only by creator of the template or the administrator.

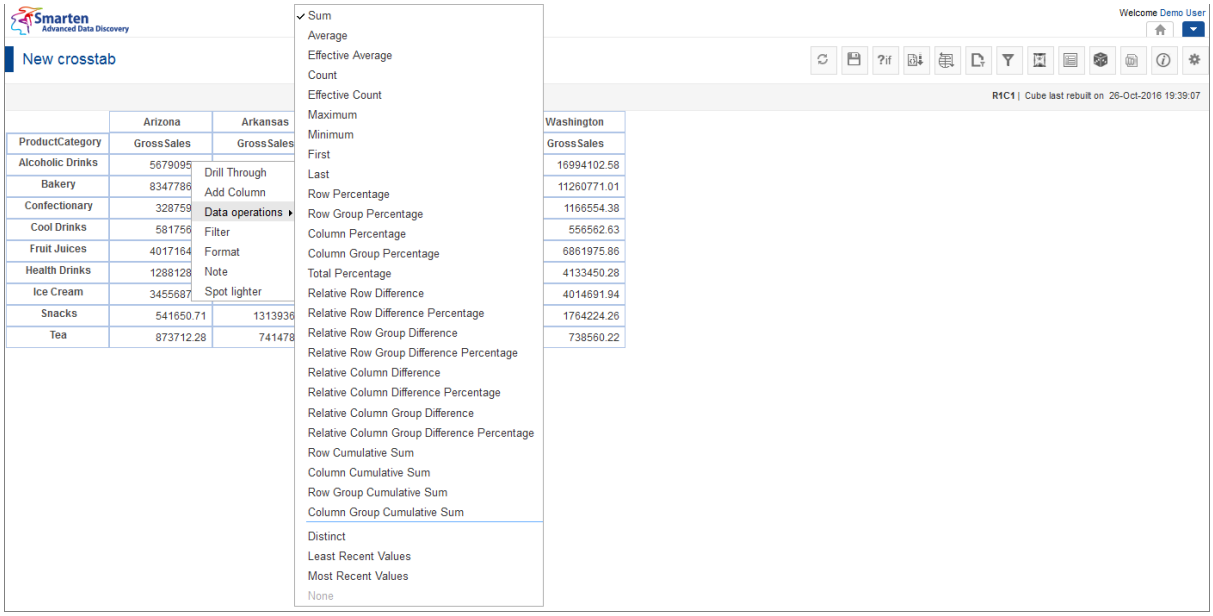
Reference: **Concept Manual > Analytic Functions > Data Value / Display Value Mapping**

4.4.16 Data Operations

The Data Operation function is used to perform various operations on any data in the crosstab. You can perform Sum, Average, Effective Average, Count, Effective Count, and other available data operations on any number of columns in crosstab.

Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the crosstab, right-click on a specific cell in column dimension.
   The system displays the menu with various options.
3. Select **Data operations.**
   The system displays the submenu with a list of data operations.



CROSSTAB: DATA OPERATIONS LIST

Smarten Advanced Data Discovery

Welcome Demo User

New crosstab

| Cube last rebuilt on 06-Oct-2015 21:41:18

	Arizona	Arkansas	Florida	Ohio	Washington
ProductCategory	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

CROSSTAB: DATA OPERATION: SUM OF GROSS SALES

Smarten Advanced Data Discovery

Welcome Demo User

New crosstab

| Cube last rebuilt on 06-Oct-2015 21:41:18

	Arizona	Arkansas	Florida	Ohio	Washington
ProductCategory	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	53576.37	71517.28	63235.88	56779.21	53778.81
Bakery	53511.45	71197.13	79562.95	67523.48	56586.79
Confectionary	7645.57	12672.49	8841.04	10122.70	9721.29
Cool Drinks	7969.26	8234.97	5881.59	5829.32	6471.66
Fruit Juices	26428.72	26242.80	22962.38	22304.51	22721.77
Health Drinks	17645.59	25598.40	23985.51	23771.32	22587.16
Ice Cream	23192.54	26656.65	22751.92	22929.58	19973.59
Snacks	12896.45	11041.48	9856.08	7888.09	12972.24
Tea	6067.45	5185.16	5902.43	4381.04	4704.21

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CROSSTAB: DATA OPERATION: AVERAGE OF GROSS SALES

You can select from the available data operations:

- **Sum:** Total/Sum of all values across row or column in the crosstab
- **Average:** Average of all values at the cube record level
- **Effective Average:** Average of all "not null" values at the cube record level
- **Count:** Count of all values at cube record level
- **Effective count:** Count of all not null values at cube record level
- **Maximum:** Greatest among all the values at cube record level
- **Minimum:** Lowest among all the values at cube record level
- **First:** First among all the values at cube record level
- **Last:** Last among all the values at cube record level
- **Row Percentage:** Percentage value against row level summary within the same row
- **Row Group Percentage:** Percentage value against row group level summary (within the same group)
- **Column Percentage:** Percentage value against column level summary within the same column

- **Column Group Percentage:** Percentage value against column group level summary (within the same group)
- **Total Percentage:** Percentage value against the total cross-tab sum
- **Relative Row Difference:** Difference with respect to the previous row value
- **Relative Row Difference Percentage:** Difference with respect to the previous row value in percentage
- **Relative Row Group Difference:** Difference with respect to the previous row value (within same group)
- **Relative Row Group Difference Percentage:** Difference with respect to the previous row value (within same group) in percentage
- **Relative Column Difference:** Difference with respect to the previous column value
- **Relative Column Difference Percentage:** Difference with respect to the previous column value in percentage
- **Relative Column Group Difference:** Difference with respect to the previous column value (within the same group)
- **Relative Column Group Difference Percentage:** Difference with respect to the previous column value (within the same group) in percentage
- **Row Cumulative Sum:** Row-wise cumulative sum of all previous values for every column
- **Column Cumulative Sum:** Column wise cumulative sum of all previous values for every row
- **Row Group Cumulative Sum:** Row-wise cumulative sum of all previous values for every column (within the same group)
- **Column Group Cumulative Sum:** Column wise cumulative sum of all previous values for every row (within the same group)
- **Distinct Count:** Unique (Distinct) count value of specified dimension
- **Distinct Sum:** Sum of Unique (Distinct) values of specified dimension
- **Distinct Average:** Average of Unique (Distinct) values of specified dimension
- **Least Recent:** Least recent of all values
- **Most Recent:** Most recent of all values

Reference: **Concept Manual > Analytic Functions > Data Operations**

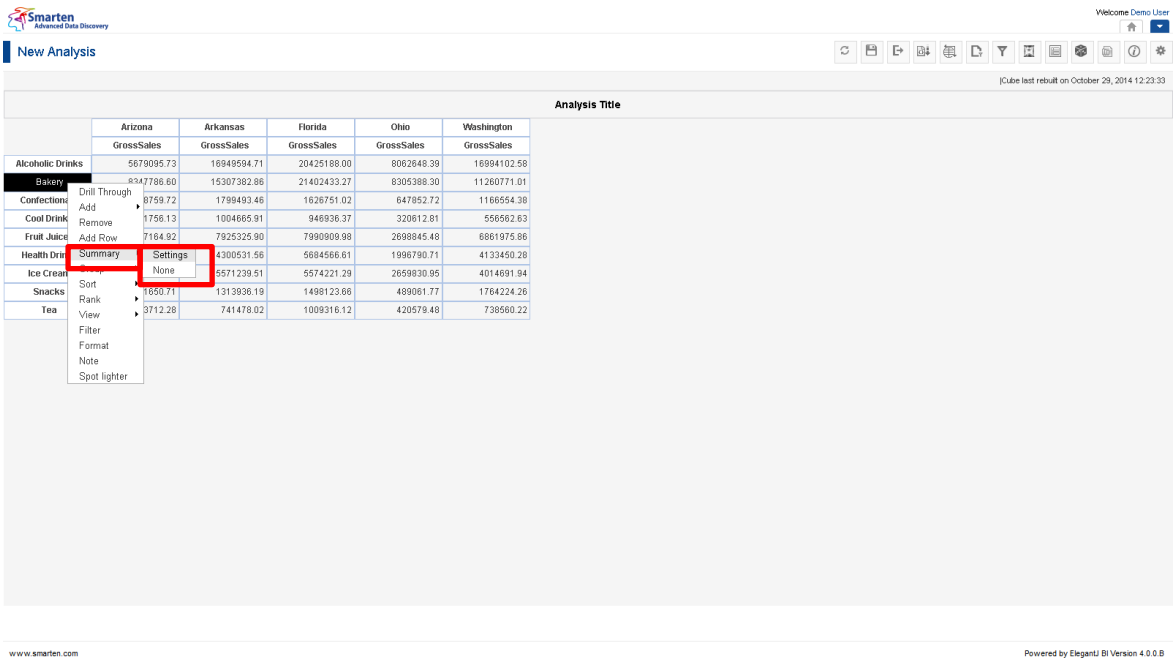
Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

4.4.17 Summary Operations

The Summary operation is used to calculate the summary at multiple levels on row and column dimensions.

Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the crosstab, right-click on a specific cell in row dimension.
   The system displays the menu with various options.
3. Select **Summary.**
   The system displays the submenu with two options: Settings and None.

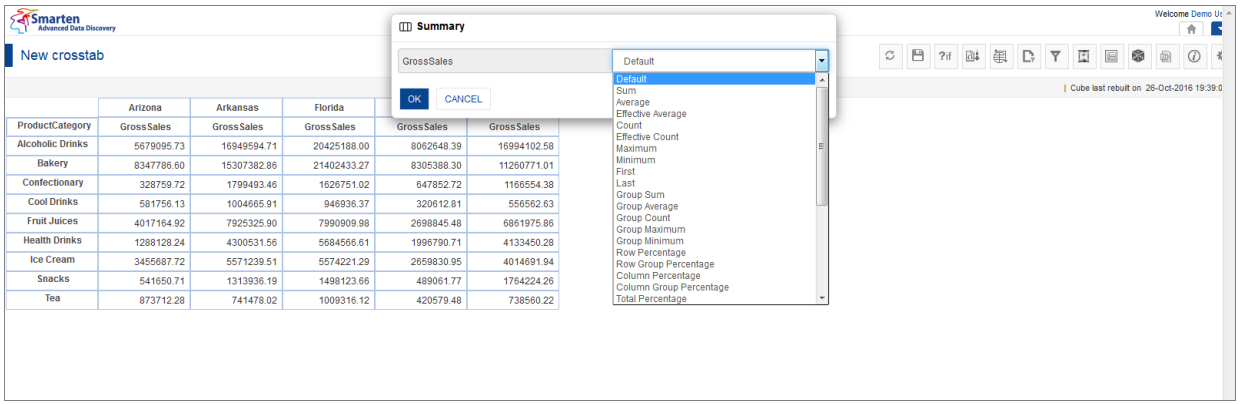


CROSSTAB: SUMMARY OPERATION LINK

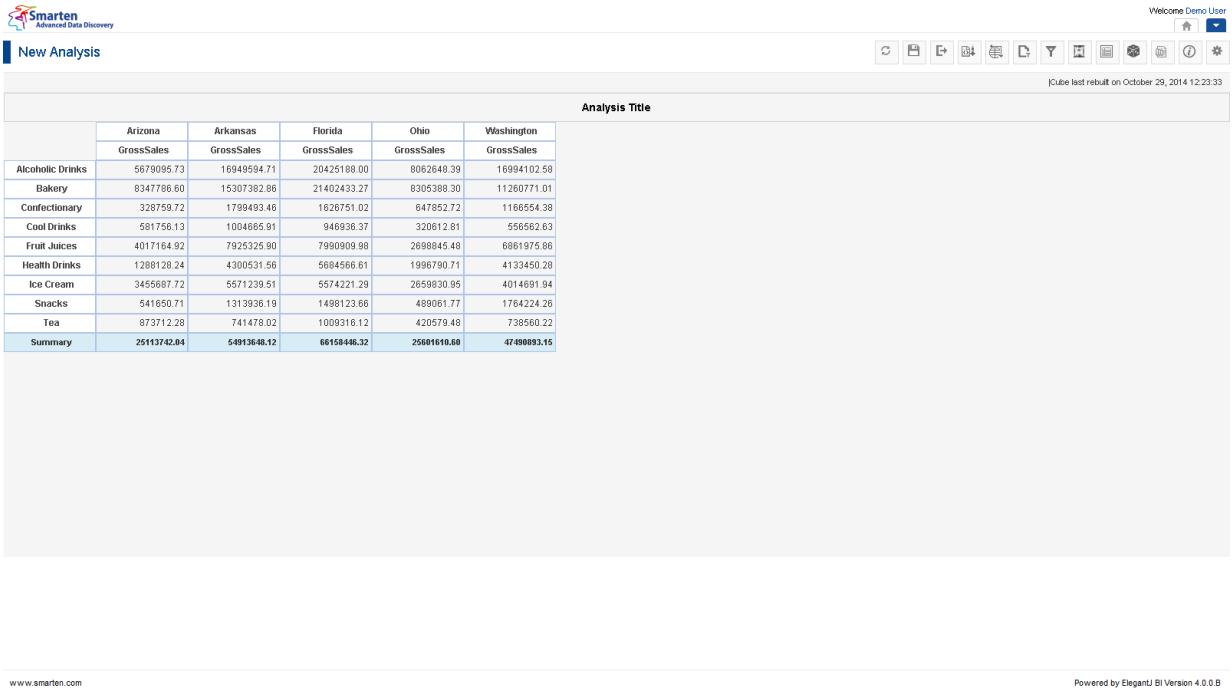
4. Click **Settings**.
   The system displays the **Summary** dialog box.

   It displays all the measures used in the cross-tab. You can select summary operations for these measures from the drop-down list, with all measures used in the cross-tab. Select default summary operation if you want to auto select summary operation based on data operation applied on that measure.

   If you select **None**, then any summary applied on that dimension will be removed.
5. Click **OK**.



CROSSTAB: SUMMARY OPERATIONS

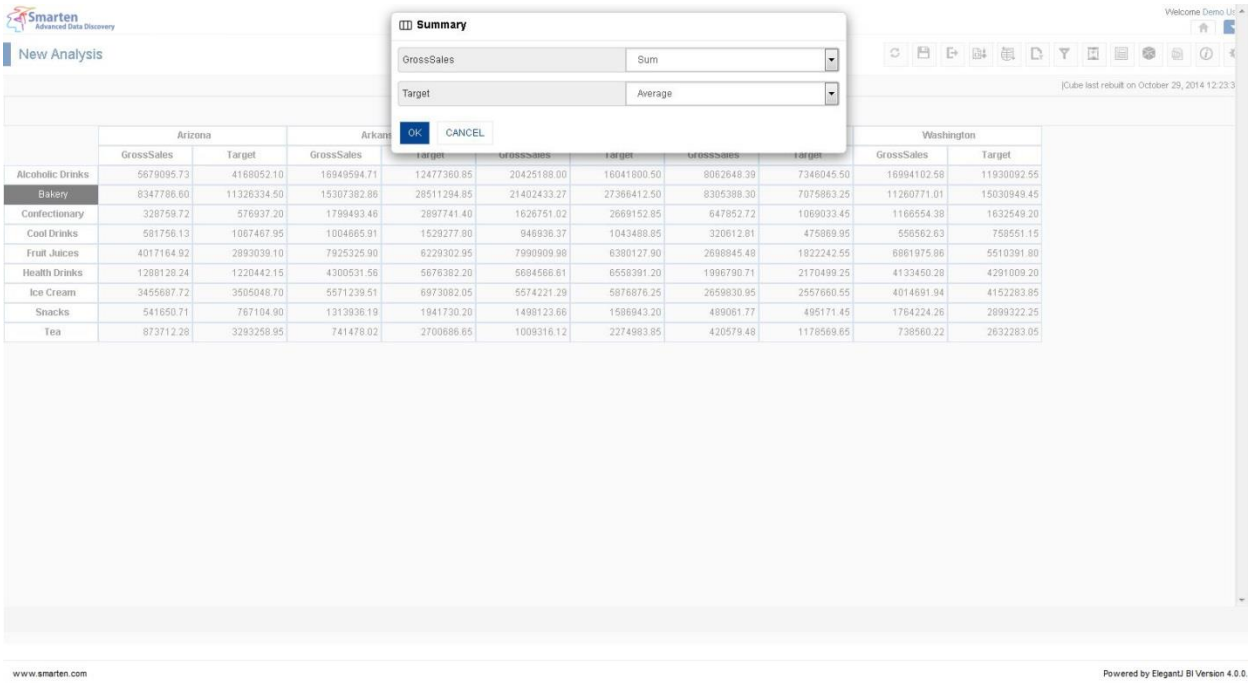


	Arizona	Arkansas	Florida	Ohio	Washington
	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22
Summary	25113742.04	54913648.12	66158446.32	25601610.60	47498893.15

CROSSTAB: SUMMARY OPERATION: STATEWISE SUM OF GROSS SALES

To add summary operations on multiple measures

If you have multiple measures in crosstab, you can select different summary operations for different measures.



CROSSTAB: SUMMARY OPERATION: ON MULTIPLE MEASURES

Procedure

1. Follow the **Procedure** of **Operations Summary**.
2. In the **Summary dialog box**, select the operation for different measures from the drop-down list. Select default summary operation if you want to auto select summary operation based on data operation applied on that measure.
3. Click **OK** to apply summary on crosstab.
4. Click **Cancel** to go back to crosstab without saving any change.

Smarten Advanced Data Discovery

Welcome Demo User

New Analysis

|Cube last rebuilt on October 29, 2014 12:23:33

Analysis Title

	Arizona		Arkansas		Florida		Ohio		Washington		Summary	
	GrossSales	Target	GrossSales	Target	GrossSales	Target	GrossSales	Target	GrossSales	Target	GrossSales	Target
Alcoholic Drinks	5879095.73	4168052.10	16949594.71	12477360.85	20425188.00	16041800.50	8062648.39	7346045.50	16994102.58	11930092.55	68110629.41	46230.74
Bakery	8347786.60	11326334.50	15307382.86	28511294.85	21402433.27	27366412.50	8305388.30	7075863.25	11260771.01	15030949.45	64623762.04	92838.73
Confectionary	328759.72	576937.20	1799493.46	2897741.40	1626751.02	2669152.85	647852.72	1069033.45	1186554.38	1632549.20	5589411.31	15995.32
Cool Drinks	581756.13	1067467.95	1004665.91	1529277.80	946936.37	1043488.85	320612.81	475869.95	556562.63	758551.15	3410533.85	9808.16
Fruit Juices	4017164.92	2893039.10	7925325.90	6229302.95	7990909.98	6380127.90	2698845.48	1822242.55	6861975.86	5510391.80	29494222.13	18640.90
Health Drinks	1288128.24	1220442.15	4300531.56	5676382.20	5684566.61	6558391.20	1996790.71	2170499.25	4133450.28	4291009.20	17403467.39	26733.86
Ice Cream	3455687.72	3505048.70	5571239.51	6973082.05	5574221.29	5876876.25	2659830.95	2557660.55	4014691.94	4152283.85	21275671.40	25070.60
Snacks	541650.71	767104.90	1313936.19	1941730.20	1498123.66	1586943.20	489061.77	495171.45	1764224.26	2899322.25	5606996.60	15049.46
Tea	873712.28	3293258.95	741478.02	2700686.65	1009316.12	2274983.85	420579.48	1178569.65	738560.22	2632283.05	3783646.12	16989.85

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CROSSTAB: AFTER SUMMARY OPERATION ON MULTIPLE MEASURES

To add multilevel summary at row and column levels

You can add multilevel summary on row and columns by right-clicking on the respective dimensions on cross-tab and using Summary option.

Smarten Advanced Data Discovery

Welcome Demo User

New Analysis

|Cube last rebuilt on October 29, 2014 12:23:33

Analysis Title

		Arizona			Arkansas			Florida			Ohio			Washington			Summary
		Phoenix	Scottsdale	Summary	Conway	Springdale	Summary	Lakeland	Orlando	Summary	Cleveland	Dayton	Summary	Redmond	Seattle	Summary	
2011	Q2	263748.49	866209.71	1129958.20	2734587.43	399796.60	3134384.03		4739753.66	4739753.66	421750.63		421750.63	693023.45	701253.73	1394277.18	10820123.70
	Q3	1008412.11	58438.94	1066851.06	3394331.99	371929.77	3766261.76	1148920.77	2908418.43	4057339.20	999897.08		999897.08	2414667.01	2640622.38	5055289.39	14945638.48
	Q4	483618.98		483618.98	2801075.46	32950.28	2834025.74	1597609.40	6375879.58	7973488.98	651110.60		651110.60	252483.22	1537104.40	1789587.62	13731831.92
	Summary	1755779.58	924648.65	2680428.24	8929994.88	804676.64	9734671.53	2746530.17	14024051.67	16770581.84	2072758.31		2072758.31	3360173.67	4878980.51	8239154.19	39497594.10
2012	Q1	571507.93	434867.33	1006375.26	1792147.70		1792147.70	1306679.51	1173085.88	2479665.39	1405100.79		1405100.79	133423.76	1767992.68	1901416.44	8584705.57
	Q2	35792.70	1054771.43	1090564.13	5657953.81	1196444.17	6854397.98	1244452.41	3421587.61	4666040.01	342166.76	832011.10	1174177.85	1013602.76	929113.20	1942715.96	15727895.94
	Q3	1393918.77	56947.92	1450866.69	1532187.54	1346585.62	2878773.16	558964.61	5035521.32	5594485.93	1940755.49	3684412.88	5625168.37	3542276.85	1223993.14	4766269.99	20315564.14
	Q4	1757563.83	340532.10	2098095.93	1430223.11	132343.36	1562566.47		3911822.73	3911822.73	864537.14	76359.08	940896.22	635570.96	2364735.51	3000306.47	11513687.82
	Summary	3758783.23	1887118.78	5645902.01	10412512.16	2675373.16	13087885.32	3109996.53	13542017.53	16652014.06	4552560.18	4592783.06	9145343.23	5324874.33	6285834.53	11610708.85	56141853.47
2013	Q1	666127.73	1194793.73	1860921.46	2367497.53		2367497.53	1354152.53	2133821.61	3487974.14	1474353.13		1474353.13	338460.64	1987879.62	2326340.26	11517086.52
	Q2	119221.42	1266012.15	1385233.57	5415800.63	1727170.54	7142971.17	1101747.12	4421354.23	5523101.34	1067753.76	513783.89	1581537.66	928549.77	940746.09	1869295.86	17502139.60
	Q3	1154101.93	626001.07	1780103.00	4127407.44	1569362.90	5696770.34	1719392.15	6990817.33	8710209.48	496481.09	2832328.56	3328809.65	2790881.92	1846821.01	4637702.93	24153595.40
	Q4	587936.05	256150.84	844086.89	1357438.90	700627.21	2058066.12	580806.94	770671.61	1351478.55	437725.52	151608.39	589333.91	547088.39	1185604.60	1732692.99	6575658.46
	Summary	2527387.13	3342957.79	5870344.92	13268144.52	3997160.65	17265305.16	4756098.74	14316664.77	19072763.51	3476313.51	3497720.84	6974034.35	4604980.71	5961051.32	10566032.04	59748479.98
2014	Q1	774804.78	510353.00	1285157.78	1560953.02	327834.01	1888787.03	1911396.96	1256642.46	3168039.43	1399695.69	446671.53	1846367.22	1609037.09	2958517.91	4567555.00	12755906.45
	Q2	585768.31	1997592.41	2583360.73	1959715.69	1932802.71	3892518.40	1520659.53	1514770.53	3035430.06	491328.62	804535.99	1295864.61	1412467.91	1681480.62	3093948.54	13901122.34
	Q3	1530387.97	2363161.30	3893549.28	2832565.53	1466893.66	4299459.19	1251819.27	1941206.74	3193026.00	1584897.18	1225759.61	2810656.78	2622264.97	3118855.69	5741120.65	19937811.91
	Q4	740673.78	2414325.32	3154999.10	2456424.64	2288596.84	4745021.49	2256383.52	2010207.89	4266591.41	685879.71	770706.38	1456586.09	1581441.89	2090932.00	3672373.89	17295571.98
	Summary	3631634.85	7285432.04	10917066.89	8809658.88	6016127.23	14825786.11	6940259.28	6722827.62	13663086.91	4161801.20	3247673.50	7409474.70	7225211.86	9849786.22	17074998.08	63890412.68
Summary		11673584.79	13440157.25	25113742.04	41420310.44	13493337.68	54913648.12	17552884.72	48605561.60	66158446.32	14263433.21	11338177.40	25601610.60	20515240.57	26975652.58	47490893.15	219278340.24

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CROSSTAB: SUMMARY OPERATION: ON MULTIPLE ROW & COLUMN DIMENSION

Reference: **Concept Manual > Analytic Functions > Summary Operations**

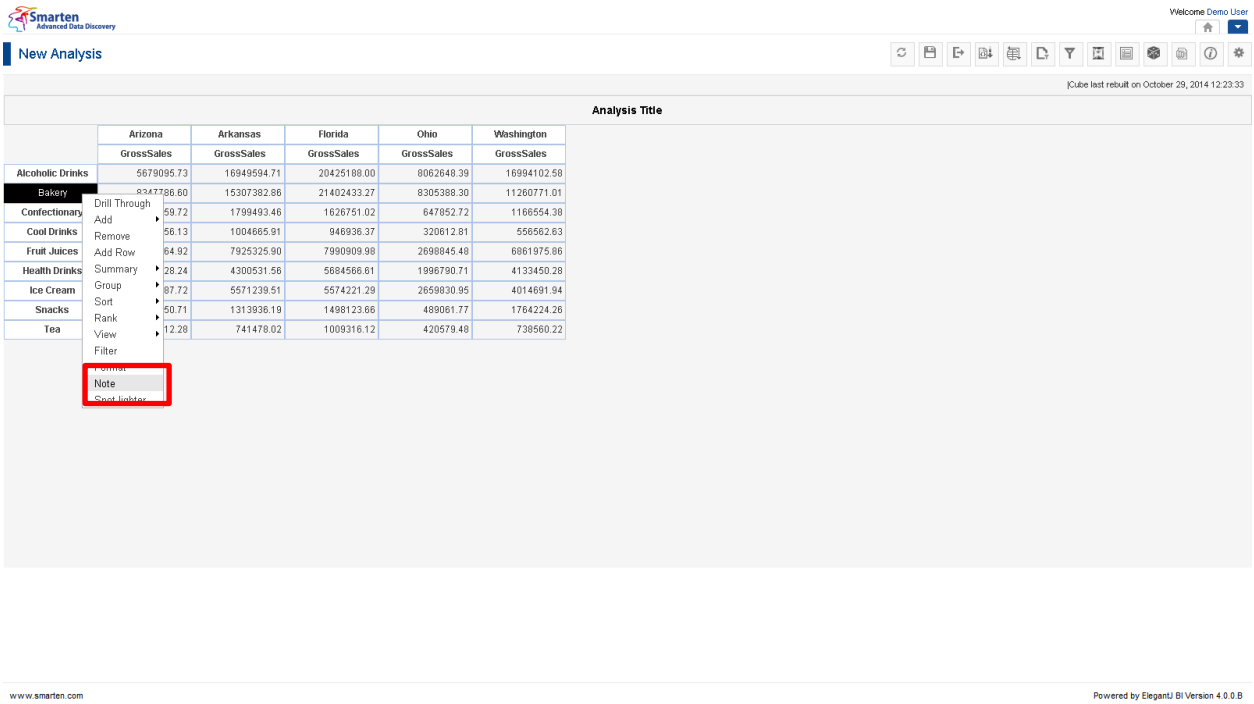
Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

4.4.18 Notes

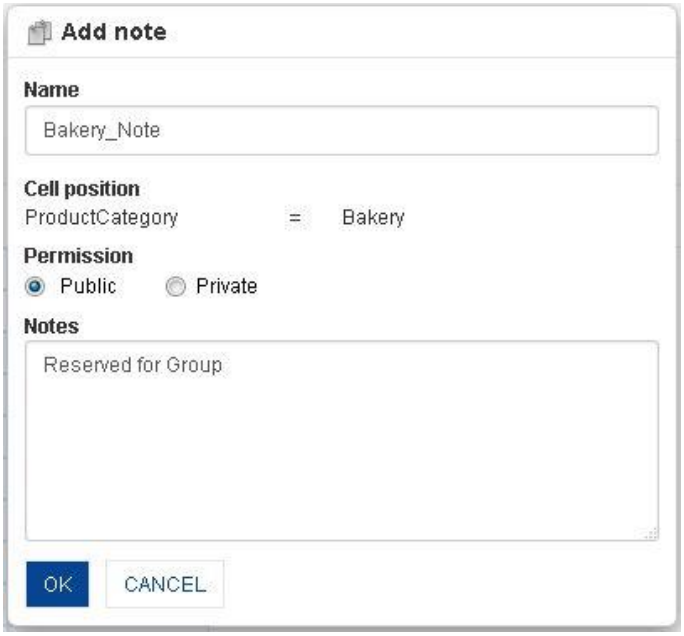
This option is used to add note for specific cell in the crosstab. This note will be shown at mouse over event of the cell. Note can be set as private or public view.

Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the crosstab, right-click on a specific cell in row or column dimension.
   The system displays the menu with various options.
3. Select **Notes.**
   The system displays the **Add note** dialog box.



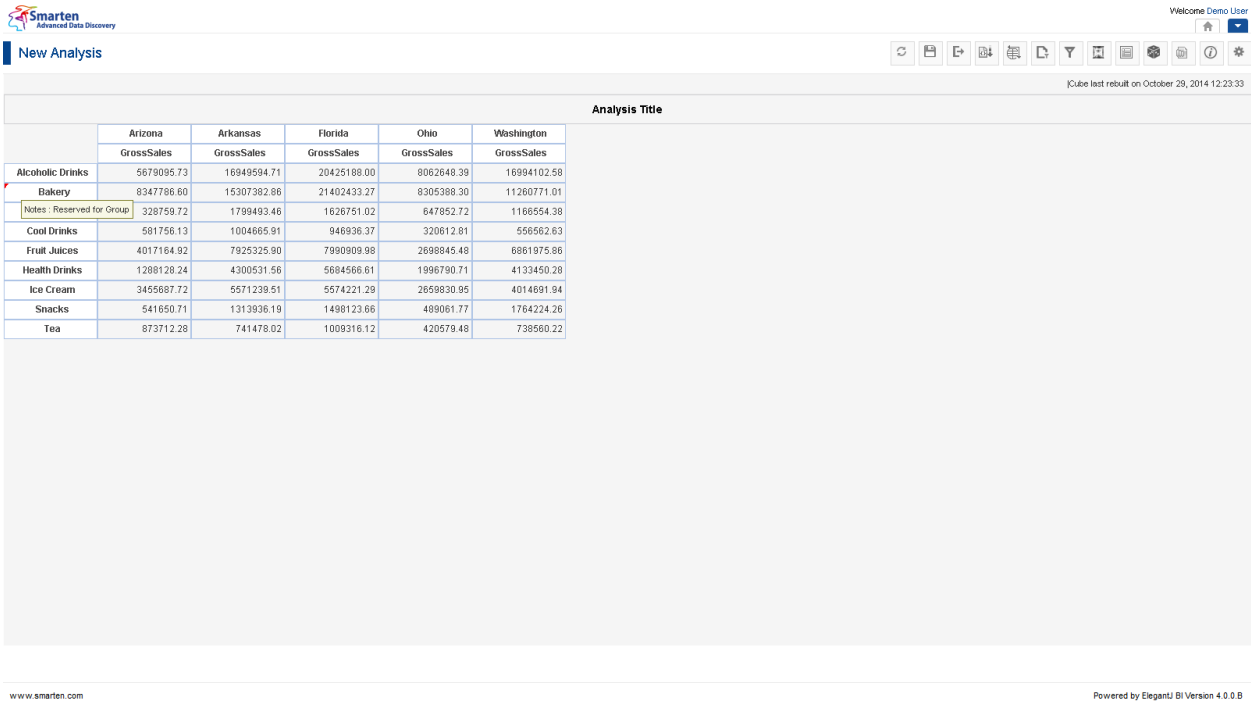
CROSSTAB: NOTES



CROSSTAB: NOTES: ADD NOTE

4. In the **Name** field, enter a name.
5. In **Permission** select either **Public** or **Private** radio button.
6. In the **Notes** field, enter the required information.
7. Click **OK.**

   Red pointer is displayed on the added note cell. If you mouse over on the cell, a note will be displayed.



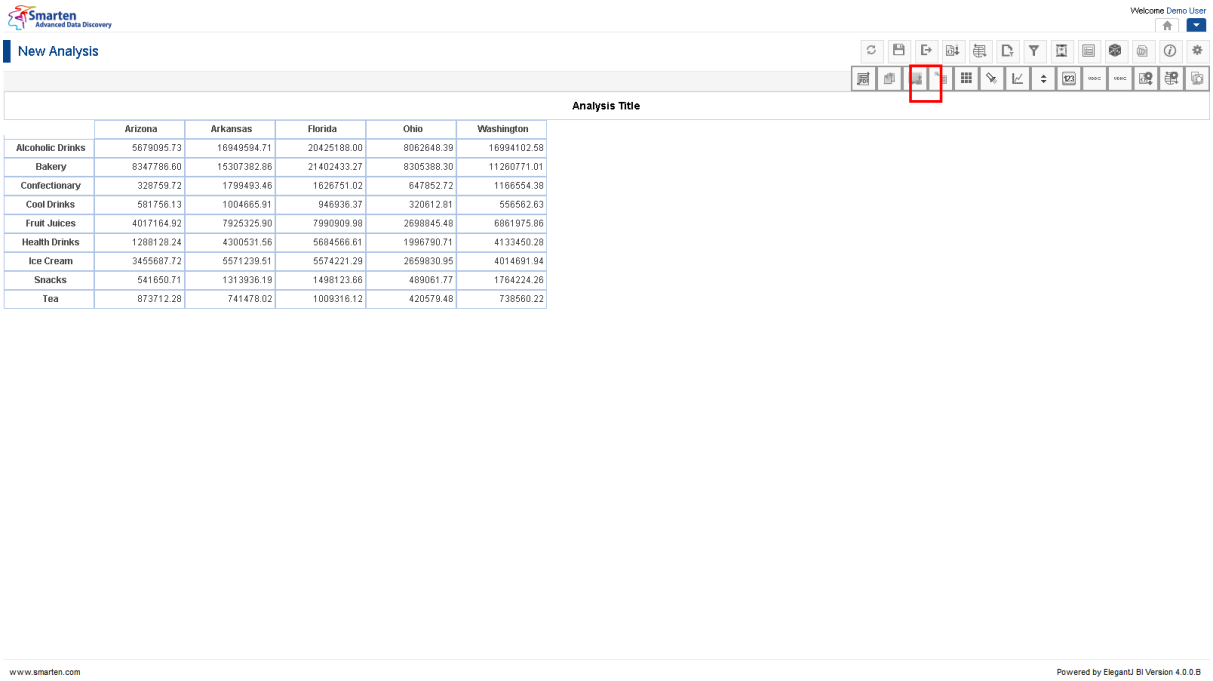
	Arizona	Arkansas	Florida	Ohio	Washington
	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	558562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698945.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

CROSSTAB: AFTER ADD NOTES

4.4.18.1 Manage Notes

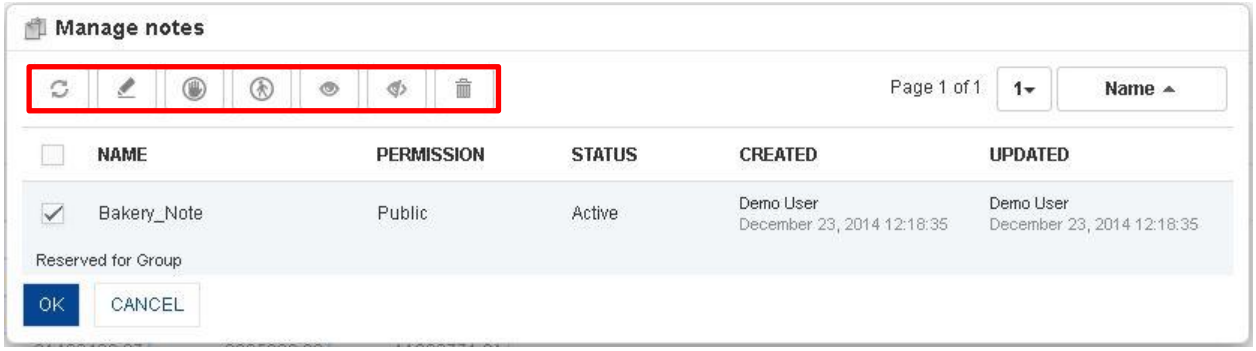
Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage notes.**
   The system displays the **Manage notes** dialog box.
4. In the **Manage notes** dialog box, select a checkbox in front of a note name.
   The system displays a toolbar to manage notes template.



	Arizona	Arkansas	Florida	Ohio	Washington
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

CROSSTAB: MANAGE NOTES ICON



CROSSTAB: MANAGE NOTES

CROSSTAB: MANAGE NOTES TEMPLATE TOOLBAR

Icon	Icon name
	Refresh
	Edit
	Private
	Public
	Active
	Inactive
	Delete

CROSSTAB: MANAGE NOTES TEMPLATE TOOLBAR OPTIONS

> Note:
> Templates can be edited or deleted only by creator of the template or the administrator.

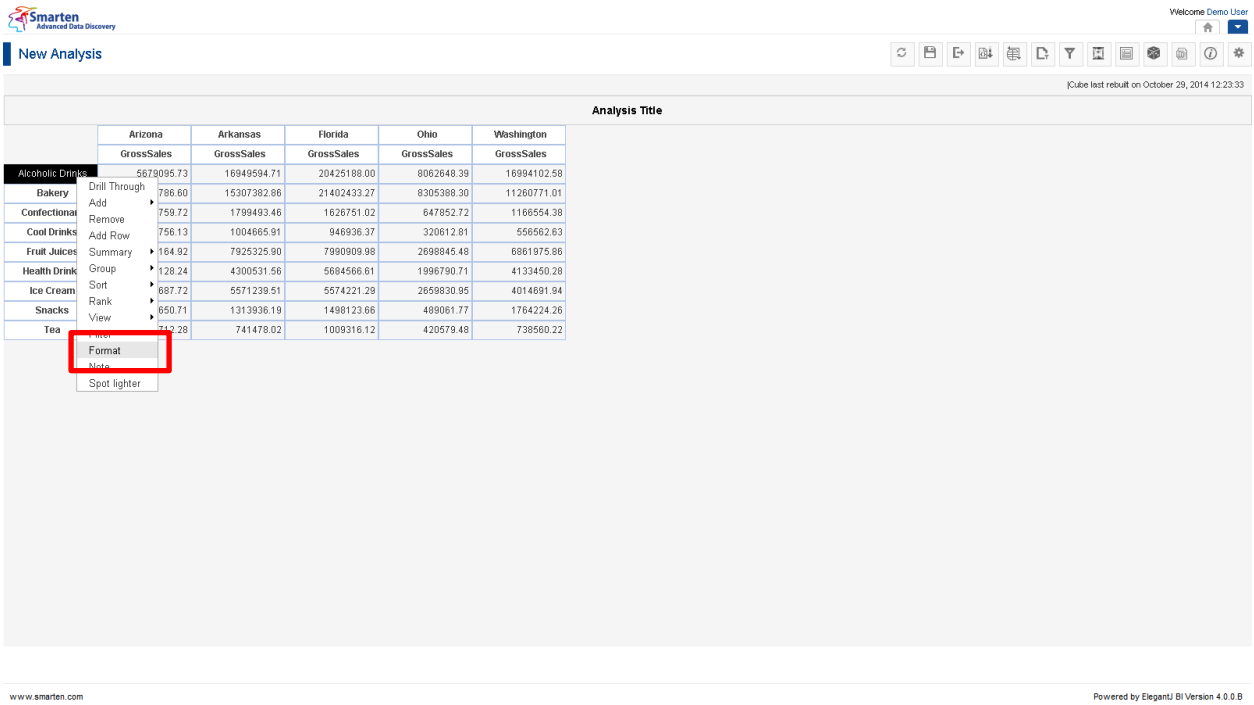
4.4.19 Format

4.4.19.1 General & Value Formatting

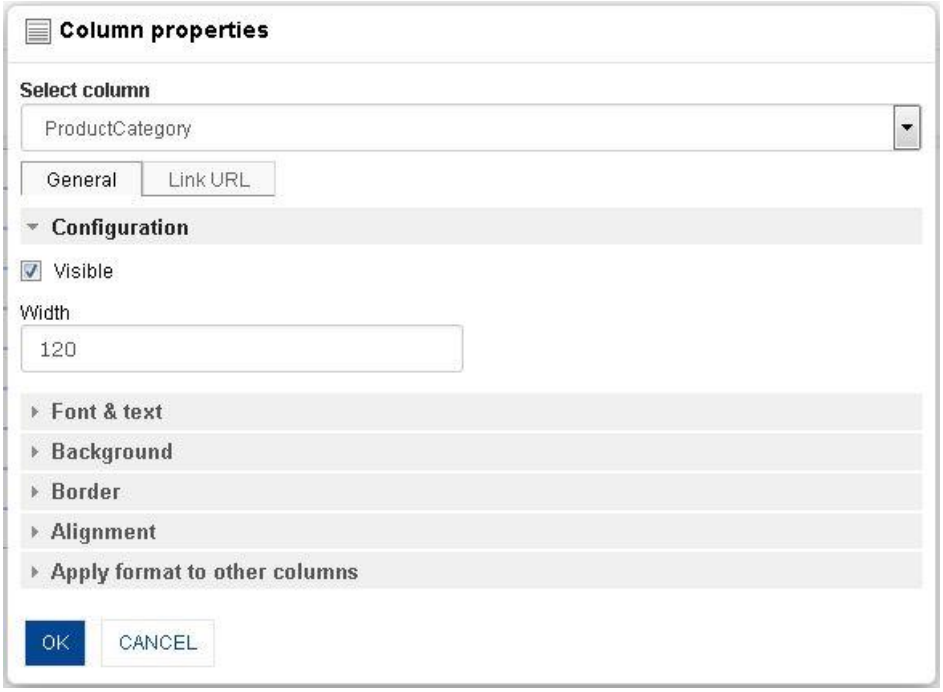
This option is used to set the formatting options of a particular dimension or measure cell. You can also set the formatting options for summary cells using this option.

Procedure

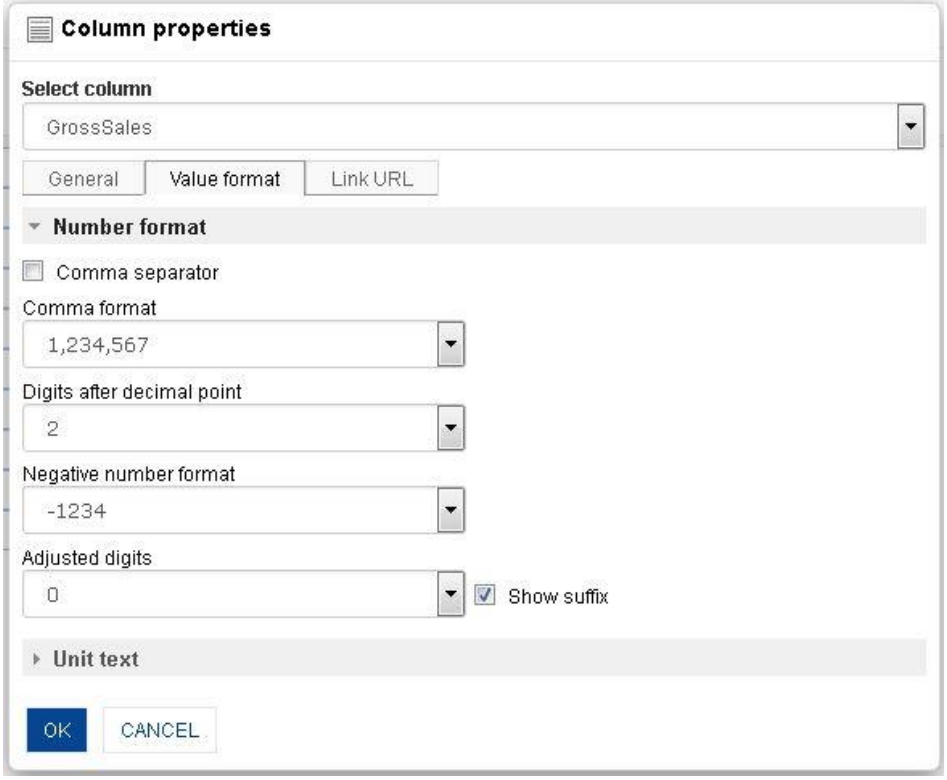
1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the crosstab, right-click on a specific cell in row or column dimension.
   The system displays the menu with various options.
3. Select **Format.**
   The system displays the **Column properties** dialog box.



CROSSTAB: FORMAT



CROSSTAB: DIMENSION & SUMMARY COLUMNS FORMAT: GENERAL FORMATTING

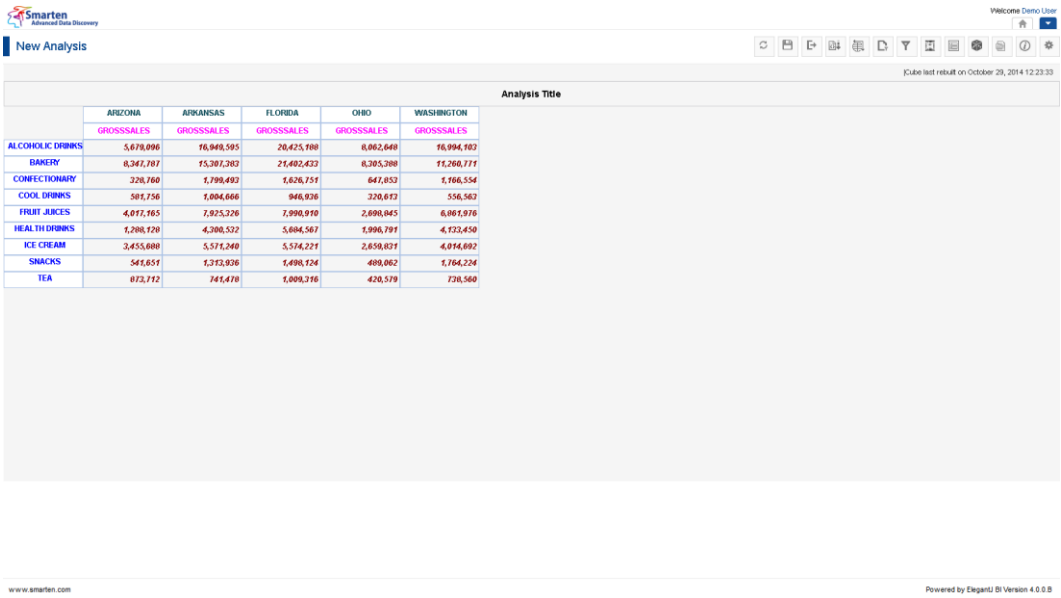


CROSSTAB: MEASURE COLUMN FORMAT: VALUE FORMATTING

4. From the Select column drop-down list, select a value.
   The system displays **General** tab for both measures and dimensions. The system will display only value tab for measures and custom measures.
5. In the **General** tab,
   - In the **Width** field, enter width.
   - In the **Font & text** section, select the font name, size, style, and colour.
   - In the **Background** section, select background visibility and colour.
   - In the **Border** section, select border visibility, width, style, and colour.

- In the **Alignment** section, select options in **Vertical** and **Horizontal** drop-down lists.
- Select **Apply format to other columns** to apply the format options in this dialog box to other columns in the crosstab, so you do not have to repeat the tasks.

6. In the **Value format** tab, this will be shown only for measures formatting.
   - In the **Date format** section, select date from the **Date** drop-down list.
   - In the **Time format** section, select date from the **Date** drop-down list.
7. Click **OK.**



	ARIZONA	ARKANSAS	FLORIDA	OHIO	WASHINGTON
	GROSSSALES	GROSSSALES	GROSSSALES	GROSSSALES	GROSSSALES
ALCOHOLIC DRINKS	5,678,096	16,949,595	20,425,180	8,062,648	16,994,102
BAKERY	8,347,787	15,387,383	21,402,433	8,305,388	11,260,771
CONFECTIONARY	328,760	1,799,493	1,626,751	647,853	1,166,554
COOL DRINKS	581,756	1,004,666	946,936	320,613	556,562
FRUIT JUICES	4,017,165	7,925,326	7,990,910	2,698,045	6,861,976
HEALTH DRINKS	1,288,120	4,300,532	5,684,567	1,996,791	4,123,450
ICE CREAM	3,455,688	5,571,240	5,574,221	2,650,831	4,014,602
SNACKS	541,651	1,313,936	1,498,124	489,062	1,164,224
TEA	873,712	741,478	1,009,316	420,579	738,560

CROSSTAB: AFTER FORMATTING

Format Column Properties - General

Element	Properties	Sub Properties	Default Value	Values
Configuration	Width		120	0 – 999
	Column header			“Any String”
	Show NULL value as			
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#4a4949	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF

Element	Properties	Sub Properties	Default Value	Values
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
Alignment	Horizontal		Center	Left/Center/Right
	Vertical		Center	Left/Center/Right

Column Properties – Value format

Element	Properties	Sub Properties	Default Value	Values
Number format	Comma separator		FALSE	True/False
	Comma format		1, 234, 567	1, 234, 567/ 12, 34 , 567
	Digits after decimal point		2	0 – 5
	Negative number format		-1234	
	Adjusted digits		0	0, 1/1000K, 1/100000L, 1/1000000M, 1/10000000Cr, 1/100000000Bn
	Show suffix		False	True/False
Unit text	Text		None	None,%,#,Rs, etc.
	Position		Prefix	Prefix/Suffix
Date format			01 – Sep – 2003	
Time format			03:02:05	

COLUMN PROPERTIES—MEASURE OR LABEL – VALUE FORMAT

4.4.19.2 Link URL

This option is used to link any URL with a crosstab column. You can create custom expression for URL syntax, and can either have ‘click URL’ or ‘display image’ action on columns with URL display type configuration.

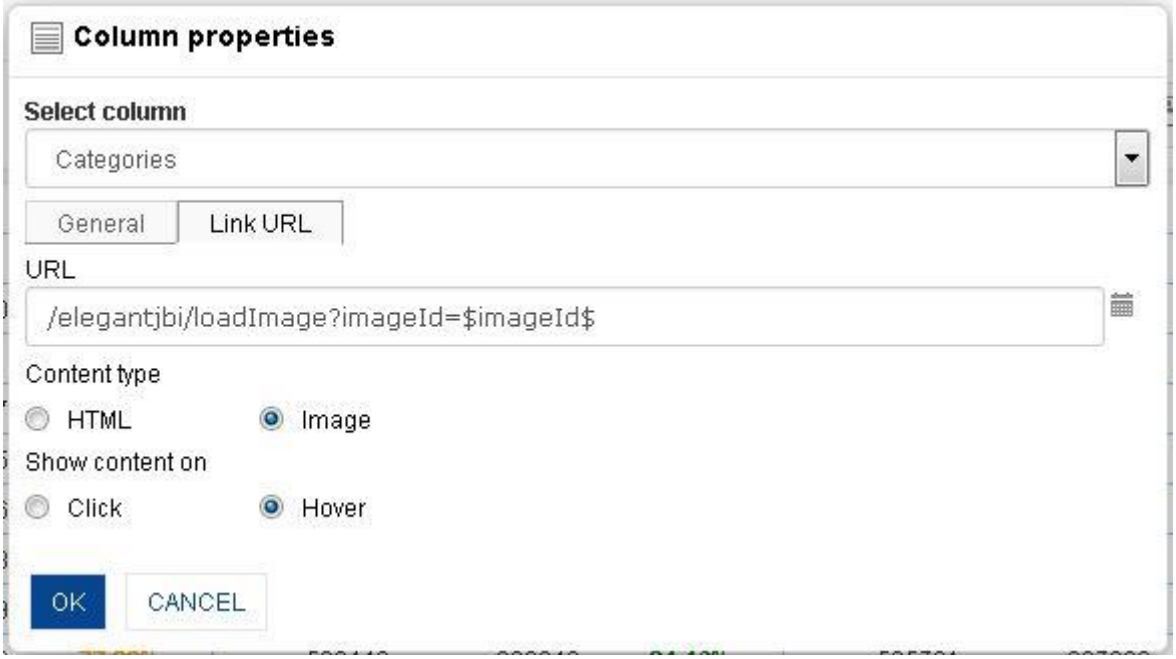
For example, you can have product sales report with functionality to display product image on mouse over event of product name field. You can also have functionality to open product detail page on your website on click of product name field.

Image on mouse hover

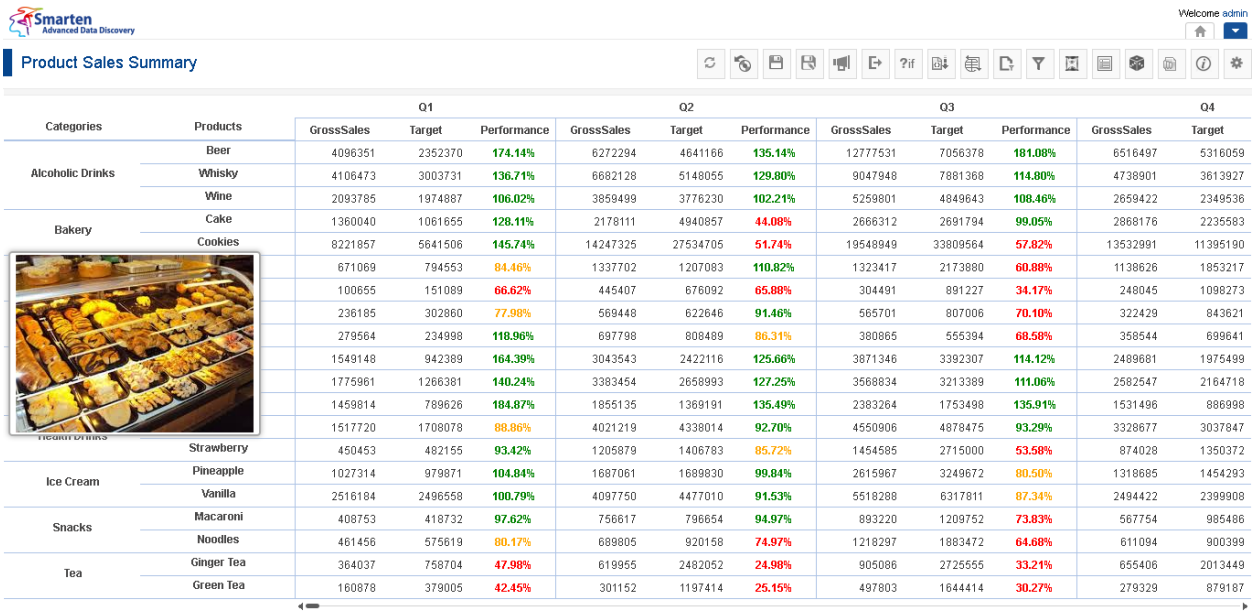
Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.

2. In the crosstab, right-click on a specific cell in row or column dimension or measure.
   The system displays the menu with various options.
3. Select **Format.**
   The system displays the **Column properties** dialog box.
4. From the Select column drop-down list, select a value.
   The system displays **General** and **Link URL** tab for both measures and dimensions. The system will display only value tab for measures and custom measures.
5. In the **Link URL** tab,
   - In the **URL** field, enter image url.
   - In the **Content type** field, select the option **Image**.
   - In the **Show content on** filed, select the option **Hover**.
6. Click **OK.**



COLUMN PROPERTIES: LINK URL: IMAGE SETTINGS (IMAGE ON MOUSE HOVER)



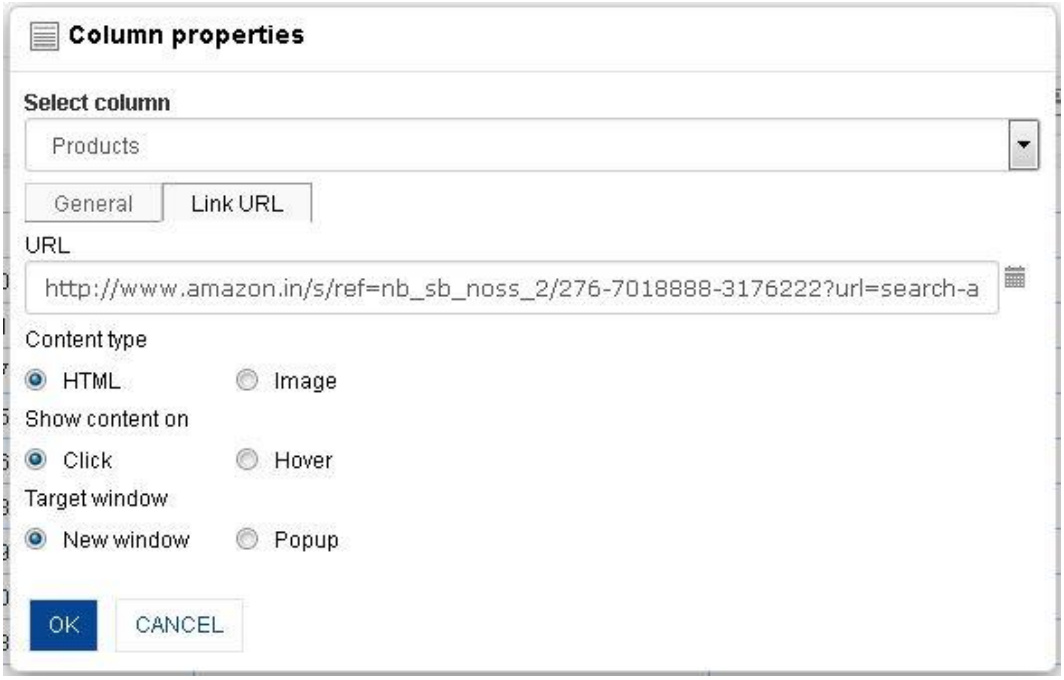
Categories	Products	Q1 GrossSales	Q1 Target	Q1 Performance	Q2 GrossSales	Q2 Target	Q2 Performance	Q3 GrossSales	Q3 Target	Q3 Performance	Q4 GrossSales	Q4 Target
Alcoholic Drinks	Beer	4096351	2352370	174.14%	6272294	4641166	135.14%	12777531	7056378	181.08%	6516497	5316059
	Whisky	4106473	3003731	136.71%	6682128	5148055	129.80%	9047948	7881368	114.80%	4738901	3613927
	Wine	2093785	1974887	106.02%	3859499	3776230	102.21%	5259801	4849643	108.46%	2659422	2349536
Bakery	Cake	1360040	1061655	128.11%	2178111	4940857	44.08%	2666312	2691794	99.05%	2868176	2235583
	Cookies	8221857	5641506	145.74%	14247325	27534705	51.74%	19548949	33809564	57.82%	13532991	11395190
		671069	794553	84.46%	1337702	1207083	110.82%	1323417	2173880	60.88%	1138626	1853217
		100655	151089	66.62%	445407	676092	65.88%	304491	891227	34.17%	248045	1098273
		236185	302860	77.98%	569448	622646	91.46%	565701	807006	70.10%	322429	843621
		279564	234998	118.96%	697798	808489	86.31%	380865	555394	68.58%	358544	699641
		1549148	942389	164.39%	3043543	2422116	125.66%	3871346	3392307	114.12%	2489681	1975499
		1775961	1266381	140.24%	3383454	2658993	127.25%	3568834	3213389	111.06%	2582547	2164718
		1459814	789626	184.87%	1855135	1369191	135.49%	2383264	1753498	135.91%	1531496	886998
		1517720	1708078	88.86%	4021219	4338014	92.70%	4550906	4878475	93.29%	3328677	3037847
	Strawberry	450453	482155	93.42%	1205879	1406783	85.72%	1454585	2715000	53.58%	874028	1350372
Ice Cream	Pineapple	1027314	979871	104.84%	1687061	1689830	99.84%	2615967	3249672	80.50%	1318685	1454293
	Vanilla	2516184	2496558	100.79%	4097750	4477010	91.53%	5518288	6317811	87.34%	2494422	2399908
Snacks	Macaroni	408753	418732	97.62%	756617	796654	94.97%	893220	1209752	73.83%	567754	985486
	Noodles	461456	575619	80.17%	689805	920158	74.97%	1218297	1883472	64.68%	611094	900399
Tea	Ginger Tea	364037	758704	47.98%	619955	2482052	24.98%	905086	2725555	33.21%	655406	2013449
	Green Tea	160878	379005	42.45%	301152	1197414	25.15%	497803	1644414	30.27%	279329	879187

IMAGE ON MOUSE HOVER FOR CATEGORY - BAKERY

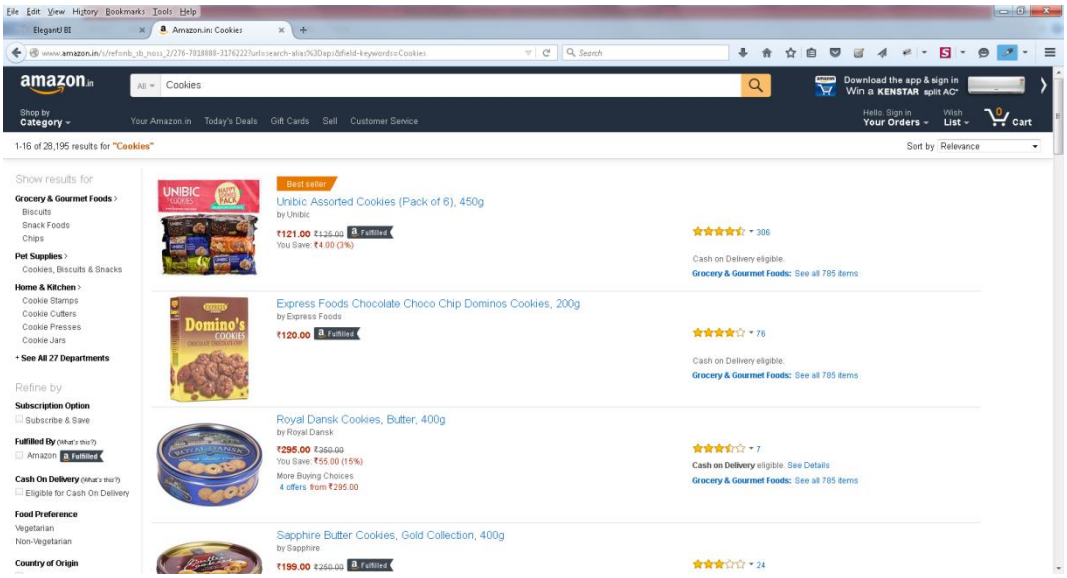
Webpage in New window on click

Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the crosstab, right-click on a specific cell in row or column dimension or measure.
   The system displays the menu with various options.
3. Select **Format.**
   The system displays the **Column properties** dialog box.
4. From the Select column drop-down list, select a value.
   The system displays **General** and **Link URL** tab for both measures and dimensions. The system will display only value tab for measures and custom measures.
5. In the **Link URL** tab,
   - In the **URL** field, enter image url.
   - In the **Content type** field, select the option **HTML**.
   - In the **Show content on** filed, select the option **Click**.
   - In the **Target window** field, select the option **New window** or **Popup**.
6. Click **OK.**



COLUMN PROPERTIES: LINK URL: URL SETTINGS (URL ON CLICK IN NEW WINDOW)



RESULT PAGE ON CLICK FOR PRODUCT – COOKIES

Column Properties – Link URL

Element	Properties	Sub Properties	Default Value	Values
URL				"Any URL"
Content type			HTML	HTML, Image
Show content on			Click	Click, Hover
Target window			New window	New window, Popup

COLUMN PROPERTIES—LINK URL

Examples of URL syntax formation

Example Scenario	Final URL Required (Example)	URL Expression Configuration	Result
Image id is used as a part of URL for a particular image and image id is stored in cube column	/smarten/loadImage?imageId=149	/smarten/loadImage?imageId=$imageId$ *'imageID' is cube column name* *Content type is Image*	Click or hover on target column in crosstab and image from final URL will be displayed. For example, if image id associated with 'Fruit Juices' is '149', then image at /smarten/loadImage?imageId=149 will be displayed on click or hover on column with value 'Fruit Juices'

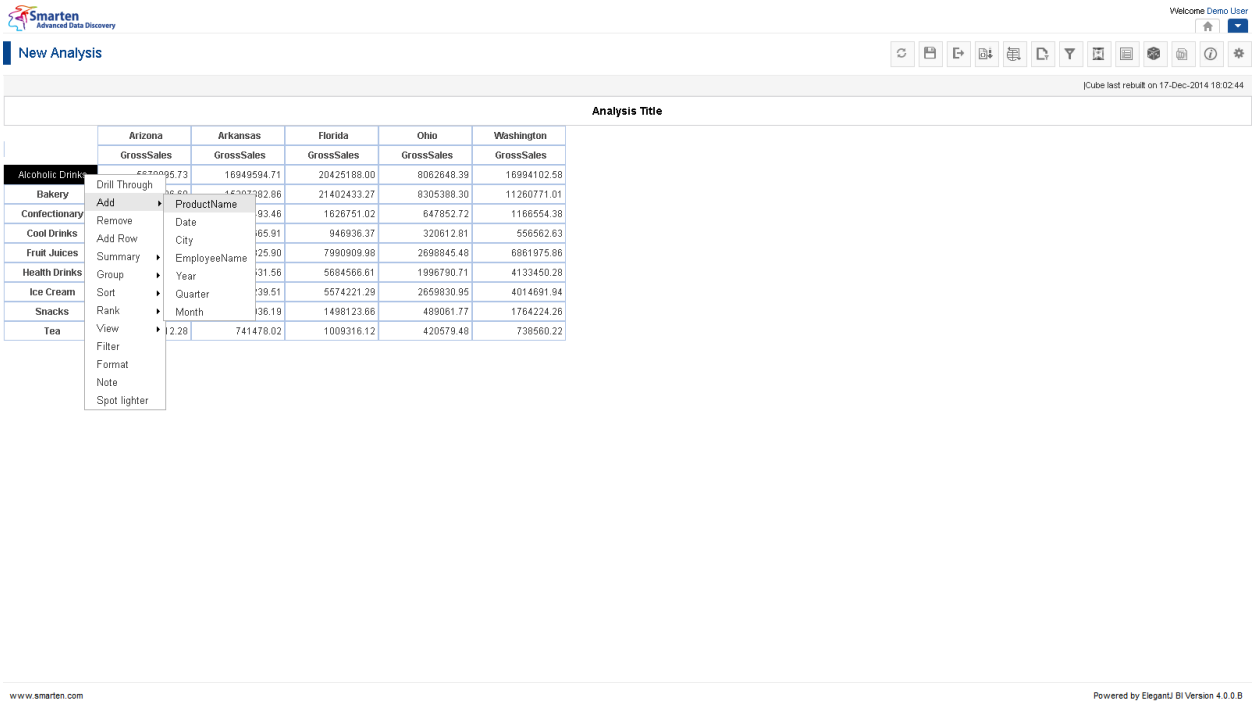
Full URL is stored as cube column	http://www.abc.com	URL *'URL' is cube column name* *Content type is HTML*	Click or hover on target column in crosstab and HTML from final URL will be displayed as per the selected target window method. For example, if company website URL associated with Company ABC is www.abc.com, then HTML content of www.abc.com will be displayed on click or hover on column with value 'ABC'.
Image id is used as part of URL and both URL and image id is stored as per cube column	http://www.fruits.com/loadImage?imageId=149	URL/loadImage?imageId=$imageId$ *Both 'URL' and 'imageID' is cube column name* *Content type is Image*	Click or hover on target column in crosstab and final URL will be formed with use of expression using two cube columns, and image from Final URL will be displayed on click or hover. For example, if image id associated with 'Fruit Juices' is '149' and URL is www.fruits.com, then image at http://www.fruits.com/loadImage?imageId=149 will be displayed on click or hover on column with value 'Fruit Juices'

4.4.20 Add / Remove Columns

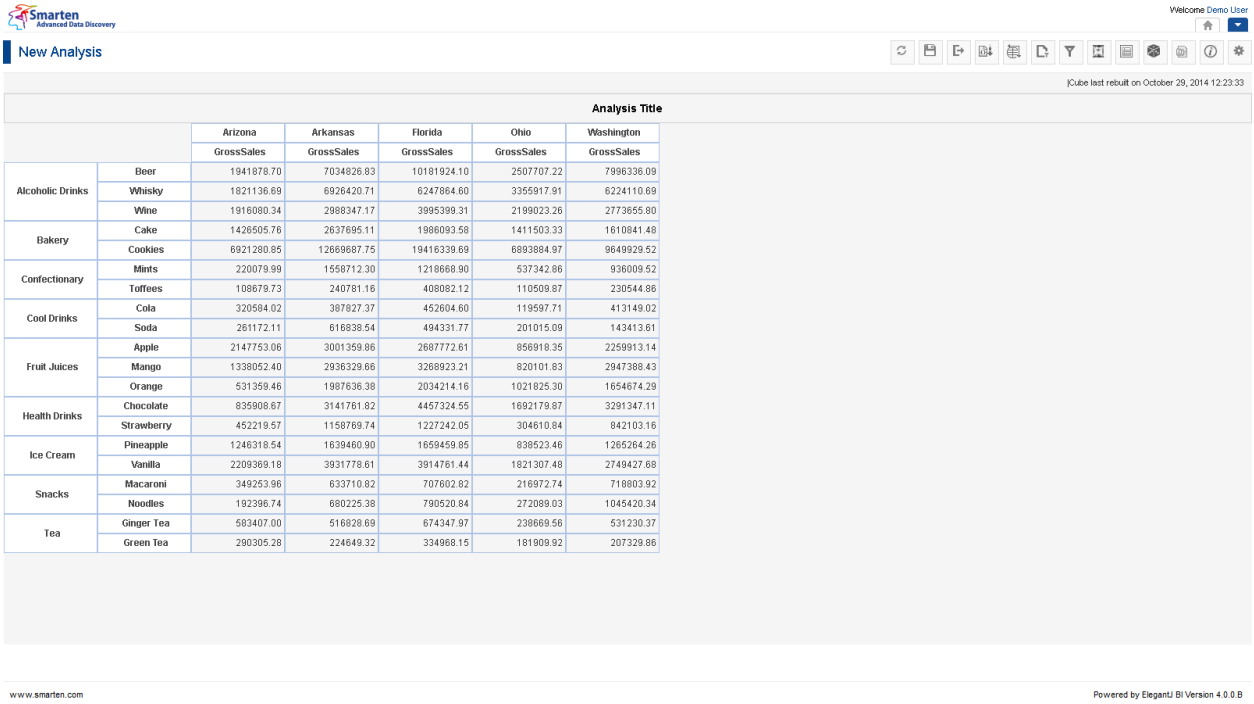
This option is used to add or remove columns on the fly in crosstab.

Procedure

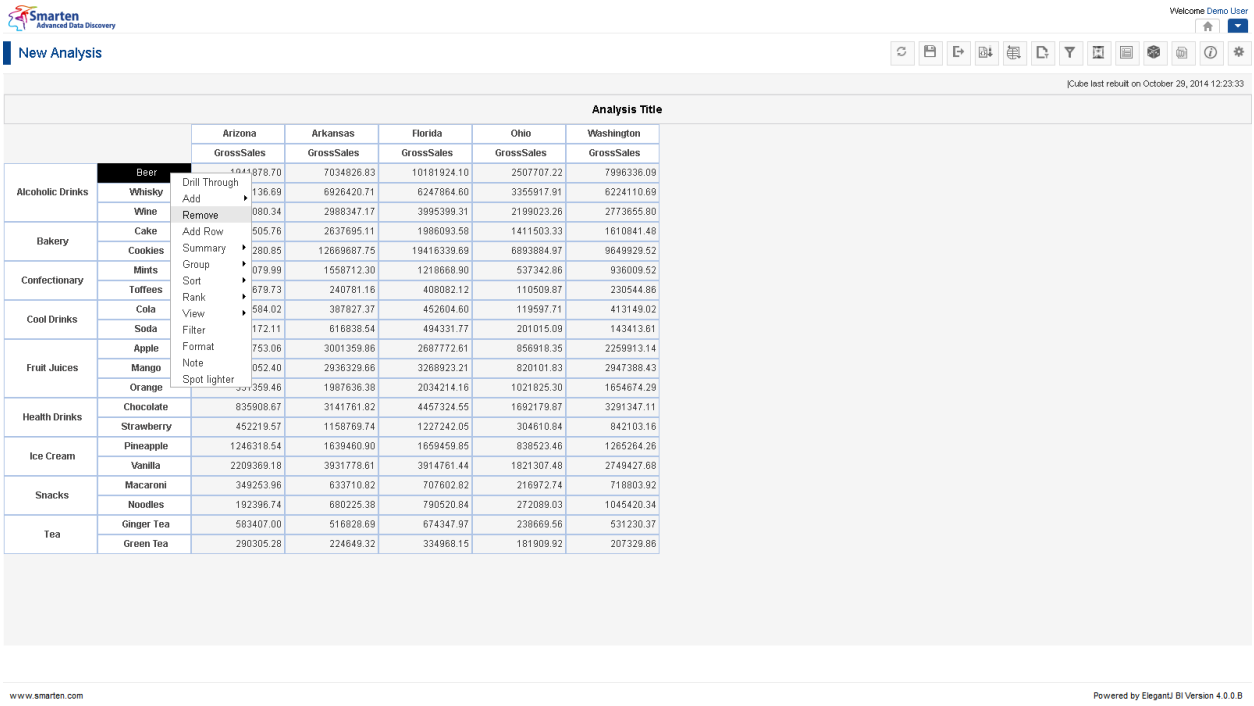
1. In the Repository, open crosstab.
   The system displays the selected crosstab.
2. In the crosstab, right-click on a specific cell in column dimension.
   The system displays the menu.
3. In the menu, select Add**.**
   The system displays submenu with various options.
4. In the submenu, select a column.
5. To remove a column, select Remove from the menu.



CROSSTAB: ADD COLUMN

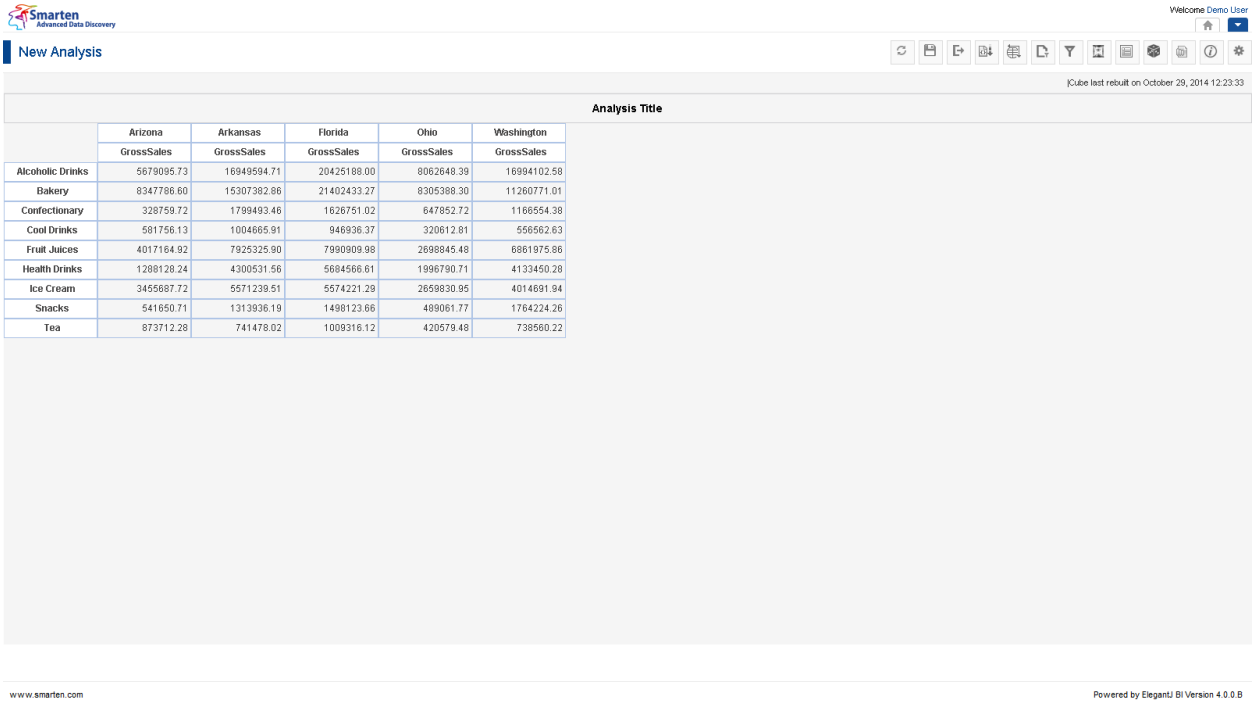


CROSSTAB: AFTER ADDING PRODUCT NAME COLUMN



		Arizona	Arkansas	Florida	Ohio	Washington
		GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	Beer	1044878.70	7034826.83	10181924.10	2507707.22	7996336.09
	Whisky	136.69	6926420.71	6247864.60	3355917.91	6224110.69
	Wine	080.34	2988347.17	3995399.31	2199023.26	2773655.80
Bakery	Cake	505.76	2637695.11	1986093.58	1411503.33	1610841.48
	Cookies	280.85	12669687.75	19416339.69	6893884.97	9649929.52
Confectionary	Mints	079.99	1558712.30	1218668.90	537342.86	936009.52
	Toffees	679.73	240781.16	408082.12	110509.87	230544.86
Cool Drinks	Cola	584.02	387827.37	452604.60	119597.71	413149.02
	Soda	172.11	616838.54	494331.77	201015.09	143413.61
Fruit Juices	Apple	753.06	3001359.86	2687772.61	856918.35	2259913.14
	Mango	052.40	2936329.66	3268923.21	820101.83	2947388.43
	Orange	359.46	1987636.38	2034214.16	1021825.30	1654674.29
Health Drinks	Chocolate	835908.67	3141761.82	4457324.55	1692179.87	3291347.11
	Strawberry	452219.57	1158769.74	1227242.05	304610.84	842103.16
Ice Cream	Pineapple	1246318.54	1639460.90	1659459.85	838523.46	1265264.26
	Vanilla	2209369.18	3931778.61	3914761.44	1821307.48	2749427.68
Snacks	Macaroni	349253.96	633710.82	707602.82	216972.74	718803.92
	Noodles	192396.74	680225.38	790520.84	272089.03	1045420.34
Tea	Ginger Tea	583407.00	516828.69	674347.97	238669.56	531230.37
	Green Tea	290305.28	224649.32	334968.15	181909.92	207329.86

CROSSTAB: REMOVE COLUMN



	Arizona	Arkansas	Florida	Ohio	Washington
	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

CROSSTAB: AFTER REMOVING PRODUCT NAME COLUMN

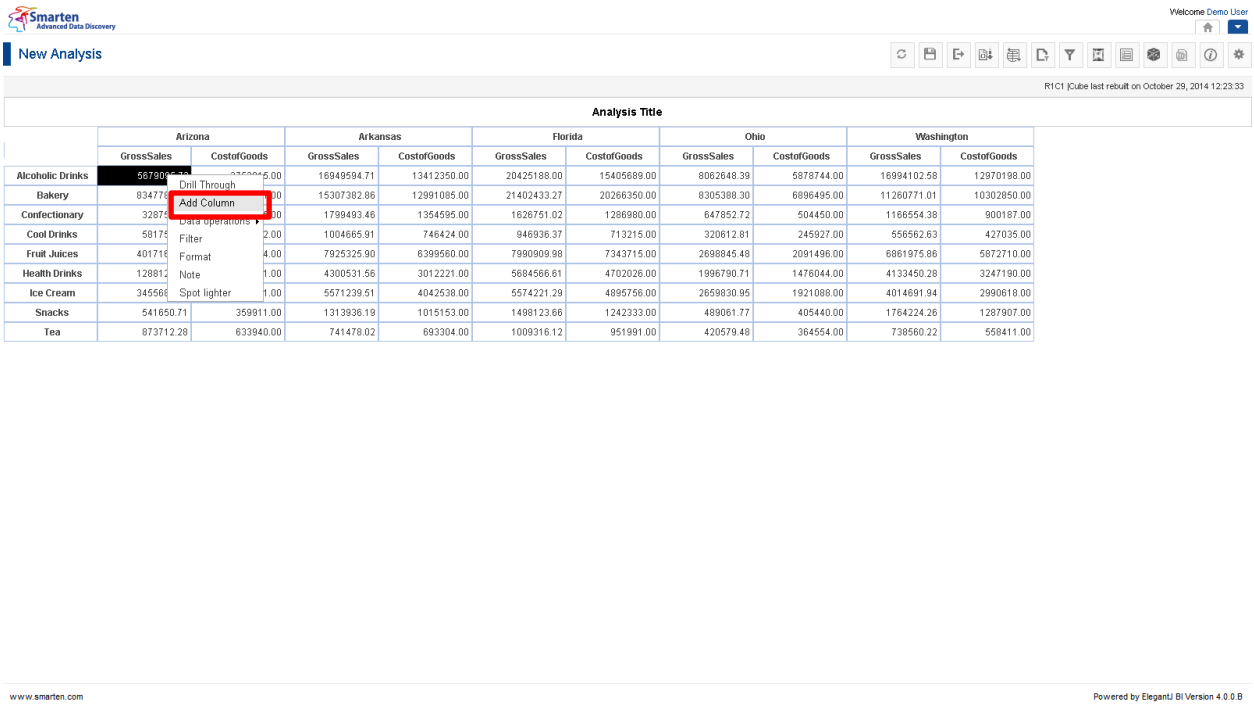
4.4.21 Custom Measure (UDDC)

Custom measures can be created by building formula on existing measure columns as per analysis or reporting requirements. You can also use global variables in custom measures formula.

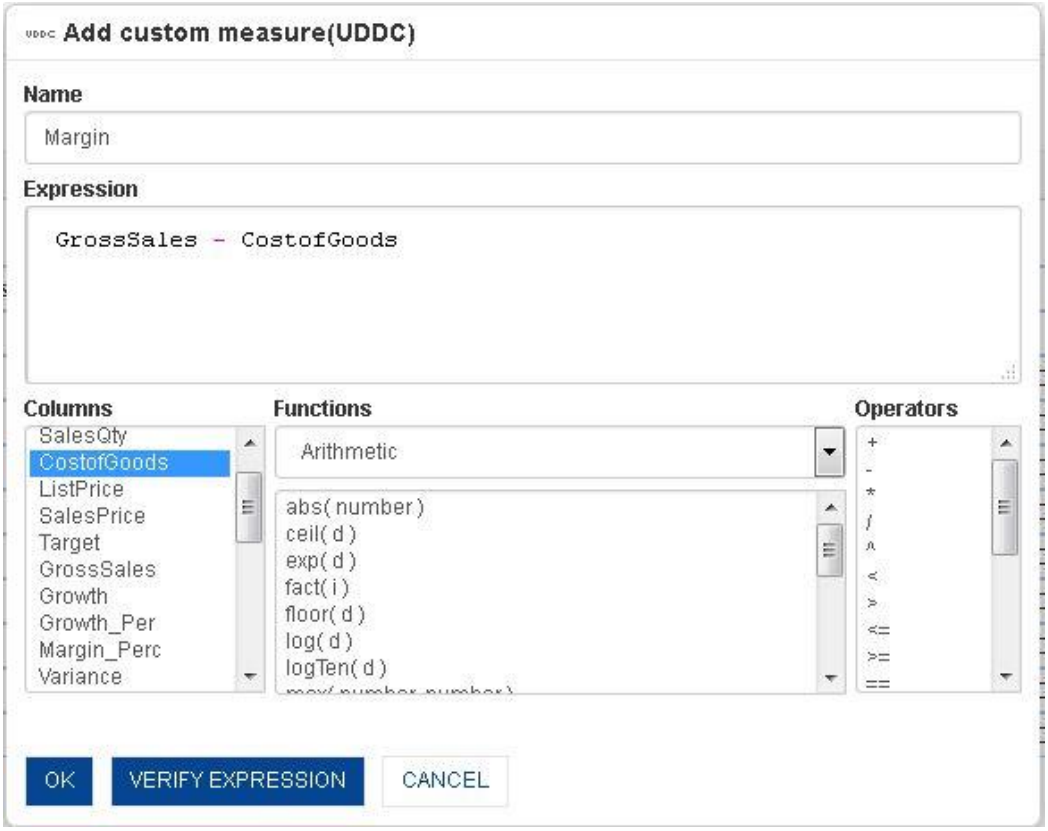
Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the crosstab, right-click on a specific cell in column or row dimension.
   The system displays the menu.
3. In the menu, select **Add Column.**

The system displays **Add custom measure (UDDC)** dialog box.



CROSSTAB: ADD COLUMN LINK IN RIGHT-CLICK MENU



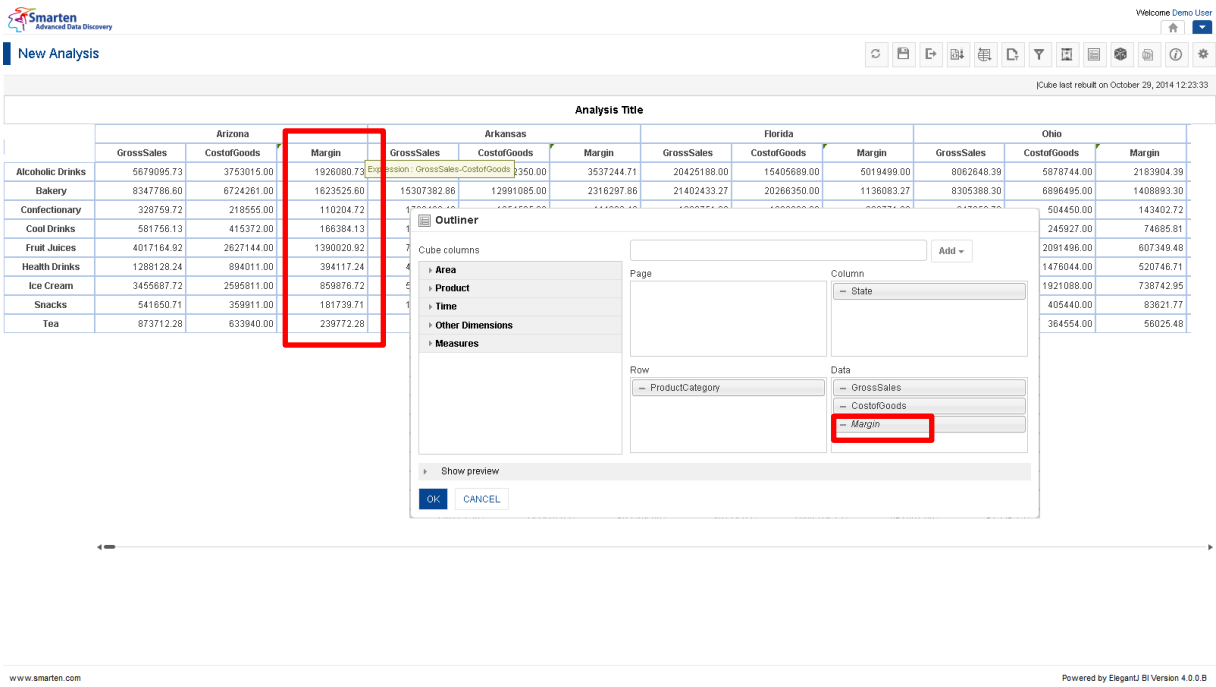
CROSSTAB: ADD CUSTOM MEASURE (UDDC)

4. In the Name field, enter a name.
5. You can create or edit expression by direct edit in the **Expression** box or by selecting values from **Columns**, **Functions**, and **Operators** boxes.

6. Explain verify expression. It will verify expression and display message if this expression is valid or not.
7. Click **OK**.

Field	Description
UDDC Name	Name of UDDC
Columns	Displays list of columns
Functions	Select Functions from available list
Operators	Select any operator
Expression Builder	Created expression is displayed

TABLE: CROSSTAB: CUSTOM MEASURE (UDDC)



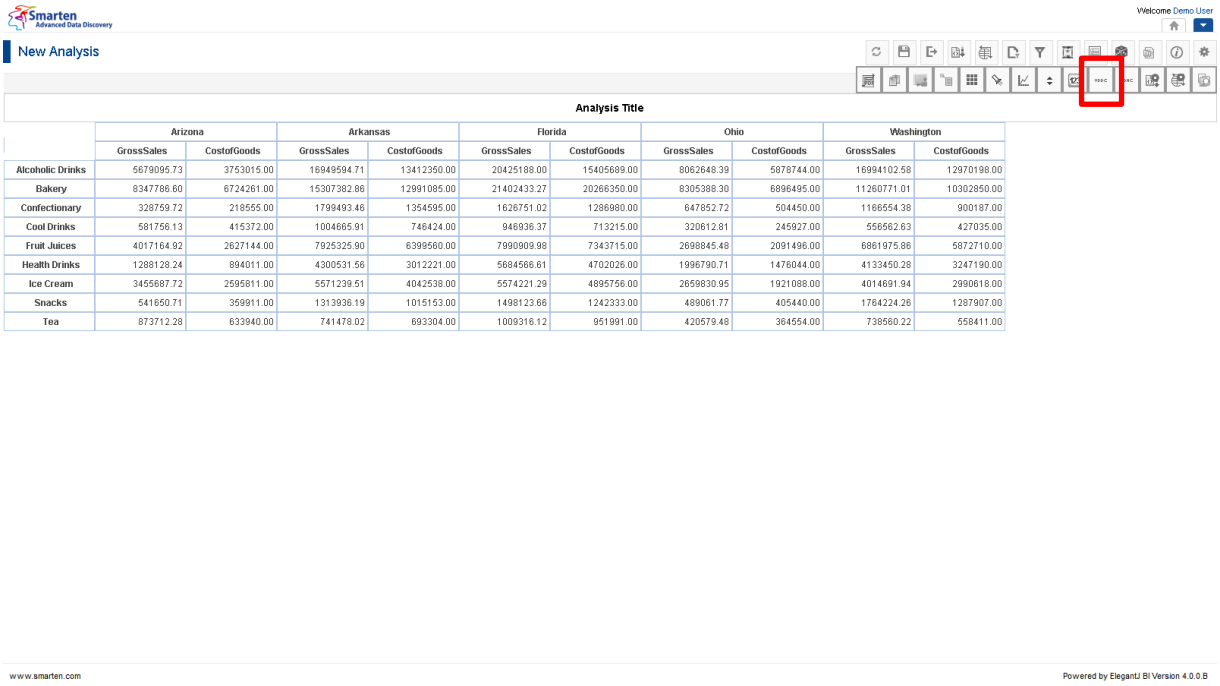
CROSSTAB WITH CUSTOM MEASURE (UDDC): MARGIN

4.4.21.1 Create & Manage Templates

The Custom Measures (UDDC) operation used in crosstab is available as templates in Smarten. The Custom Measure (UDDC) available in templates can be reused by various users while creating different crosstab.

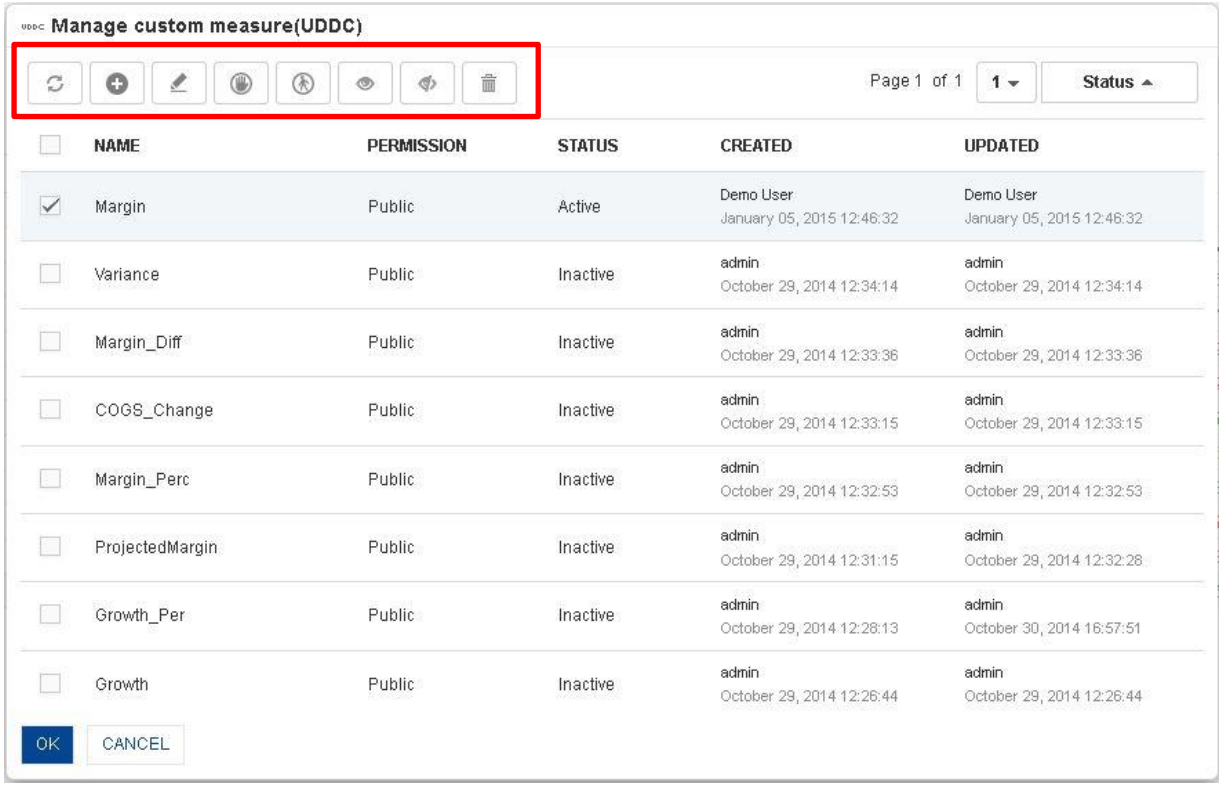
Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage UDDC.**
   The system displays the **Manage UDDC** dialog box.
4. In the **Manage UDDC** dialog box, select a checkbox in front of a custom measure name.
   The system displays a toolbar for managing custom measure (UDDC) template.



	Arizona		Arkansas		Florida		Ohio		Washington	
	GrossSales	CostofGoods	GrossSales	CostofGoods	GrossSales	CostofGoods	GrossSales	CostofGoods	GrossSales	CostofGoods
Alcoholic Drinks	5679095.73	3753015.00	16949594.71	13412350.00	20425188.00	15405689.00	8062648.39	5878744.00	16994102.58	12970198.00
Bakery	8347786.60	6724261.00	15307382.86	12991085.00	21402433.27	20266350.00	8305388.30	6896495.00	11260771.01	10302850.00
Confectionary	328759.72	218555.00	1799493.46	1354595.00	1626751.02	1286980.00	647852.72	504450.00	1166554.38	900187.00
Cool Drinks	581756.13	415372.00	1004665.91	746424.00	946936.37	713215.00	320612.81	245927.00	556562.63	427035.00
Fruit Juices	4017164.92	2627144.00	7925325.90	6399560.00	7990909.98	7343715.00	2698845.48	2091496.00	6861975.86	5872710.00
Health Drinks	1288128.24	894011.00	4300531.56	3012221.00	5684566.61	4702026.00	1996790.71	1476044.00	4133450.28	3247190.00
Ice Cream	3455687.72	2595811.00	5571239.51	4042538.00	5574221.29	4895756.00	2659830.95	1921088.00	4014691.94	2990618.00
Snacks	541650.71	359911.00	1313936.19	1015153.00	1498123.66	1242333.00	489061.77	405440.00	1764224.26	1287907.00
Tea	873712.28	633940.00	741478.02	693304.00	1009316.12	951991.00	420579.48	364554.00	738560.22	558411.00

CROSSTAB: MANAGE UDDC ICON IN TOOLBAR



CROSSTAB: CUSTOM MEASURE (UDDC) TEMPLATE

CROSSTAB: CUSTOM MEASURE (UDDC) TEMPLATE TOOLBAR

Icon	Icon name
	Refresh
	Add
	Edit
	Private
	Public
	Active
	Inactive
	Delete

CROSSTAB: CUSTOM MEASURE (UDDC) TEMPLATE TOOLBAR OPTIONS

> Note:
> Templates can be edited or deleted only by creator of the template or the administrator.

Reference: **Concept Manual >Designing the Data Model >Cube Repository Objects > Custom Measures (UDDC)**

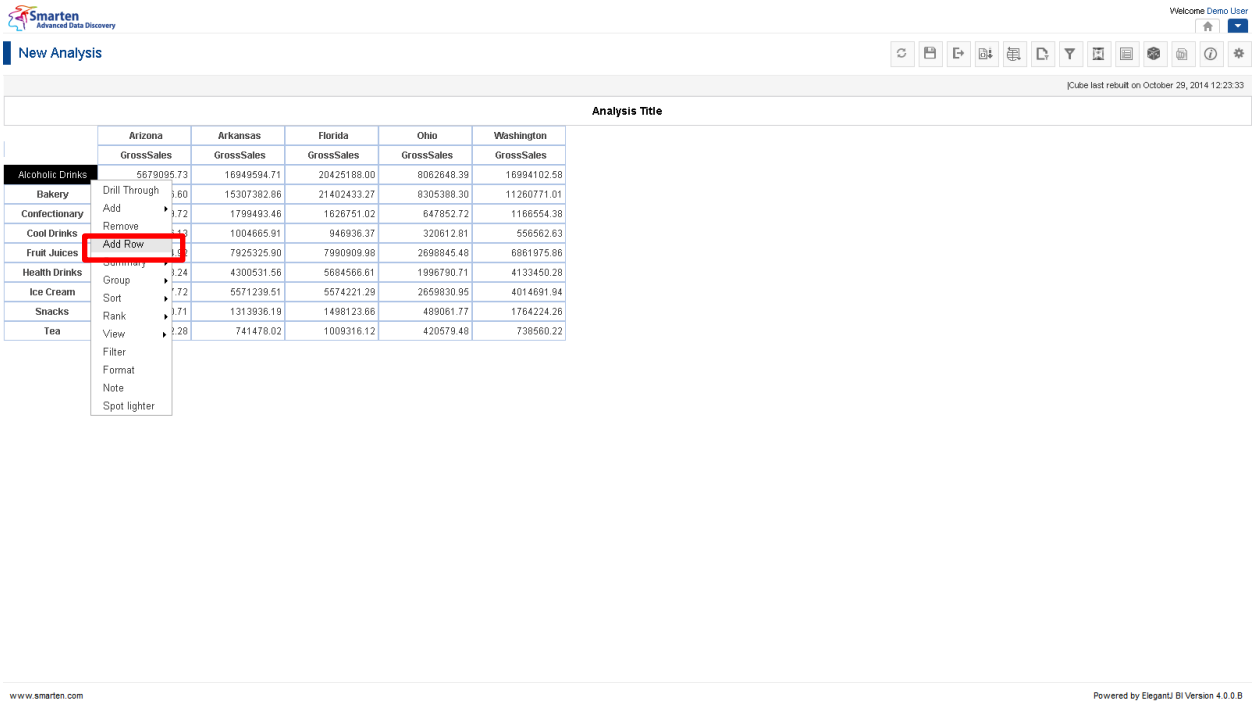
Reference: **Concept Manual > Analytic Functions > UDDC & UDHC > Custom Measures (UDDC)**

4.4.22 Custom Dimension Value (UDHC)

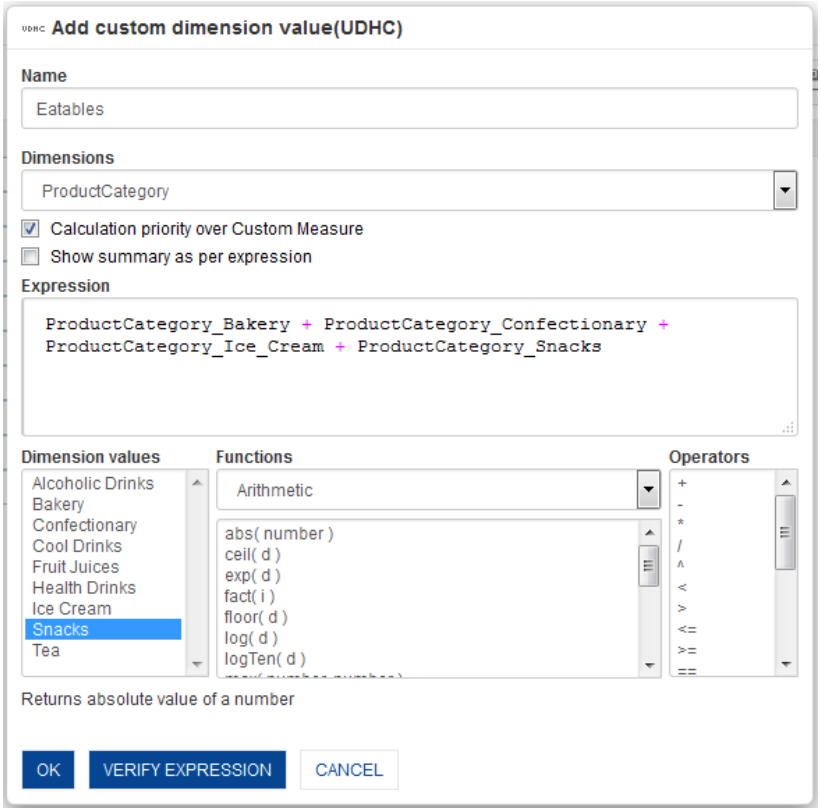
Custom dimension value columns or rows can be created by applying a formula to an existing row and column values as per the analysis or reporting requirements.

Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the crosstab, right-click on a specific cell in column or row dimension.
   The system displays the menu.
3. In the menu, select **Add Row.**
   The system displays **Add custom dimension value (UDDC)** dialog box.



CROSSTAB: ADD ROW LINK FROM RIGHT-CLICK MENU



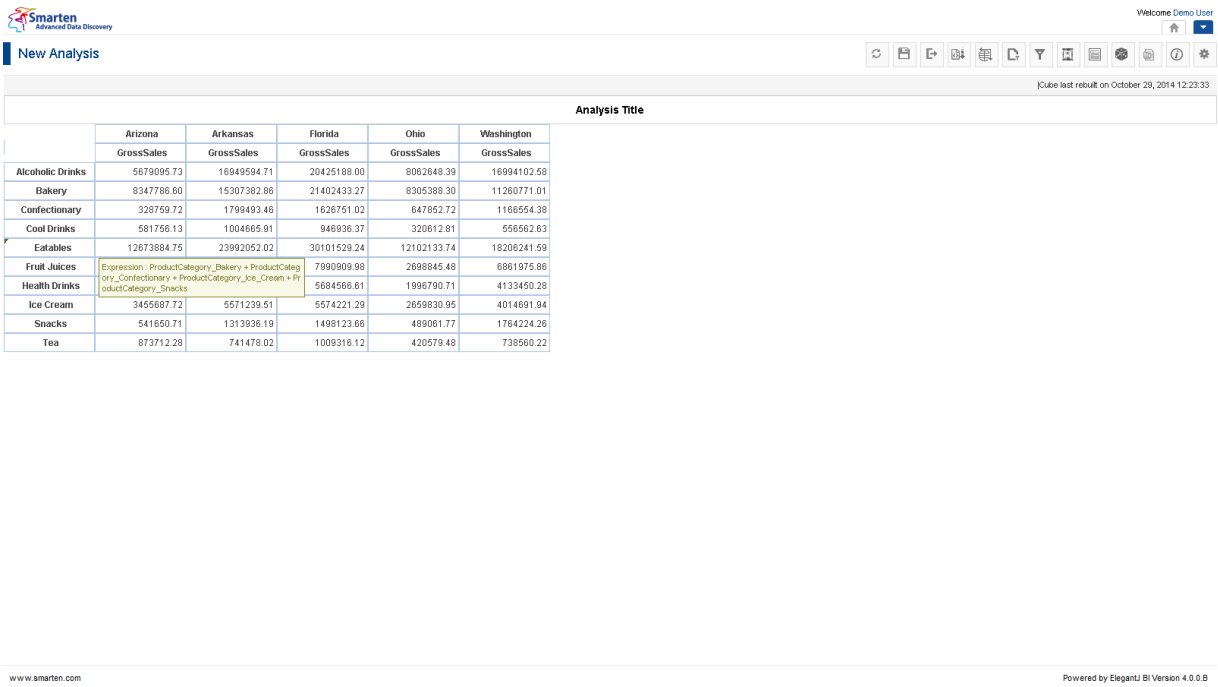
CROSSTAB: ADDING CUSTOM DIMENSION VALUES (UDHC)—ADD ROW

4. In the **Name** field, enter a name.
5. In the **Dimension** drop-down list, select a value.
6. Select **Calculation priority over Custom Measure** checkbox if you want to override priority of Custom Measure display value.
7. Select **Show summary as per expression** checkbox if you want to calculate summary value of UDHC row/column based on UDHC expression.

8. You can create or edit expression by direct edit in the **Expression** box or by selecting values from Dimension Values, Functions, and Operators boxes.
9. Click **OK**.

Field	Description
UDHC Name	Name of UDHC
Dimension	Displays list of dimensions
Calculation priority over Custom Measure	To choose the priority of intersection value based on the UDHC formula
Dimension values	Displays list of values of selected dimension
Functions	Select Functions from available list
Operators	Select any operator
Expression Builder	Created expression is displayed

TABLE: CROSSTAB: CUSTOM DIMENSION VALUES (UDHC)



	Arizona	Arkansas	Florida	Ohio	Washington
	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Eatables	12673884.75	23992052.02	30101529.24	12102133.74	18206241.59
Fruit Juices			7990909.98	2698845.48	6861975.86
Health Drinks			5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

CROSSTAB: WITH CUSTOM DIMENSION VALUES (UDHC): EATABLES

UDHC with Calculation priority over Custom Measure option

Smarten Advanced Data Discovery

Welcome Demo User

New Analysis

|Cube last rebuilt on October 29, 2014 12:23:33

Analysis Title

	Arizona			Arkansas			Florida			Ohio		
	GrossSales	CostofGoods	Margin_Per	GrossSales	CostofGoods	Margin_Per	GrossSales	CostofGoods	Margin_Per	GrossSales	CostofGoods	Margin_Per
Alcoholic Drinks	5679095.73	3753015.00	33.9			20.87	20425188.00	15405689.00	24.58	8062648.39	5878744.00	27.09
Bakery	8347786.60	6724261.00	19.45			15.13	21402433.27	20266350.00	5.31	8305388.30	6896495.00	16.96
Confectionary	328759.72	218555.00	33.52	1799493.46	1354595.00	24.72	1626751.02	1286980.00	20.89	647852.72	504450.00	22.14
Cool Drinks	581756.13	415372.00	28.60	1004665.91	746424.00	25.70	946936.37	713215.00	24.68	320612.81	245927.00	23.29
Eatables	12673884.75	9898538.00		23992052.02	19403371.00	90.03	30101529.24	27691419.00	55.44	12102133.74	9727473.00	83.97
Fruit Juices			34.60	7925325.90	6399560.00	19.25	7990909.98	7343715.00	8.10	2698845.48	2091496.00	22.50
Health Drinks			30.60	4300531.56	3012221.00	29.96	5684566.61	4702026.00	17.28	1996790.71	1476044.00	26.08
Ice Cream	3455687.72	2595811.00	24.88	5571239.51	4042538.00	27.44	5574221.29	4895756.00	12.17	2659830.95	1921088.00	27.77
Snacks	541650.71	359911.00	33.55	1313936.19	1015153.00	22.74	1498123.66	1242333.00	17.07	489061.77	405440.00	17.10
Tea	873712.28	633940.00	27.44	741478.02	693304.00	6.50	1009316.12	951991.00	5.68	420579.48	364554.00	13.32

Expression : (((GrossSales-CostofGoods)/GrossSales)*100)

Expression : ProductCategory_Bakery + ProductCategory_Confectionary + ProductCategory_Ice_Cream + ProductCategory_Snacks

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INTERSECTION VALUE AFTER SELECTING THE PRIORITY OVER UDDC

UDHC without Calculation priority over Custom Measure option

Smarten Advanced Data Discovery

Welcome Demo User

New Analysis

|Cube last rebuilt on October 29, 2014 12:23:33

Analysis Title

	Arizona			Arkansas			Florida			Ohio		
	GrossSales	CostofGoods	Margin%	GrossSales	CostofGoods	Margin%	GrossSales	CostofGoods	Margin%	GrossSales	CostofGoods	Margin%
Alcoholic Drinks	5679095.73	3753015.00	33.92			20.87	20425188.00	15405689.00	24.58	8062648.39	5878744.00	27.09
Bakery	8347786.60	6724261.00	19.45			15.13	21402433.27	20266350.00	5.31	8305388.30	6896495.00	16.96
Confectionary	328759.72	218555.00	33.52	1799493.46	1354595.00	24.72	1626751.02	1286980.00	20.89	647852.72	504450.00	22.14
Cool Drinks	581756.13	415372.00	28.60	1004665.91	746424.00	25.70	946936.37	713215.00	24.68	320612.81	245927.00	23.29
Eatables	12673884.75	9898538.00		23992052.02	19403371.00	19.13	30101529.24	27691419.00	8.01	12102133.74	9727473.00	19.62
Fruit Juices			34.60	7925325.90	6399560.00	19.25	7990909.98	7343715.00	8.10	2698845.48	2091496.00	22.50
Health Drinks			30.60	4300531.56	3012221.00	29.96	5684566.61	4702026.00	17.28	1996790.71	1476044.00	26.08
Ice Cream	3455687.72	2595811.00	24.88	5571239.51	4042538.00	27.44	5574221.29	4895756.00	12.17	2659830.95	1921088.00	27.77
Snacks	541650.71	359911.00	33.55	1313936.19	1015153.00	22.74	1498123.66	1242333.00	17.07	489061.77	405440.00	17.10
Tea	873712.28	633940.00	27.44	741478.02	693304.00	6.50	1009316.12	951991.00	5.68	420579.48	364554.00	13.32

Expression : (((GrossSales-CostofGoods)/GrossSales)*100)

Expression : ProductCategory_Bakery + ProductCategory_Confectionary + ProductCategory_Ice_Cream + ProductCategory_Snacks

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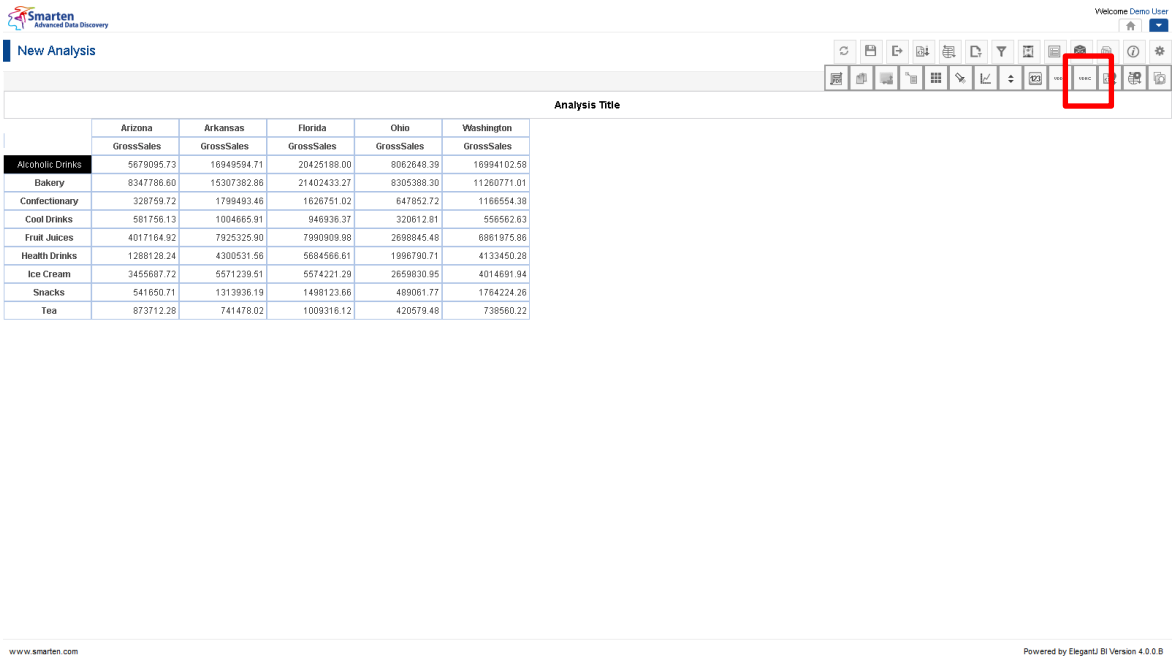
INTERSECTION VALUE WITHOUT SELECTING THE PRIORITY OVER UDDC

Reference: **Concept Manual >Designing the Data Model >Cube Repository Objects > Custom Dimension Value (UDHC)**

4.4.22.1 Create & Manage Templates

Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage UDHC.**
   The system displays the **Manage custom dimension value (UDHC)** dialog box.

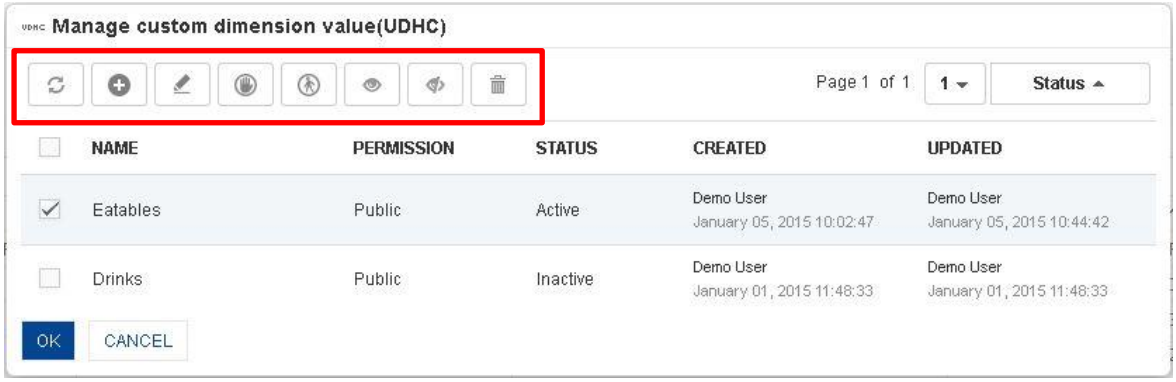


	Arizona	Arkansas	Florida	Ohio	Washington
	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

CROSSTAB: MANAGE UDHC ICON FROM TOOLBAR

4. In the **Manage custom dimension value (UDHC)** dialog box, select a checkbox in front of a custom dimension value name.

   The system displays a toolbar for managing custom dimension value (UDDC) template.



CROSSTAB: CUSTOM DIMENSION VALUES (UDHC) TEMPLATES

CROSSTAB: CUSTOM DIMENSION VALUES (UDHC) TEMPLATE TOOLBAR

Icon	Icon name
	Refresh
	Add
	Edit
	Private
	Public
	Active
	Inactive
	Delete

CROSSTAB: CUSTOM DIMENSION VALUES (UDHC) TEMPLATE TOOLBAR OPTIONS

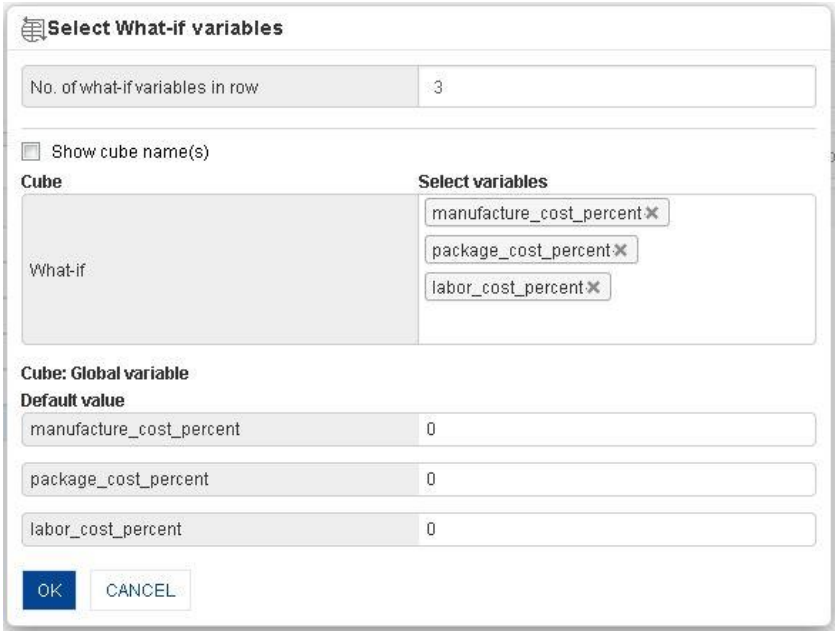
> Note:
> Templates can be edited or deleted only by creator of the template or the administrator.

4.4.23 What-if variables

Global variables used in Custom measures can be selected as what-if variables as per analysis or reporting requirements

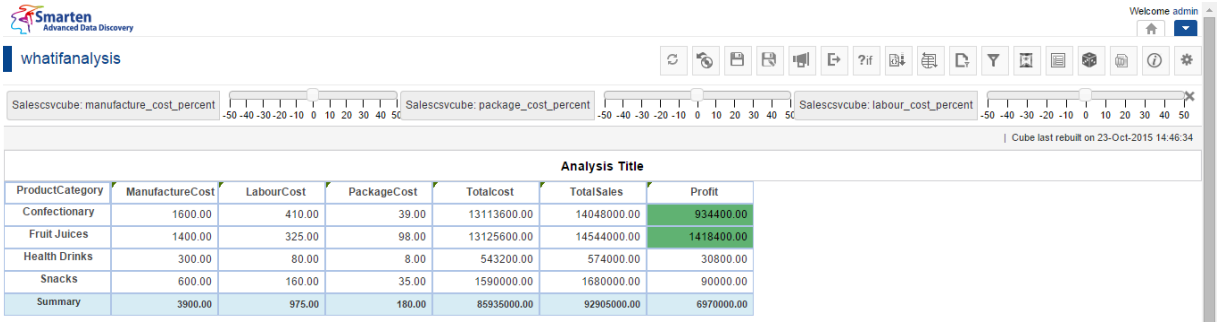
Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Select What-if variables.**
   The system displays the **Select What-if variables** dialog box.
5. In the **No. of what-if variables in row** field, enter a value



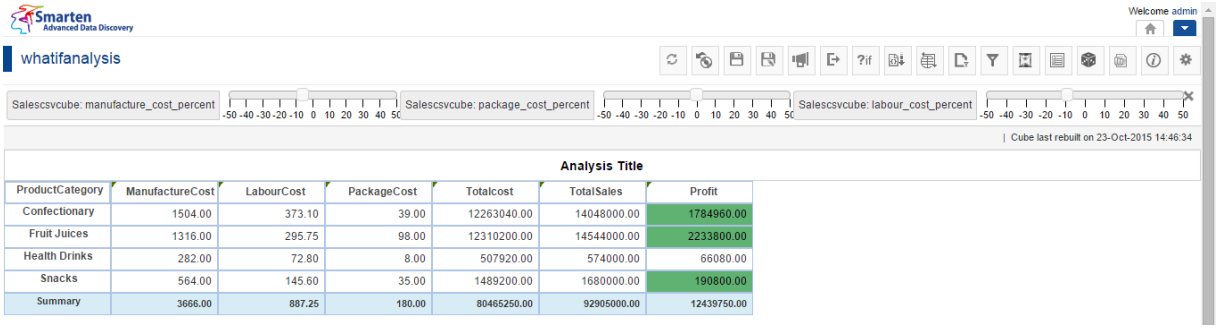
CROSSTAB: SELECT WHAT-IF VARIABLES: SELECTING WHAT-IF VARIABLES

6. In the **Select What-if variables** box, select variables from list of value.
   The system displays selected global variables with default value.



ProductCategory	ManufactureCost	LabourCost	PackageCost	Totalcost	TotalSales	Profit
Confectionary	1600.00	410.00	39.00	13113600.00	14048000.00	934400.00
Fruit Juices	1400.00	325.00	98.00	13125600.00	14544000.00	1418400.00
Health Drinks	300.00	80.00	8.00	543200.00	574000.00	30800.00
Snacks	600.00	160.00	35.00	1590000.00	1680000.00	90000.00
Summary	3900.00	975.00	180.00	85935000.00	92905000.00	6970000.00

WHAT-IF ANALYSIS BEFORE CHANGING WHAT-IF VARIABLE VALUE



ProductCategory	ManufactureCost	LabourCost	PackageCost	Totalcost	TotalSales	Profit
Confectionary	1504.00	373.10	39.00	12263040.00	14048000.00	1784960.00
Fruit Juices	1316.00	295.75	98.00	12310200.00	14544000.00	2233800.00
Health Drinks	282.00	72.80	8.00	507920.00	574000.00	66080.00
Snacks	564.00	145.60	35.00	1489200.00	1680000.00	190800.00
Summary	3666.00	887.25	180.00	80465250.00	92905000.00	12439750.00

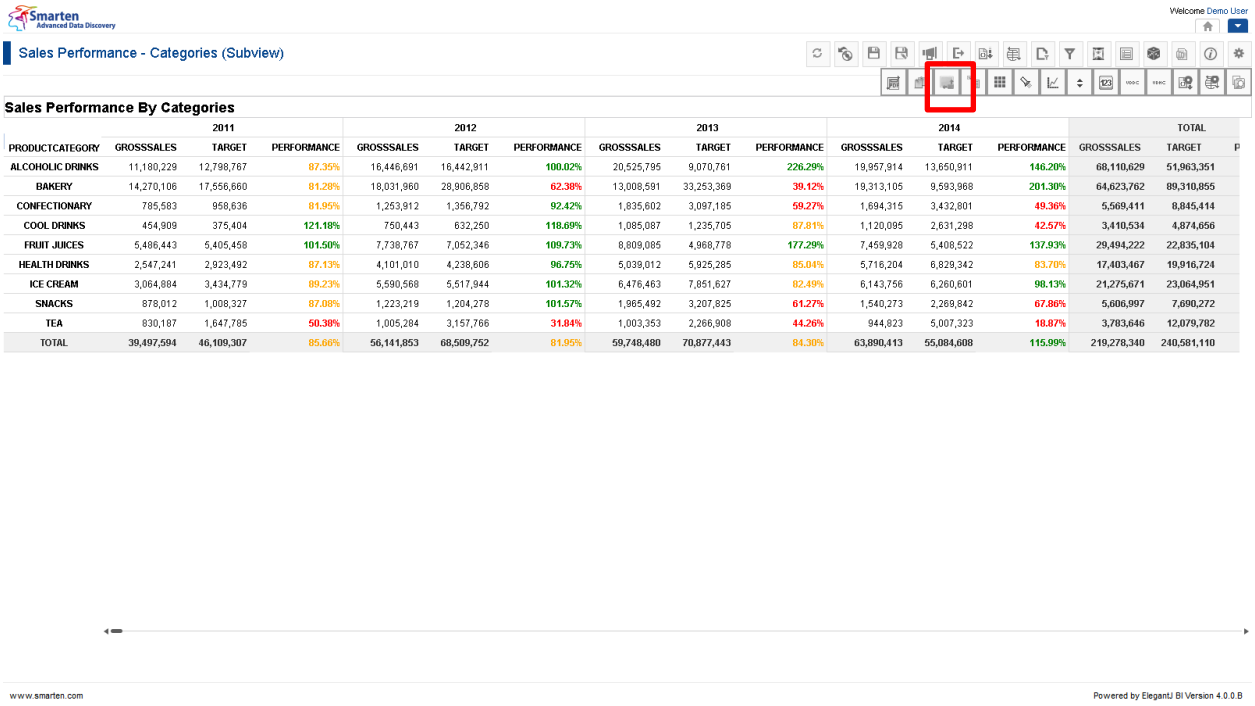
WHAT-IF ANALYSIS AFTER CHANGING WHAT-IF VARIABLE VALUE

Reference: **Concept Manual > Analytic Functions > What-if Analysis**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

4.4.24 Subview

Subview allows drill-down view of same or different set of columns from the higher level. You can view detailed information of dimensions by associating them with another relevant crosstab or tabular.

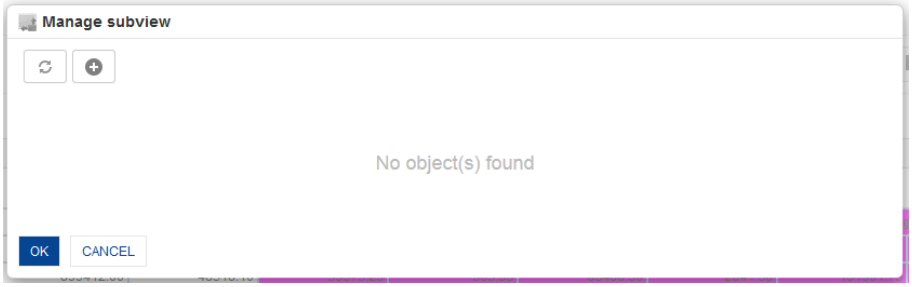


	2011			2012			2013			2014			TOTAL		
PRODUCTCATEGORY	GROSSSALES	TARGET	PERFORMANCE	GROSSSALES	TARGET	PERFORMANCE	GROSSSALES	TARGET	PERFORMANCE	GROSSSALES	TARGET	PERFORMANCE	GROSSSALES	TARGET	P
ALCOHOLIC DRINKS	11,180,229	12,798,767	87.35%	16,446,691	16,442,911	100.02%	20,525,795	9,070,761	226.29%	19,957,914	13,650,911	146.20%	68,110,629	51,963,351	
BAKERY	14,270,106	17,556,660	81.28%	18,031,960	28,906,858	62.38%	13,008,591	33,253,369	39.12%	19,313,105	9,593,968	201.30%	64,623,762	89,310,855	
CONFECTIONARY	785,583	958,636	81.95%	1,253,912	1,356,792	92.42%	1,835,602	3,097,185	59.27%	1,694,315	3,432,801	49.36%	5,569,411	8,845,414	
COOL DRINKS	454,909	375,404	121.18%	750,443	632,250	118.69%	1,085,087	1,235,705	87.81%	1,120,095	2,631,298	42.57%	3,410,534	4,874,656	
FRUIT JUICES	5,486,443	5,405,458	101.50%	7,738,767	7,052,346	109.73%	8,809,085	4,968,778	177.29%	7,459,928	5,408,522	137.93%	29,494,222	22,835,104	
HEALTH DRINKS	2,547,241	2,923,492	87.13%	4,101,010	4,238,606	96.75%	5,039,012	5,925,285	85.04%	5,716,204	6,829,342	83.70%	17,403,467	19,916,724	
ICE CREAM	3,064,884	3,434,779	89.23%	5,590,568	5,517,944	101.32%	6,476,463	7,851,627	82.49%	6,143,756	6,260,601	98.13%	21,275,671	23,064,951	
SNACKS	878,012	1,008,327	87.08%	1,223,219	1,204,278	101.57%	1,965,492	3,207,825	61.27%	1,540,273	2,269,842	67.86%	5,606,997	7,690,272	
TEA	830,187	1,647,785	50.38%	1,005,284	3,157,766	31.84%	1,003,353	2,266,908	44.26%	944,823	5,007,323	18.87%	3,783,646	12,079,782	
TOTAL	39,497,594	46,109,307	85.66%	56,141,853	68,509,752	81.95%	59,748,480	70,877,443	84.30%	63,890,413	55,084,608	115.99%	219,278,340	240,581,110	

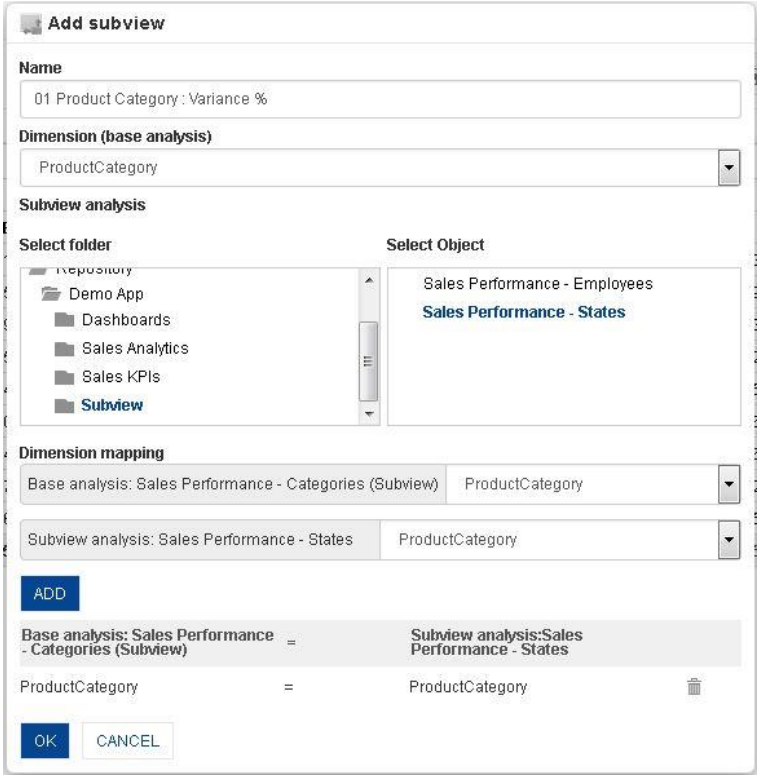
CROSSTAB: MANAGE SUBVIEW ICON

Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage Subviews.**
   The system displays the **Manage Subviews** dialog box.



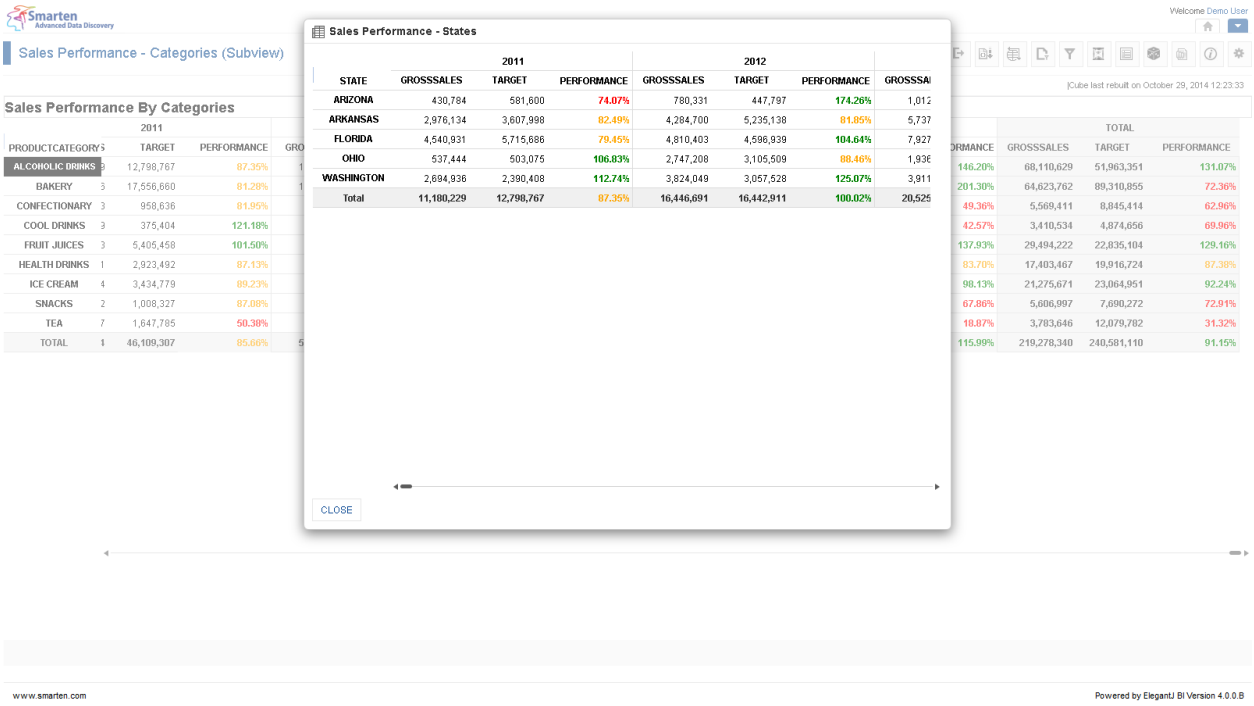
4. In the Click **Manage Subviews** dialog box, click the Add icon.
   The system displays the **Add Subview** dialog box.



CROSSTAB: CONFIGURING SUBVIEW

5. In the **Name** field, enter a name.
6. From the **Dimension (base analysis)** drop-down list, select dimension or measure name for the base analysis.
7. In the **Subview analysis** section, select Subview option from the **Select folder** box and an option from the **Select Object** box.
8. In the **Dimension mapping** section, select join options for Base analysis and Subview analysis.
9. Click **ADD.**
   The system displays the selected options in the **Dimension mapping** section.
   You can also delete the added option by clicking **Delete** icon.
10. Click **OK.**

Note:
You can associate crosstab object as subview to tabular object, and vice versa.
You can associate crosstab or tabular created from real-time cubes with crosstab or tabular created from cache cubes, and vice versa.

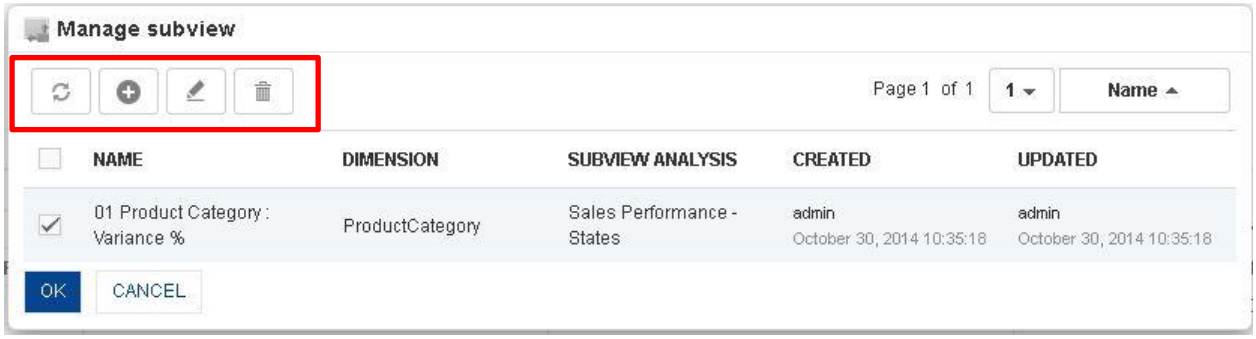


CROSSTAB: WITH SUBVIEW

4.4.24.1 Create and Manage Templates

Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage subviews.**
   The system displays the **Manage subviews** dialog box.
4. In the **Manage subviews** dialog box, select a checkbox in front of a subview name.
   The system displays a toolbar to manage subviews template.



CROSSTAB: MANAGE SUBVIEW TEMPLATE

CROSSTAB: MANAGE SUBVIEW TEMPLATE TOOLBAR

Icon	Icon name
	Refresh
	Add
	Edit
	Delete

CROSSTAB: MANAGE SUBVIEW TEMPLATE TOOLBAR OPTIONS

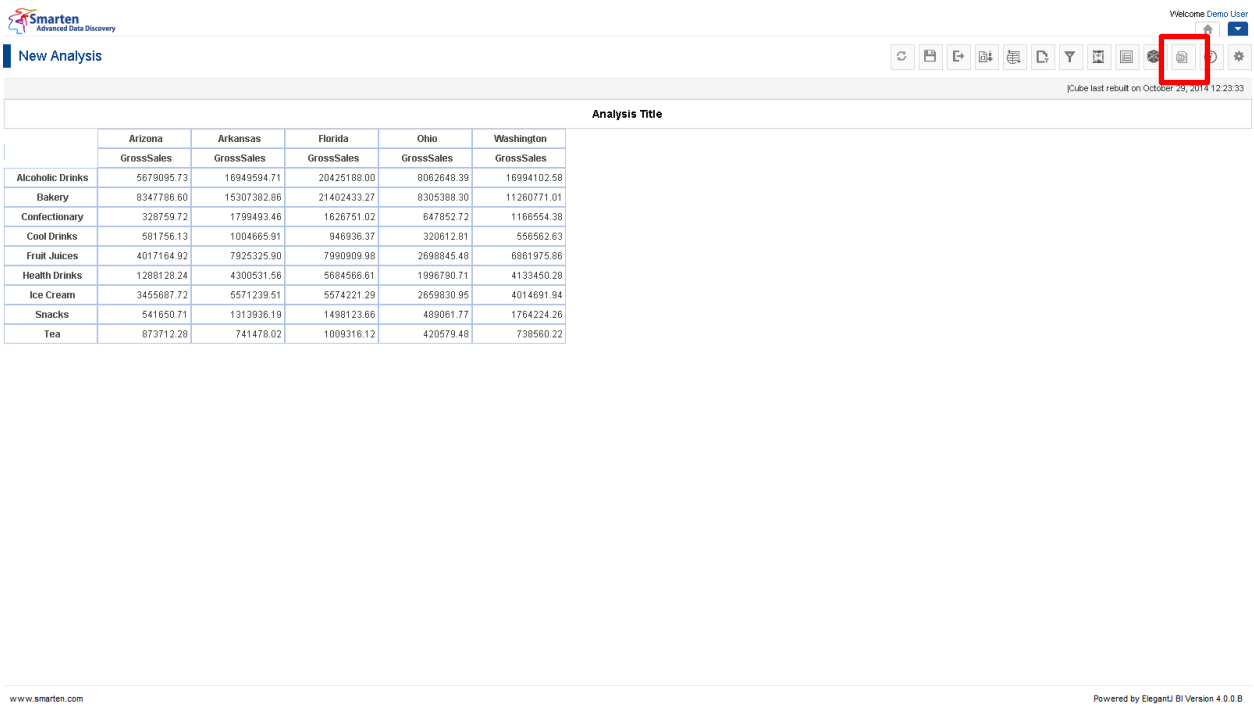
Reference: **Concept Manual > Analytic Functions > Subview**

4.4.25 Auto Generate Graph from Crosstab

You can generate graphs directly from crosstab view without having to configure the data again to see graphical representation of crosstab data. Graphs auto generated from crosstab will be available to you with full interactive analysis features, like slice and dice, drill down, rank, and filter.

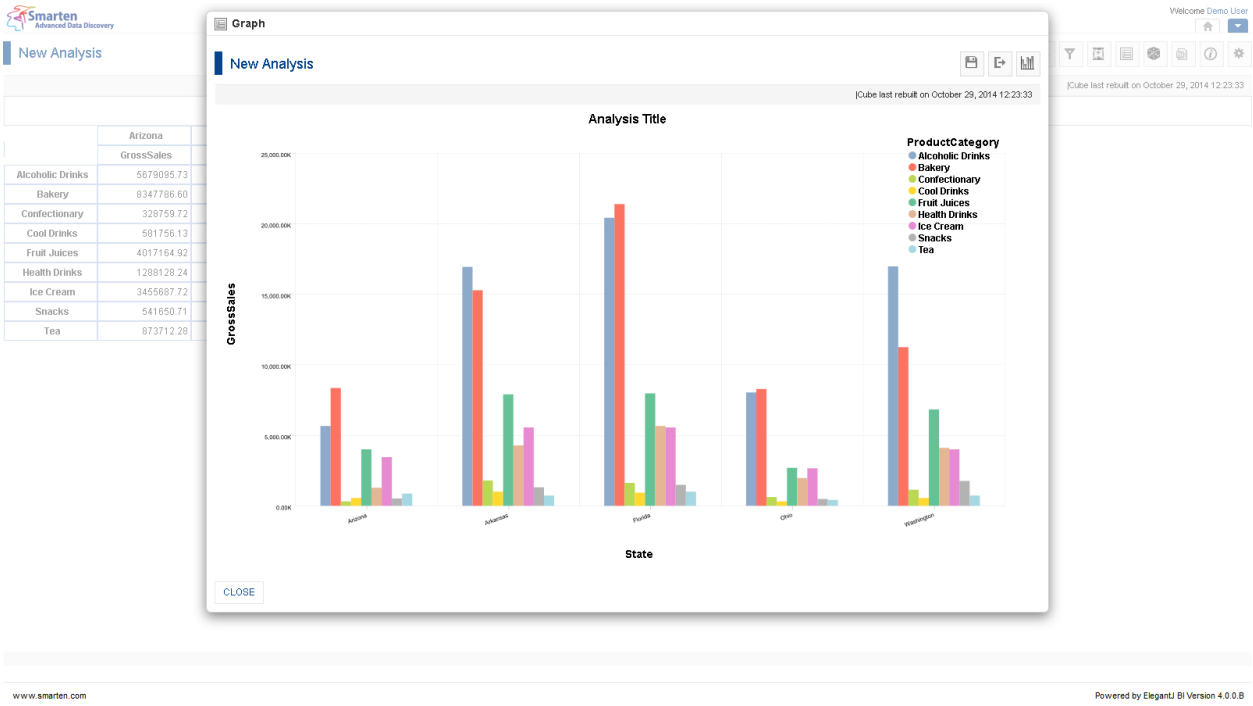
Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the Crosstab Toolbar, click **Graph.**
   The system displays the graph for selected crosstab. If you select some of the cells of crosstab and click **Graph**, then the graph will be generated as per the selected cells.



	Arizona	Arkansas	Florida	Ohio	Washington
	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647952.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

CROSSTAB: GRAPH ICON IN TOOLBAR



CROSSTAB: VIEWING GRAPH BASED ON CROSSTAB

To perform detailed operations on graphs as drill down and drill up, sorting, ranking, and advanced filtering options from the Graphs.

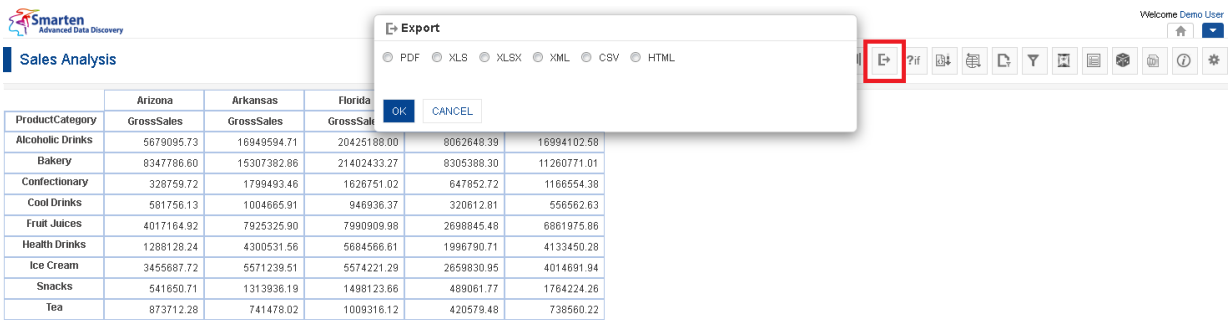
Reference:	**User Manual> Working with Graphs**

4.4.26 Export Crosstab

Crosstab can be exported to CSV, XML, PDF, HTML and other formats for optimal interoperability with other business applications.

Procedure

1. In the **Repository**, open crosstab.
   The system displays the crosstab.
2. In the Crosstab Toolbar, click **Export.**
   The system displays the **Export** dialog box.
3. Select the desired radio button (PDF, XLS, XLSX, XML, CSV, or HTML).
4. Click **OK.**



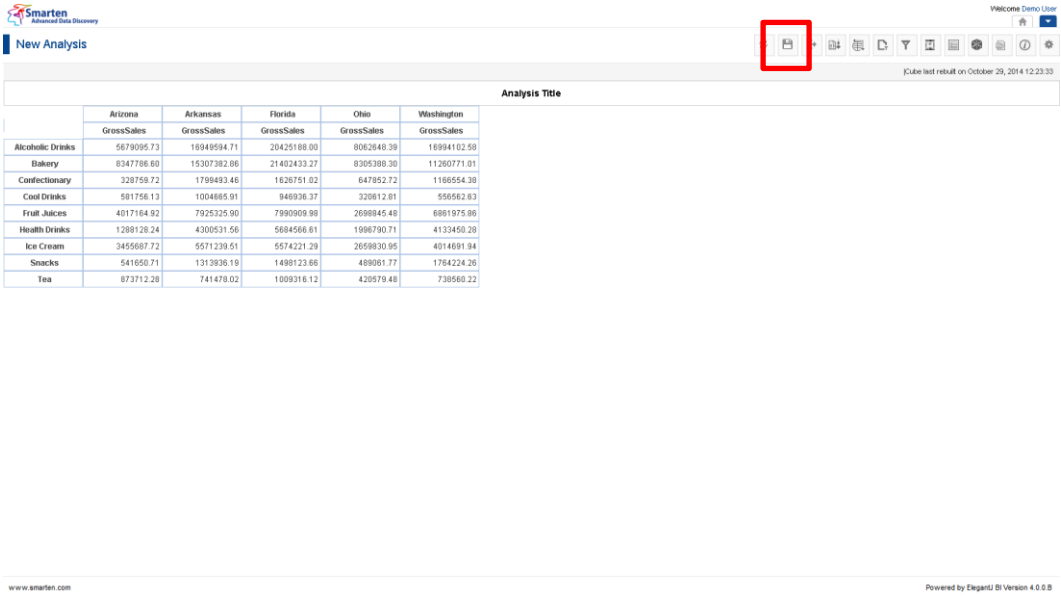
CROSSTAB: EXPORT ICON & DIALOG

> Note:
> While you export crosstab to XLS format, colour of exported files may not exactly match colour of crosstab on screen due to limitations on support of colours.

4.4.27 Save Crosstab

You have the following functions to Save Crosstab:

- Save
- Save As



	Arizona	Arkansas	Florida	Ohio	Washington
	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004685.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

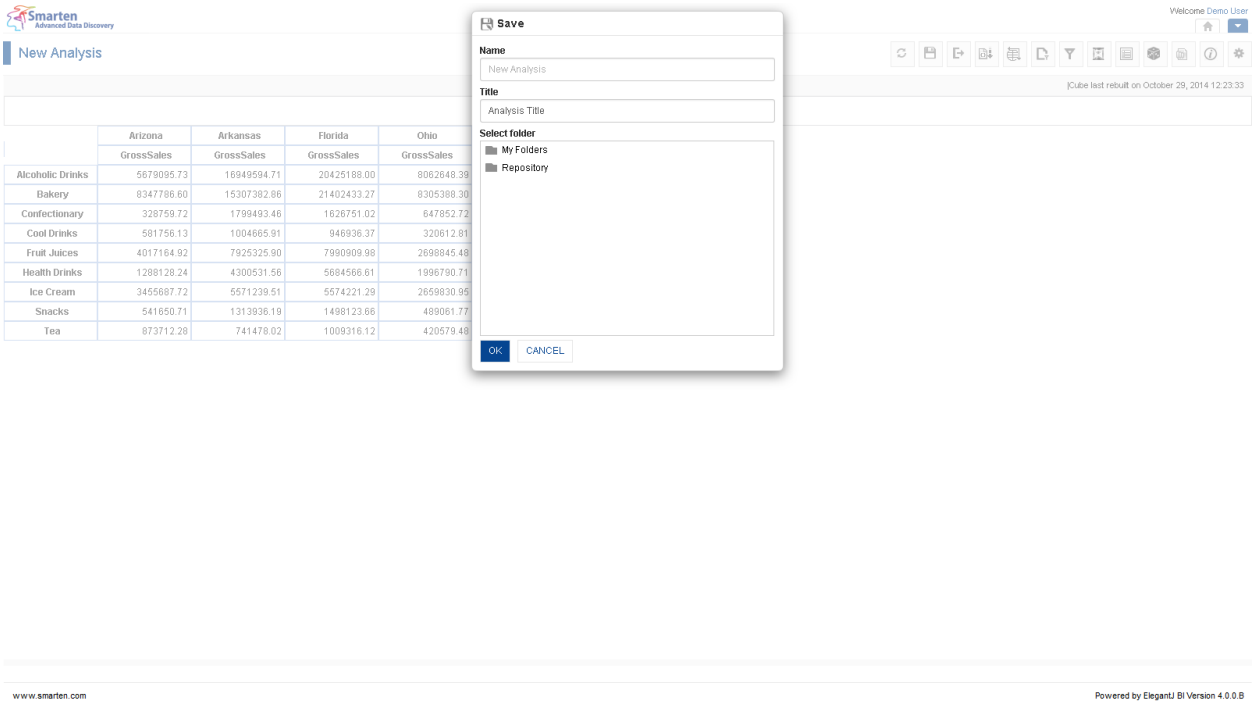
CROSSTAB: SAVE

4.4.27.1 Save

You can either create and save a new crosstab or modify and save an existing crosstab.

Procedure

1. In the **Repository**, open crosstab.
   The system displays the crosstab.
2. In the Crosstab Toolbar, click **Save.**
   The system displays the **Save** dialog box.



CROSSTAB: SAVE DIALOG

3. In the **Name** field, enter a name.
4. In the **Title** field, enter a title.
5. In the **Select Folder** box, choose a folder.
6. Click **OK.**

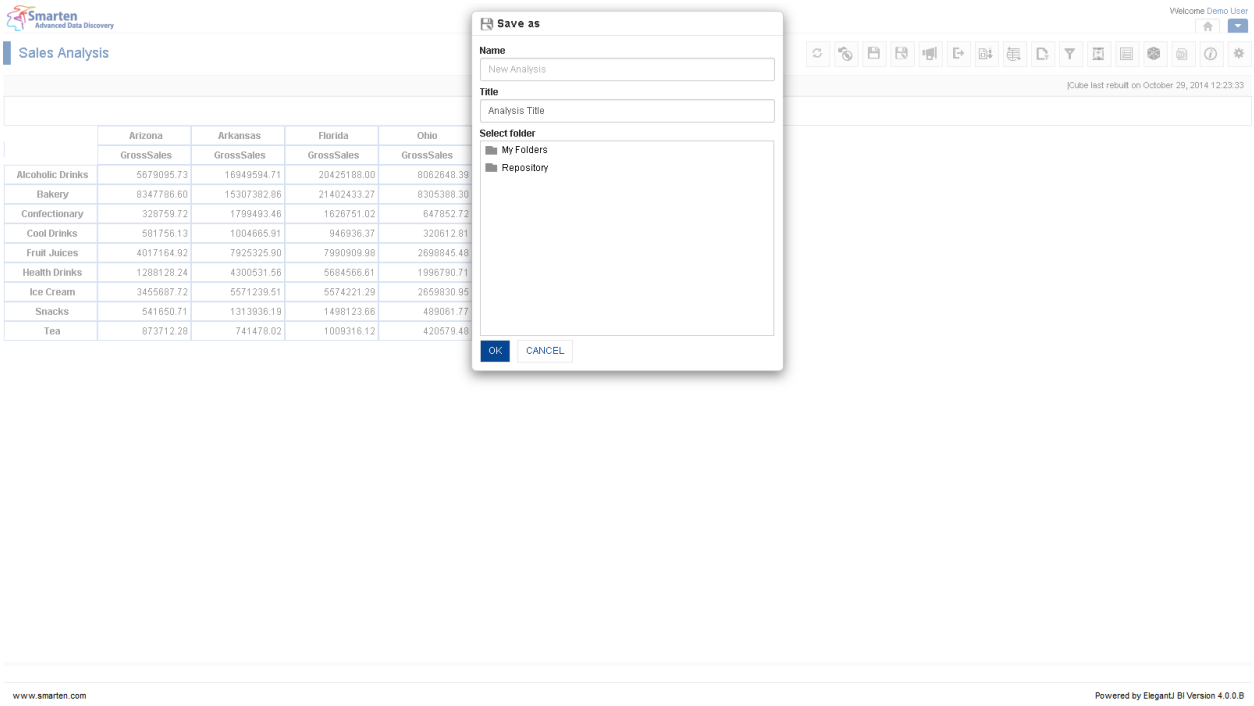
   The system displays the newly saved crosstab

4.4.27.2 Save As

You can use this option to save a copy of an existing crosstab with a new name.

Procedure

1. Follow the **Procedure** of **Save** given above or open an existing crosstab.
2. In the Crosstab Toolbar, click **Save as.**
   The system displays the **Save as** dialog box.



CROSSTAB: SAVE AS DIALOG

3. In the **Name** field, enter a name.
4. In the **Title** field, enter a title.
5. In the **Select Folder** box, choose a folder.
6. Click **OK.**

   The system creates a copy of an existing crosstab with a new name.

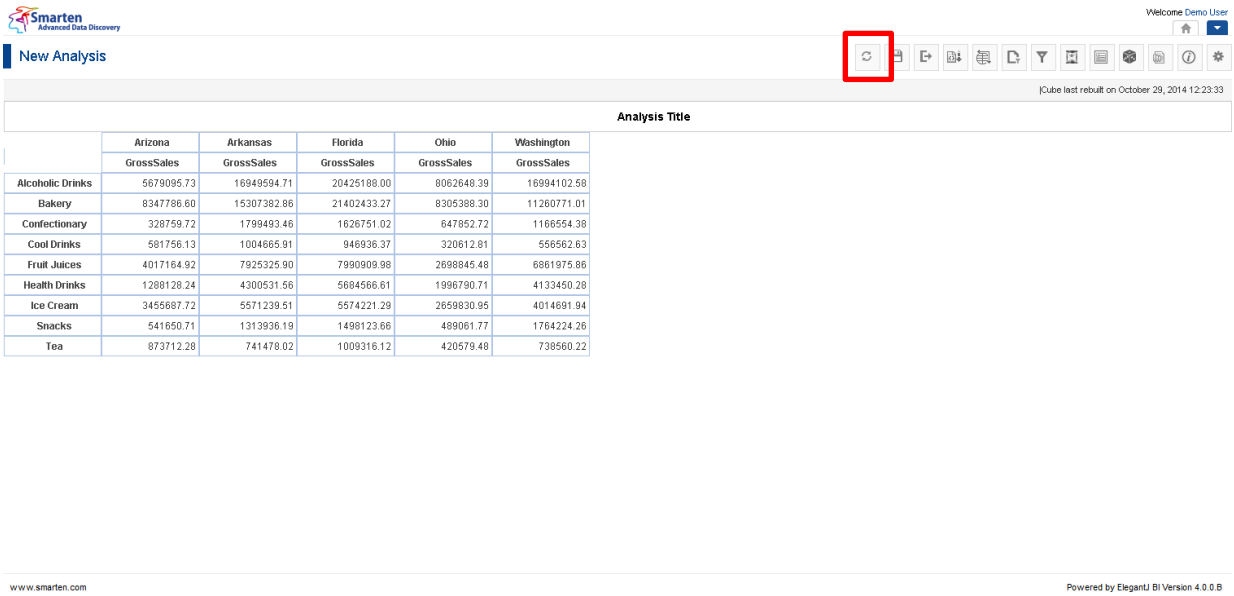
4.4.28 Refresh

This option is used to update crosstab data from its source cube.

Procedure

1. In the **Repository**, open crosstab.

   The system displays the crosstab.
2. In the Crosstab Toolbar, click **Refresh.**



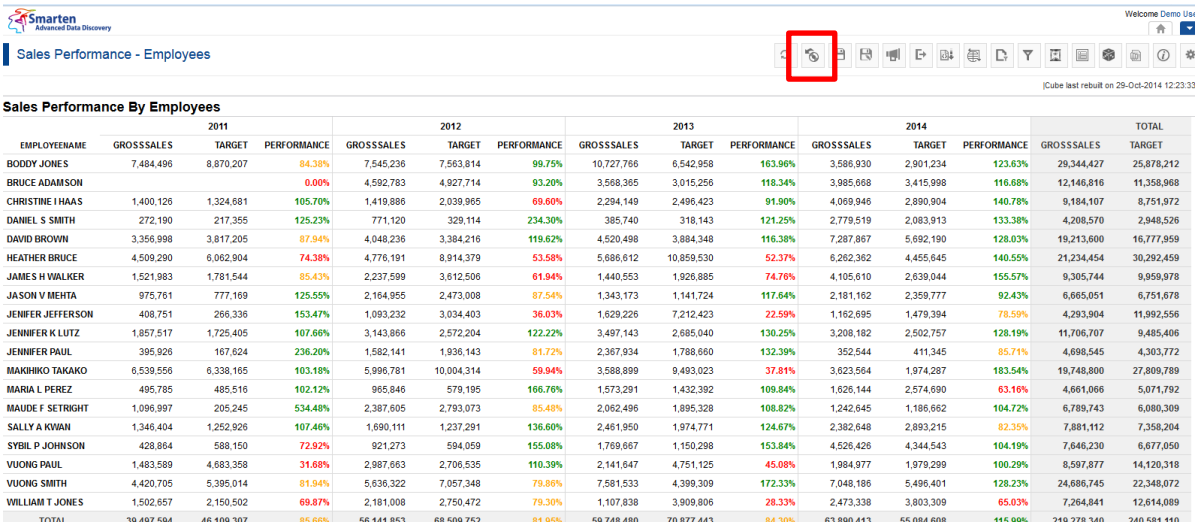
CROSSTAB: REFRESH ICON

4.4.29 Restore

You can use this option to restore the last saved version of crosstab without loading fresh data from cube.

Procedure

1. In the **Repository**, open crosstab.
2. The system displays the crosstab.
   In the Crosstab Toolbar, click **Restore.**

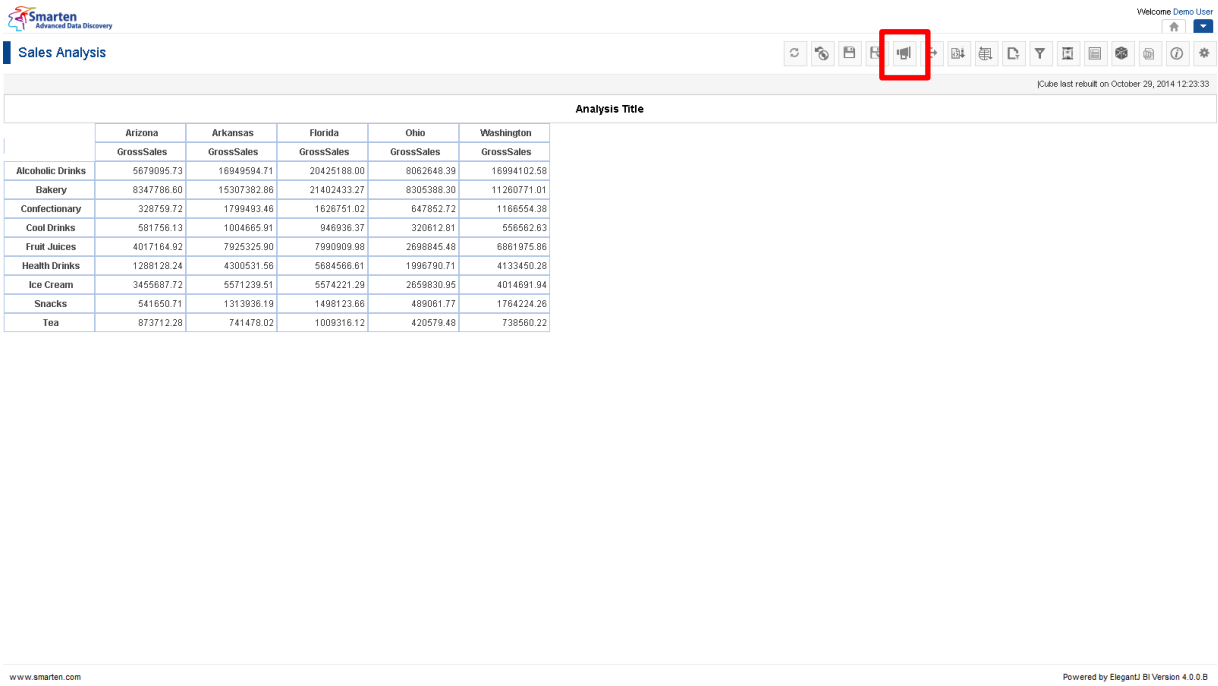


	2011			2012			2013			2014			TOTAL	
EMPLOYEENAME	GROSSSALES	TARGET	PERFORMANCE	GROSSSALES	TARGET	PERFORMANCE	GROSSSALES	TARGET	PERFORMANCE	GROSSSALES	TARGET	PERFORMANCE	GROSSSALES	TARGET
BODDY JONES	7,484,496	8,870,207	84.38%	7,545,236	7,563,814	99.75%	10,727,766	6,542,958	163.96%	3,586,930	2,901,234	123.63%	29,344,427	25,878,212
BRUCE ADAMSON			0.00%	4,592,783	4,927,714	93.20%	3,568,365	3,015,256	118.34%	3,985,668	3,415,998	116.68%	12,146,816	11,358,968
CHRISTINE I HAAS	1,400,126	1,324,681	105.70%	1,419,886	2,039,965	69.60%	2,294,149	2,496,423	91.90%	4,069,946	2,890,904	140.78%	9,184,107	8,751,972
DANIEL S SMITH	272,190	217,355	125.23%	771,120	329,114	234.30%	385,740	318,143	121.25%	2,779,519	2,083,913	133.38%	4,208,570	2,948,526
DAVID BROWN	3,356,998	3,817,205	87.94%	4,048,236	3,384,216	119.62%	4,520,498	3,884,348	116.38%	7,287,867	5,692,190	128.03%	19,213,600	16,777,959
HEATHER BRUCE	4,509,290	6,062,904	74.38%	4,776,191	8,914,379	53.58%	5,686,612	10,859,530	52.37%	6,262,362	4,455,645	140.55%	21,234,454	30,292,459
JAMES H WALKER	1,521,983	1,781,544	85.43%	2,237,599	3,612,506	61.94%	1,440,553	1,926,885	74.76%	4,105,610	2,639,044	155.57%	9,305,744	9,959,978
JASON V MEHTA	975,761	777,169	125.55%	2,164,955	2,473,008	87.54%	1,343,173	1,141,724	117.64%	2,181,162	2,359,777	92.43%	6,665,051	6,751,678
JENIFER JEFFERSON	408,751	266,336	153.47%	1,093,232	3,034,403	36.03%	1,629,226	7,212,423	22.59%	1,162,695	1,479,394	78.59%	4,293,904	11,992,556
JENNIFER K LUTZ	1,857,517	1,725,405	107.66%	3,143,866	2,572,204	122.22%	3,497,143	2,685,040	130.25%	3,208,182	2,502,757	128.19%	11,706,707	9,485,406
JENNIFER PAUL	395,926	167,624	236.20%	1,582,141	1,936,143	81.72%	2,367,934	1,788,660	132.39%	352,544	411,345	85.71%	4,698,545	4,303,772
MAKIHIKO TAKAKO	6,539,556	6,338,165	103.18%	5,996,781	10,004,314	59.94%	3,588,899	9,493,023	37.81%	3,623,564	1,974,287	183.54%	19,748,800	27,809,789
MARIA L PEREZ	495,785	485,516	102.12%	965,846	579,195	166.76%	1,573,291	1,432,392	109.84%	1,626,144	2,574,690	63.16%	4,661,066	5,071,792
MAUDE F SETRIGHT	1,096,997	205,245	534.48%	2,387,605	2,793,073	85.48%	2,062,496	1,895,328	108.82%	1,242,645	1,186,662	104.72%	6,789,743	6,080,309
SALLY A KWAN	1,346,404	1,252,926	107.46%	1,690,111	1,237,291	136.60%	2,461,950	1,974,771	124.67%	2,382,648	2,893,215	82.35%	7,881,112	7,358,204
SYBIL P JOHNSON	428,864	588,150	72.92%	921,273	594,059	155.08%	1,769,667	1,150,298	153.84%	4,526,426	4,344,543	104.19%	7,646,230	6,677,050
VUONG PAUL	1,483,589	4,683,358	31.68%	2,987,663	2,706,535	110.39%	2,141,647	4,751,125	45.08%	1,984,977	1,979,299	100.29%	8,597,877	14,120,318
VUONG SMITH	4,420,705	5,395,014	81.94%	5,636,322	7,057,348	79.86%	7,581,533	4,399,309	172.33%	7,048,186	5,496,401	128.23%	24,686,745	22,348,072
WILLIAM T JONES	1,502,657	2,150,502	69.87%	2,181,008	2,750,472	79.30%	1,107,838	3,909,806	28.33%	2,473,338	3,803,309	65.03%	7,264,841	12,614,089
TOTAL	39,497,594	46,109,307	85.66%	56,141,853	68,509,752	81.95%	59,748,480	70,877,443	84.30%	63,890,413	55,084,608	115.99%	219,278,340	240,581,110

CROSSTAB: RESTORE ICON

4.4.30 Publish now

You can publish the crosstab on the fly with the use of **Publish Now** option. This option is used to publish specific crosstab in **PDF**, **XML**, **CSV, XLS, XLXS and HTML** formats together. It is visible only after the saving the crosstab.

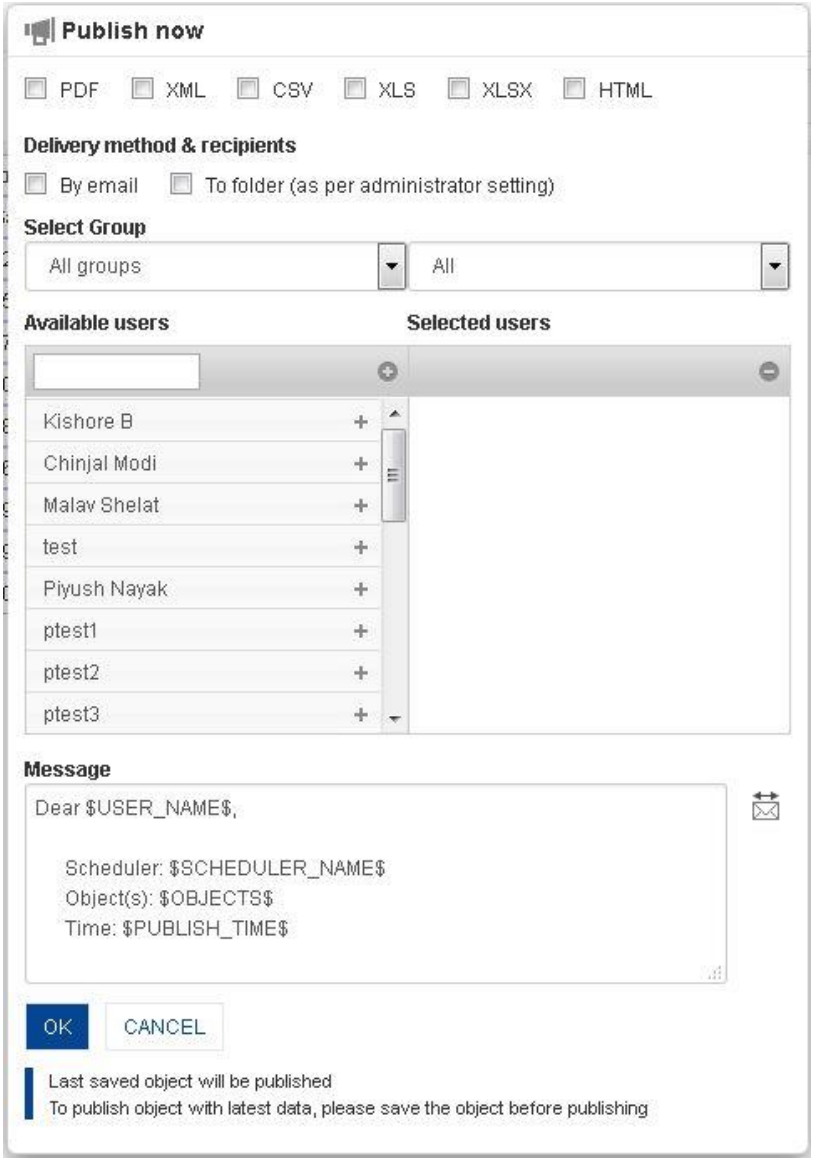


	Arizona	Arkansas	Florida	Ohio	Washington
	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

CROSSTAB: PUBLISH NOW ICON

Procedure

1. In the **Repository**, open crosstab.
   The system displays the crosstab.
2. In the Crosstab Toolbar, click **Publish now.**
   The system displays the **Publish now** dialog box.

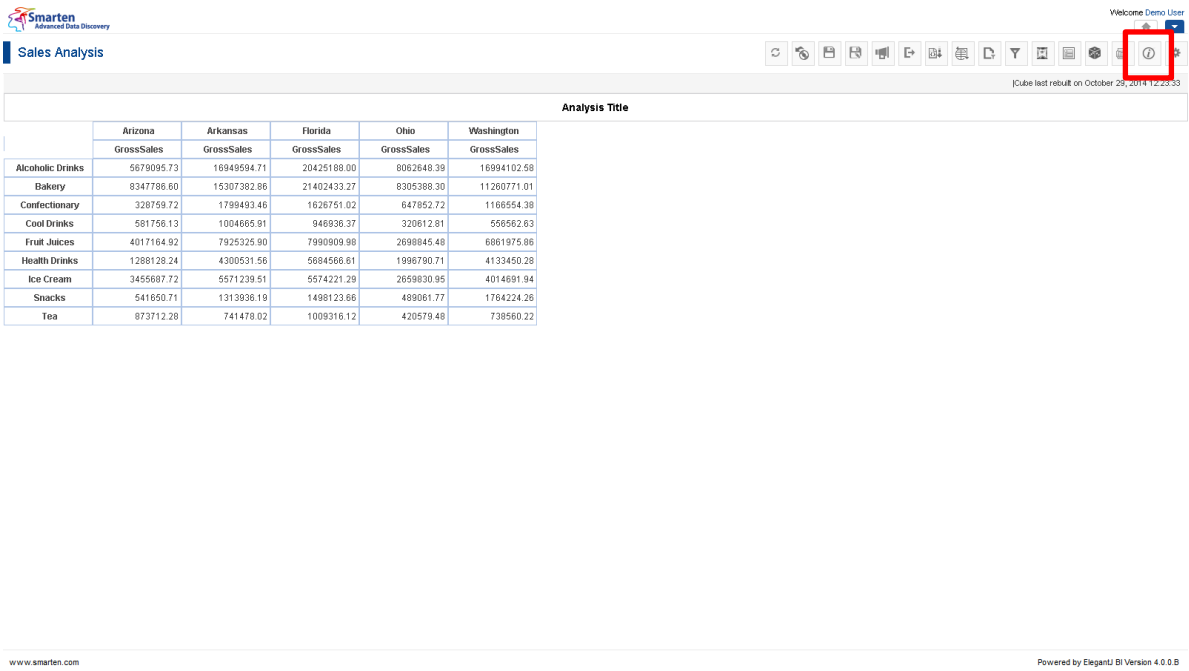


CROSSTAB: PUBLISH NOW SETTINGS

3. In the **Publish now** dialog box, select the checkbox to choose the output type (PDF, XML, CSV, XLS, XLXS, or HTML).
4. In the **Delivery method & recipients** section, select the checkbox(es) (by email and to folder).
5. In the **Select group** section, select the group from the drop-down list.
   The system displays the list of active users in the **Available users** column according to the group selected.
6. In the **Available users** column, select the users. System displays list of users as per access rights policy defined by Administrator.
   The system displays the selected users in the **Selected users** column.
7. In the **Message** box, enter the message.
8. Click **OK.**

4.4.31 Object information

Object information displays information about object metadata and various operations applied on crosstab.

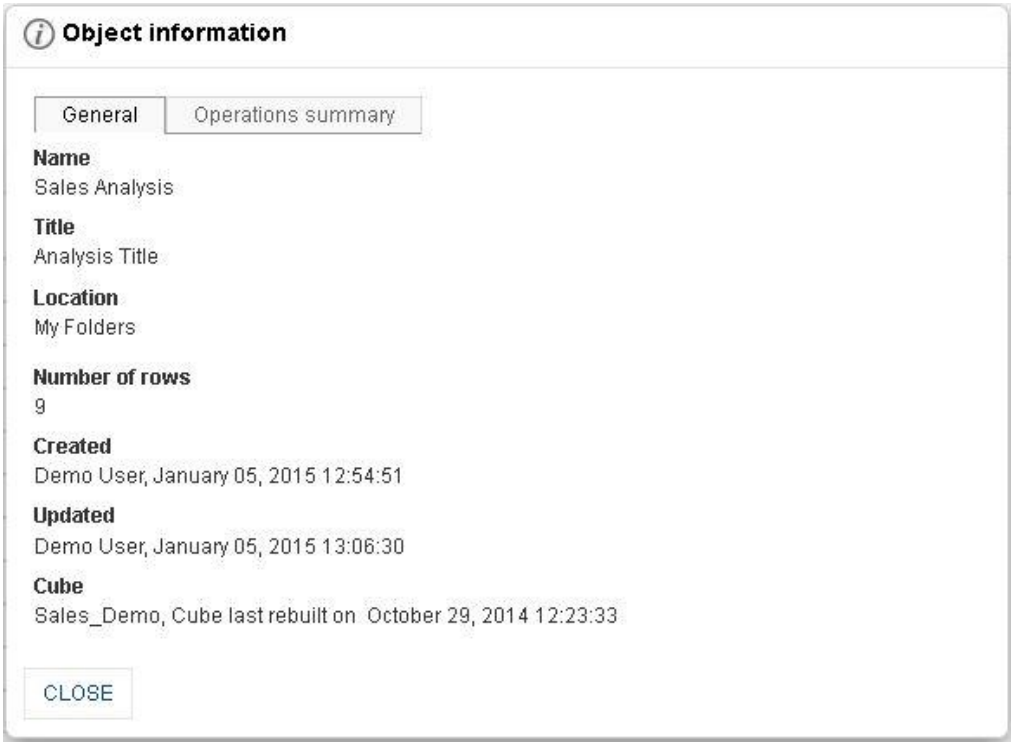


	Arizona	Arkansas	Florida	Ohio	Washington
	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5678095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

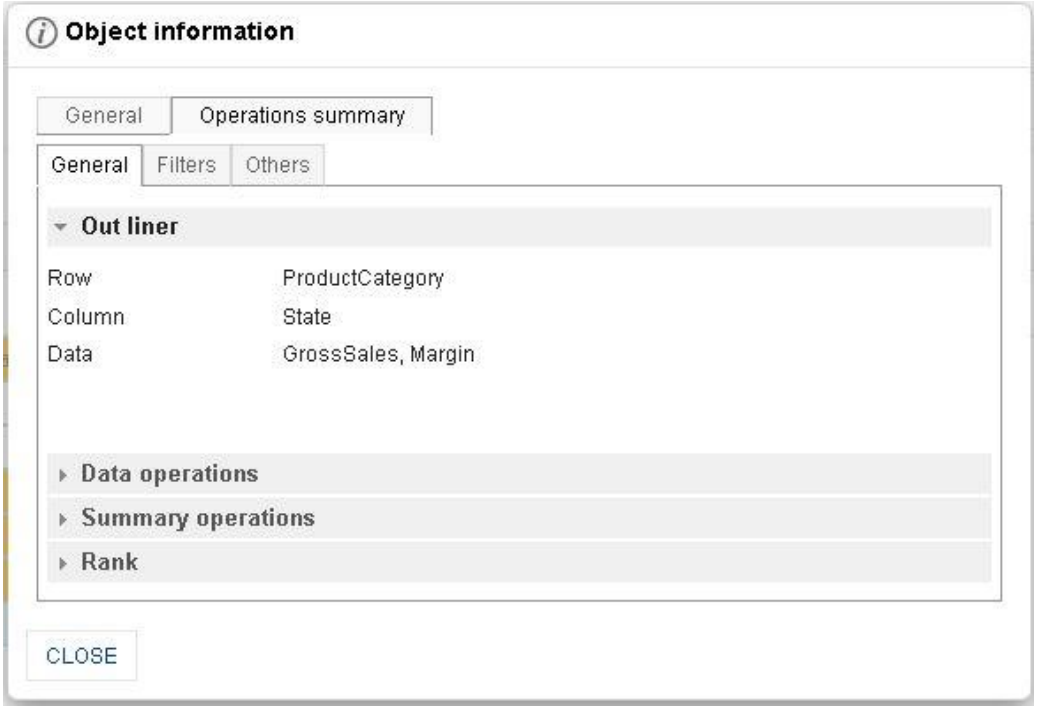
CROSSTAB: OBJECT INFORMATION ICON

Procedure

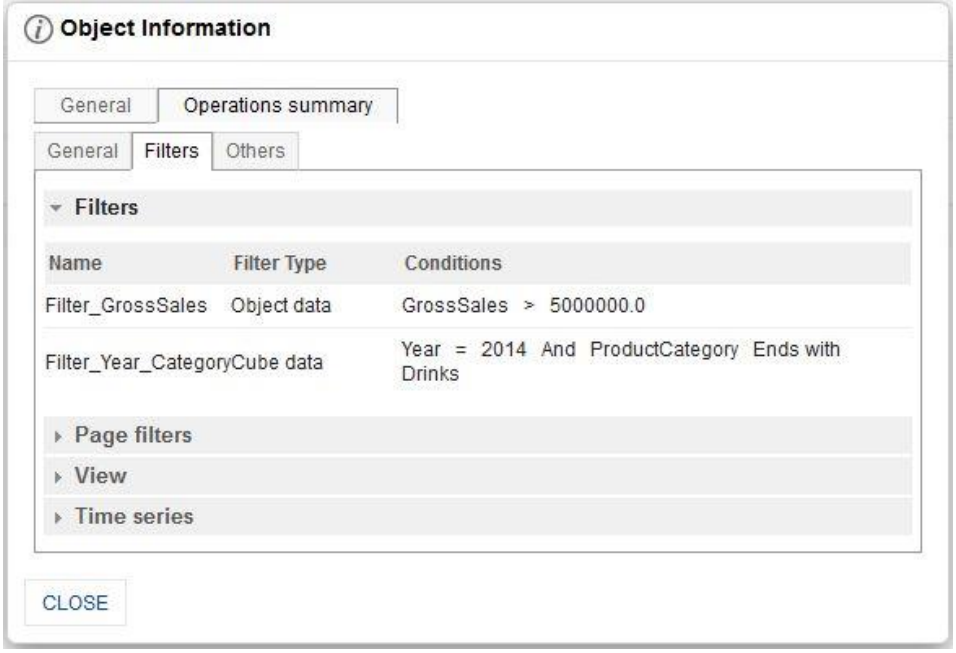
1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the Crosstab Toolbar, click **Object information.**
   The system displays the **Object information** dialog box with various information displayed in the two tabs, namely General and Operations summary, as shown below.



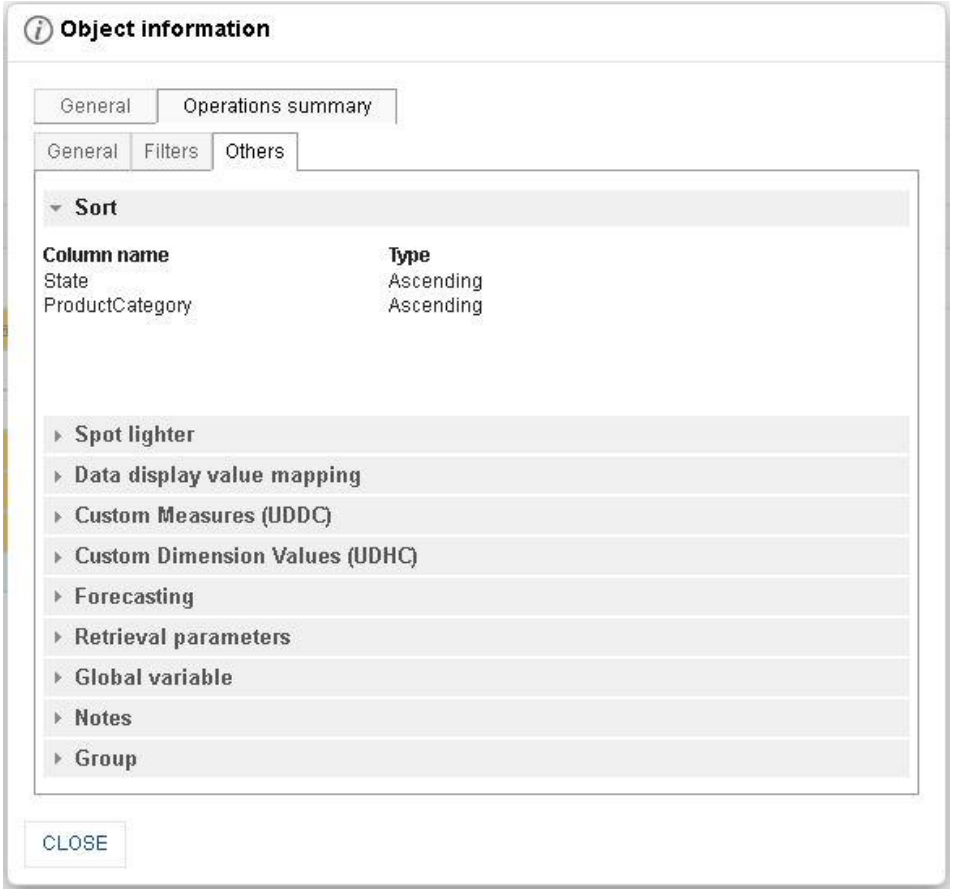
CROSSTAB: OBJECT INFORMATION: GENERAL TAB



CROSSTAB: OBJECT INFORMATION: OPERATIONAL SUMMARY: GENERAL TAB



CROSSTAB: OBJECT INFORMATION: OPERATIONAL SUMMARY: FILTERS TAB



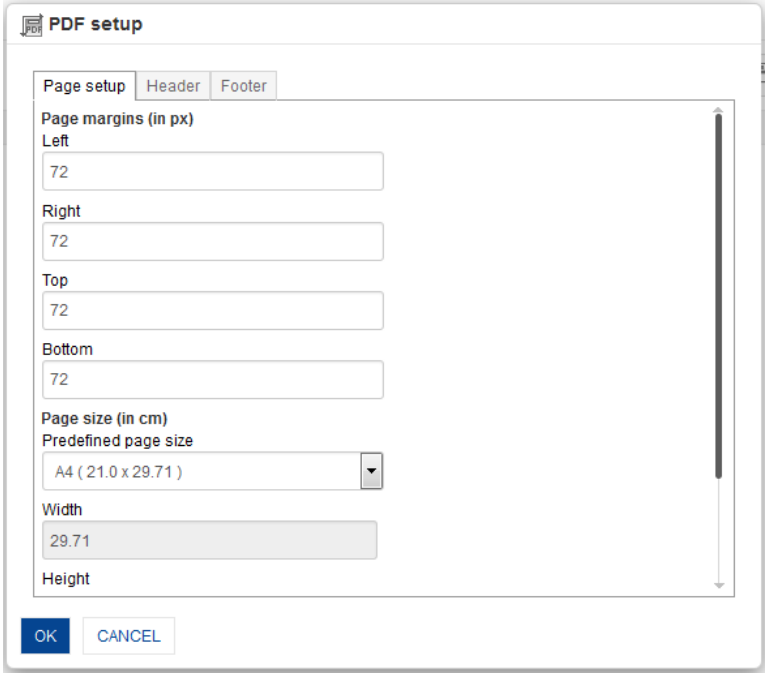
CROSSTAB: OBJECT INFORMATION: OPERATIONAL SUMMARY: OTHERS TAB

3. Click **Close** after viewing the information.

4.4.32 PDF Page setup

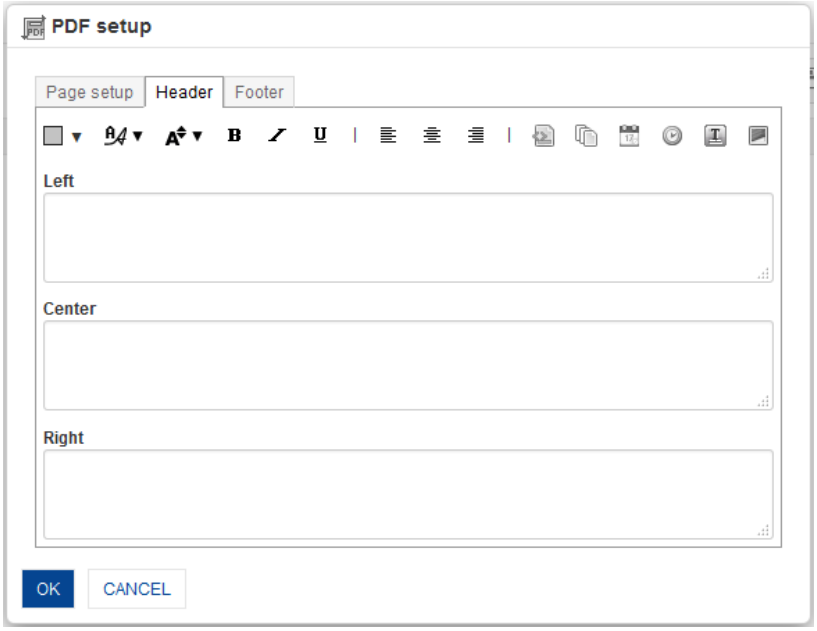
Procedure

1. In the **Repository**, open crosstab.
   System displays the selected crosstab.
2. In the upper right-hand corner, click **Setting**.
   System displays the Setting Toolbar.
3. Click **PDF setup**.
   System displays the **PDF setup** dialog box.



CROSSTAB: PDF SETUP: PAGE SETUP

4. **Page setup**:
   - Enter **Page Margins** to set top, bottom, left, and right margins for page.
   - From the **Predefined page size** drop-down list, select size.
   - Customize the **Height** and **Width** for page
   - Select the page orientation, either **Portrait** or **Landscape.**

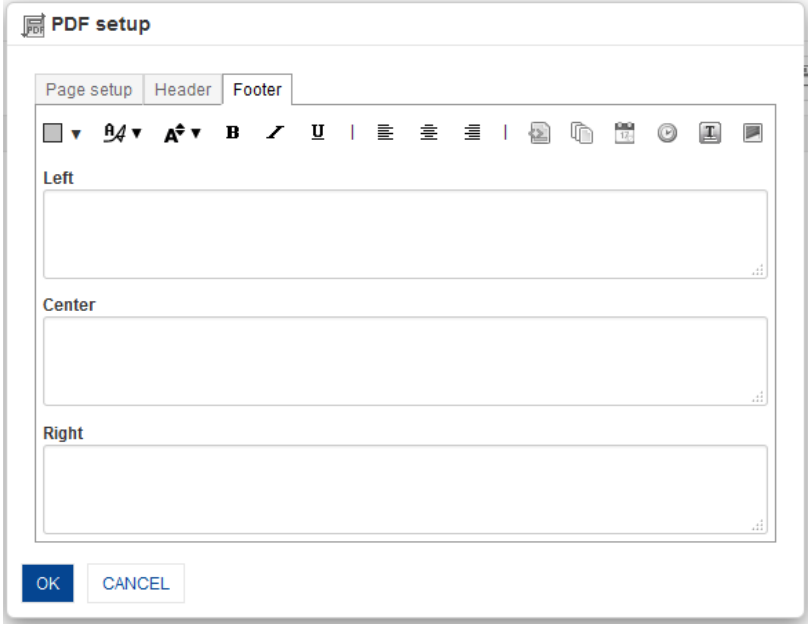


CROSSTAB: PDF SETUP: HEADER

5. **Header:**
   - Enter values or variables required for left, centre and right sections of the header. You can select Page Number, Number of Pages, Date, Time, Object Title and Image as variable.

     You can also add custom text along with variables.

Some examples:
Report Date: $DATE$ $TIME$
Page: $PAGE_NUMBER$ of $TOTAL_PAGES$



CROSSTAB: PDF SETUP: FOOTER

6. **Footer:**
   - Enter values or variables required for left, centre and right sections of the footer. You can select Page Number, Number of Pages, Date, Time, Object Title and Image as variable.

     You can also add custom text along with variables.
     Some examples:
     Report Date: $DATE$ $TIME$
     Page: $PAGE_NUMBER$ of $TOTAL_PAGES$

7. Click **OK**.

Tools	Description
	Font Colour
	Font Name
	Font Size
	Bold Style
	Italic Style
	Underline
	Left Alignment
	Centre Alignment
	Right Alignment

CROSSTAB: PDF SETUP TOOLBAR: FORMATTING OPTIONS

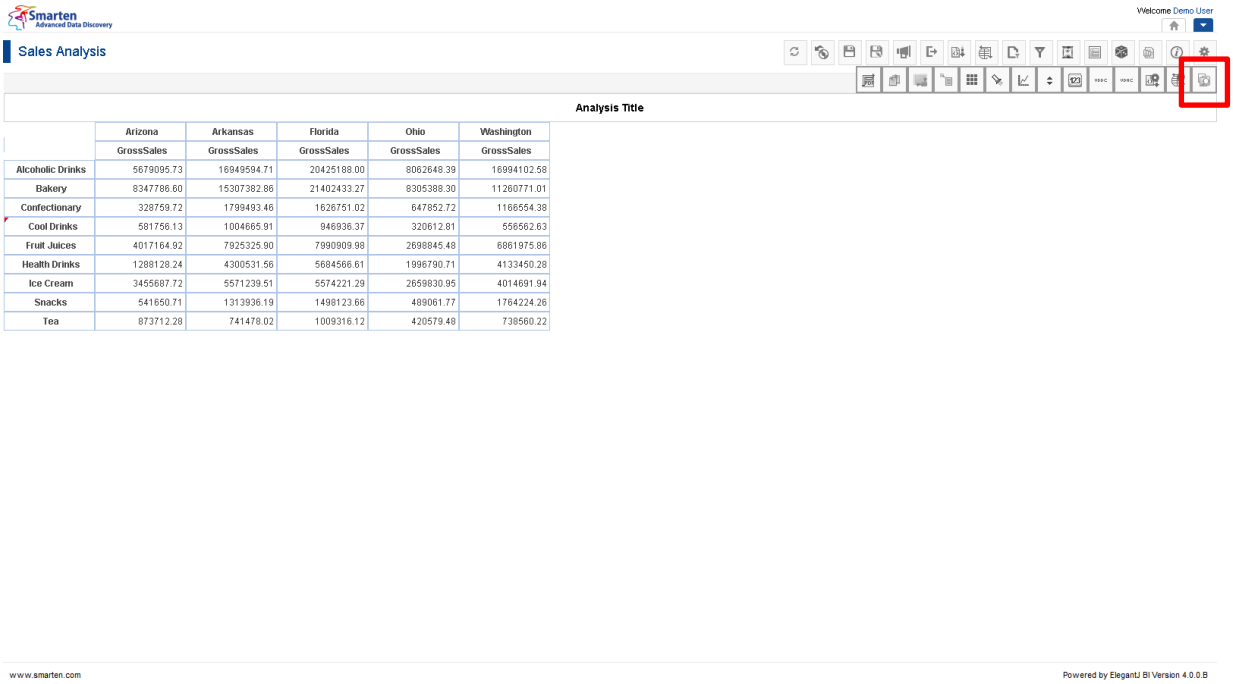
Tools		Description
	Page Number	Current Page Number
	Number of Pages	Total Number of Pages
	Date	Current Date on which object is exported
	Time	Current Time when object is exported
	Object Title	Title saved in object
	Image	Company logo or any other Image

CROSSTAB: PDF SETUP TOOLBAR: HEADER/FOOTER VARIABLES

4.4.33 Crosstab Properties

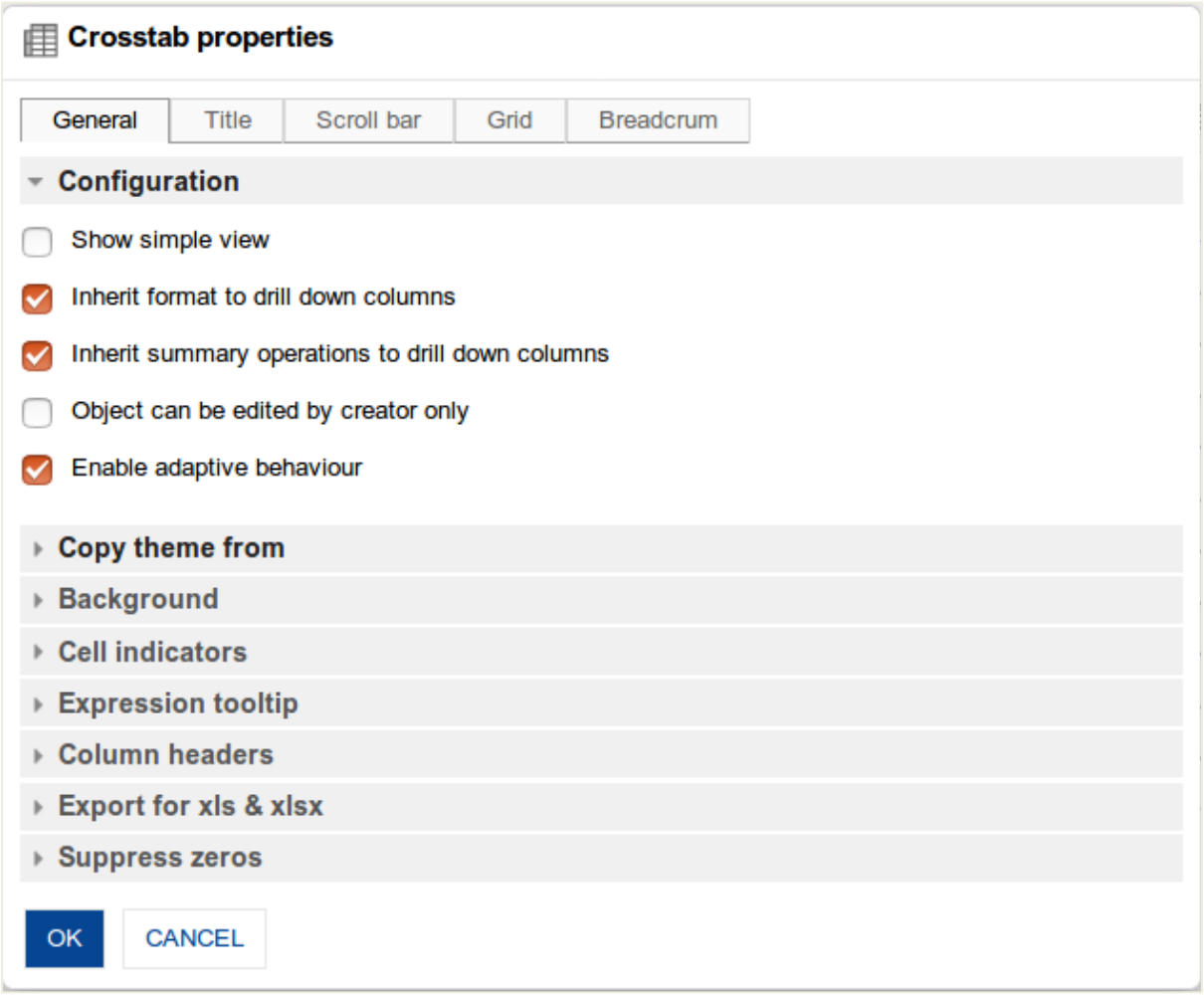
Procedure

1. In the **Repository**, open crosstab.
   The system displays the selected crosstab.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Crosstab Properties.**
   The system displays the **Crosstab Properties** dialog box.



	Arizona	Arkansas	Florida	Ohio	Washington
	GrossSales	GrossSales	GrossSales	GrossSales	GrossSales
Alcoholic Drinks	5679095.73	16949594.71	20425188.00	8062648.39	16994102.58
Bakery	8347786.60	15307382.86	21402433.27	8305388.30	11260771.01
Confectionary	328759.72	1799493.46	1626751.02	647852.72	1166554.38
Cool Drinks	581756.13	1004665.91	946936.37	320612.81	556562.63
Fruit Juices	4017164.92	7925325.90	7990909.98	2698845.48	6861975.86
Health Drinks	1288128.24	4300531.56	5684566.61	1996790.71	4133450.28
Ice Cream	3455687.72	5571239.51	5574221.29	2659830.95	4014691.94
Snacks	541650.71	1313936.19	1498123.66	489061.77	1764224.26
Tea	873712.28	741478.02	1009316.12	420579.48	738560.22

CROSSTAB: CROSSTAB PROPERTIES ICON



CROSSTAB: CROSSTAB PROPERTIES DIALOG

4. To configure the properties, select the tab and enter/select the values in the various fields.
5. Click **OK** or **Cancel.**

The following tables list all the Crosstab properties.

Element	Properties	Sub Properties	Default Value	Values
Configuration	Show simple view		FALSE	True/False
	Inherit format to drill down columns		TRUE	True/False
	Inherit summary operations to drill down columns		TRUE	True/False
	Object can be edited by creator only		TRUE/FALSE based on default access policy set by administrator	True/False
	Enable adaptive behaviour		TRUE	True/False
Background	Visible		FALSE	True/False
	Color		#f5f5f5	#000000 - #FFFFFF
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	No repeat/

Element	Properties	Sub Properties	Default Value	Values
				Repeat/Repeat X/Repeat y
	Background position		Center	Center/Left/Right/Top/ Bottom
Cell Indicators	UDDC		TRUE	True/False
	Time series		TRUE	True/False
	Note		TRUE	True/False
	Pack-Unpack		TRUE	True/False
	Least Most Recent		TRUE	True/False
Expression tooltip	UDDC		TRUE	True/False
	Time series		TRUE	True/False
	Page filter		TRUE	True/False
	Pack-Unpack		TRUE	True/False
	Least Most Recent		TRUE	True/False
Column headers	Row dimension headers		FALSE	True/False
	Column dimension headers		FALSE	True/False
	Measure dimension headers		FALSE	True/False
Export for xls and xlsx	Apply grouping		FALSE	True/False
	Repeat dimension values		FALSE	True/False
	Show alternate text		FALSE	True/False
	Show object information		TRUE	True/False
Suppress zeros	For rows		FALSE	True/False
	For columns		FALSE	True/False

CROSSTAB PROPERTIES – GENERAL

Element	Properties	Sub Properties	Default Value	Values
Configuration	Visible		TRUE	True/False
	Title			Any String Value
	Title panel	Position	Center	Left/Right/Center
		Adjust width to text	FALSE	True/False
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		14	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Low ercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Center	Center/Left/Right/Just ify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False

Element	Properties	Sub Properties	Default Value	Values
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.50%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

CROSSTAB PROPERTIES – TITLE

Element	Properties	Sub Properties	Default Value	Values
General				
Background	Visible		TRUE	True/False
	Color		#f5f5f5	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	FALSE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Bar				
Background	Visible		TRUE	True/False
	Color		#5C5C5C	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Rounded	All		5	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Buttons				
Background	Visible		FALSE	True/False
	Color		#f5f5f5	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20

CROSSTAB PROPERTIES – SCROLL BAR

Element	Properties	Sub Properties	Default Value	Values
Configuration	Row height		25	1 – 100 px
	Column width – default		120	1 – 200 px
	Enable wrap for dimension values		FALSE	True/False
	Number of row		0	(0 for all)

Element	Properties	Sub Properties	Default Value	Values
	dimension columns to be displayed			
	Overwrite current column format properties		FALSE	True/False
Header				
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#4a4949	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
Alignment	Horizontal		Center	Left/Center/Right
	Vertical		Center	Left/Center/Right
	Overwrite current column format properties		FALSE	True/False
Data				
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#333333	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5

Element	Properties	Sub Properties	Default Value	Values
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
Alignment	Horizontal		Right	Left/Center/Right
	Vertical		Center	Left/Center/Right
	Overwrite current column format properties		FALSE	True/False
Column label				
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot

Element	Properties	Sub Properties	Default Value	Values
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Alignment	Horizontal		Center	Left/Center/Right
	Vertical		Center	Left/Center/Right
	Overwrite current column format properties		FALSE	True/False
Summary				
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		11	8 – 72
	Color		#333333	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#D7ECF4	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Alignment	Horizontal		Center	Left/Center/Right
	Vertical		Center	Left/Center/Right
	Overwrite current column format		FALSE	True/False

Element	Properties	Sub Properties	Default Value	Values
	properties			
Cell Selection				
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#FFFFFF	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#000000	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#FFFFFF	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Overwrite current column format properties		FALSE	True/False
Stripe				
Element	Properties	Sub Properties	Default Value	Values
Configuration	Enable		FALSE	True/False
	Odd		#000000	#000000 - #FFFFFF
	Even		#DCDCDC	#000000 - #FFFFFF
	Overwrite current column format properties		FALSE	True/False

CROSSTAB PROPERTIES – GRID

Element	Properties	Sub Properties	Default Value	Values
Font and text	Color		#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#f5f5f5	#000000 - #FFFFFF
	Transparent		FALSE	True/False

CROSSTAB PROPERTIES – BREADCRUMBS

> Note:
> Configuration—Width: This property is available only for measure/ numeric value.
> Configuration—Column header: This property is available only for labels.
> Number format and Unit text: This property is available only for measure/ numeric value.
> Date format and Time format: This property is available only for date dimension.

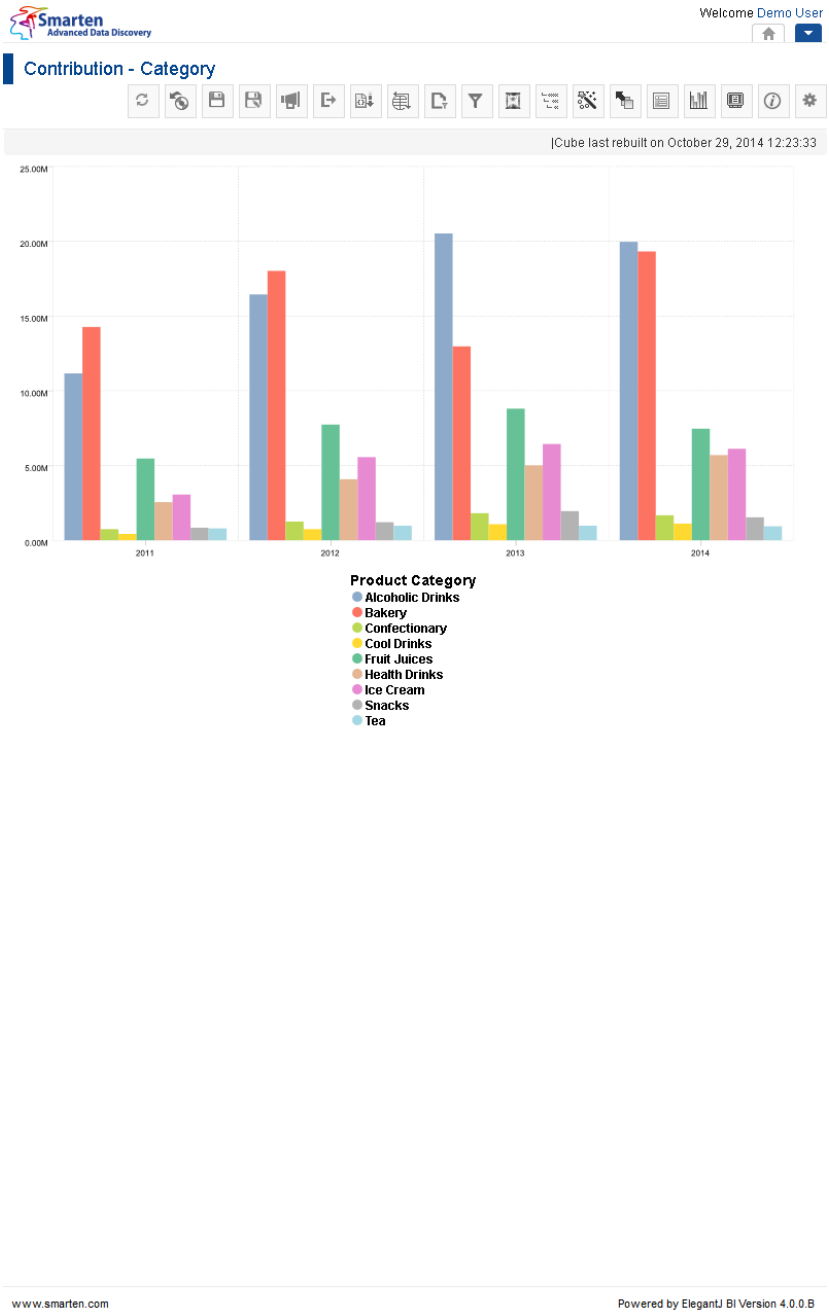
5. Working with Graphs

Combined with the dynamic drill down and slice and dice within graphs, Smarten provides you interactive visual data mining capabilities that allow you to analyse trends, patterns, and alerts for supporting effective decision-making.

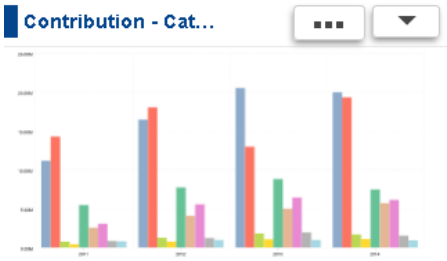
This chapter introduces the features in Graphical OLAP and provides a comprehensive step-by-step guide to create a variety of graphs and charts for visualising data. Similar to crosstab, you will be able to perform such functions as slice-n-dice, drill up and drill down, filtering, and ranking on graphs directly.

The following images demonstrate how Smarten Graphs render differently in different target devices.

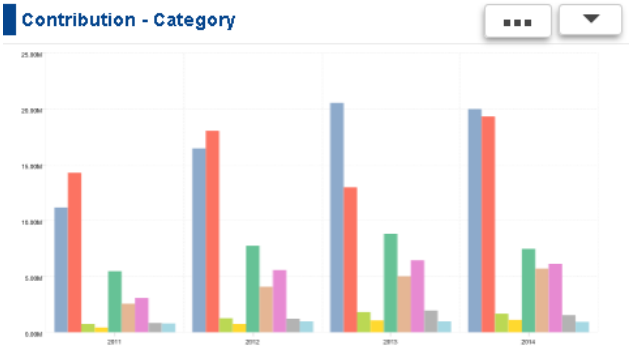
GRAPH—DESKTOP VIEW



GRAPH—TABLET VIEW



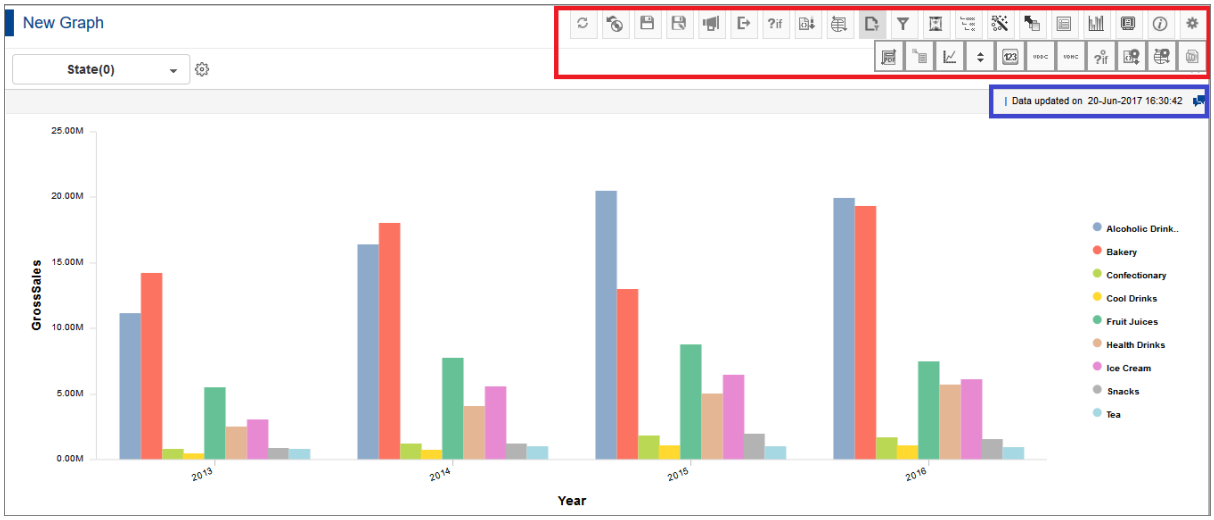
GRAPH—SMARTPHONE: PORTRAIT VIEW



GRAPH—SMARTPHONE: LANDSCAPE VIEW

5.1 Becoming Familiar with Graph Menus and Toolbars

You can use various Graph tools and menu to edit and format graphs in Smarten.



GRAPH: GRAPH MENU AND TOOLBAR

GRAPH TOOLBAR

Icon	Icon name
	Refresh
	Restore

Icon	Icon name
	Save
	Save as
	Publish now
	Export
	What-if variables
	Retrieval Parameters
	Global variables
	Page filter
	Filter
	Time series
	Drill-down browsing
	Data operations
	Group
	Outliner
	R script parameters
	Graph type
	Graph data
	Object information
	Setting
	PDF setup
	Manage data display value mapping
	Manage sort
	Manage rank
	Manage UDDC
	Manage UDHC
	Select What-if variables
	Manage retrieval parameters
	Manage global variables
	Graph properties

GRAPH TOOLBAR OPTIONS

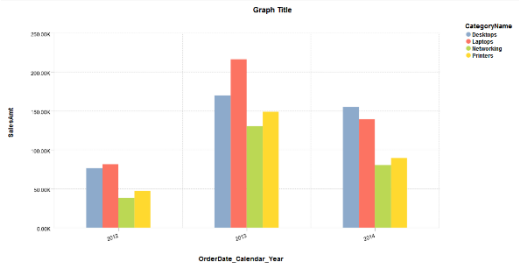
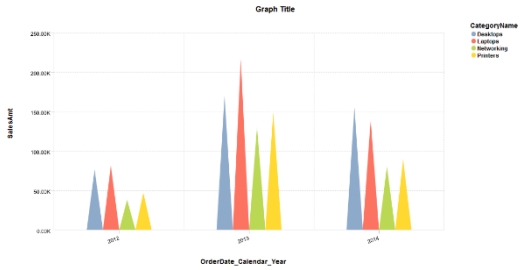
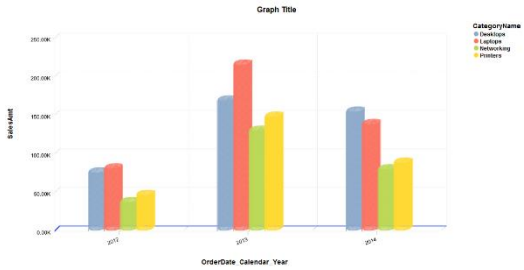
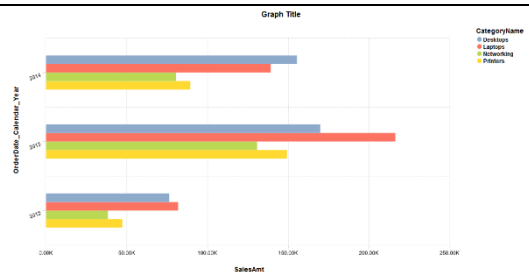
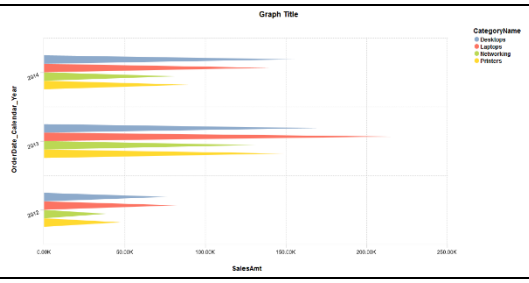
The graph information bar displays date & time of last data update and Comment icon.

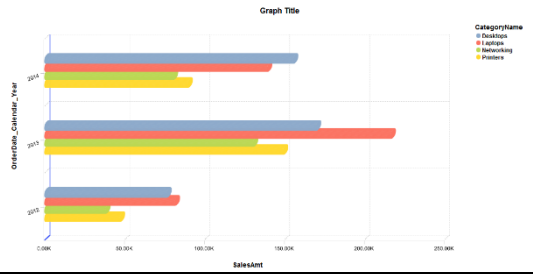
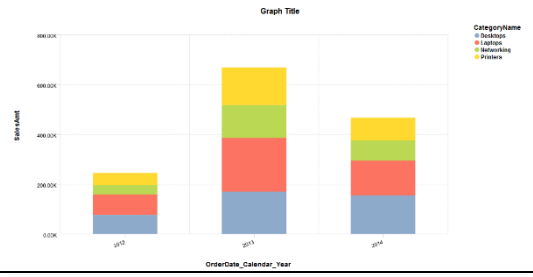
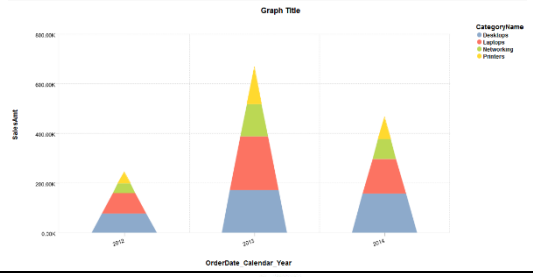
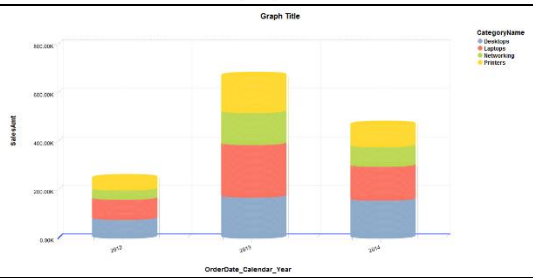
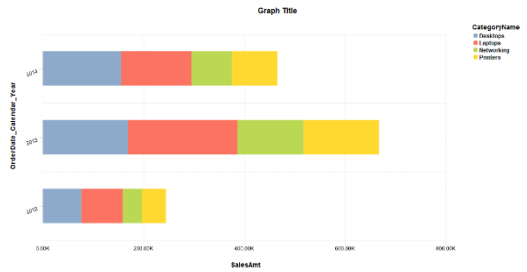
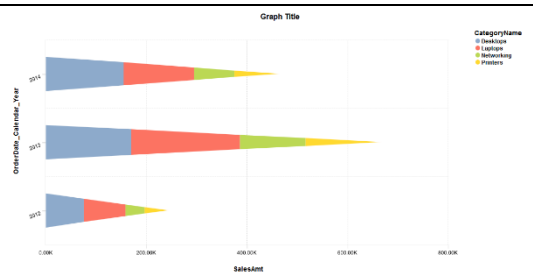
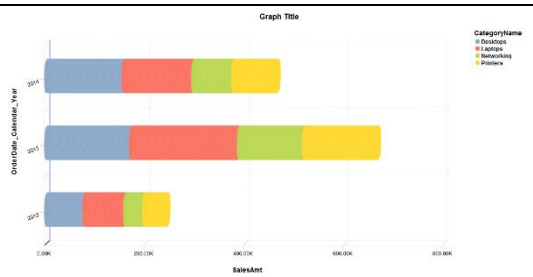
GRAPH INFORMATION BAR

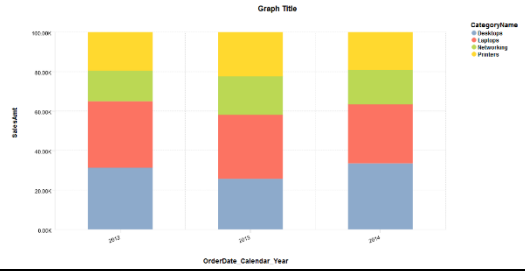
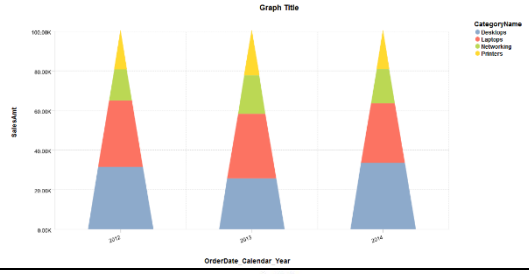
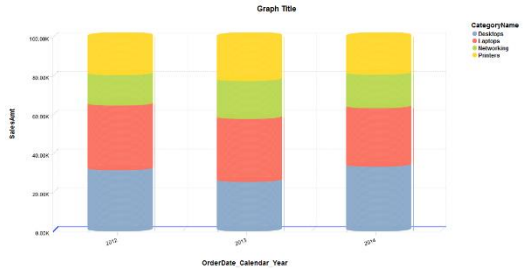
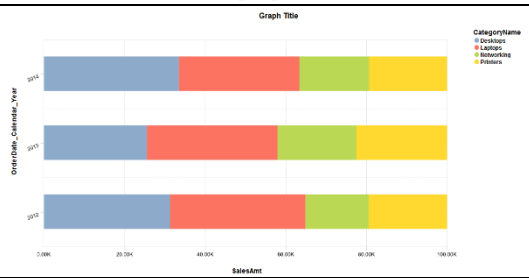
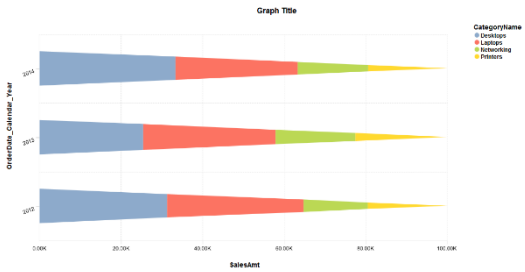
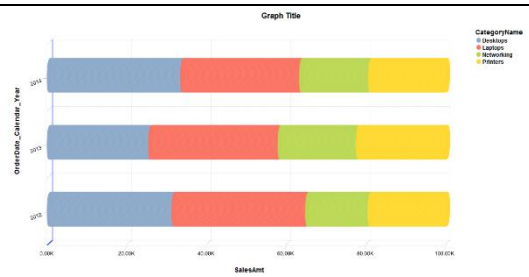
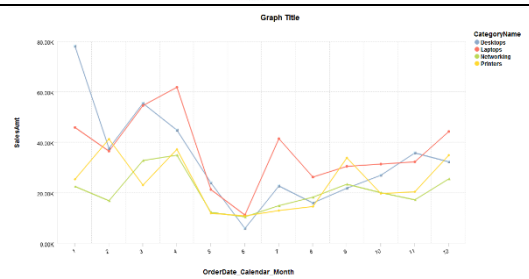
5.2 Understanding Graph Types

Smarten Graphical OLAP provides a wide range of useful chart types, from **bar** charts to more complex **radar**, **XY-Chart**, **Pie** chart, **dial gauge** and **Heat map**.

The following table provides the complete list of graph types and subtypes available in Smarten.

Type	Subtype	Sample Image
Vertical Bar	Bar	
	Cone	
	Cylinder	
Horizontal Bar	Bar	
	Cone	

Type	Subtype	Sample Image
	Cylinder	
Stacked Vertical Bar	Bar	
	Cone	
	Cylinder	
Stacked Horizontal Bar	Bar	
	Cone	
	Cylinder	

Type	Subtype	Sample Image
Percentage Vertical Bar	Bar	
	Cone	
	Cylinder	
Percentage Horizontal Bar	Bar	
	Cone	
	Cylinder	
Line	Line with Point	

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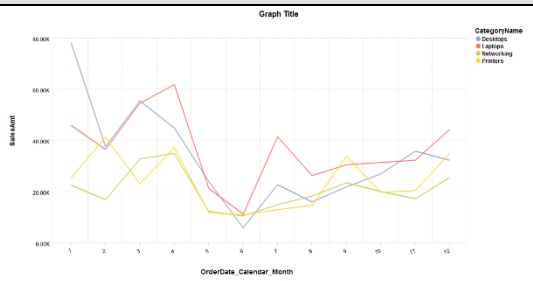
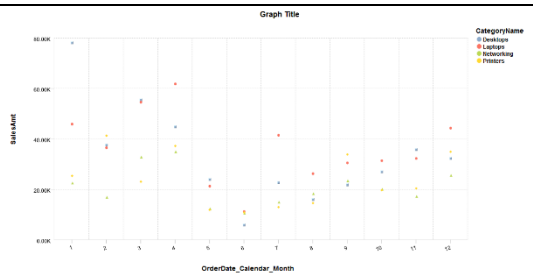
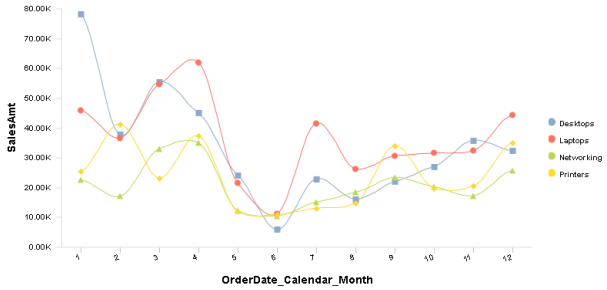
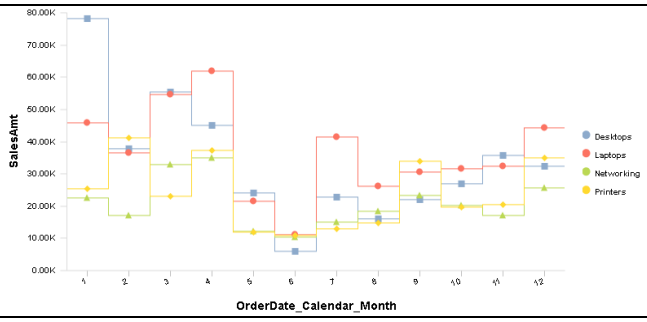
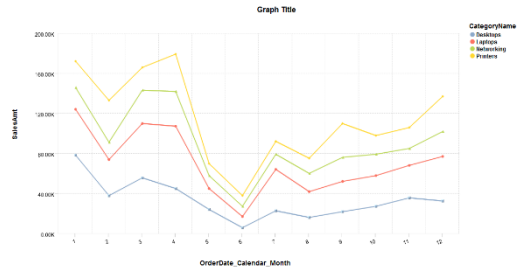
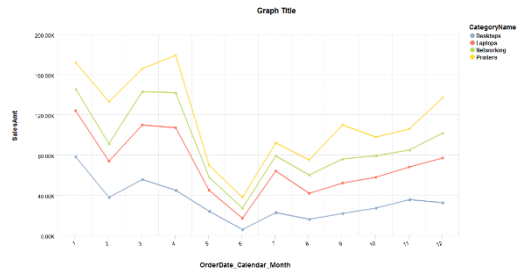
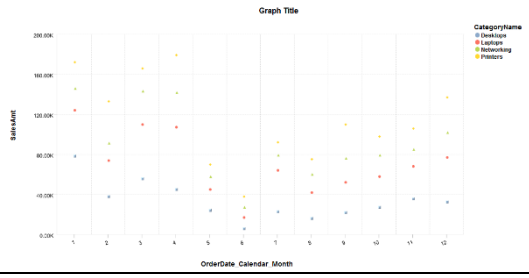
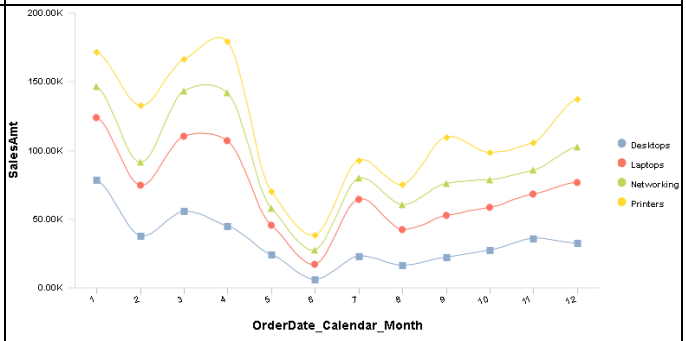
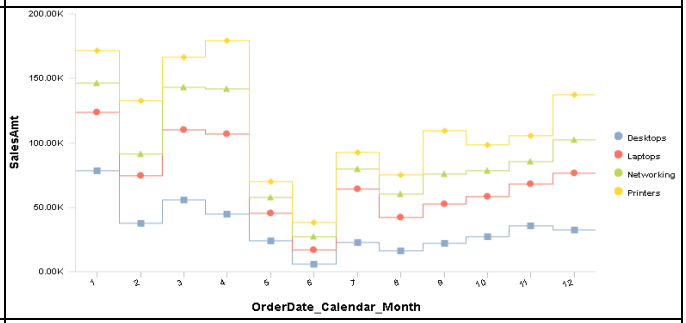
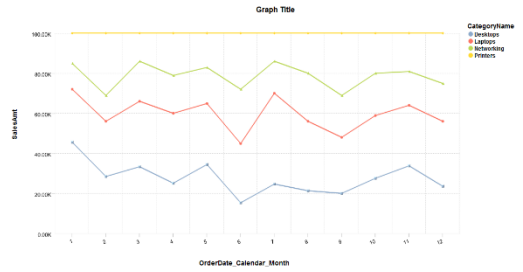
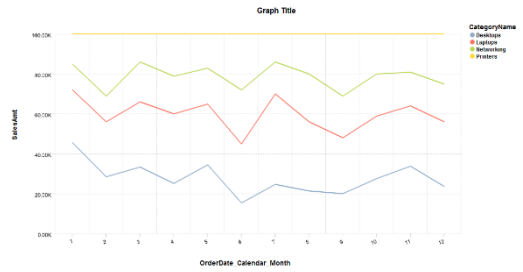
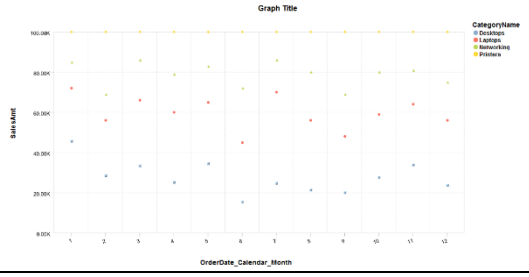
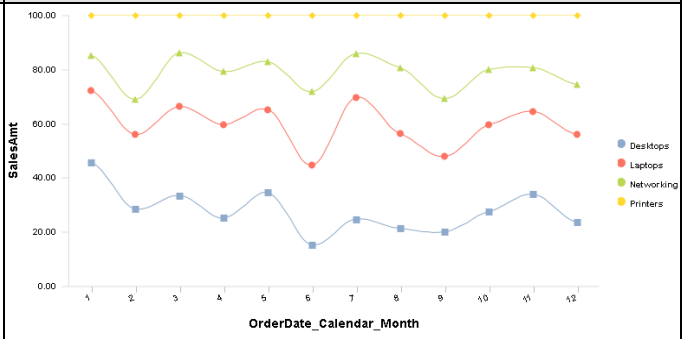
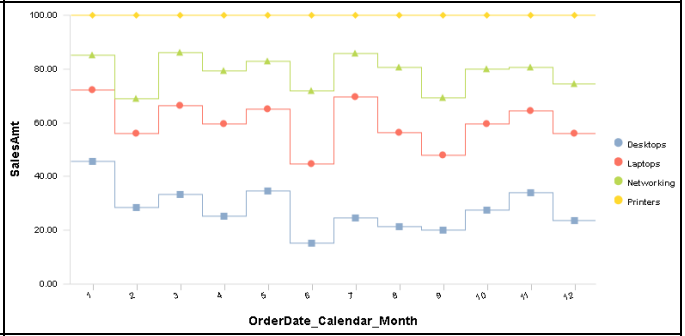
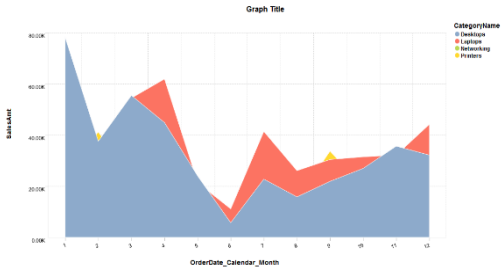
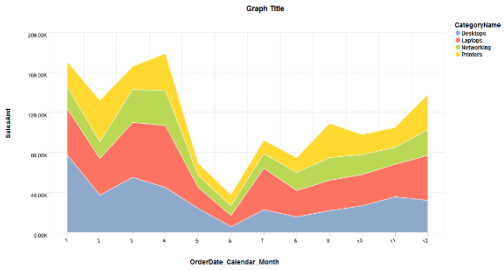
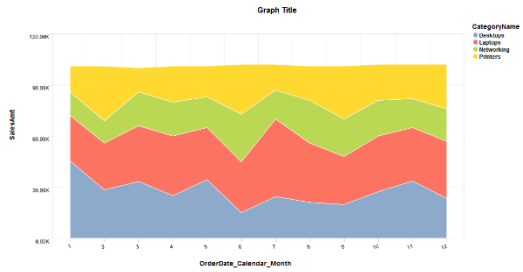
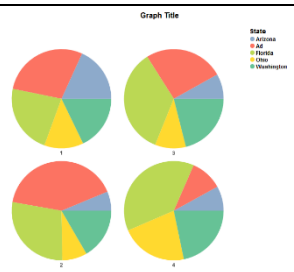
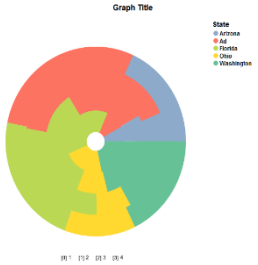
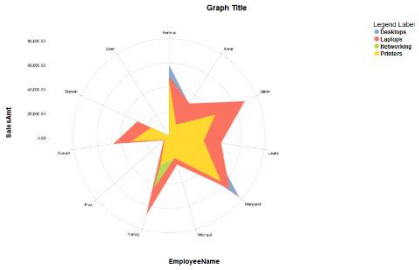
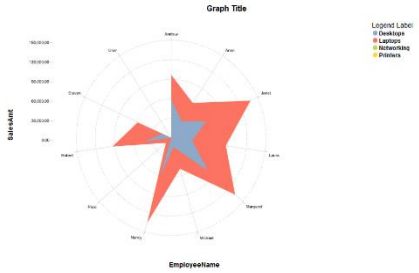
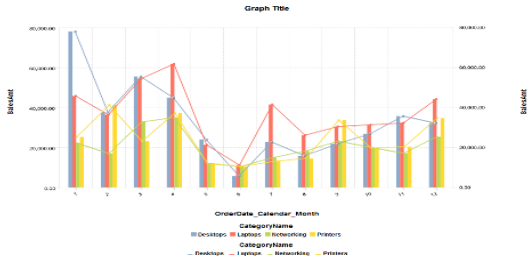
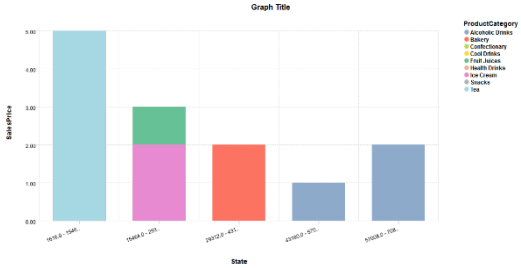
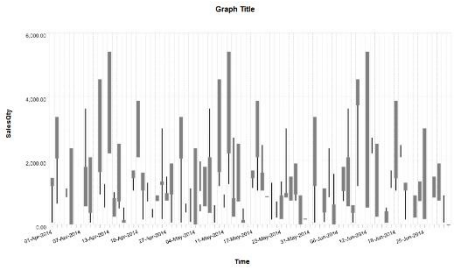
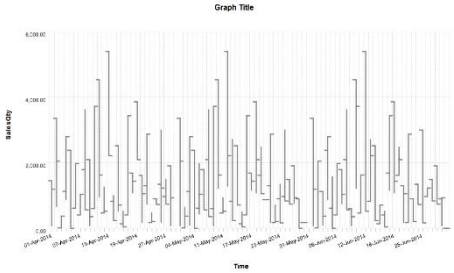
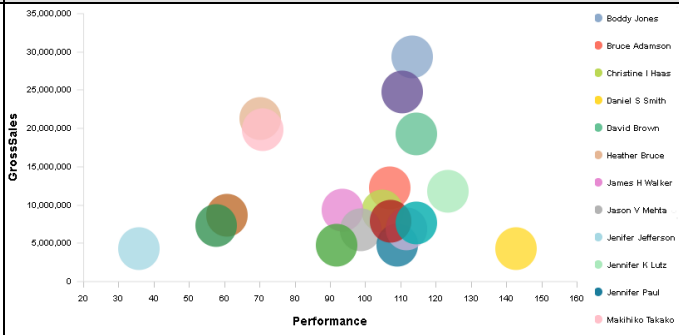
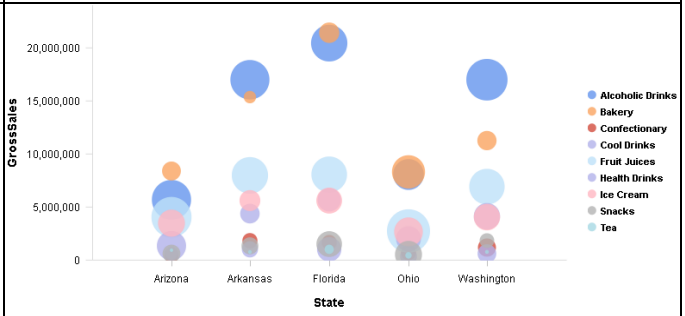
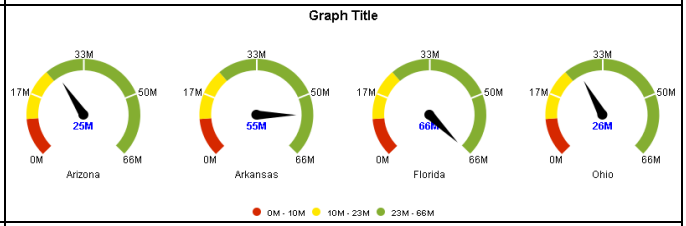
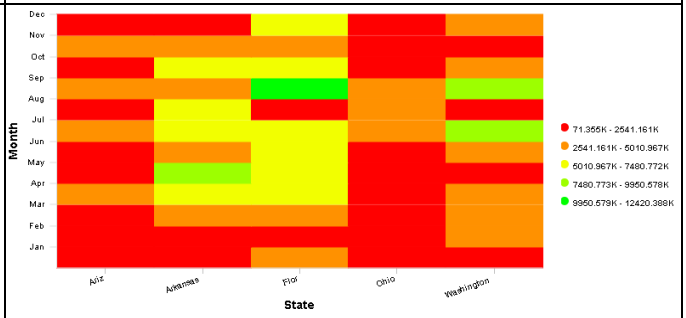
	Line Only	
	Point Only	
	Smoothed Line	
	Step Line	
Stacked Line	Line with Point	
	Line Only	

Type	Subtype	Sample Image
	Point Only	
	Smoothed Line	
	Step Line	
Percentage Line	Line with Point	
	Line Only	
	Point Only	

Type	Subtype	Sample Image
	Smoothed Line	
	Step Line	
Area	Area	
	Stacked Area	
	Percentage Area	
Pie	Pie	

Type	Subtype	Sample Image
	Doughnut	
Radar	Radar	
	Stacked Radar	
Combined Chart	Combined Chart	
Histogram	Histogram	
Stock	Candlestick	
	High low Open Close	

Type	Subtype	Sample Image
XY-Chart	XY-Scatter	
	Bubble	
Gauges	Dial Gauge	
Heat map	Heat map	

GRAPH TYPES

5.3 Understanding Graph Properties

Graph properties may be either common to all graph types or apply only to specific graph types.

5.3.1 Common Properties

The following tables list all the common graph properties.

- General
- Title
- Graph area
  - General
  - Background grid
- X Axis
  - Title
  - Label
  - Line

- Y Axis
  - Title
  - Label
  - Line
  - Unit
- Legend
  - Panel
  - Title
  - Values
  - Icon
- Data values
  - Point
  - Mouseover
- Reference line
- Trend line
- Bread crumbs
- Column labels

Graph – General properties

Property	Option	Valid values
Configuration	Object can be edited by creator only	True/False
	Enable adaptive behaviour	True/False
	Show NULL value as	True/False
Background	Visible	#000000 - #FFFFFF
	Color	True/False
	Transparent	.jpg, .png (image formats)
	Image	Repeat/No repeat/ Repeat X/Repeat Y
	Background repeat	Center/Left/Right/Top/Bottom
	Background position	#000000 - #FFFFFF
	Gradient ▪ Visible ▪ Style ▪ Angle ▪ Extent ▪ Color	 True/False Linear gradient 0 – 360 0 – 100 #000000 - #FFFFFF
Border	Visible	
	All	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
	Left	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
	Right	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
	Top	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF

Property	Option	Valid values
	Bottom	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
Shadow	Left to right	-10 – 10
	Top to bottom	-10 – 10
	Fade	0 – 20
	Color	#000000 - #FFFFFF
Rounded	All	0 – 20
	Top left	0 – 20
	Top right	0 – 20
	Bottom left	0 – 20
	Bottom right	0 – 20
Padding	All	0 – 100 %
	Top	0 – 100 %
	Bottom	0 – 100 %
	Left	0 – 100 %
	Right	0 – 100 %

GRAPH—GENERAL PROPERTIES

Graph – Title properties

Property	Option	Valid values
Configuration	Visible	True/False
	Title	Any String values
	Title Panel Position Adjust width to text	 Left/Center/Right True/False
Font and text	Name	System Fonts
	Style	B, I, U
	Size	8 – 72
	Color	#000000 - #FFFFFF
	Text Transform	None/Uppercase/Lowercase/ Capitalize
	Letter spacing	-3 – 5
	Word spacing	-3 – 5
	Text alignment	Left/Center/Right/Justify
	Text shadow Visible Left to right Top to bottom Fade Color	 True/False -5 – 5 -5 – 5 0 – 5 #000000 - #FFFFFF
Background	Visible	True/False
	Color	#000000 - #FFFFFF
	Transparent	True/False
	Image	.jpg, .png (image formats)

Property	Option	Valid values
	Background repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position	Center/Left/Right/Top/Bottom
	Gradient Visible Style Angle Extent Color	 True/False Linear gradient 0 – 360 0 – 100 #000000 - #FFFFFF
Border	Visible	
	All	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
	Left	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
	Right	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
	Top	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
	Bottom	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
Shadow	Left to right	-10 – 10
	Top to bottom	-10 – 10
	Fade	0 – 20
	Color	#000000 - #FFFFFF
Rounded	All	0 – 20
	Top left	0 – 20
	Top right	0 – 20
	Bottom left	0 – 20
	Bottom right	0 – 20
Margin	All	0 – 100 %
	Top	0 – 100 %
	Bottom	0 – 100 %
	Left	0 – 100 %
	Right	0 – 100 %
Padding	All	0 – 100 %
	Top	0 – 100 %
	Bottom	0 – 100 %
	Left	0 – 100 %
	Right	0 – 100 %

GRAPH—TITLE PROPERTIES

Graph – Area properties

Property	Option	Valid values
Configuration	Graph 3D Effect Visible Angle Depth	 True/False 0 – 90 px 0 – 90 px
Background	Visible	True/False
	Color	#000000 - #FFFFFF
	Transparent	True/False
	Image	.jpg, .png (image formats)
	Background repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position	Center/Left/Right/Top/Bottom
	Gradient Visible Style Angle Extent Color	 True/False Linear gradient 0 – 360 0 – 100 #000000 - #FFFFFF
Border	Visible	
	All	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
	Left	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
	Right	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
	Top	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
	Bottom	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
Shadow	Left to right	-10 – 10
	Top to bottom	-10 – 10
	Fade	0 – 20
	Color	#000000 - #FFFFFF
Rounded	All	0 – 20
	Top left	0 – 20
	Top right	0 – 20
	Bottom left	0 – 20
	Bottom right	0 – 20
Margin	All	0 – 100 %
	Top	0 – 100 %
	Bottom	0 – 100 %

Property	Option	Valid values
	Left	0 – 100 %
	Right	0 – 100 %
Background grid		
Grid line	Visible	True/False
	Thickness	1 – 10
	Style	None/Solid/Dash/Dot/Dashdot /Dashdotdot/Raised/Lowered
	Color	#000000 - #FFFFFF
Minor grid	Enable	True/False
Grid stripe	Visible	True/False
	Odd	#000000 - #FFFFFF
	Even	#000000 - #FFFFFF
	Transparency	0 – 100 %
Zoom		
Zoom though area selection	Enable	True/False Both/Horizontal/Vertical
Scrollbar	Enable	True/False

GRAPH—AREA PROPERTIES

Graph – X-Axis properties

Property	Option	Valid values
Title		
Configuration	Visible	True/False
	Title	Any String values
Font and Text	Name	System Fonts
	Style	B, I, U
	Size	8 – 72
	Color	#000000 - #FFFFFF
	Text Transform	None/Uppercase/Lowercase/C apitalize
	Letter spacing	-3 – 5
	Word spacing	-3 – 5
	Text alignment	Left/Center/Right/Justify
	Text shadow Visible Left to right Top to bottom Fade Color	 True/False -5 – 5 -5 – 5 0 – 5 #000000 - #FFFFFF
Label		
Configuration	Visible	True/False
	Distance from axis line	0 – 10
	Stagger Enable Start from top Start from bottom	 True/False True/False True/False

Property	Option	Valid values
	Rotation	-90 – 90
Font and Text	Name	System Fonts
	Style	B, I, U
	Size	8 – 72
	Color	#000000 - #FFFFFF
	Text Transform	None/Uppercase/Lowercase/ Capitalize
	Characters limits	None/Auto/Custom
Date format		
Time format		
Line		
Configuration	Visible	True/False
	Thickness	0 – 10
	Style	None/Solid/Dash/Dot/Dashdot /Dashdotdot/
	Color	#000000 - #FFFFFF
	Position	Top/Bottom
Tick on axis	Visible	True/False
	Alignment	Left/Center
	Thickness	1 – 10
	Length	1 – 10
	Color	#000000 - #FFFFFF

GRAPH—X-AXIS PROPERTIES

Graph – Y-Axis properties

Property	Option	Valid values
Title		
Configuration	Visible	True/False
	Title	Any String values
	Title Panel ▪ Rotate Character	 0/90
Font and Text	Name	System Fonts
	Style	B, I, U
	Size	8 – 72
	Color	#000000 - #FFFFFF
	Text Transform	None/Uppercase/Lowercase/Capitalize
	Text shadow ▪ Visible ▪ Left to right ▪ Top to bottom ▪ Fade ▪ Color	 True/False -5 – 5 -5 – 5 0 – 5 #000000 - #FFFFFF
Label		
Configuration	Visible	True/False
	Maximum value	Auto / Custom

Property	Option	Valid values
	Minimum value	Auto / Custom
	Distance from axis line	0 – 10
Font and Text	Name	System Fonts
	Style	B, I, U
	Size	8 – 72
	Color	#000000 - #FFFFFF
Number format	Comma separator	True/False
	Comma format	1, 234, 567/ 12, 34 , 567
	Digits after decimal point	0 – 5
	Negative number format	(-12340,1234)
	Adjusted Digits Show suffix	0 --- 1/100000000Bn True/False
Line		
Configuration	Visible	True/False
	Thickness	0 – 10
	Style	None/Solid/Dash/Dot/Dashdot/Dashdotdot/Raised/Lowered
	Color	#000000 - #FFFFFF
	Position	Left/Right
Major tick	Visible	True/False
	Position	Inside/Cross/Outside
	Thickness	1 – 10
	Length	1 – 10
	Color	#000000 - #FFFFFF

GRAPH—Y-AXIS PROPERTIES

Graph – Legend properties

Property	Option	Valid values
Panel		
Configuration	Visible	True/False
	Position	Top/Left/Right/Bottom
	Drill down	True/False
Background	Visible	True/False
	Color	#000000 - #FFFFFF
	Transparent	True/False
	Image	.jpg, .png (image formats)
	Background repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position	Center/Left/Right/Top/Bottom
	Gradient ▪ Visible ▪ Style ▪ Angle ▪ Extent ▪ Color ▪ Transparent	 True/False Linear gradient 0 – 360 0 – 100 #000000 - #FFFFFF True/False
Border	Visible	
	All	Width: 0-10

Property	Option	Valid values
		Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
	Left	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
	Right	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
	Top	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
	Bottom	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
Shadow	Left to right	-10 – 10
	Top to bottom	-10 – 10
	Fade	0 – 20
	Color	#000000 - #FFFFFF
Margin	All	0 – 100 %
	Top	0 – 100 %
	Bottom	0 – 100 %
	Left	0 – 100 %
	Right	0 – 100 %
Padding	All	0 – 100 %
	Top	0 – 100 %
	Bottom	0 – 100 %
	Left	0 – 100 %
	Right	0 – 100 %
Title		
Configuration	Visible	True/False
	Title	Any String values
Font and Text	Name	System Fonts
	Style	B, I, U
	Size	8 – 72
	Color	#000000 - #FFFFFF
	Text Transform	None/Uppercase/Lowercase/Capitalize
	Letter spacing	-3 – 5
	Word spacing	-3 – 5
	Text alignment	Left/Center/Right/Justify
	Text shadow ▪ Visible ▪ Left to right ▪ Top to bottom ▪ Fade ▪ Color	 True/False -5 – 5 -5 – 5 0 – 5 #000000 - #FFFFFF
Values		
Configuration	Column	Free flow/1/2/3/4
	order	Ascending/Descending

Property	Option	Valid values
Font and Text	Name	System Fonts
	Style	B, I, U
	Size	8 – 72
	Color	#000000 - #FFFFFF
	Text Transform	None/Uppercase/Lowercase/Capitalize
	Characters limits	None/Auto/Custom
Date format		
Time format		
Icon		
Configuration	Width	0 – 50 screen units
Shape	Select shape	None, Square/Circle/,Triangle Up & Triangle Left, Triangle Right, Triangle Down, Diamond, Bubble
Border	Visible	True/False
	All	Width: 0-10 Style: None, Solid Color: #000000 - #FFFFFF

GRAPH—LEGEND PROPERTIES

Graph – Data value properties

Property	Option	Valid values
Point		
Configuration	Visible	True/False
	Position	Top/Center/Bottom
	Angle	-360 to 360
	Offset	-100 to 100
	Format text	$Y-AXIS_VALUE$ $X-AXIS_VALUE$ $Y-AXIS_TITLE$ $X-AXIS_TITLE$ $Z-AXIS_VALUE$ $Z-AXIS_TITLE$
Font and Text	Name	System Fonts
	Style	B, I, U
	Size	8 – 72
	Color	#000000 - #FFFFFF
Mouse over		
Configuration	Enable mouse over text	True/False
	Format text	$Y-AXIS_VALUE$ / $X-AXIS_VALUE$ / $Z-AXIS_VALUE$
Font and text	Name	System Fonts
	Style	B, I, U
	Size	8 – 72
	Color	#000000 - #FFFFFF
	Text Transform	None/Uppercase/Lowercase/Capitalize

Property	Option	Valid values
	Letter spacing	-3 – 5
	Word spacing	-3 – 5
	Text shadow ▪ Visible ▪ Left to right ▪ Top to bottom ▪ Fade ▪ Color	 True/False -5 – 5 -5 – 5 0 – 5 #000000 - #FFFFFF
Background	Visible	True/False
	Color	#000000 - #FFFFFF
Border	Visible	True/False
	All	#000000 - #FFFFFF
Shadow	Left to right	-10 – 10
	Top to bottom	-10 – 10
	Fade	0 – 20
	Color	#000000 - #FFFFFF

GRAPH—DATA VALUE PROPERTIES

Graph – Reference line properties

Property	Valid Values
Label	Any String values
Value	Numeric Value according to data
Line Style	Solid/Dash/Dot
Line width	1 – 10
Line color	#000000 - #FFFFFF

GRAPH—REFERENCE LINE PROPERTIES

Graph – Trend line properties

Property	Valid Values
Name	Any String values
Trend column	Column Values
Algorithm	Linear/Logarithmic / Exponential/Moving Average
Style	Solid/Dash/Dot
Thickness	1 – 10
Color	#000000 - #FFFFFF

GRAPH—TREND LINE PROPERTIES

Graph – Breadcrumb properties

Property	Valid Values
Font and Text	#000000 - #FFFFFF
Background ▪ Visible ▪ Color ▪ Transparent	 True/False #000000 - #FFFFFF True/False

GRAPH—BREADCRUMB PROPERTIES

Graph – Column labels properties

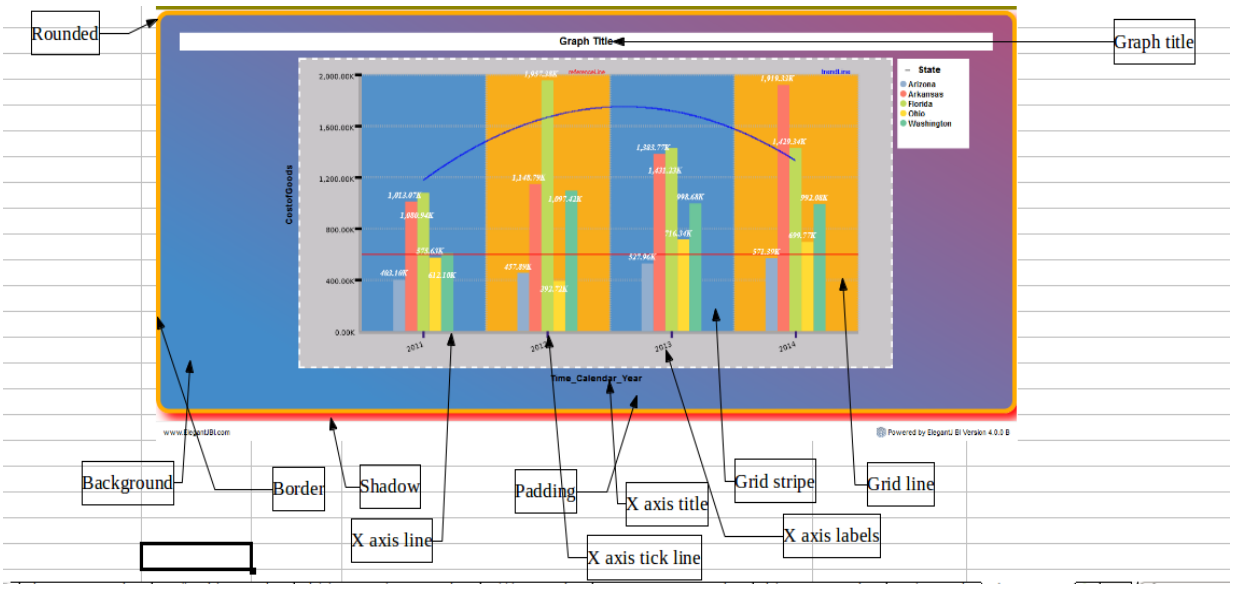
Property	Valid Values
Available Column s	List of columns selected in graph
Column display name	Any string value
Hide or Display measure columns	True/False

GRAPH—COLUMN LABELS PROPERTIES

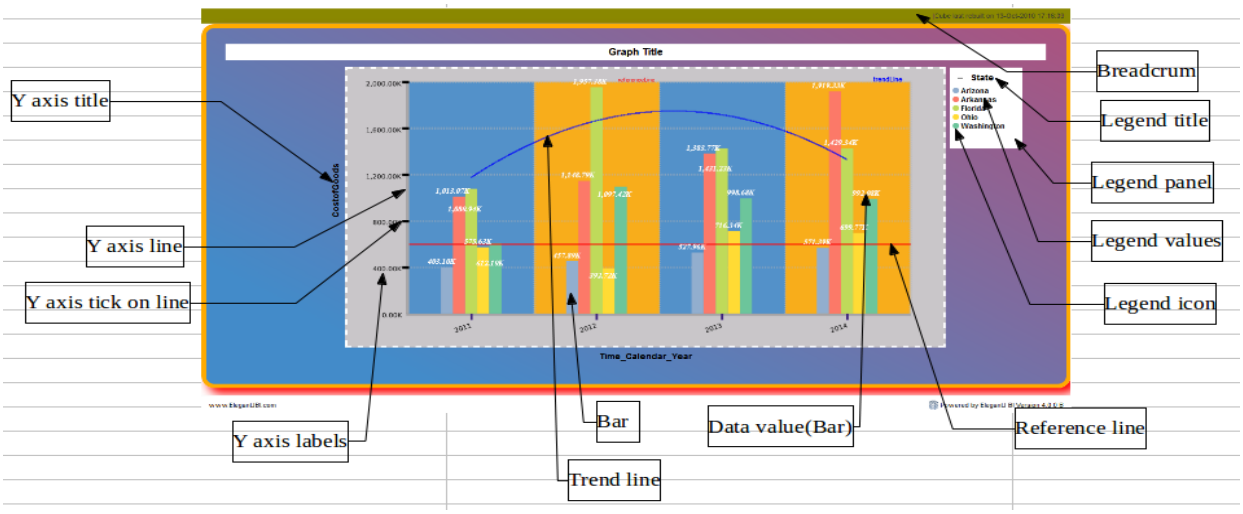
Graph – Value selection properties

Property	Option	Valid values
Font and Text	Name	System Fonts
	Style	B, I, U
	Size	8 – 72
	Color	#000000 - #FFFFFF
	Text Transform	None/Uppercase/Lowercase
	Letter spacing	-3 to 5
	Word spacing	-3 to 5

GRAPH—VALUE SELECTION PROPERTIES



TYPICAL GRAPH COMPONENTS—1



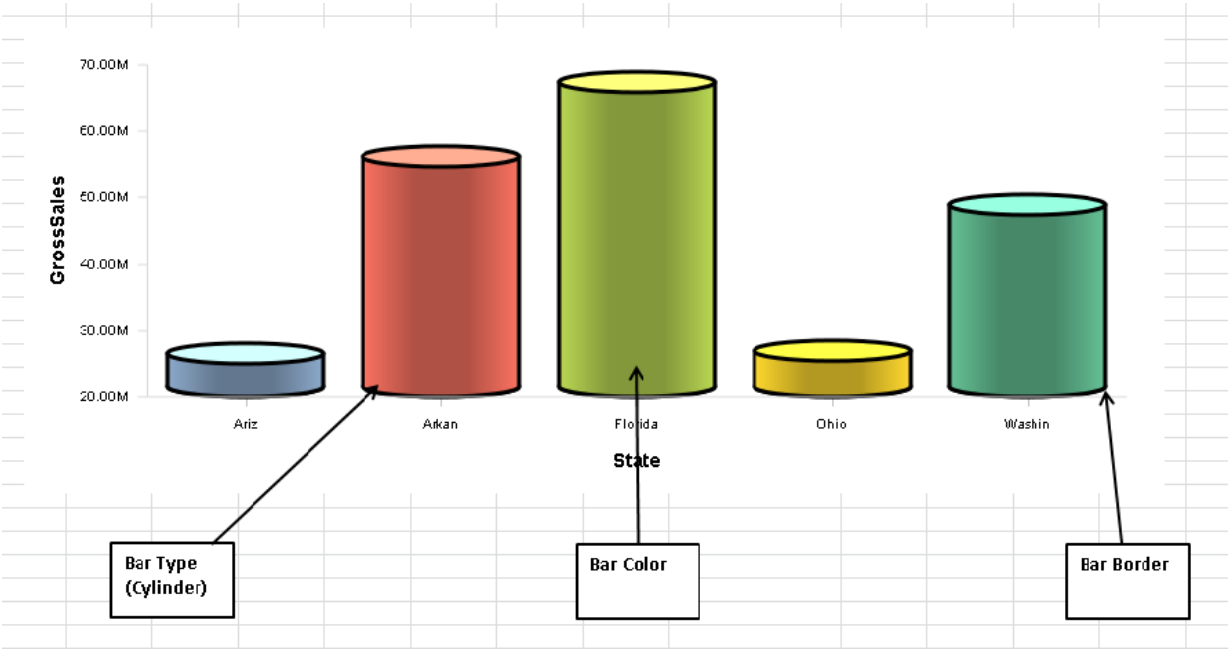
TYPICAL GRAPH COMPONENTS—2

5.3.2 Bar properties

The following table lists the properties specific to bar-type graphs.

Property	Option	Valid values
Configuration	Type	Bar/Cylinder/Cone
	Bar width	Any number value
	Corner Radius	Any number value
Bar Color	Auto	Auto/Custom/Show same color
	Color - total bar	#000000 - #FFFFFF
	Transparency	0 – 100%
Gradient	Visible	True/False
	Color	#000000 - #FFFFFF
	Transparent	True/False
Border	Visible	True/False
	All	0

BAR GRAPH PROPERTIES



GRAPH PROPERTIES—BAR GRAPH: VARIOUS ELEMENTS

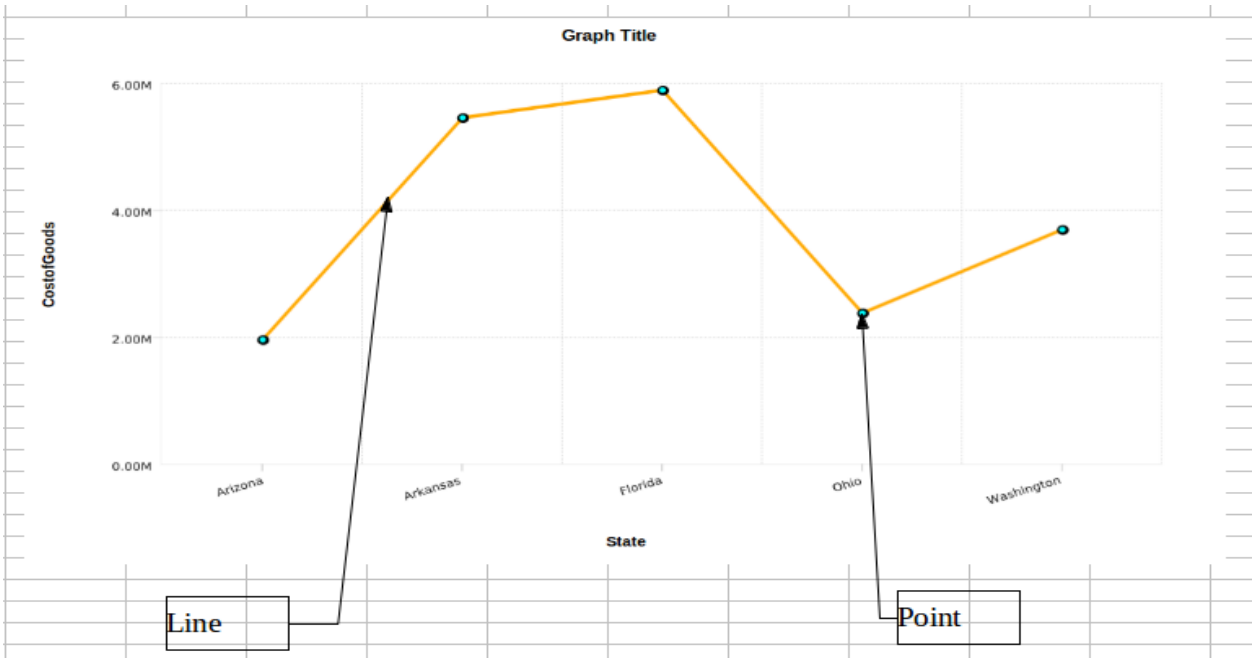
5.3.3 Line properties

The following table lists the properties specific to line-type graphs.

Property	Option	Sub-option	Valid Values
Configuration	Type		Line with point/ Line only/ Point only/ Step Line, Smoothed Line
Line settings	Color		#000000 - #FFFFFF
	Style		None/Solid/Dash/Dot
	Thickness		1 – 10

Property	Option	Sub-option	Valid Values
	Point	Color	#000000 - #FFFFFF
		Style	Square/Circle/Triangle/Diamond/Star/Plus
		Thickness	1 – 10
		Border	Style: None/Solid
			Width: 0-10
			Color: #000000 - #FFFFFF

LINE GRAPH PROPERTIES



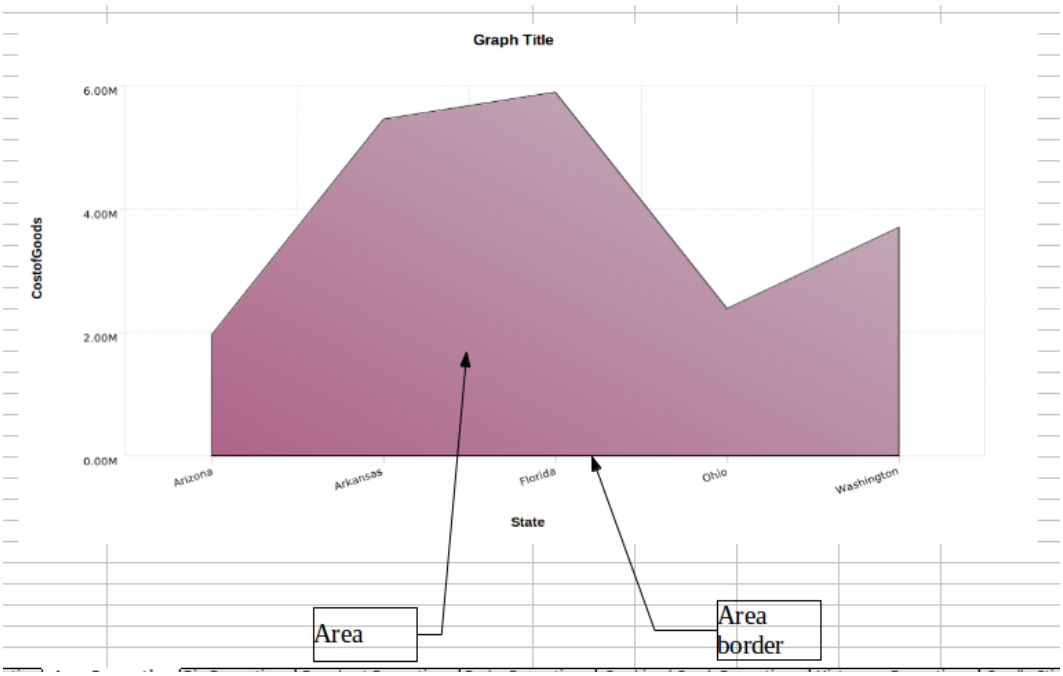
GRAPH PROPERTIES—LINE GRAPH: VARIOUS ELEMENTS

5.3.4 Area properties

The following table lists the properties specific to area-type graphs.

Property	Option	Valid values
Area Color	Auto	Auto/Custom/Show Same Color
	Transparency	0 – 100%
Gradient	Visible	True/False
	Color	#000000 - #FFFFFF
	Transparent	True/False
Border	Visible	True/False
	All	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF

AREA GRAPH PROPERTIES



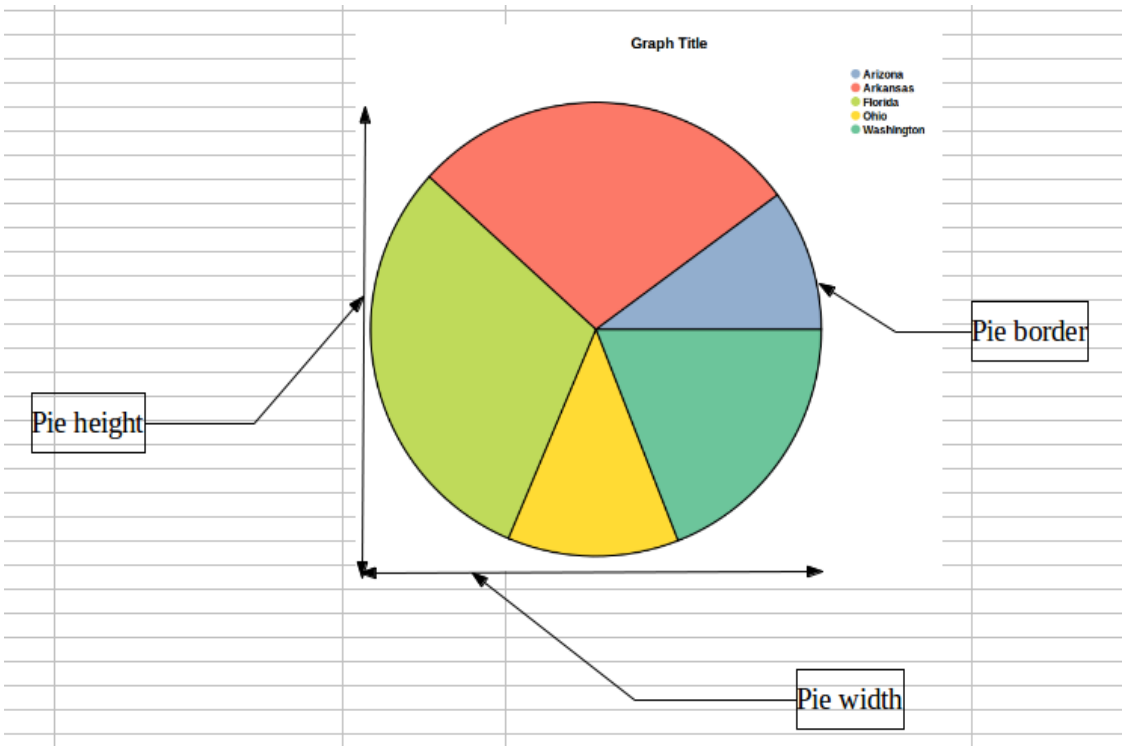
GRAPH PROPERTIES—AREA GRAPH: VARIOUS ELEMENTS

5.3.5 Pie properties

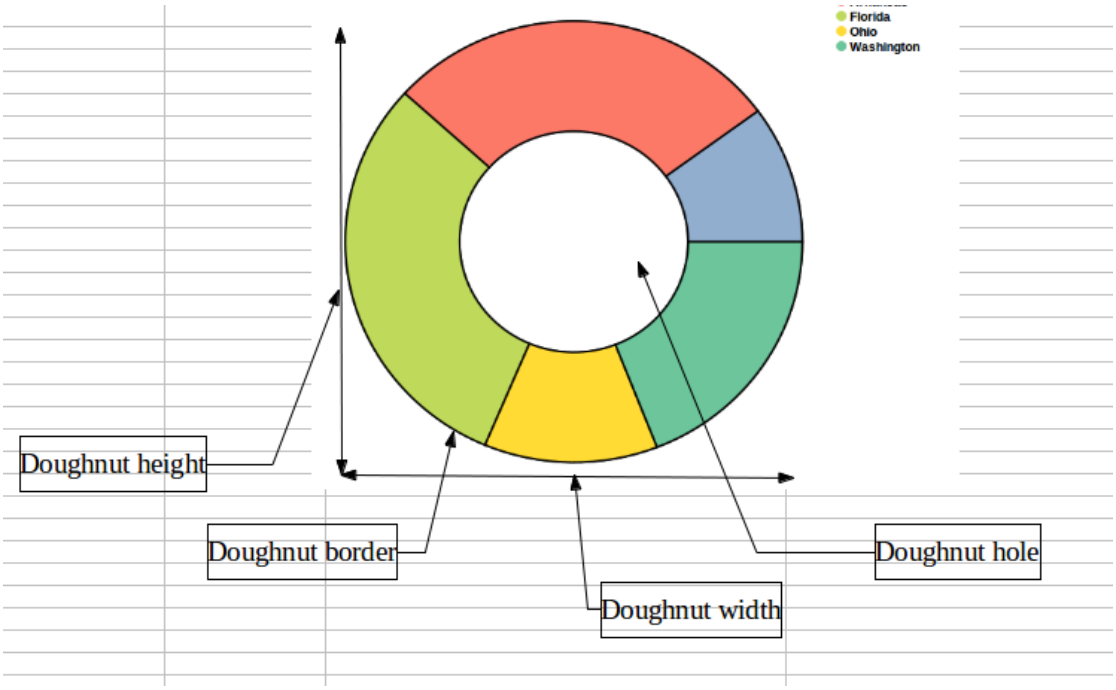
The following table lists the properties specific to pie-type graphs.

Property	Option	Sub-option	Valid Values
Pie Title			
Configuration	Visible		True/False
Font and Text	Name		System Fonts
	Style		B, I, U
	Size		8 – 72
	Color		#000000 - #FFFFFF
	Text Transform		None/Uppercase/Lower case/Capitalize
	Characters limits		None/Auto/Custom
Pie graph			
Configuration	Clustered		True/False
	Hole size		0 – 100%
	Start angle		0-360
	Angle		0-90
	Radius		0-45 %
Pie color	Auto/Custom/Show same color		True/False
	Transparency		0 – 100%
Border	Visible		True/False
	All	Width	0-10
		Style	None/Solid/Dash/Dot
		Color	#000000 - #FFFFFF

PIE GRAPH PROPERTIES



GRAPH PROPERTIES—PIE GRAPH: VARIOUS ELEMENTS



GRAPH PROPERTIES—DOUGHNUT GRAPH: VARIOUS ELEMENTS

5.3.6 Radar properties

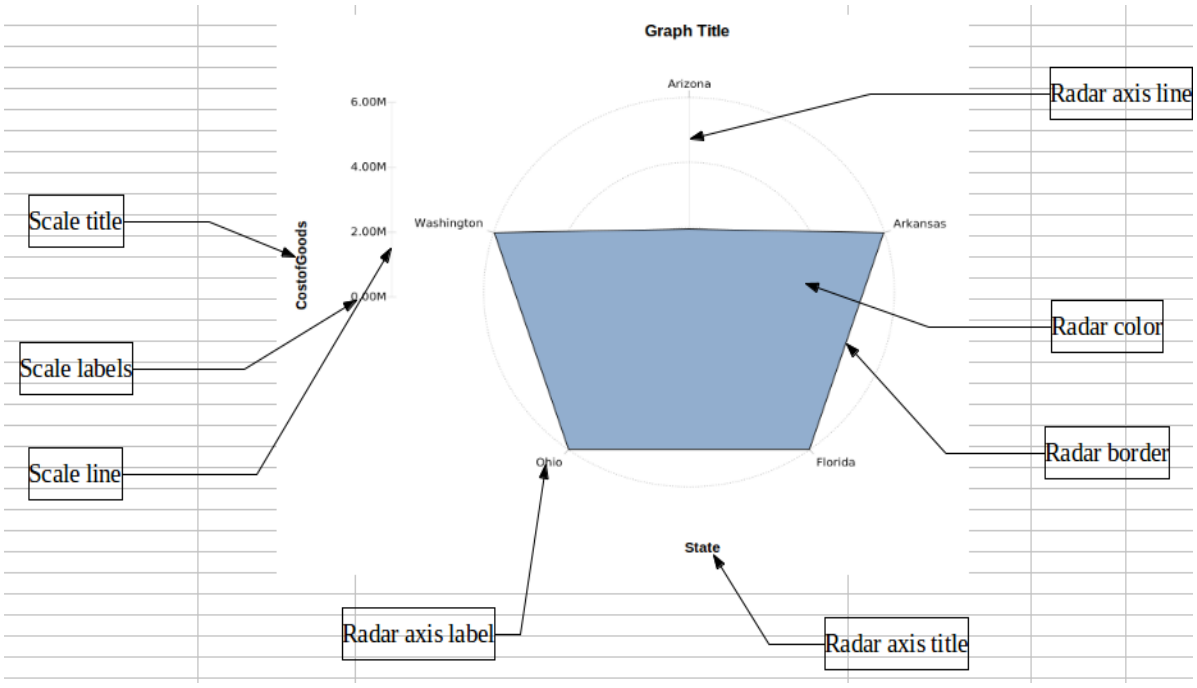
The following table lists the properties specific to radar-type graphs.

Property	Option	Sub-option	Valid Values
Radar Axis			
Title			
Configuration	Visible		True/False

	Title		Any String values
Font and Text	Name		System Fonts
	Style		B, I, U
	Size		8 – 72
	Color		#000000 - #FFFFFF
	Text Transform		None/Uppercase/Lowercase/Capitalize
	Letter spacing		-3 – 5
	Word spacing		-3 – 5
	Text alignment		Left/Center/Right/Justify
	Text shadow	Visible	True/False
		Left to right	-5 – 5
		Top to bottom	-5 – 5
		Fade	0 – 5
		Color	#000000 - #FFFFFF
Label			
Configuration	Visible		True/False
	Distance from axis line		0 – 10
Font and Text	Name	Arial	System Fonts
	Style		B, I, U
	Size		8 – 72
	Color		#000000 - #FFFFFF
	Text Transform		None/Uppercase/Lowercase/Capitalize
	Characters limits		None/Auto/Custom
Date format	01/Sep/2003		
Time format	None		
Line			
Configuration	Visible		True/False
	Thickness		0 – 10
	Style		None/Solid/Dash/Dot/Dashdot/Dashdotdot/ Raised/Lowered
	Color		#000000 - #FFFFFF
	Position		None/Top/Bottom
Radar Scale			
Title			
Configuration	Visible		True/False
	Title		Any String values
	Title Panel	Rotate Character	0/90
Font and Text	Name		System Fonts
	Style		B, I, U
	Size		8 – 72
	Color		#000000 - #FFFFFF
	Text Transform		None/Uppercase/Lowercase/Capitalize
	Letter spacing		-3 – 5

	Word spacing		-3 – 5
	Text alignment		Left/Center/Right/Justify
	Text shadow	Visible	True/False
		Left to right	-5 – 5
		Top to bottom	-5 – 5
		Fade	0 – 5
		Color	#000000 - #FFFFFF
Label			
Configuration	Visible		True/False
	Maximum value		Auto/Custom
	Minimum value		Auto/Custom
	Distance from axis line		0 – 10
	Rotation	Angle	0-90
Font and Text	Name		System Fonts
	Style		B, I, U
	Size		8 – 72
	Color		#000000 - #FFFFFF
	Text Transform		None, Capitalize ,Lower case, Uppercase
Number format	Comma separator		True/False
	Comma format		1, 234, 567/ 12, 34 , 567
	Digits after decimal point		0 – 5
	Negative number format		
Line			
Major tick	Visible		True/False
	Thickness		1 – 10
	Length		1 – 10
	Color		#000000 - #FFFFFF
Radar			
Configuration	Enable Bullet	Visible	True/false
Color	Auto/Custom/Show same color		True/False
	Transparency		0 – 100 %
Gradient	Visible		True/False
	Color		#000000 - #FFFFFF
	Transparent		True/False
Border	Visible		True/False
	All	Width	0-10
		Style	None/Solid/Dash/Dot
		Color	#000000 - #FFFFFF

RADAR GRAPH PROPERTIES



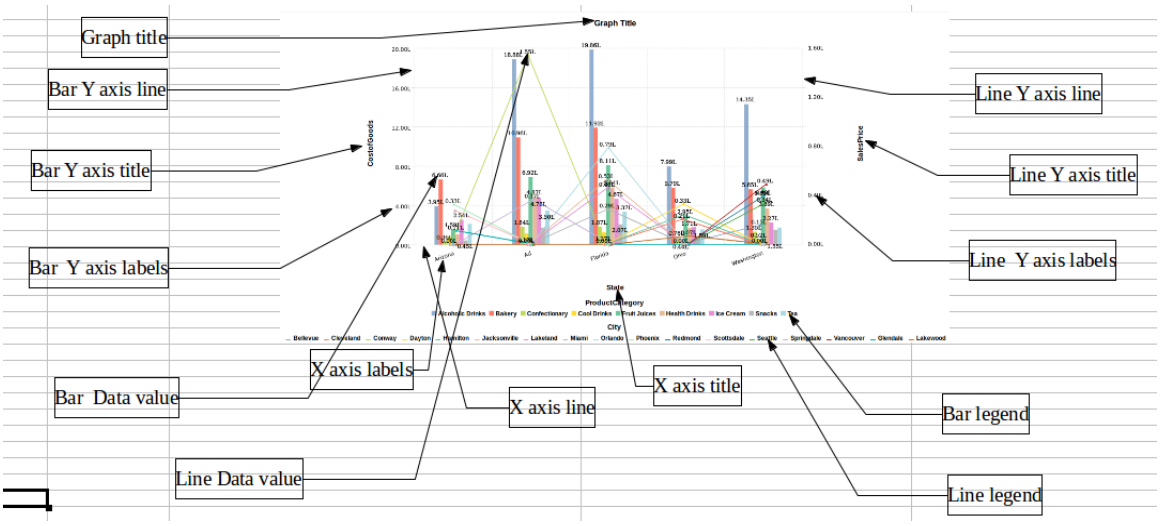
GRAPH PROPERTIES—RADAR GRAPH: VARIOUS ELEMENTS

5.3.7 Combined graph properties

The following table lists the properties specific to combined graphs.

Property	Option	Sub-option	Valid Values
Configure			
Bar			
Configuration	Corner Radius		Any number value
Bar Color	Auto/Custom/Show same color		True/False
	Transparency		0 – 100%
Gradient	Visible		True/False
	Color		#000000 - #FFFFFF
	Transparent		True/False
Border	Visible		True/False
	All	Width	0-10
		Style	None, Solid, Dash, Dot
		Color	#000000 - #FFFFFF
Line			
Configuration	Type		Line with point/ Line only/Point only/Smoothed line/Step line
Line Settings	Color		#000000 - #FFFFFF
	Style		None/Solid/Dash/Dot
	Thickness		1 – 10
	Point	Color	#000000 - #FFFFFF
		Style	Square/Circle/Triangle/Diamond
		Thickness	1 – 10
	Border	Style	None/Solid
		Width	0 – 10
		Color	#000000 - #FFFFFF

COMBINED GRAPH PROPERTIES



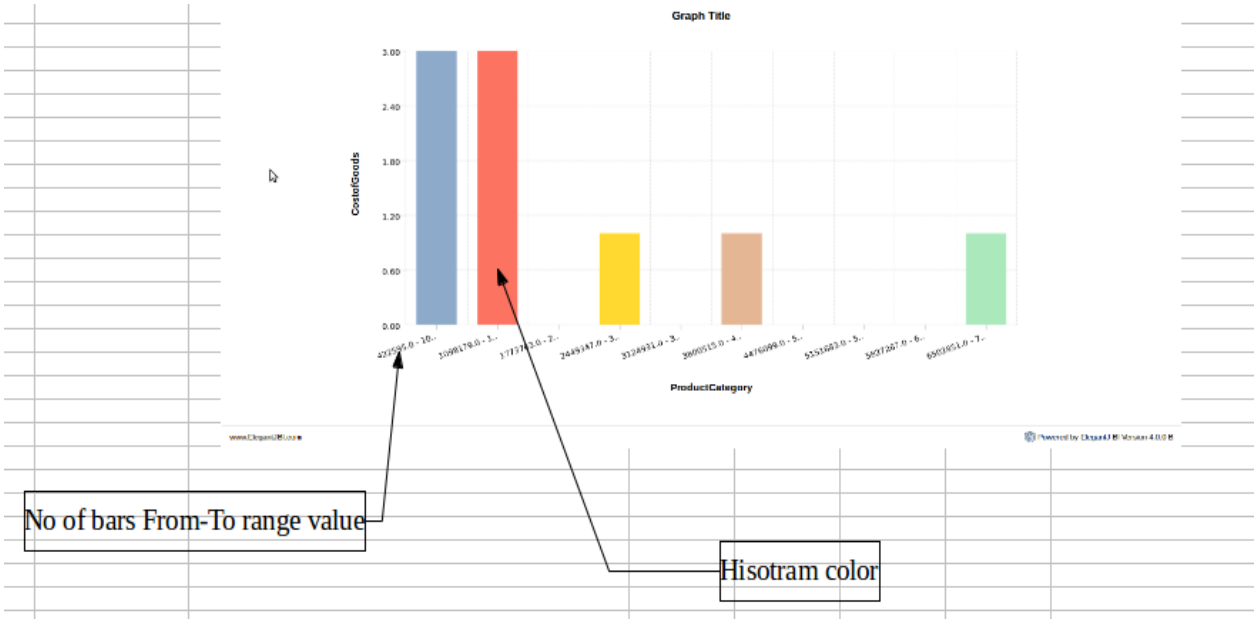
GRAPH PROPERTIES—COMBINED GRAPH: VARIOUS ELEMENTS

5.3.8 Histogram properties

The following table lists the properties specific to histograms.

Property	Option	Sub-option	Valid Values
Configuration	Number of bars		0 – 100
	Auto		Auto/Custom
Bar Color	Auto/Custom/ Show same color		True/False
	Transparency		0 – 100%
Gradient	Visible		True/False
	Color		#000000 - #FFFFFF
	Transparent		True/False
Border	Visible		True/False
	All	Width	0-10
		Style	None, Solid, Dash, Dot
		Color	#000000-#FFFFFF

HISTOGRAM PROPERTIES



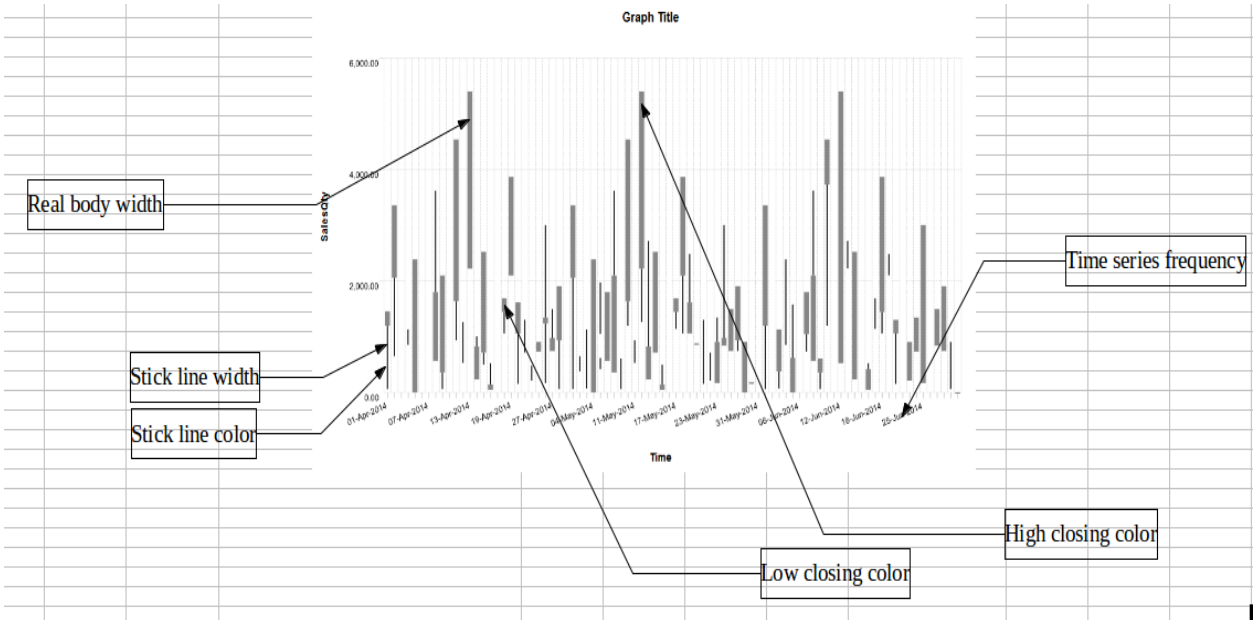
GRAPH PROPERTIES—HISTOGRAM: VARIOUS ELEMENTS

5.3.9 Candlestick properties

The following table lists the properties specific to candlestick graphs.

Property	Option	Sub-option	Valid Values
Configuration	Professional Candle Stick	Visible	True/False
	Time Series Frequency	Enable	True/False
		Time Series Frequency	None/Year/ Month/Week/Day/Hour
	Real body width		0 – 100
Candle Stick Color		High closing color	#000000 - #FFFFFF
		Low closing color	#000000 - #FFFFFF
		Stick line width	0 – 100
		High line color	#000000 - #FFFFFF
		Low Line color	#000000 - #FFFFFF
Border	Visible		True/False
	All	Width	0-10
		Style	None,Solid,Dashb,Dot
		Color	#000000-#FFFFFF

CANDLESTICK GRAPH PROPERTIES



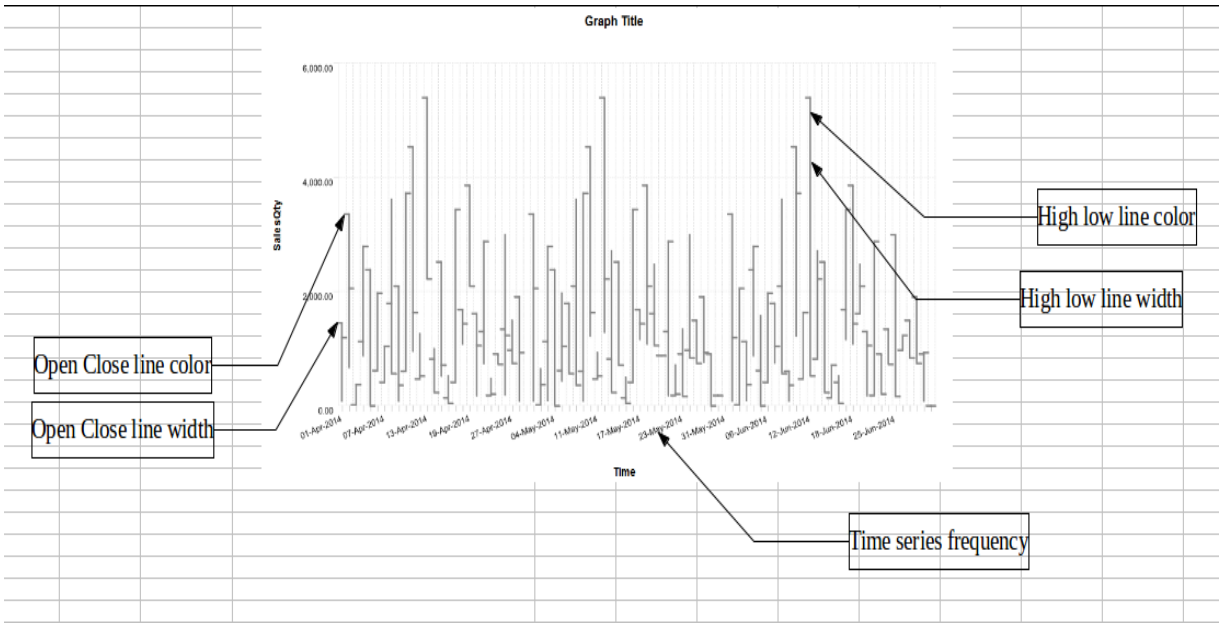
GRAPH PROPERTIES—CANDLESTICK GRAPH: VARIOUS ELEMENTS

5.3.10 High low open close properties

The following table lists the properties specific to high low open close graphs.

Property	Option	Sub-option	Valid Values
Configuration	Time series frequency		-None -Returns the year corresponding to a date (An integer between 1000 and 3000) -Returns the month (an integer between 1 and 12) -Week -Returns the day of a date, represented by a serial number. (An integer between 1 and 31) -Hour
	Open-close line color		#000000 - #FFFFFF
	High-low line color		#000000 - #FFFFFF
	Line Width		Any number

HIGH LOW OPEN CLOSE GRAPH PROPERTIES



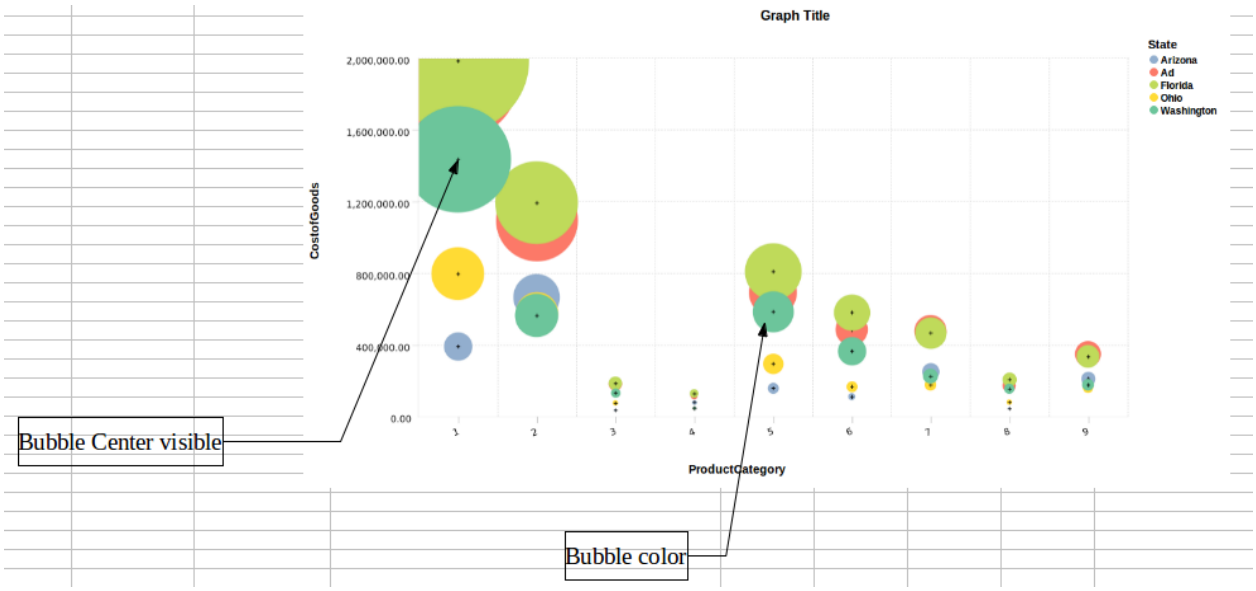
GRAPH PROPERTIES—HIGH LOW OPEN CLOSE GRAPH: VARIOUS ELEMENTS

5.3.11 XY-Chart properties

The following table lists the properties specific to XY-Chart graphs.

Property	Option	Sub-option	Valid Values
Bubble Color	Auto		Auto/Custom/Show same color
	Transparency		0 - 100%
Border	Visible		True/False
	All	Width	0-10
		Style	None/Solid/Dash/Dot
		Color	#000000-#FFFFFF

XY-CHAR PROPERTIES



GRAPH PROPERTIES—BUBBLE GRAPH: VARIOUS ELEMENTS

5.3.12 Dial gauge properties

The following table lists the properties specific to dial gauge.

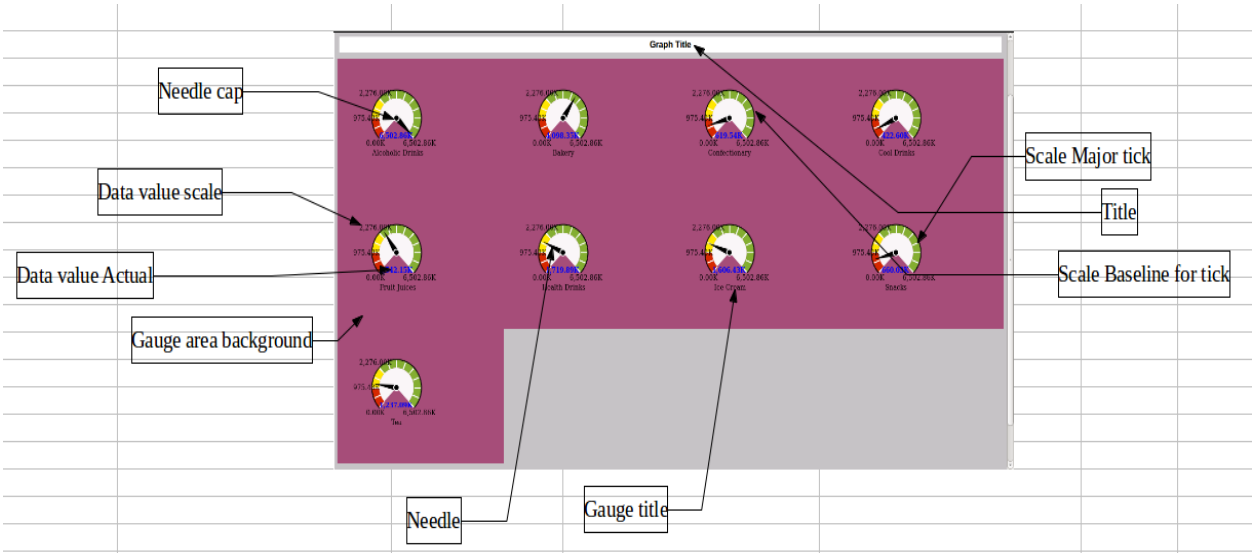
Property	Option	Sub-option	Valid Values
Gauge Area			
Configuration	Height		0-100 %
	Number of gauges in one row		1 to 5
Zone setting	Polarity		High/Low
	Maximum value		Auto/Custom
	Minimum value		Auto/Custom
	Warning threshold value		Auto/Custom
	Alert threshold value		Auto/Custom
	Target threshold value		Auto/Custom
Background	Visible		True/False
	Color		#000000 - #FFFFFF
	Transparent		True/False
	Image		.jpg, .png (image formats)
	Background repeat		Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center/Left/Right/Top/Bottom
	Gradient	Visible	True/False
		Style	Linear gradient
		Angle	0 – 360
		Extent	0 – 100
		Color	#000000 - #FFFFFF
Border	Visible		True/False
	All	Width Style Color	0-10 None, Solid, Dash, Dot #000000 - #FFFFFF
	Left	Width Style Color	0-10 None, Solid, Dash, Dot #000000 - #FFFFFF
	Right	Width Style Color	0-10 None, Solid, Dash, Dot #000000 - #FFFFFF
	Top	Width Style Color	0-10 None, Solid, Dash, Dot #000000 - #FFFFFF
	Bottom	Width Style Color	0-10 None, Solid, Dash, Dot #000000 - #FFFFFF
Shadow	Left to right		-10 – 10
	Top to bottom		-10 – 10
	Fade		0 – 20
	Color		#000000 - #FFFFFF
Rounded	All		0 – 20
	Top left		0 – 20

	Top right		0 – 20
	Bottom left		0 – 20
	Bottom right		0 – 20
Margin	All		0 – 100 %
Gauge title			
Configuration	Visible		True/False
	Distance from center		Less than Gauge area width
Font and Text	Name		System Fonts
	Style		B, I, U
	Size		8 – 72
	Color		#000000 - #FFFFFF
Scale			
Major tick	Visible		True/False
	Radius		0-100%
	Color		#000000 - #FFFFFF
	Length		1 – 15
	Thickness		1 – 20
Minor tick	Visible		True/False
	Color		#000000 - #FFFFFF
	Length		1 – 10
	Thickness		1 – 20
Target tick	Visible		True/False
	Color		#000000 - #FFFFFF
	Radius		0-100%
	Thickness		1 – 20px
Baseline for tick	Visible		True/False
	Width		1 – 10
	Style		None/Solid
	Color		#000000 - #FFFFFF
	Transparency		None – 100%
Needle Property			
	Color		#000000 - #FFFFFF
	Radius		0-100%
	Thickness		1 – 25
	Tail length		None – 25
	Transparency		None ,0 – 100%
Border	Width		0 – 10
	Style		None/Solid/Dash/Dot/Dashdot/ Dashdotdot
	Color		#000000 - #FFFFFF
Needle cap			
Configuration	Visible		True/False
	Radius		Less than Gauge area width
	Color		#000000 - #FFFFFF
	Transparency		None,0 – 100%
Border	Width		0 – 10
	Style		None/Solid/Dash/Dot/Dashdot/Dashdotd

			ot
	Color		#000000 - #FFFFFF
Dial Properties			
Zone			
Configuration	Radius	From	Less than Gauge area width
		To	Less than Gauge area width
	Angle	Start	0-360
		End	0-360
Color	Normal		#000000 - #FFFFFF
	Warning		#000000 - #FFFFFF
	Alert		#000000 - #FFFFFF
	Transparency		None – 100%
Background	Visible		True/false
	Color		#000000 - #FFFFFF
	Transparency		None ,5- 100%
Border	Width		0 – 10
	Style		None/Solid
	Color		#000000 - #FFFFFF
Outer circle			
Configuration	Visible	FALSE	True/False
		From	Less than Gauge area width
	Radius	To	Less than Gauge area width
Color	Color		#000000 - #FFFFFF
	Transparency		None – 100%
Border	Width		0 – 10
	Style		None/Solid
	Color		#000000 - #FFFFFF
Inner circle			
Configuration	Visible	False	True/False
		From	Less than Gauge area width
	Radius	To	Less than Gauge area width
Color	Color		#000000 - #FFFFFF
	Transparency		None – 100%
Border	Width		0 – 10
	Style		None/Solid/
	Color		#000000 - #FFFFFF
Background			
Border	Width		0 – 10
	Style		None/Solid
	Color		#000000 - #FFFFFF
Data value Dial gauge			
Actual			
Configuration	Visible		True/False
	Distance from center		Less than Gauge area width

Font and Text	Name		System Fonts
	Style		B, I, U
	Size		8 – 72
	Color		#000000 - #FFFFFF
Number format	Comma separator		True/False
	Comma format		1, 234, 567/ 1, 23, 45 , 67
	Digits after decimal point		1/2/3/4/5
	Negative number format		
	Adjusted digits		1/1000K, 1/100000L, 1/1000000M, 1/10000000Cr, 1/100000000Bn
Target			
Configuration	Visible		True/False
	Distance from center		Less than Gauge area width
Font and Text	Name		System Fonts
	Style		B, I, U
	Size		8 – 72
	Color		#000000 - #FFFFFF
Zone			
Configuration	Visible		True/False
Font and Text	Name		System Fonts
	Style		B, I, U
	Size		8 – 72
	Color		#000000 - #FFFFFF

DIAL GAUGE PROPERTIES



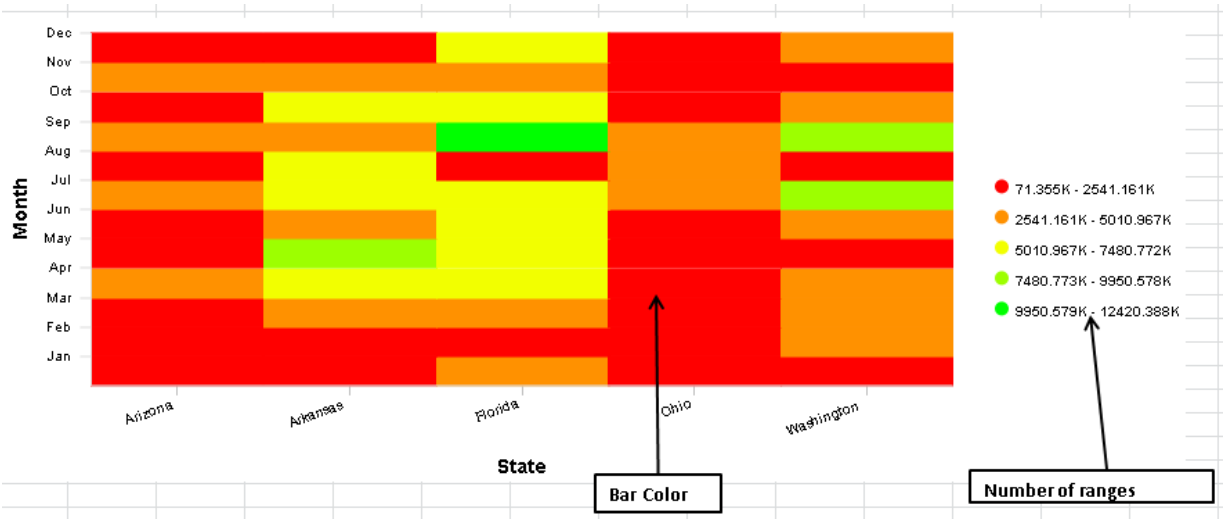
GRAPH PROPERTIES—DIAL GAUGE: VARIOUS ELEMENTS

5.3.13 Heat map properties

The following table lists the properties specific to Heat map chart.

Property	Option	Sub-option	Valid Values
Configuration	Number of Ranges	Auto/Custom	1-100
Bar Color	Auto/Custom		True/False
	Transparency		0-100

HEAT MAP PROPERTIES



GRAPH PROPERTIES—HEAT MAP CHART: VARIOUS ELEMENTS

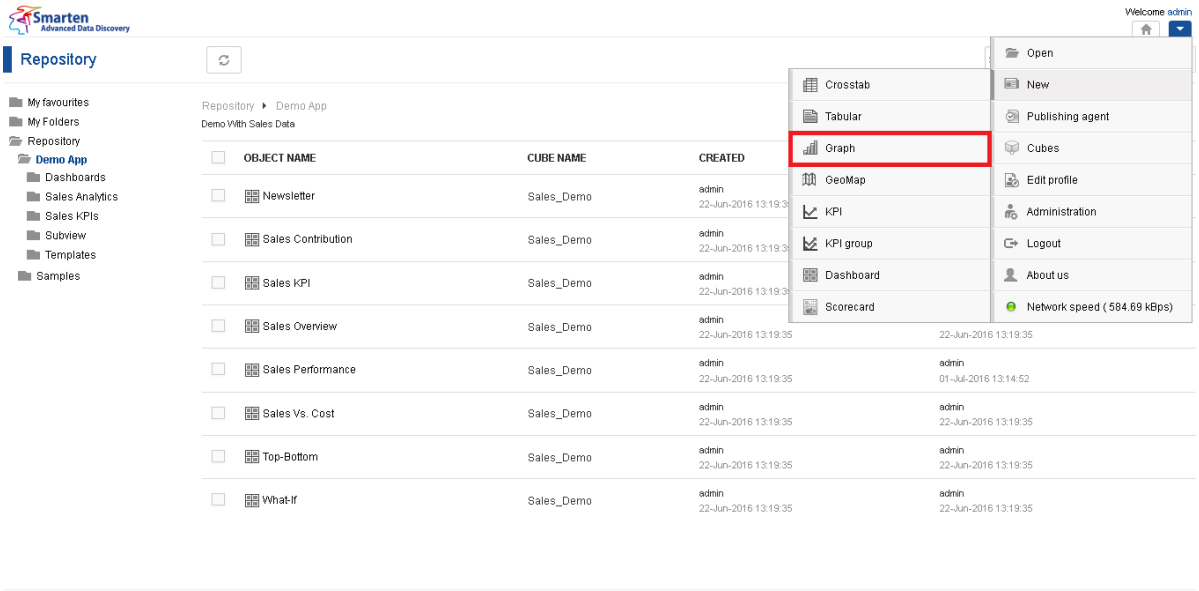
5.4 Creating Graph using Wizard

Smarten Graphs directly gives you the perspective of data in graphical form for better interpretation and effective visualisation.

There is a wide range of useful chart types available in Smarten, from **bar** charts to more complex **radar**, **XY-Chart**, **Pie** chart, **dial gauge** and **Heat map**. You can change to any graph type on the fly.

Procedure

1. In the upper right-hand corner, click the **down arrow** icon.
   The system displays the Main Menu.
2. In the Main Menu, mouse over on **New**.
   The system displays the Submenu.



NEW GRAPH

3. Click **Graph**.

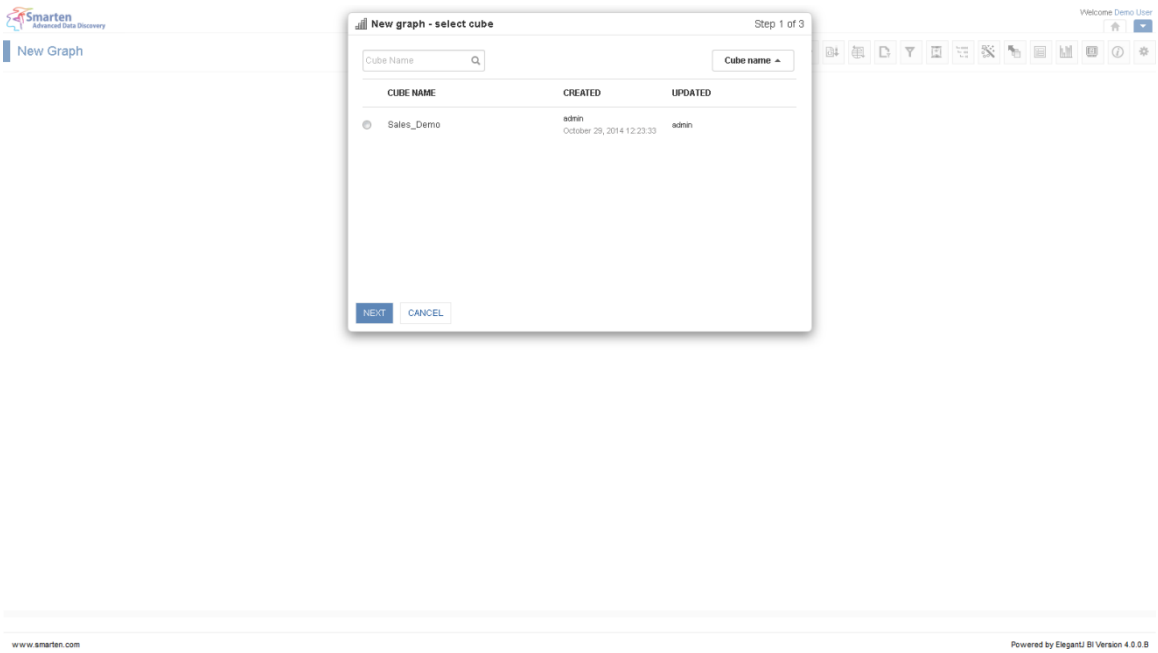
Creating a graph is a wizard-driven simple process and has the following steps:

- Step 1—Selecting Cube for Graph
- Step 2—Selecting Graph Type
- Step 3—Building outliner settings

5.4.1 Selecting Cube for Graph

Procedure

1. Follow the **Procedure** of **Creating Graph**.
   The system displays the **New Graph – select cube** dialog box.



NEW GRAPH—SELECTING CUBE

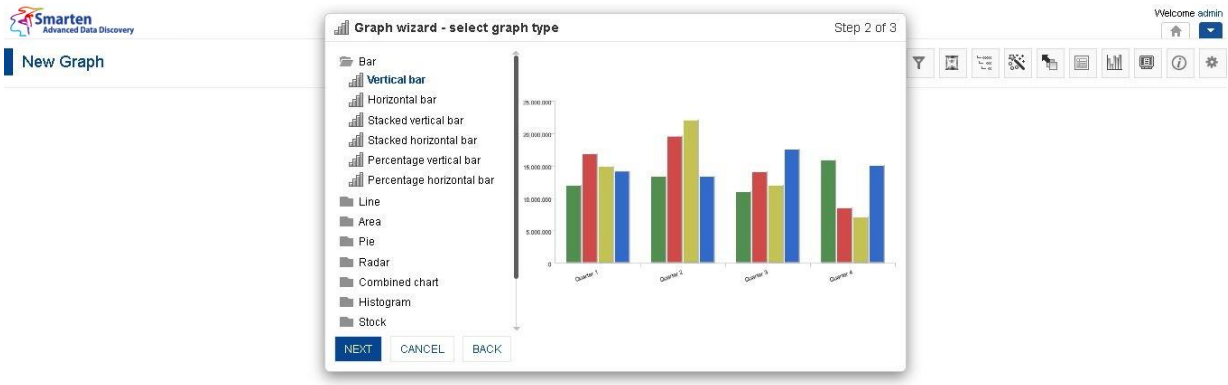
2. Click the radio button to select the cube name.
3. Click **Next**.

5.4.2 Selecting Graph Type

In the **Graph Wizard – Select Graph Type** dialog box, you can select a specific graph type. List of different graph types with example are displayed.

Procedure

1. Follow the **Procedure** of **Selecting Cube for Graph**.
   The system displays the **Graph wizard-select graph properties** dialog box.
2. Click the type of graph you want to create from the list.
   An example of the selected graph type will be displayed.



GRAPH: SELECTING GRAPH TYPE

3. Click **Next**.

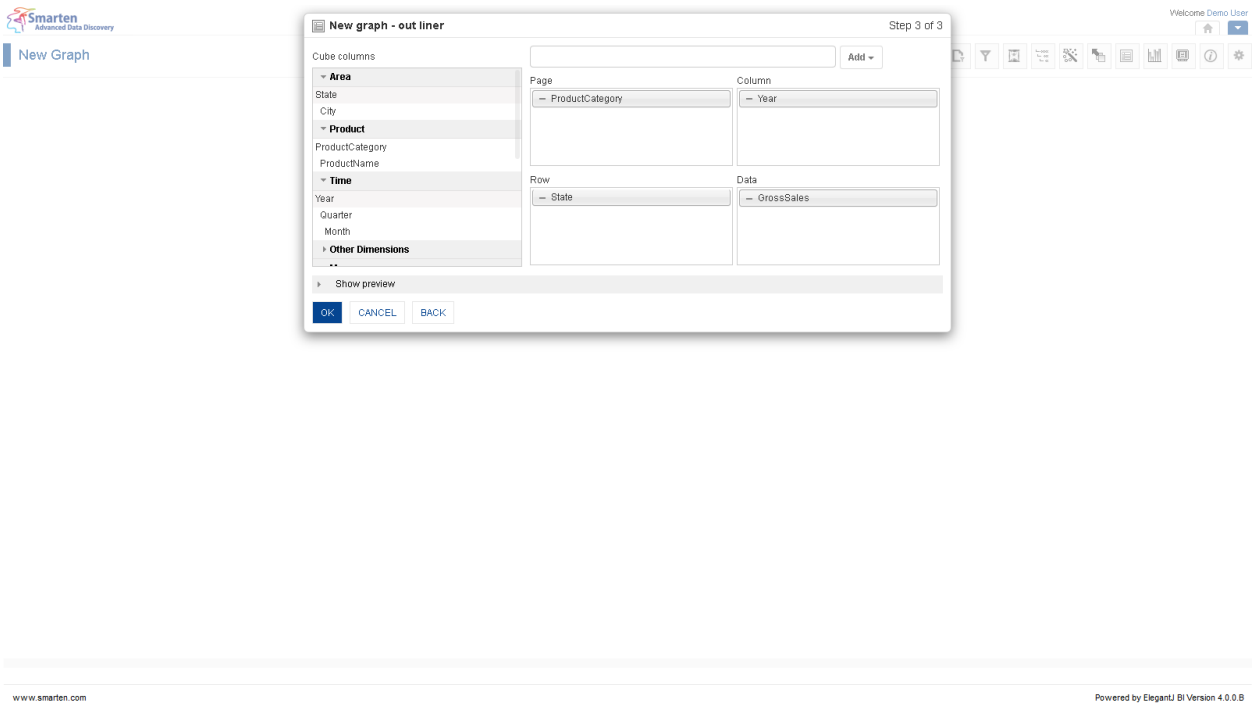
Reference: **User Manual > Working with Graph > Understanding Graph Types**

5.4.3 Outliner Settings

Outliner in Smarten gives you complete control on what you want to see on your X-, Y-, and Z-axes and lets you set automatic drill down and drill up path in your graphs.

By simple drag-n-drop of dimensions in row, column, or page dimension and measures in data, you can build the outliner settings. Refer to the figure below to know how the outliner is formed by the selection of different dimensions and measures in cube.

The **Cube Columns** display the dimensions, measures, and custom measures available at cube level to build the selected graph in hierarchical view.



OUTLINER HIERARCHICAL VIEW

5.4.3.1 Add Columns to Row, Column, Data, and Page Section

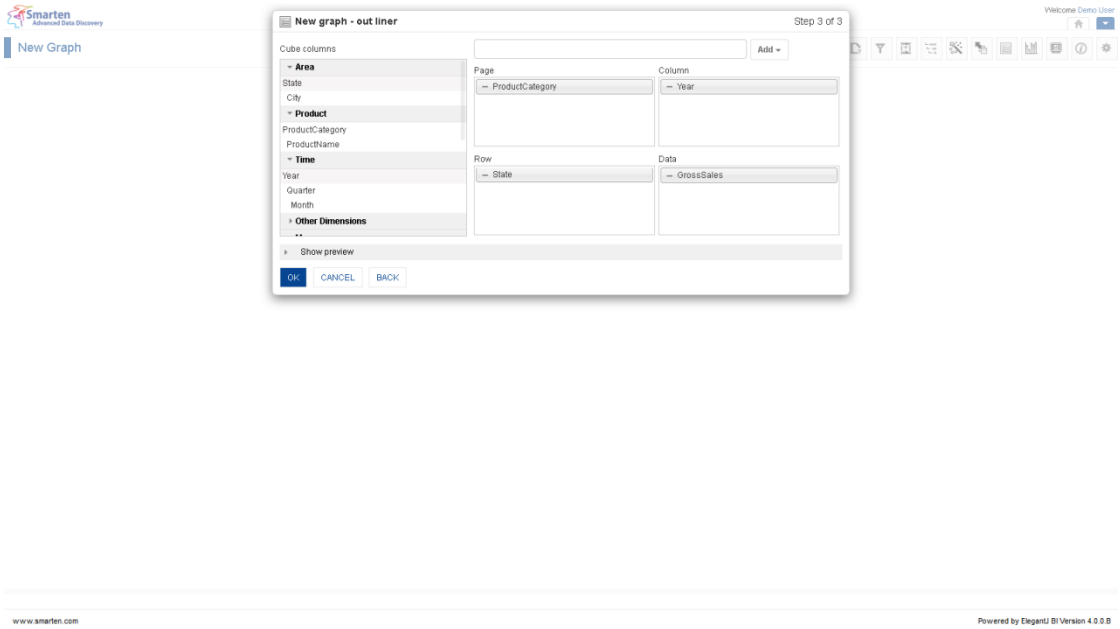
The dimensions, measures, and custom measures defined in the multidimensional cube are shown under **Cube Columns** in **Outliner.**

About this task

To build the graphical OLAP, you need to assign dimensions from the Cube Columns to the Page, Column, and Row sections in Outliner. You cannot add dimensions to the Data section.

Procedure

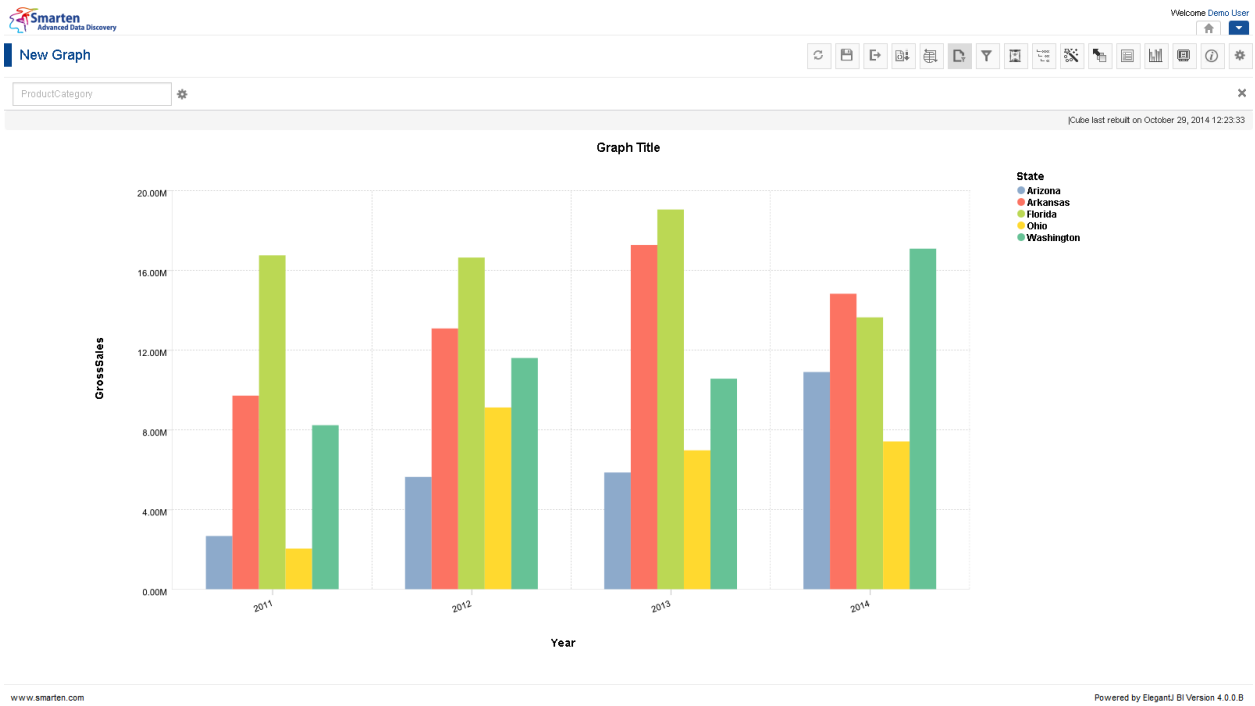
1. Follow the **Procedure** of **Selecting graph type**.
   The system displays the **New graph – outliner** dialog box.
2. Select columns from the **Cube columns**.
3. Drag and drop the selected dimensions in **Page, Column**, or **Row**.
4. Drag and drop the selected measures in **Data**.
5. Click **Show Preview** to generate and preview a miniature view of graph as per outliner settings.
6. Click **OK** to create the graph.



GRAPH: OUTLINER: ADD ROW/COLUMN/DATA/PAGE COLUMN

Note:
Measures cannot be added to Page, Row or Column for all chart types except XY-chart. For XY-chart, measure can be added in Column also.

Dimensions cannot be added to Data.
Once you have added a dimension to any section, you cannot add that dimension again in any other section.



GRAPH PLOTTING AS PER OUTLINER SETTINGS

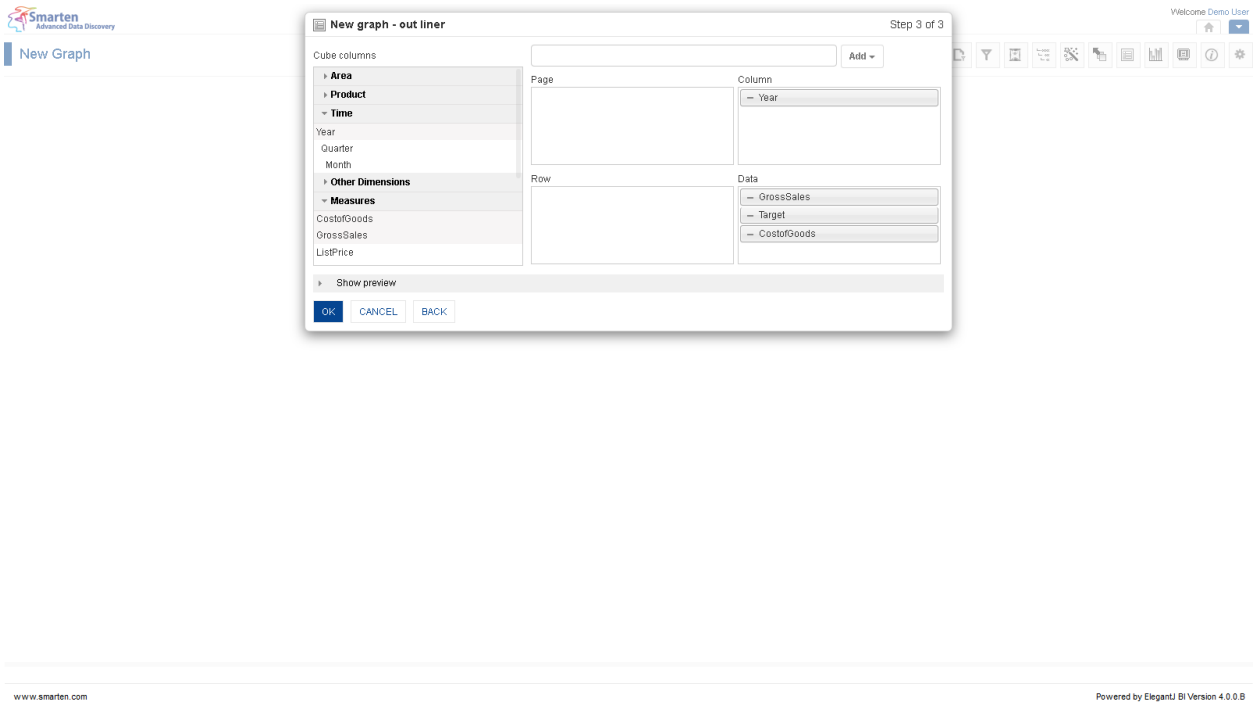
5.4.3.2 Add Multiple Measures to Data Section

About this task

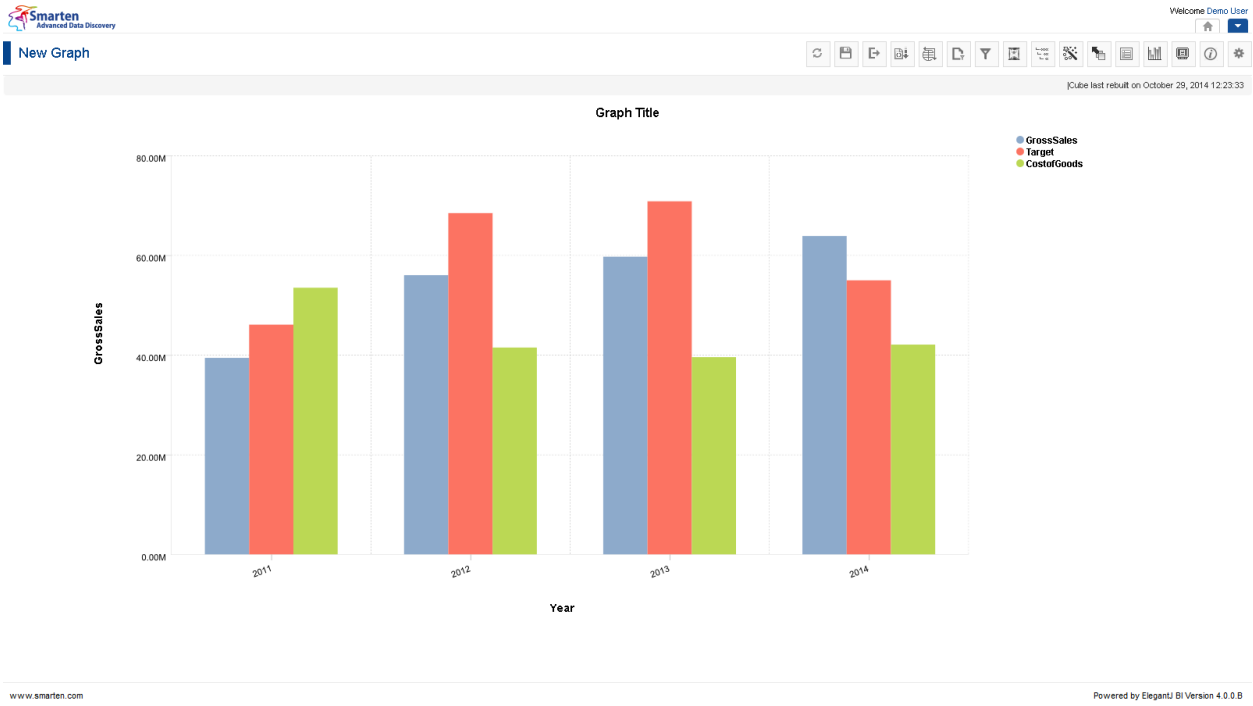
You can view multiple measures of selected cube displayed in Outliner.

Procedure

1. Follow the **Procedure** of **Selecting graph type**.
   The system displays the **New graph – outliner** dialog box.
2. Drag and drop the selected measures in **Data**. You can add any number of measures and custom measures in the **Data** dimension. For example, you can add GrossSales and any or all custom measures to Data dimension. You can also add same measure for multiple times in **Data** dimension. For example, you can add GrossSales twice in the Data dimension. Each time the measure is added, it is named as GrossSales, GrossSales _1, and so on.
3. Click **Show Preview** to generate and preview a miniature view of graph as per outliner settings.
4. Click **OK**.



GRAPH: OUTLINER: MULTIPLE MEASURES



GRAPH: OUTLINER: DIMENSION AND MULTIPLE MEASURES

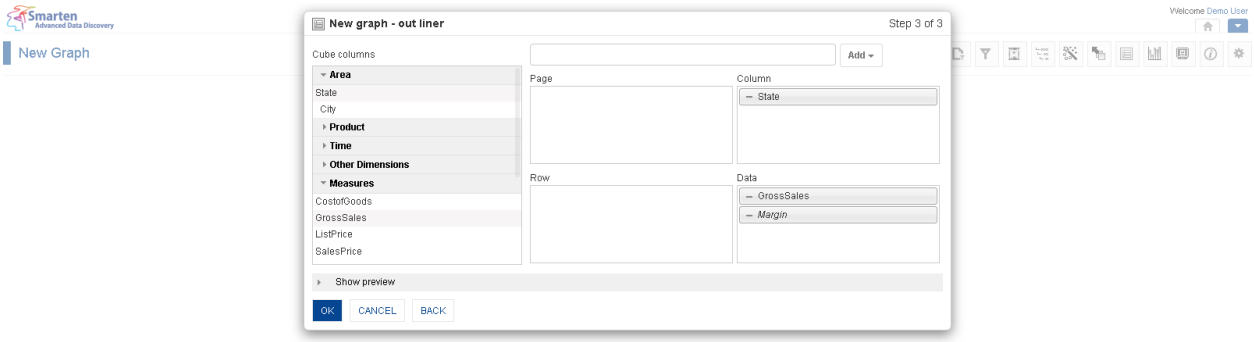
5.4.3.3 Add Custom Measures (UDDC) to Data Section

The custom measures created by administrator/users in Smarten by building formula on existing columns as per analysis or reporting requirements are also available in Outliner at the time of building the graph.

You can view all created custom measure columns (UDDC) of selected cube displayed in Italic font in Outliner.

Procedure

1. Follow the **Procedure** of **Selecting graph type**.
   The system displays the **New graph – outliner** dialog box.
2. Drag and drop the selected custom measure in **Data**. You can add any number of custom measures in the **Data** dimension. You can add multiple custom measures to Data dimension. For example, you can add **Profit** and any or all custom measures to **Data** dimension. You can also add same measure for multiple times in **Data** dimension. For example, you can add **Profit** twice in the **Data** dimension. Each time the measure is added, it can be named as **Profit _1, Profit _2**, and so on.
3. Click **Show Preview** to generate and preview a miniature view of graph as per outliner settings.
4. Click **OK**.



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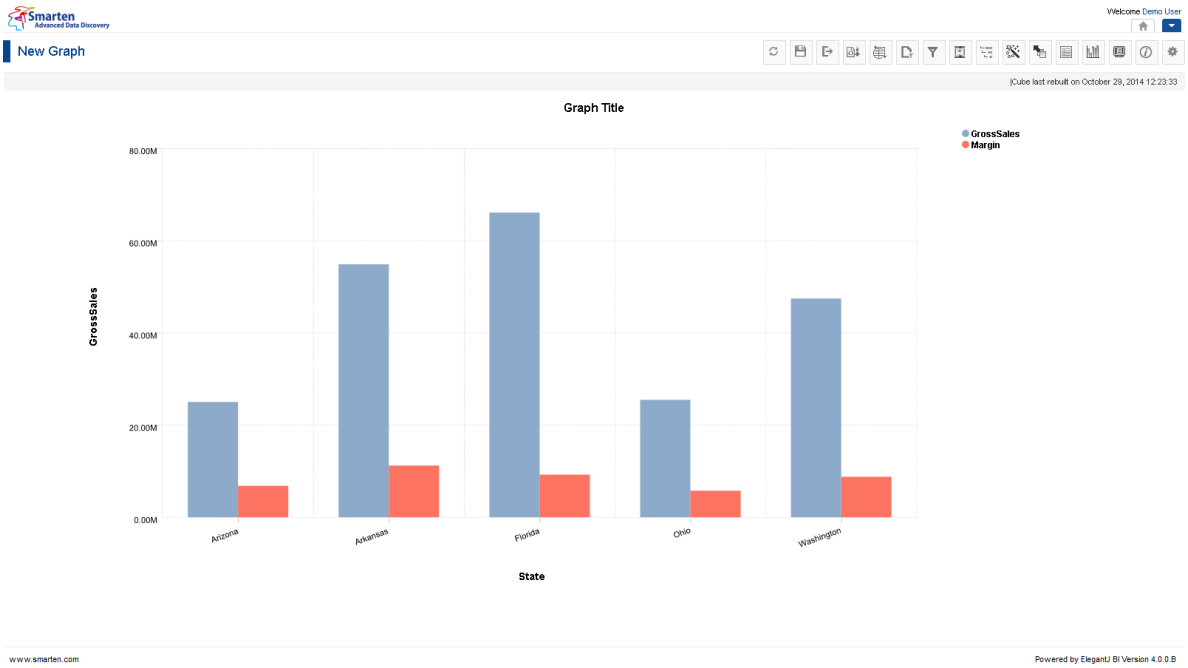
GRAPH: OUTLINER: CUSTOM MEASURES



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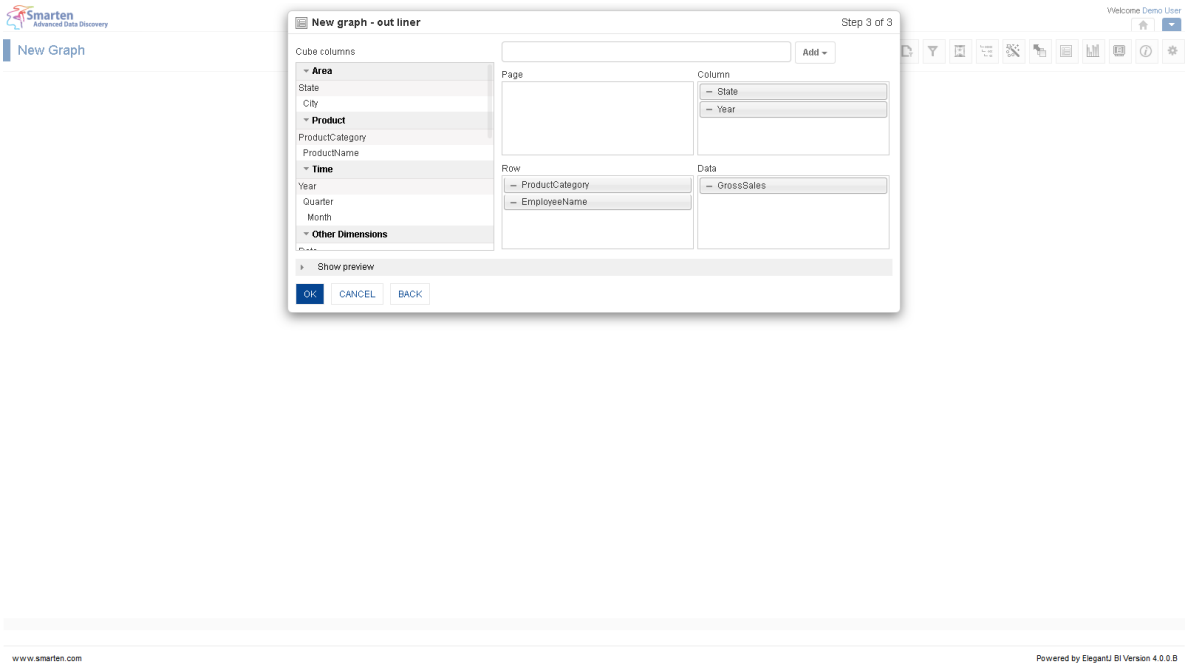
GRAPH: CUSTOM MEASURES IN OUTLINER

Reference: **User Manual > Working with Graph > Relationship of Outliner with Graphs**

5.4.3.4 Drill Down Setting

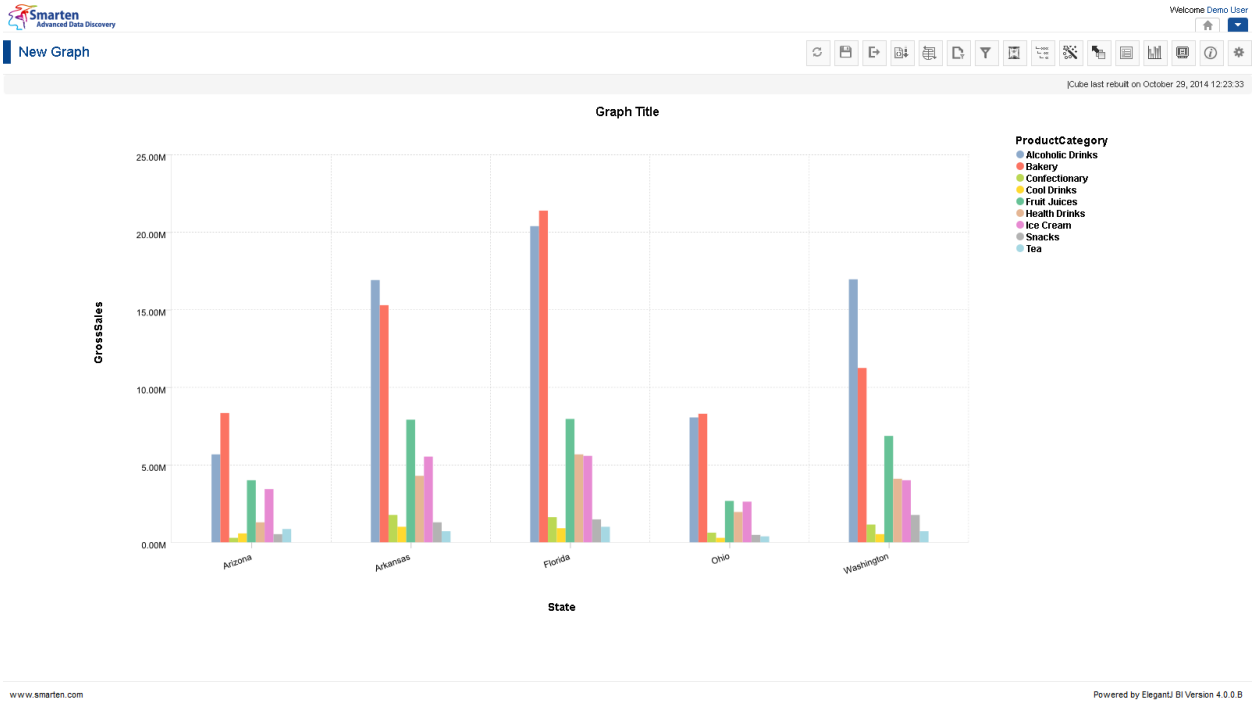
You can arrange the order of dimensions for drill down by arranging dimensions in outliner. For example, if you have placed Employee dimension below Product Category dimension, Product Category will be displayed when graph is loaded, and then clicking on Product Category will drill down to Employees within that Product Category.



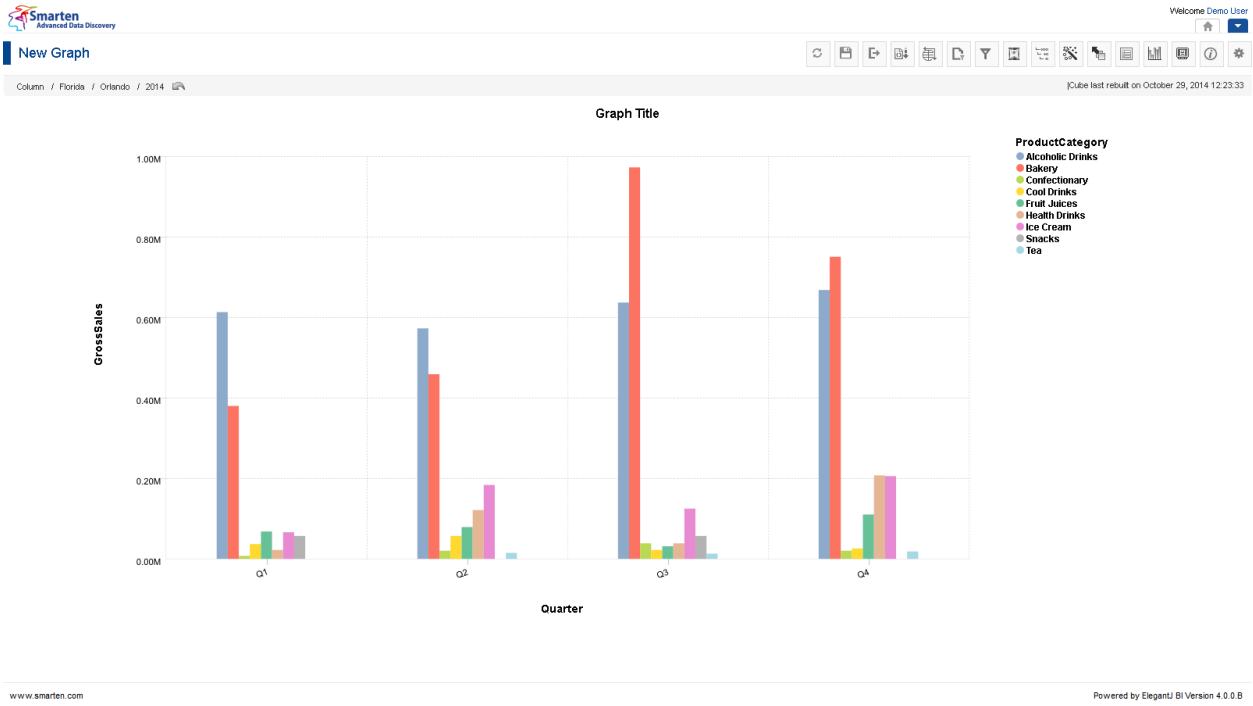
GRAPH: DRILL DOWN SETTING

Procedure

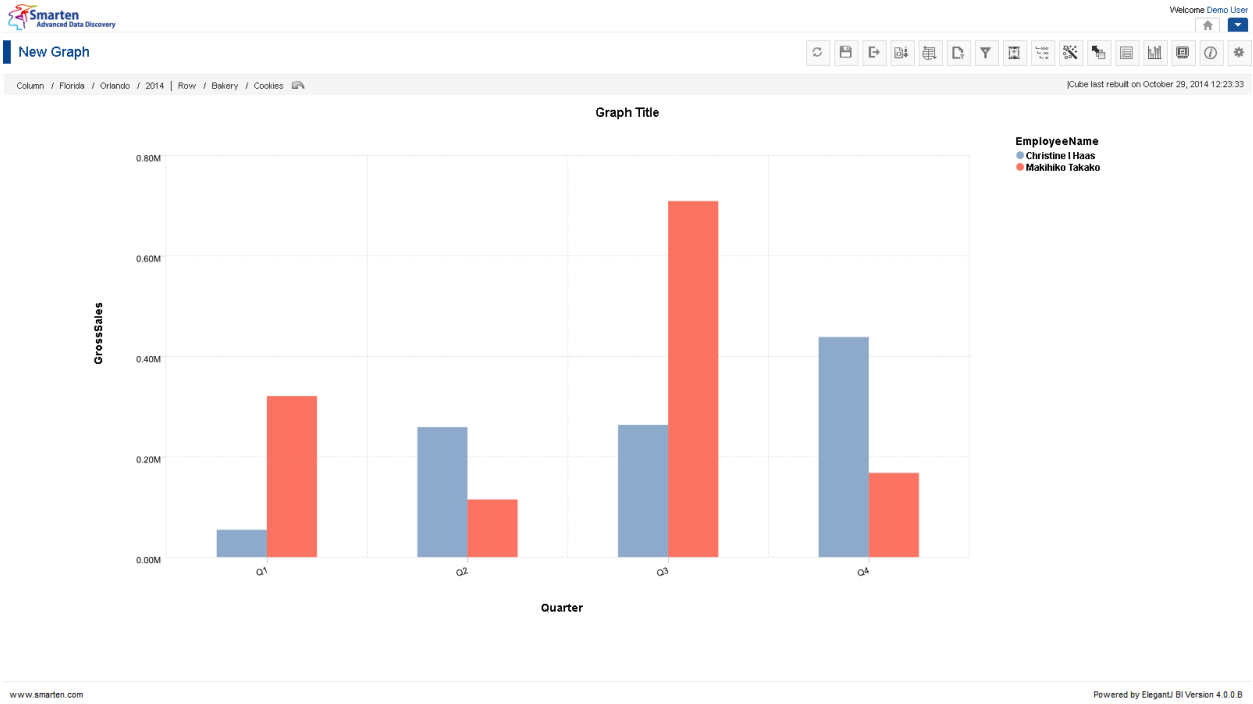
1. Follow the **Procedure** of **Selecting graph type**.
   The system displays the **New graph – outliner** dialog box.
2. Select specific dimensions that you want to change.
3. Drag and drop the dimension or measure from the **Cube Columns** to the **Row, Column**, and **Data** quadrants, and arrange them in **Row** and **Column** dimension as per drill down hierarchy you need.
4. Click **OK** to save the drill down settings.
5. Click **CANCEL** to abandon the changes and cancel the operation.
6. Click **BACK** to go back to graph without saving any change.



GRAPH: BEFORE DRILL DOWN



GRAPH: AFTER DRILL DOWN X-AXIS (COLUMN)

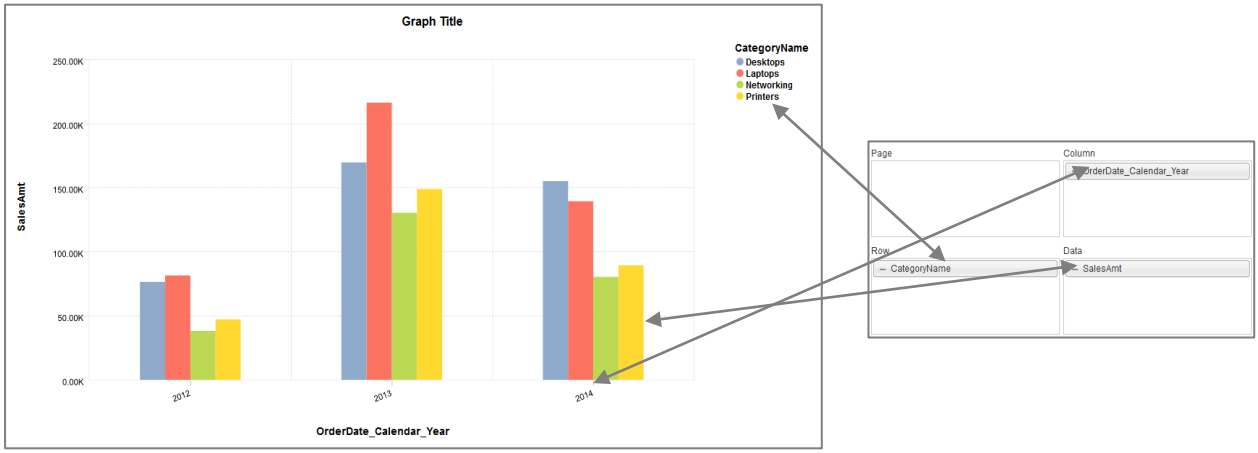


GRAPH: AFTER DRILL DOWN LEGEND (ROW)

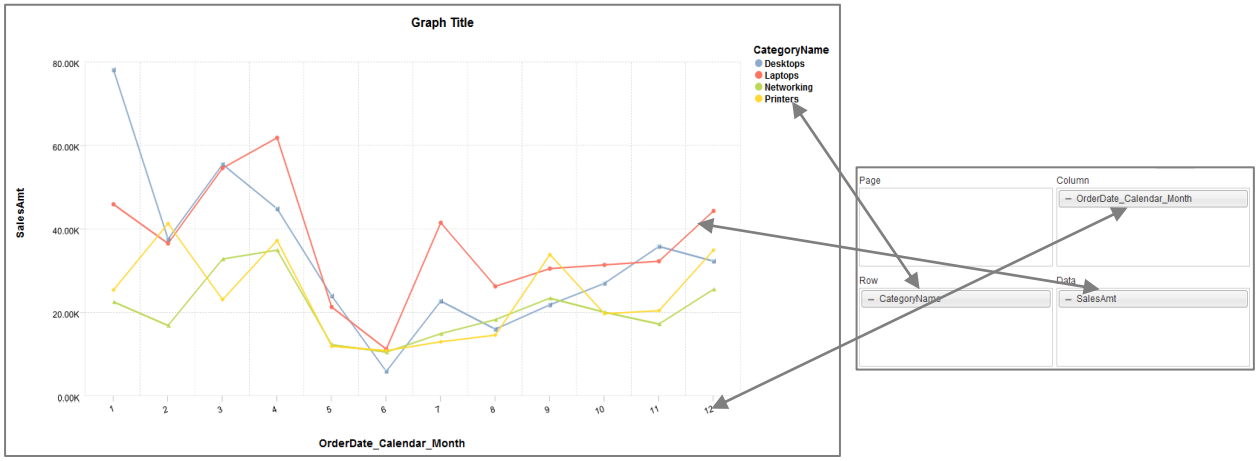
5.5 Relationship of outliner with Graphs

You can use the outliner tool to decide the placement of dimensions and measures in a graph. Graph will be rendered based on these columns position in the outliner. This graph rendering will vary depending on the type of graph.

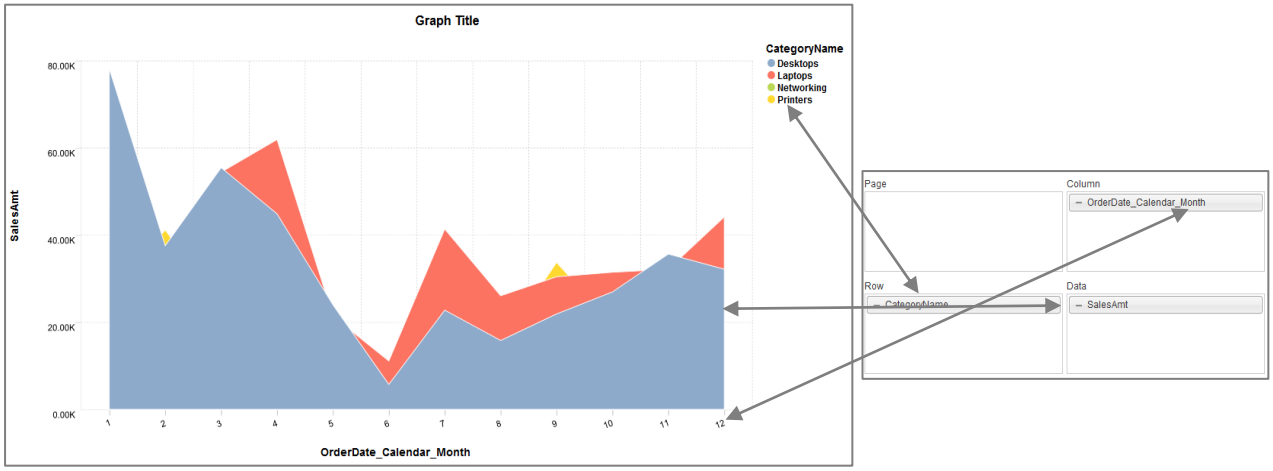
The following screenshots show the relationship of outliner settings to the plotting of graphs for different graph types.



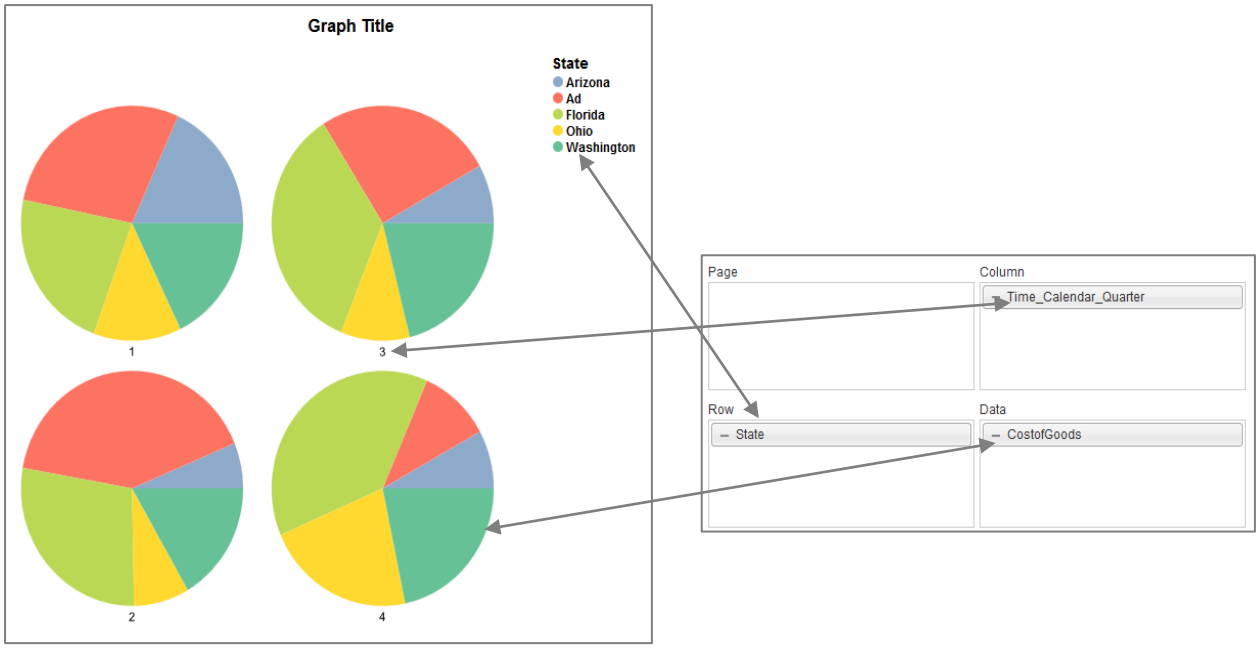
OUTLINER IN RELATIONSHIP TO BAR GRAPHS



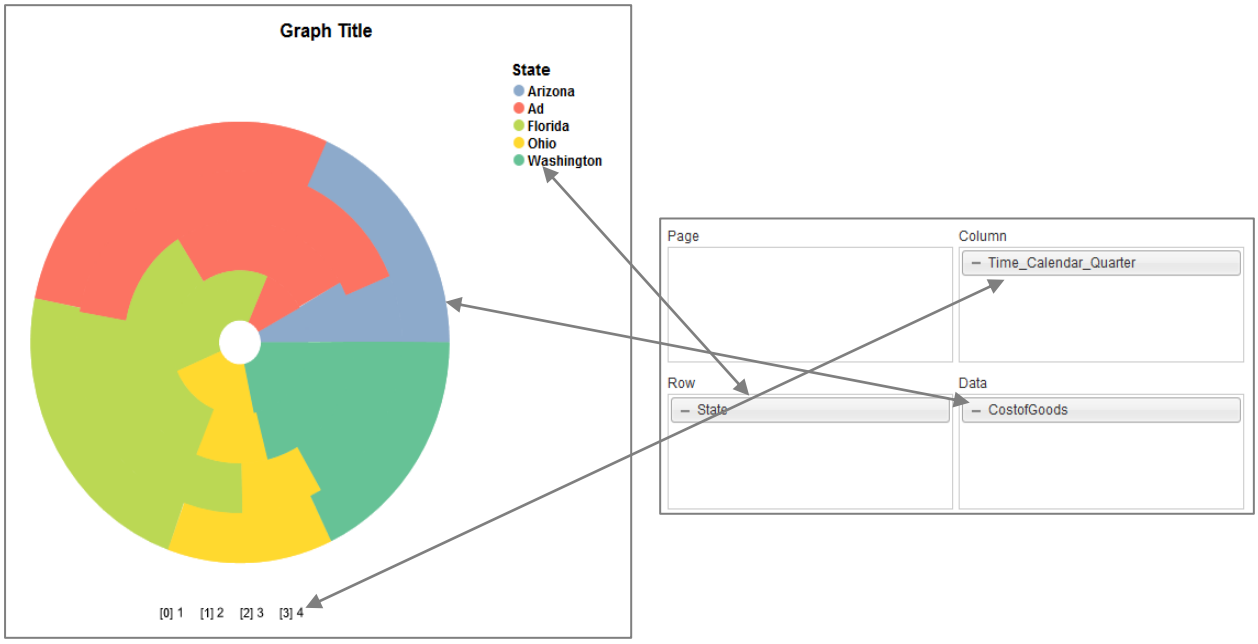
OUTLINER IN RELATIONSHIP TO LINE GRAPHS



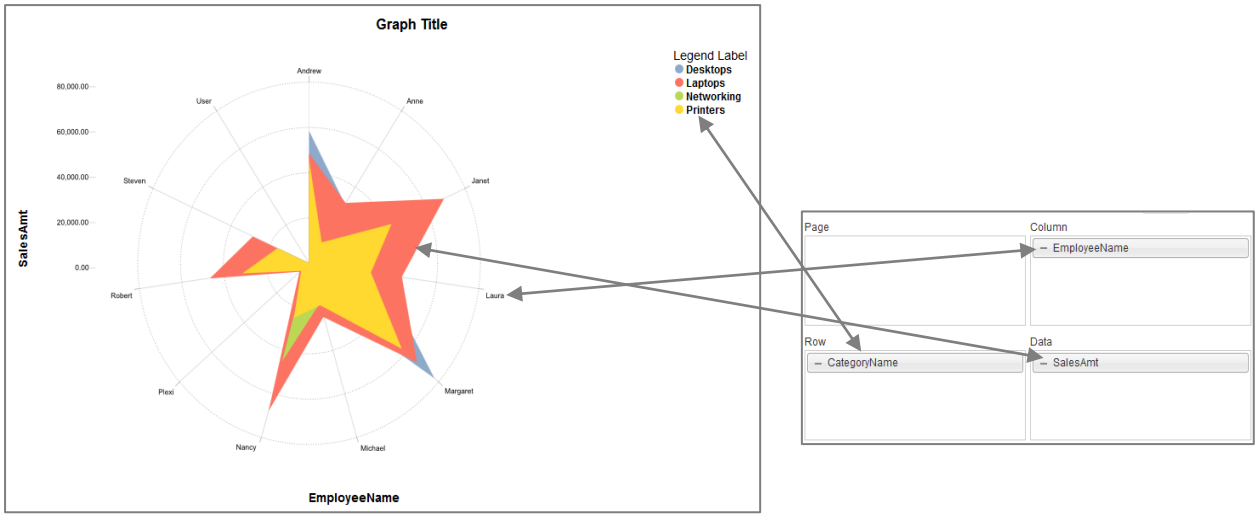
OUTLINER IN RELATIONSHIP TO AREA GRAPHS



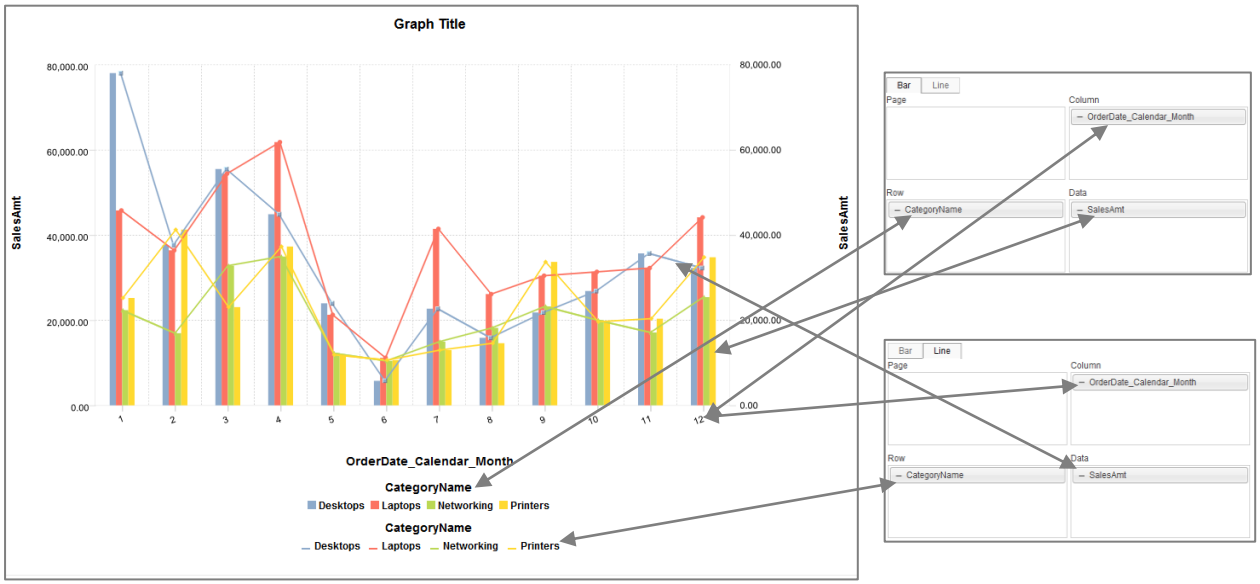
OUTLINER IN RELATIONSHIP TO PIE GRAPHS



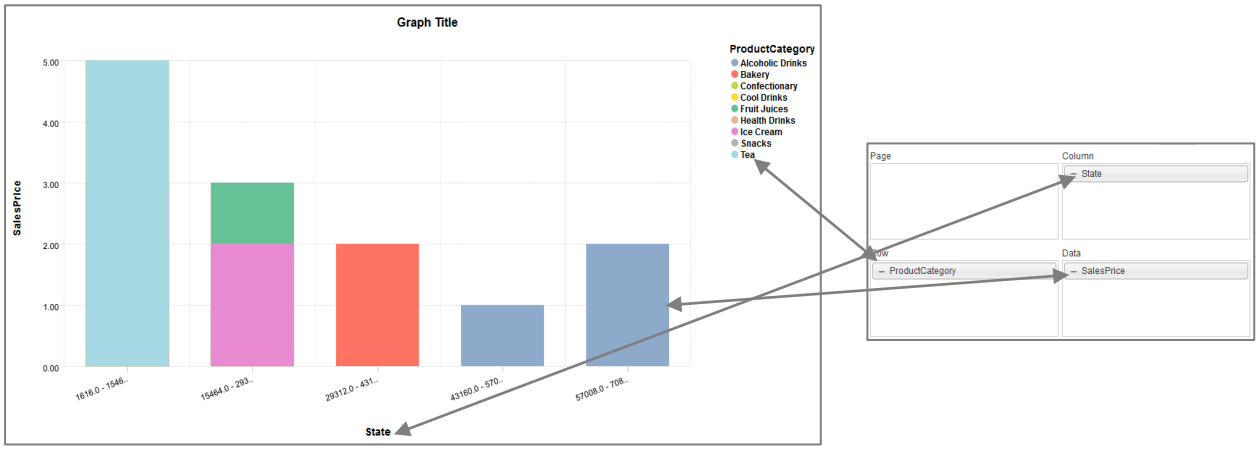
OUTLINER IN RELATIONSHIP TO DOUGHNUT GRAPHS



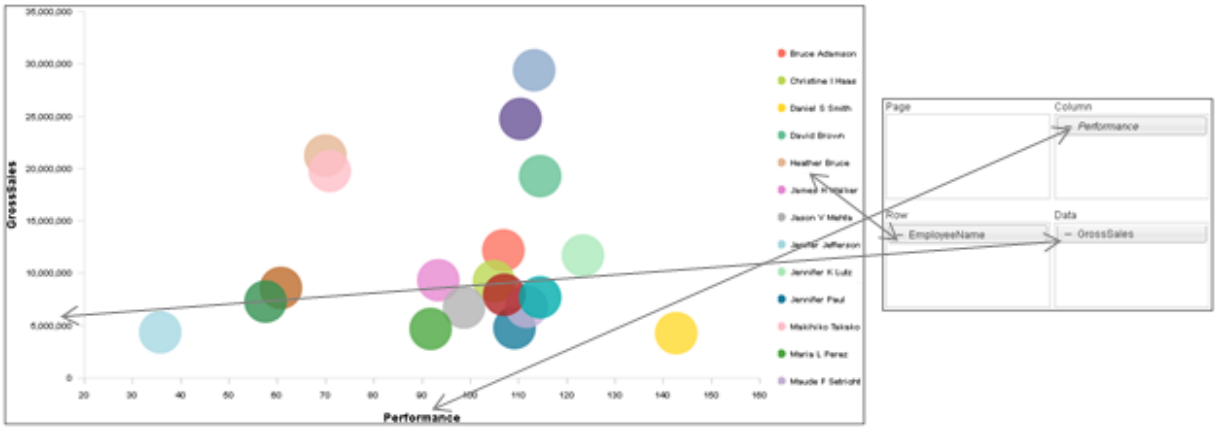
OUTLINER IN RELATIONSHIP TO RADAR GRAPHS



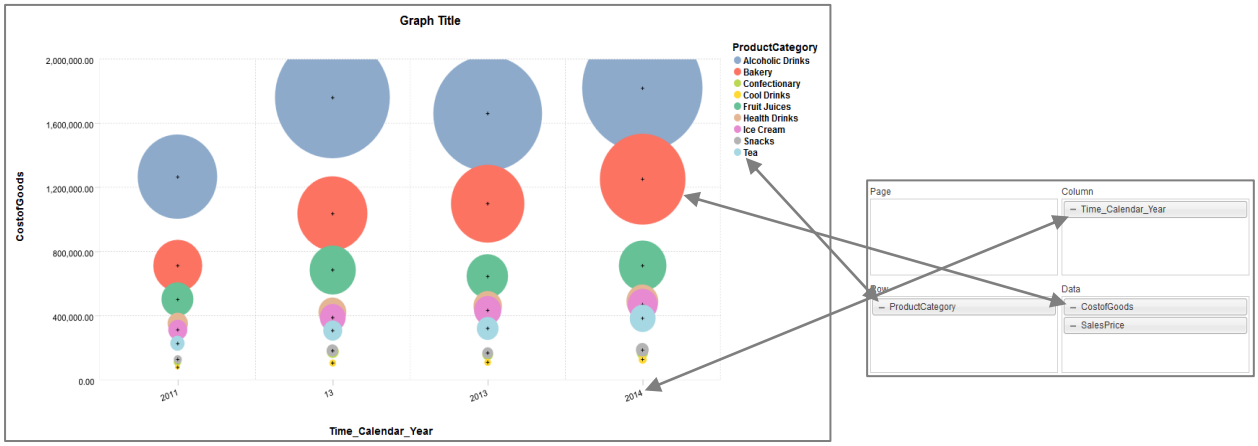
OUTLINER IN RELATIONSHIP TO COMBINED GRAPHS



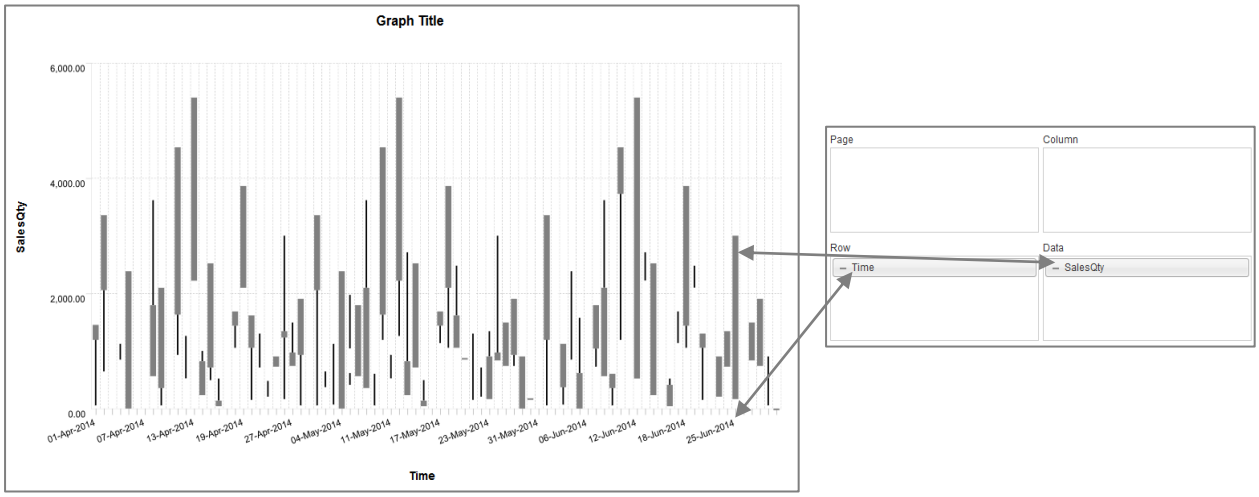
OUTLINER IN RELATIONSHIP TO HISTOGRAMS



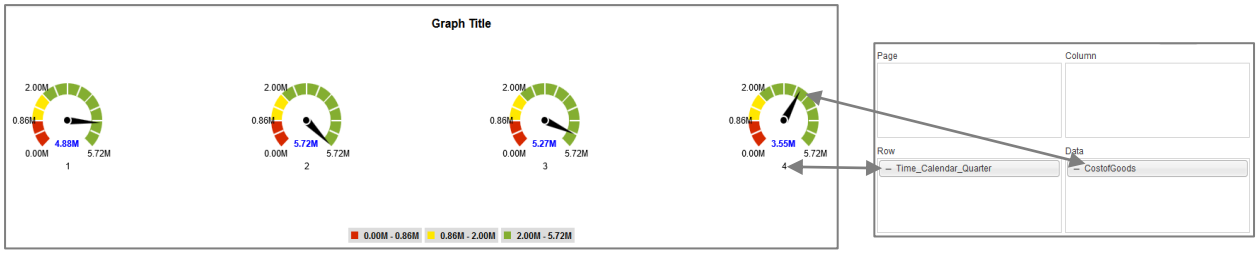
OUTLINER IN RELATIONSHIP TO XY-SCATTER GRAPHS



OUTLINER IN RELATIONSHIP TO BUBBLE GRAPHS



OUTLINER IN RELATIONSHIP TO CANDLESTICK GRAPHS



OUTLINER IN RELATIONSHIP TO DIAL GAUGES

5.6 Operations on Graphs

5.6.1 Slice and Dice

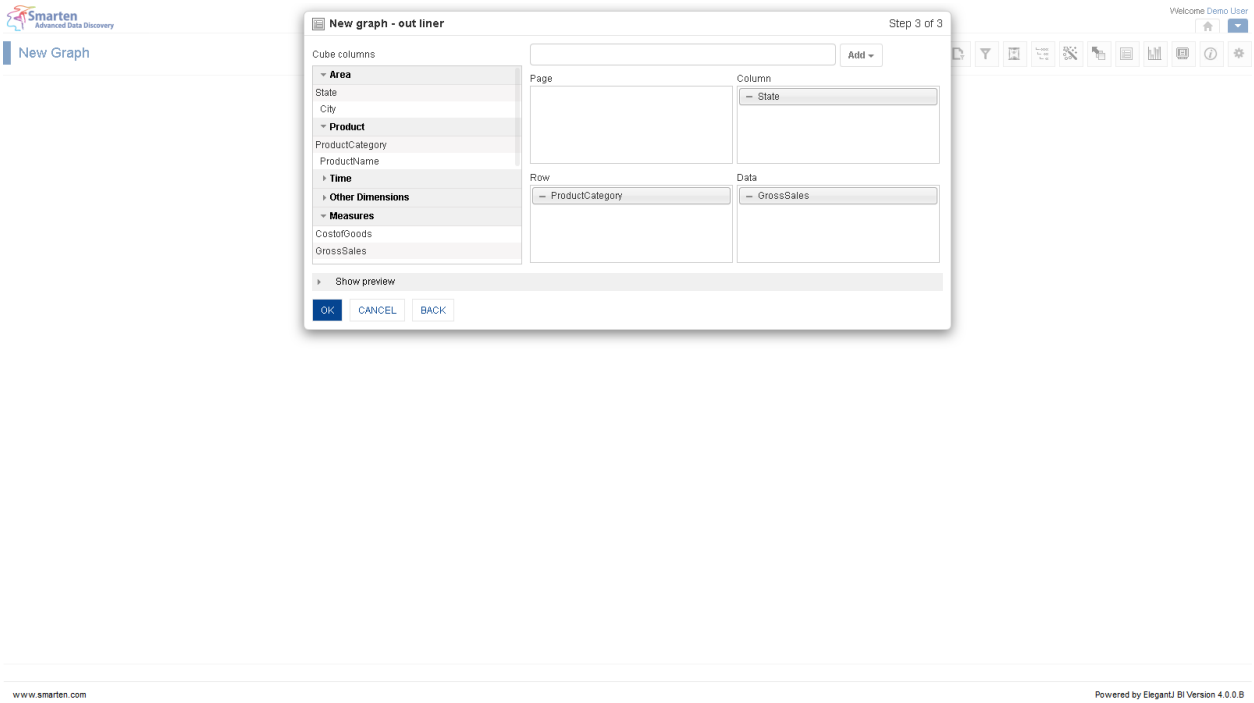
Slice and Dice can be applied on any graph by swapping row and column dimension columns in outliner.

You can see the effect of the slice and dice operation in the graph, giving you a multidimensional perspective on data.

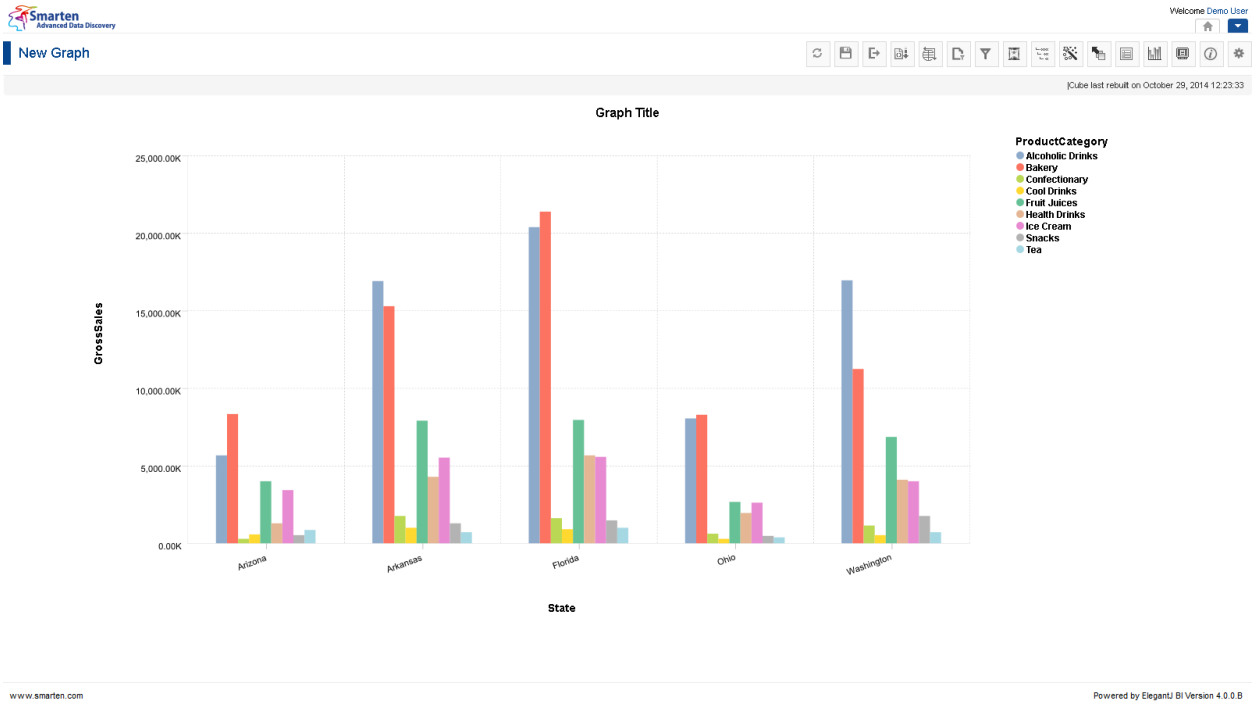
5.6.1.1 Performing the slice and dice operation

Procedure

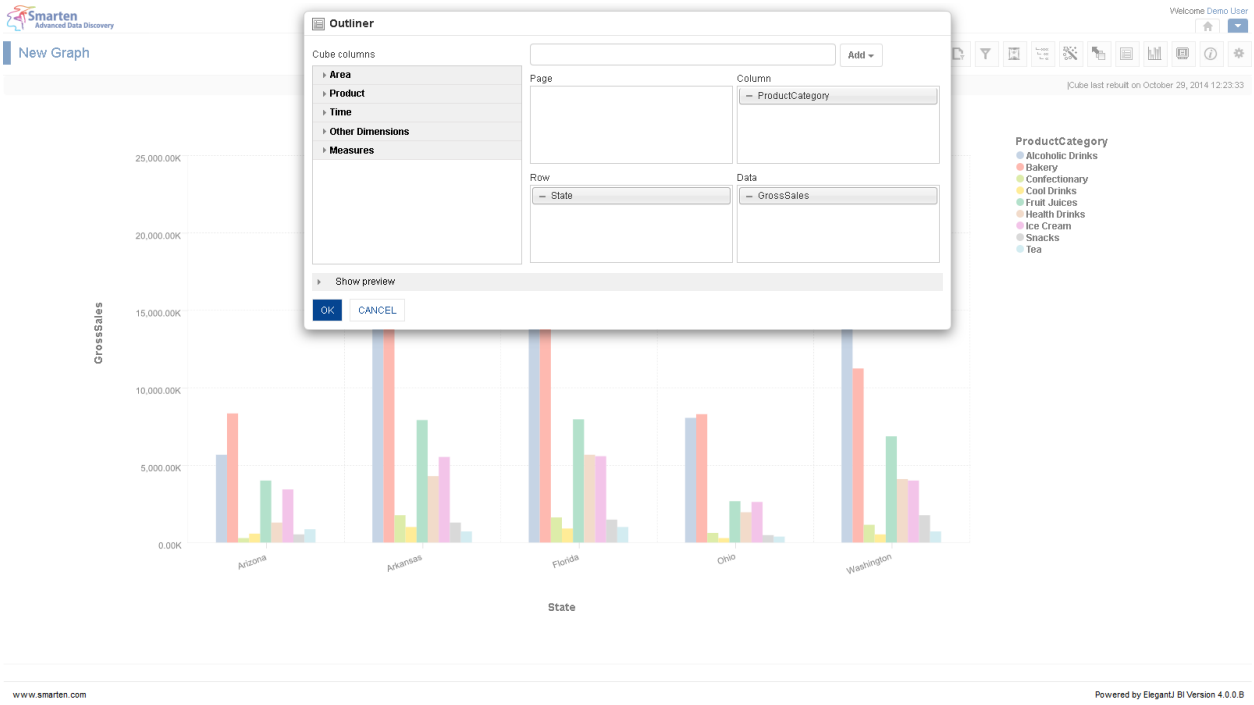
1. Create new graph or open outliner of an existing graph.
2. Within outliner, move dimensions in row to column and dimensions in column to row. You can use drag and drop for swapping dimensions.
3. Click **OK.**



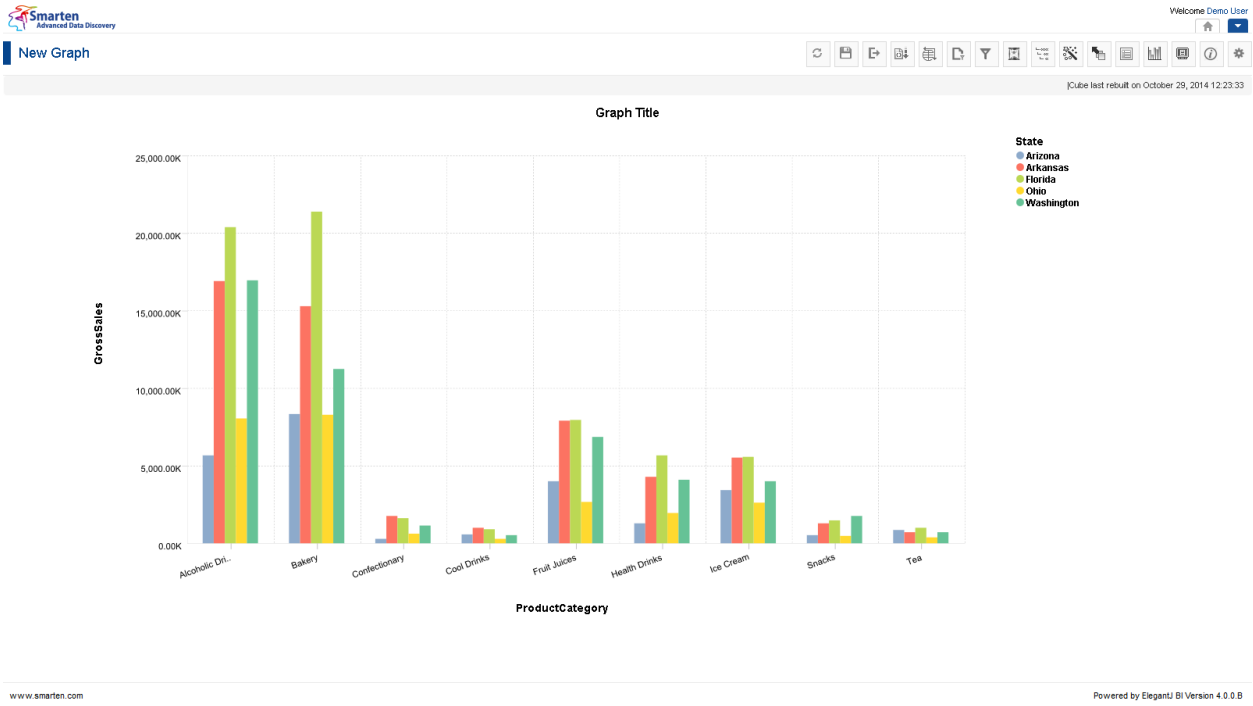
GRAPH: SLICE & DICE



GRAPH: SLICE AND DICE WITH PRODUCT CATEGORY ON ROW AND STATE ON COLUMN



GRAPH: SLICE & DICE



GRAPH: SLICE AND DICE WITH STATE ON ROW AND PRODUCT CATEGORY ON COLUMN

Reference: **Concept Manual > Analytic Functions > Slice & Dice**

5.6.2 Drill Down and Drill Up

Using drill down and drill up, you can perform hierarchical drilling on column and/or row dimensions in graph.

In the example below, after looking at the **Gross Sales** for **Washington**, you can **drill down** to region wise Sales to see the individual sales for each city in **Washington** State.

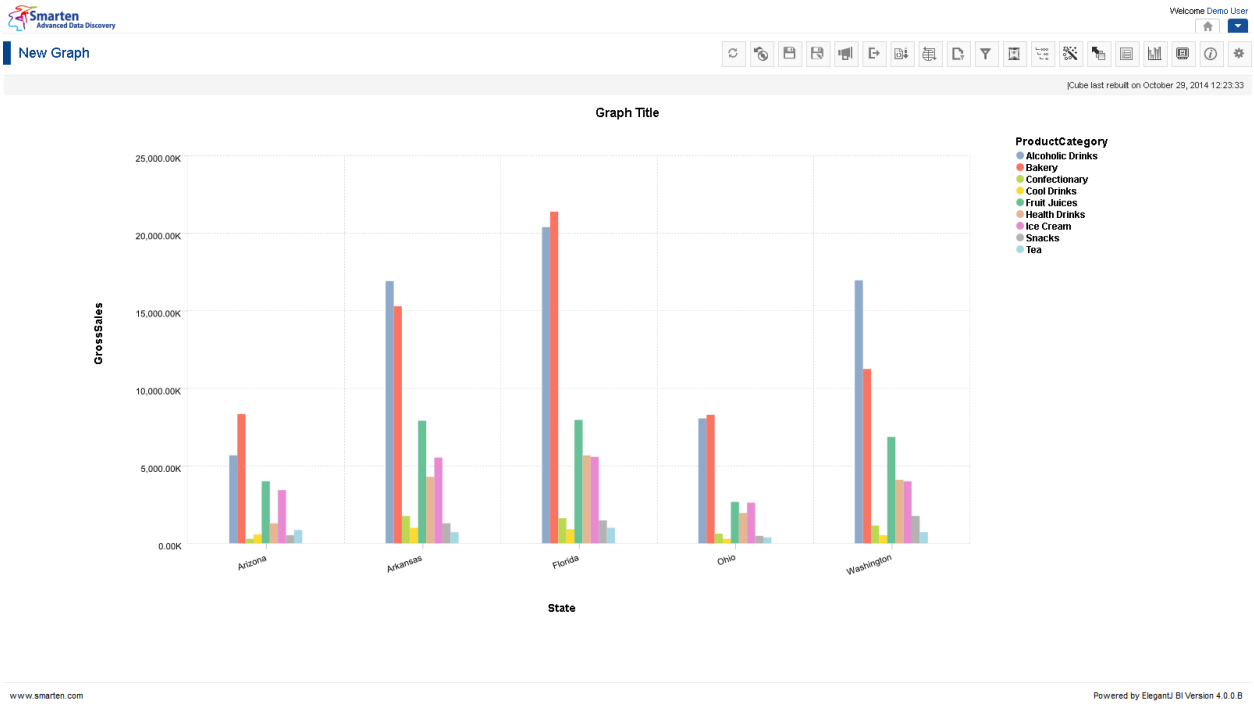
5.6.2.1 Performing the drill down and drill up operation

About this task

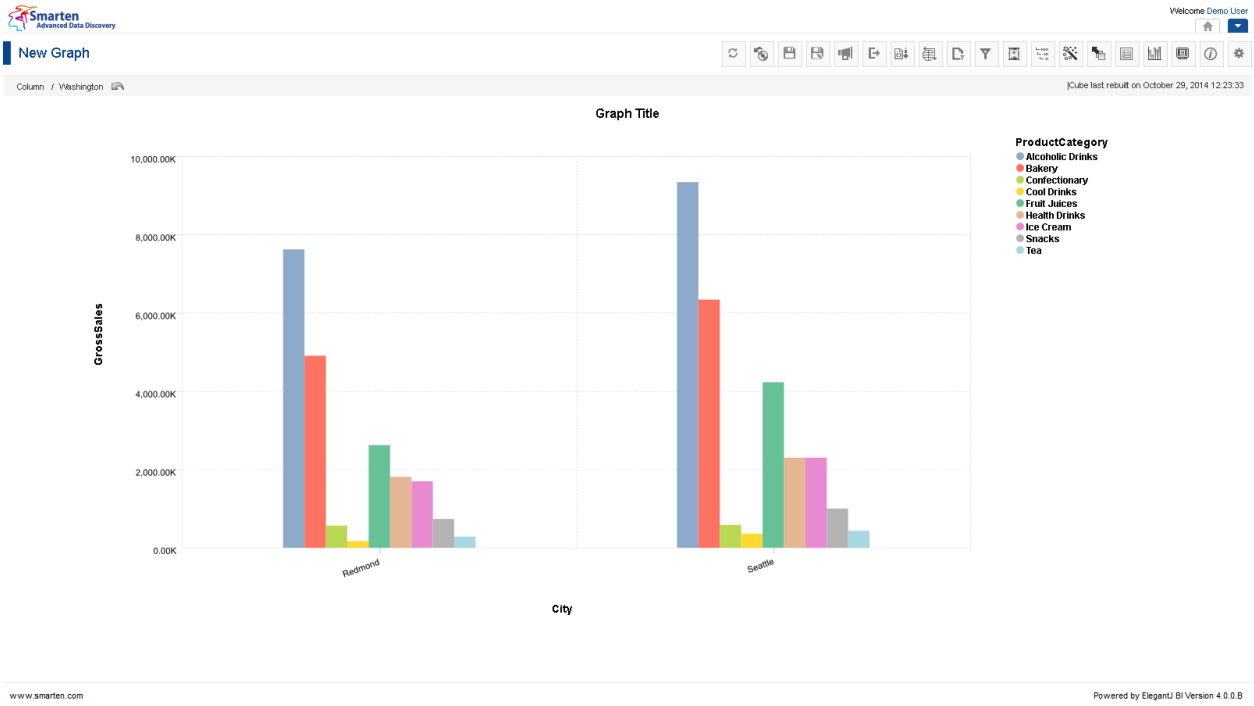
You can use the drill down option to navigate from less detailed aggregated information to view more granular data.

Procedure

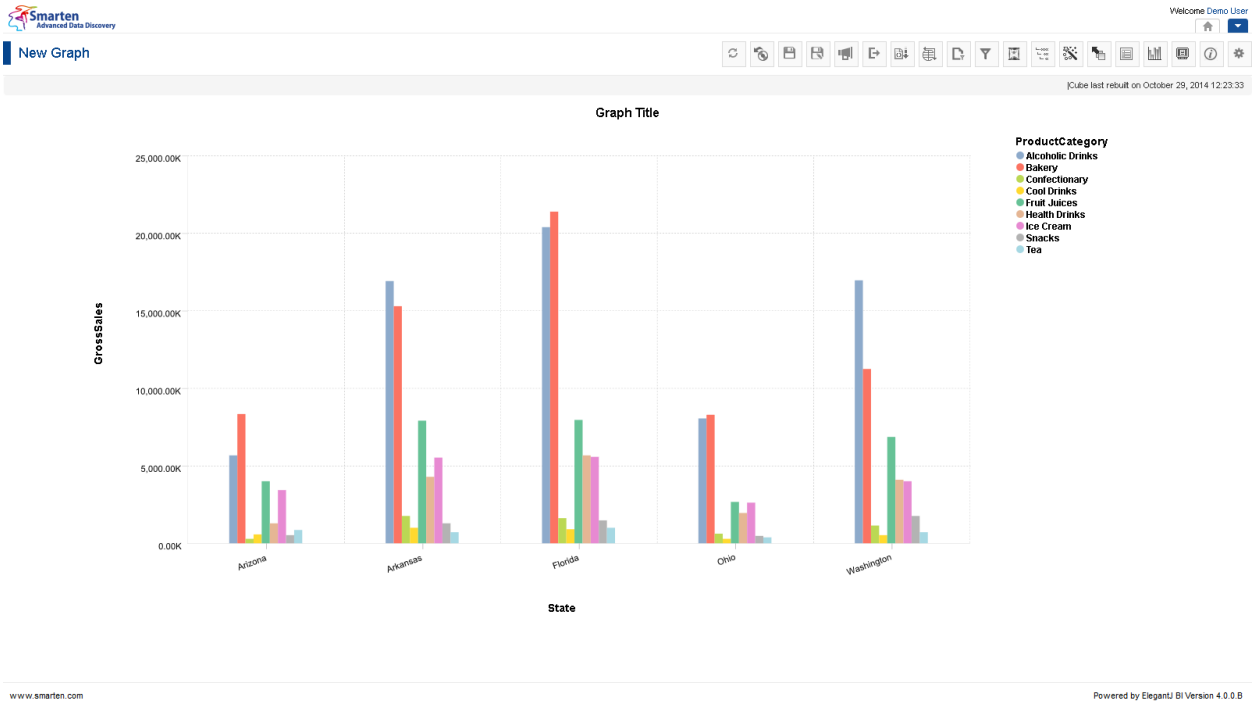
1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the Graph, click the dimension on which you want to perform the drill down operation.
   The system displays the drill down results.



BEFORE DRILL DOWN



AFTER DRILL DOWN (WITH DRILL DOWN PATH AND DRILL UP ICON)



AFTER DRILL UP

Similarly, to analyse information from the most detailed (down) to the most summarised (up) level, you can choose to drill up on the graph. If you drill up, it takes you back from where you started and displays **Gross Sales** for **Washington** State. That is drill up from cities to state.

To drill up back to the previous level, click the Back arrow key next to the breadcrumb on top left of the graph.

Reference: **Concept Manual > Analytic Functions > Drill down and Drill up**

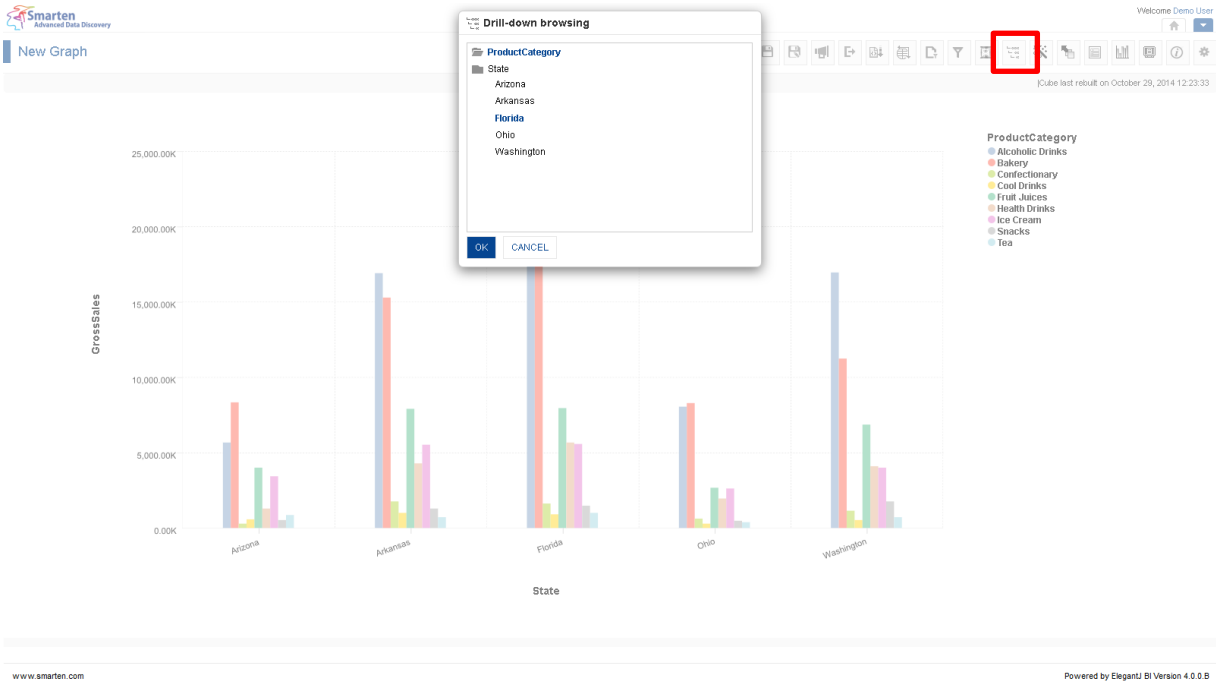
5.6.3 Drill-Down Browsing

This option is used to filter the graph using hierarchical view of dimension values.

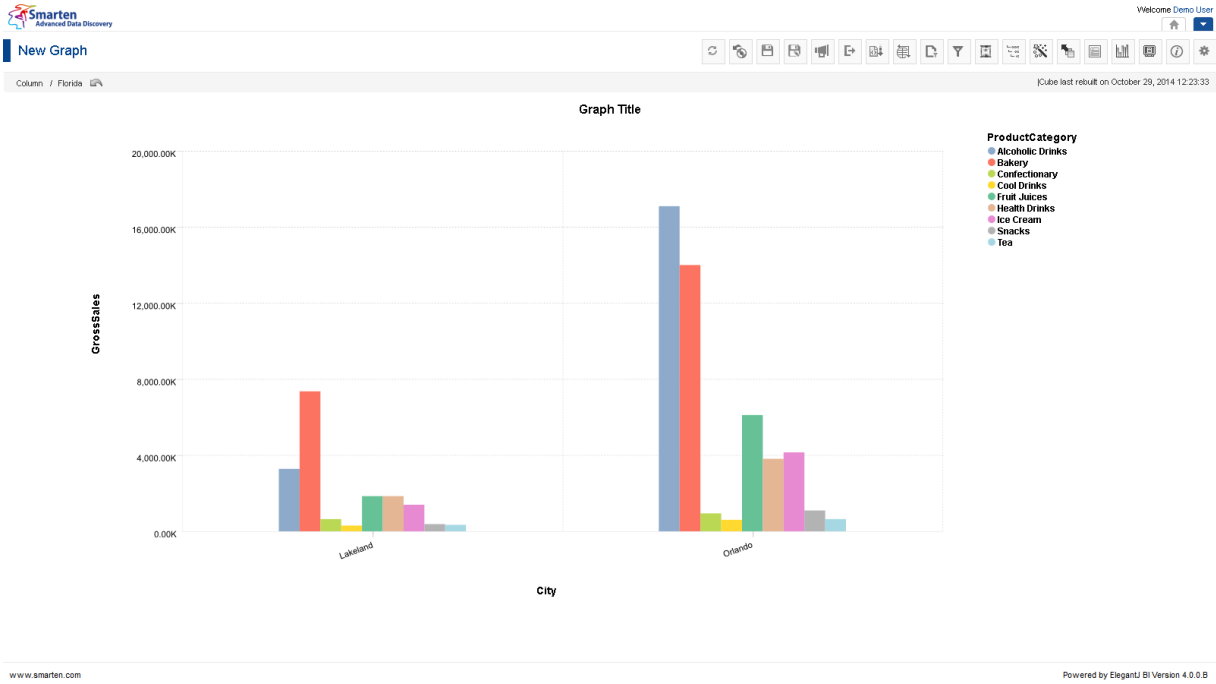
5.6.3.1 Performing the Drill-down browsing

Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the Graph Toolbar, click **Drill-down browsing.**
   The system displays the **Drill-down browsing dialog box.**



BEFORE DRILL-DOWN BROWSING



AFTER DRILL-DOWN BROWSING

3. Select the value displayed against specific node.
4. Click **OK** to save the drill down browsing settings.
5. Click **Cancel** to go back to graph without saving any change.

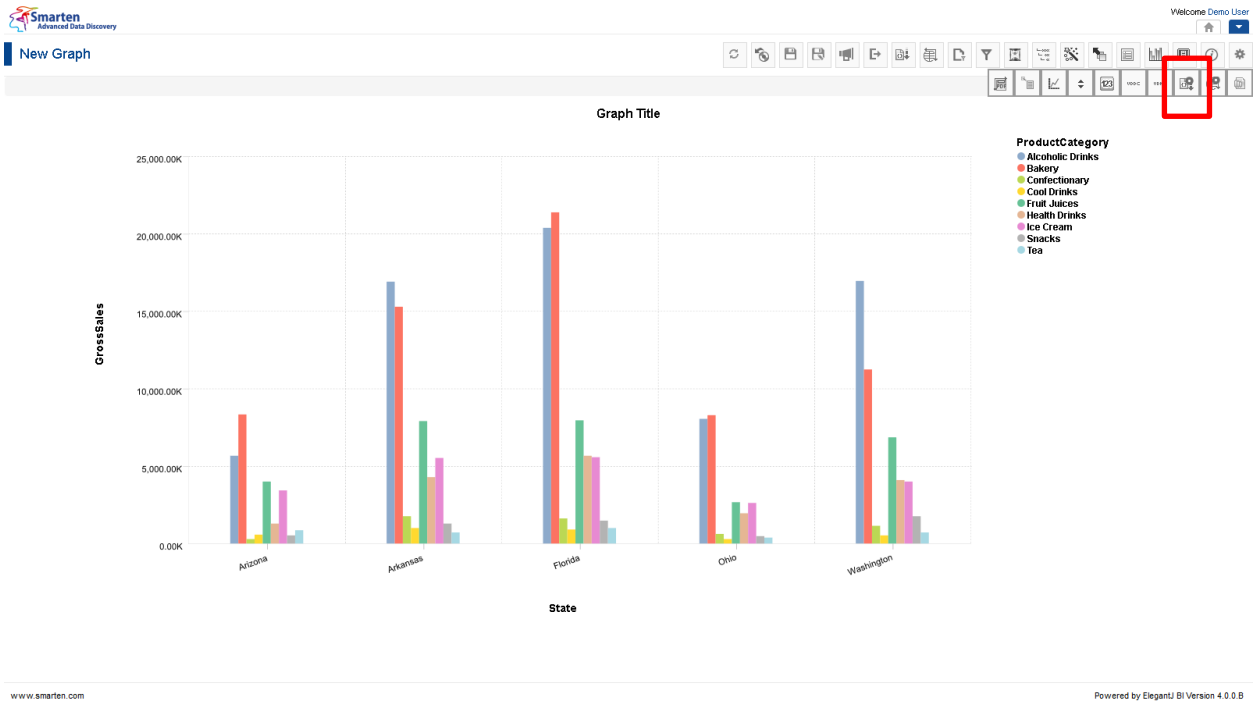
5.6.4 Retrieval Parameters

By default, the Smarten Graph objects are encumbered with complete data from the cube. To see the graph objects with filtered views, retrieval parameters need to be defined. These are run-time parameters for a graph object.

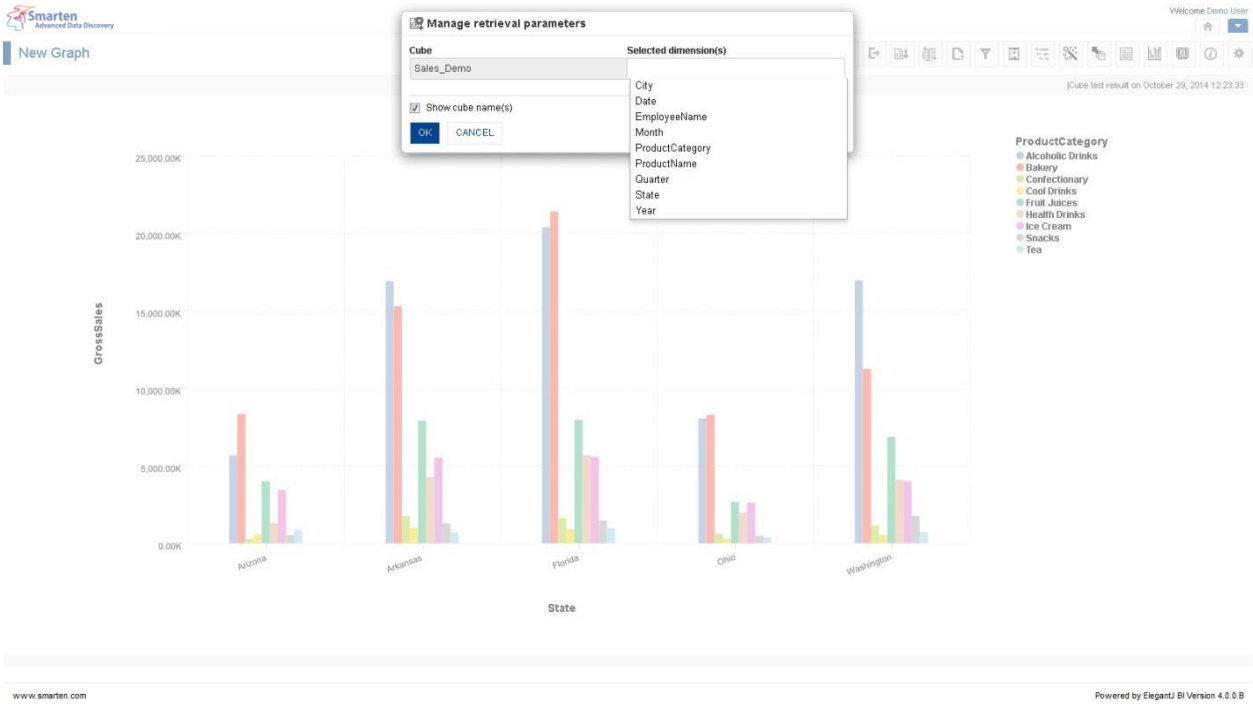
5.6.4.1 Creating & Managing Retrieval parameters

Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the upper right-hand corner, click **Setting**.
3. The system displays the Setting Toolbar.
4. Click **Manage retrieval parameters**.
   The system displays the **Manage retrieval parameters** dialog box.

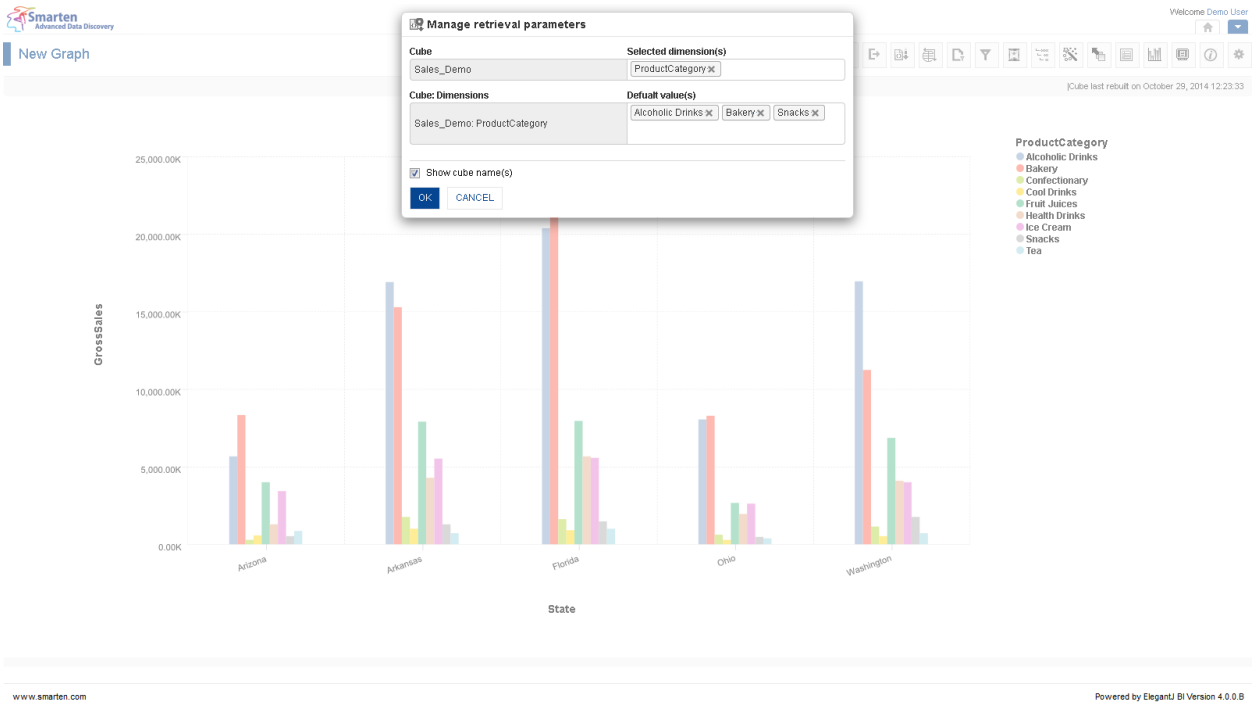


CREATING RETREIVAL PARAMETERS



MANAGE RETRIEVAL PARAMETERS

5. In the **Selected dimension(s)** field, select the dimensions from the drop-down list.
6. In the **Default value(s)** field, select the value from the drop-down list.
7. Click **OK** to save settings.

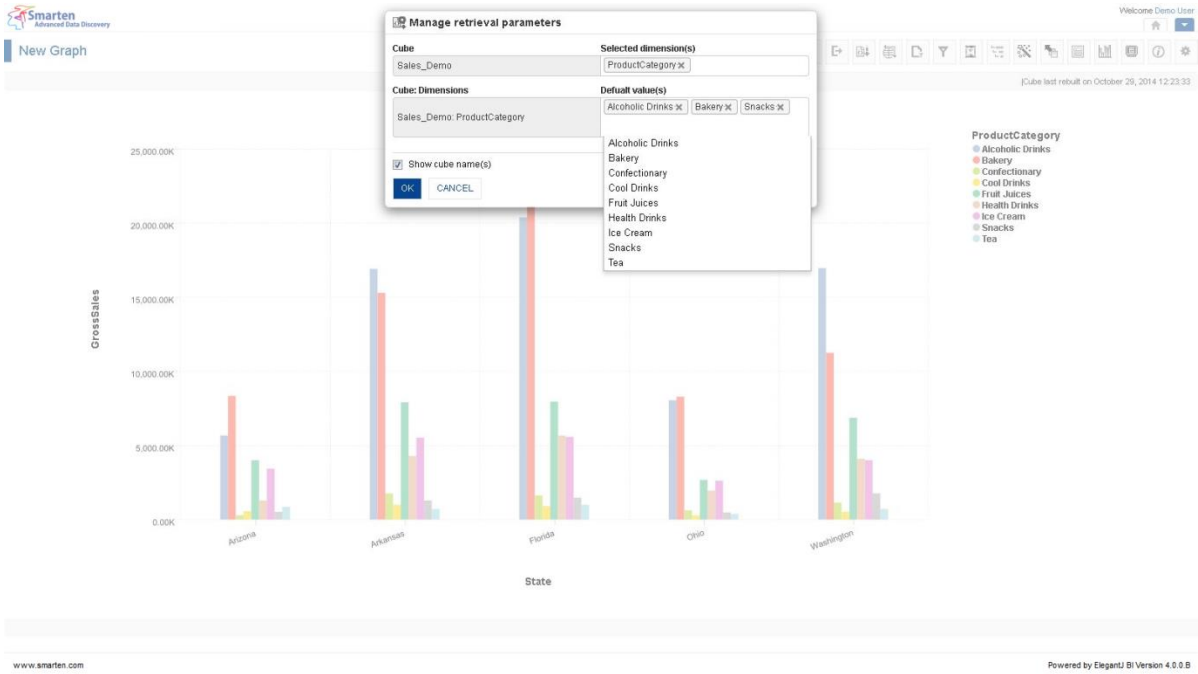


SETTING DEFAULT VALUE FOR RETRIEVAL PARAMETERS

5.6.4.2 Applying Retrieval parameters

Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the Graph Toolbar, click **Retrieval parameters**.
   The system displays a list of retrieval parameters created through **Manage retrieval parameters**.
3. Select the value of retrieval parameters as needed.
4. Click **OK**.

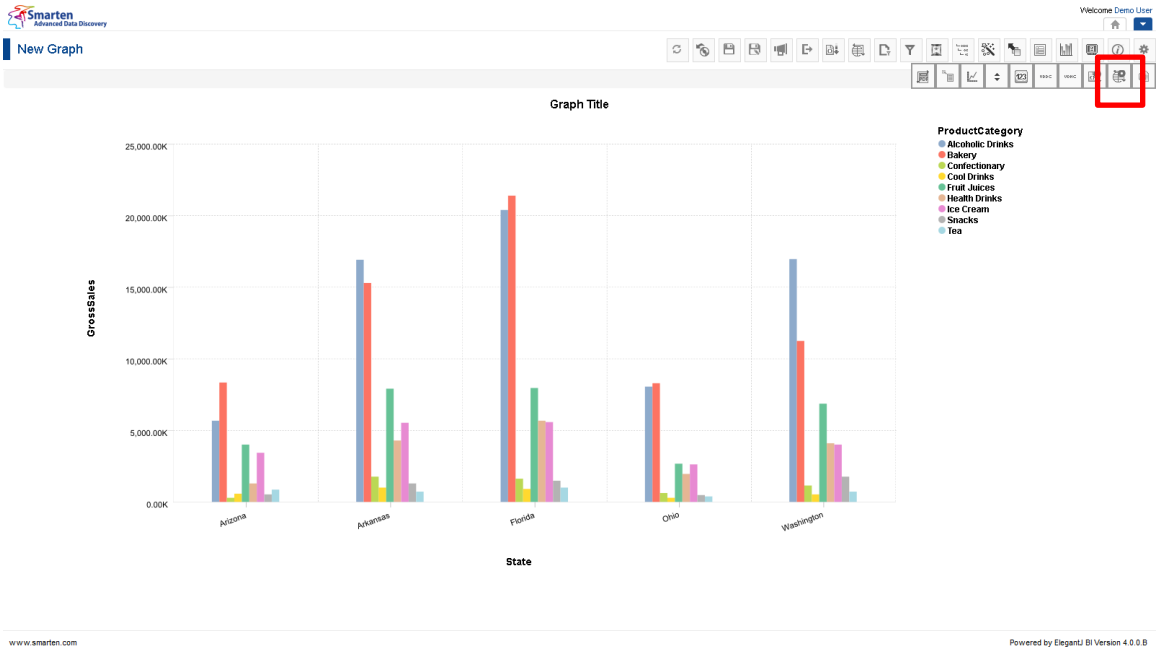


APPLYING RETRIEVAL PARAMETERS

Reference: **Concept Manual > Filters and Expressions > Retrieval Parameters**

5.6.5 Global Variables

Variables that are accessed globally within Smarten are termed **Global Variables**. Any change in a global variable will reflect in all analyses where its value is used via different expressions in **Filters**, **Custom Dimension Values** (**UDHC**), and **Custom Measures** (**UDDC**).

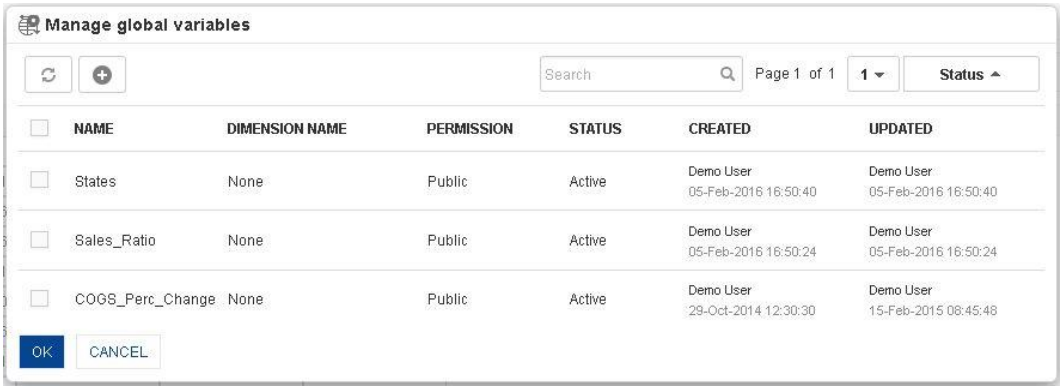


CREATE GLOBAL VARIABLE

5.6.5.1 Creating Global variables

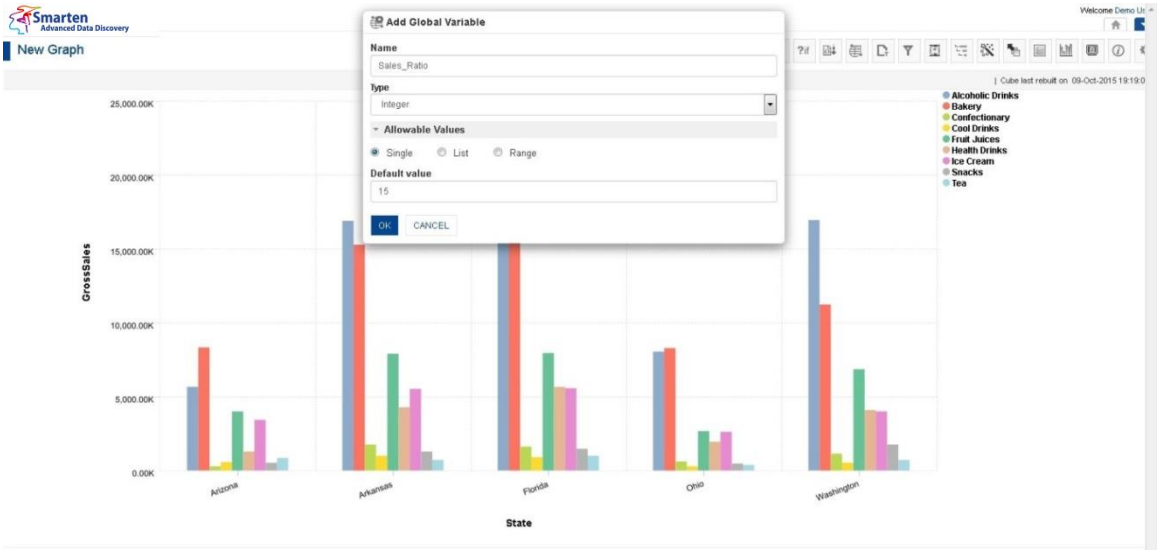
Procedure

1. In the **Repository**, open graph.
2. The system displays the selected graph.
3. In the upper right-hand corner, click **Setting**.
   The system displays the Setting Toolbar.
4. Click **Manage global variables**.
   The system displays the **Manage global variables** dialog box.



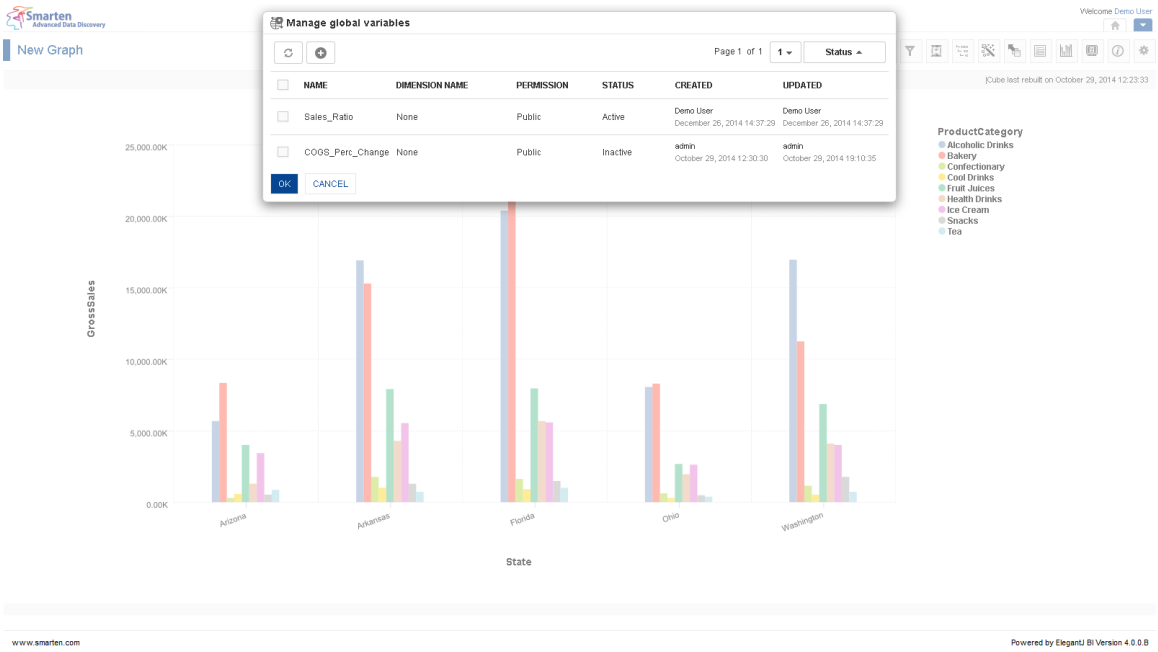
ADDING GLOBAL VARIABLES

5. In the **Manage global variables** dialog box, click the **Add** icon.
   The system displays the **Add Global Variable** dialog box.



CREATE A NEW VARIABLE

6. In the **Name** field, enter the name of global variable
7. In the **Type** field, select a type from the drop-down list.
8. In the **Allowable Values** field, select **Single** radio button option.
9. In the **Default value** field, enter a value.
10. Click **OK** to save the variable.



LIST OF GLOBAL VARIABLES

Reference: **User Manual > Working with Crosstab > Global Variables**

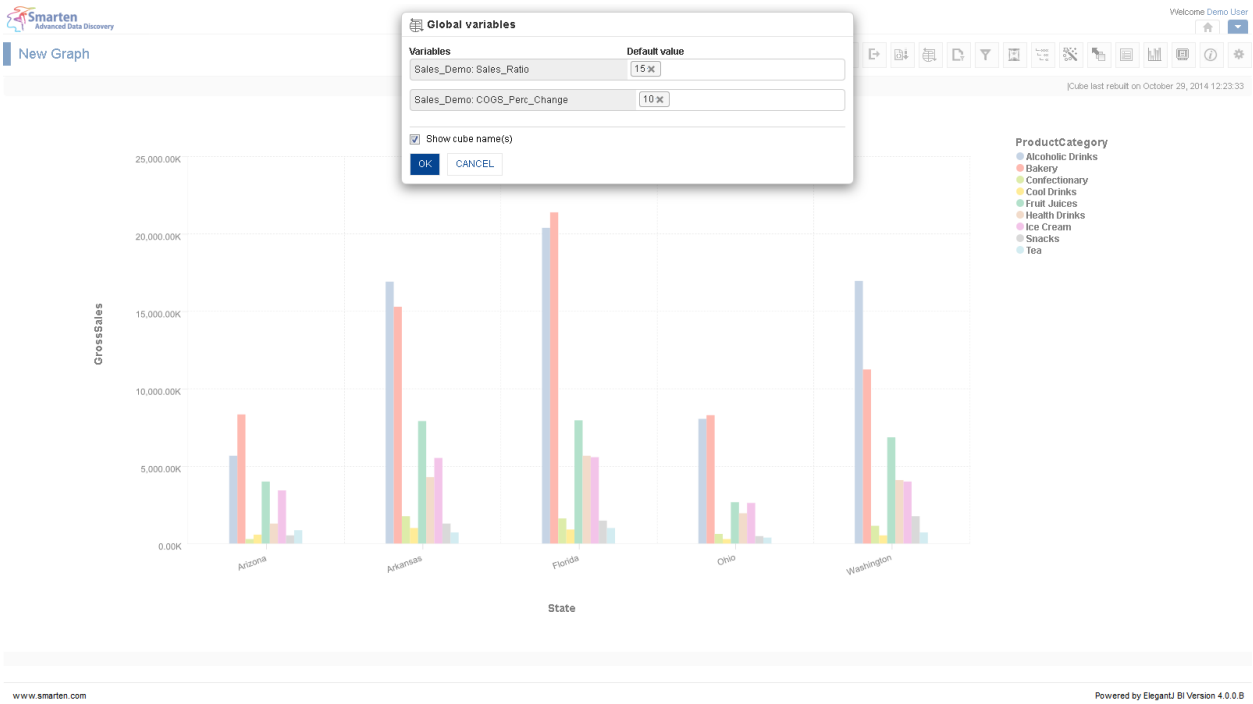
5.6.5.2 Applying Global variables

Procedure

1. In the Repository, open graph.
   The system displays the selected graph.
2. In the Graph Toolbar, click **Global variables**.

The system displays a list of global variables created through **Manage global variables.**

3. Select the value of global variables as needed.
4. Click **OK**.



APPLYING GLOBAL VARIABLES

Reference:	**Concept Manual > Filters and Expressions > Global Variables**

5.6.5.3 Create & Manage Templates

Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage global variables.**
   The system displays the **Manage global variables** dialog box. Select a checkbox in front of a global variable name.
   The system displays a toolbar for managing global variables template.

GLOBAL VARIABLES—CREATE AND MANAGE GLOBAL VARIABLES TEMPLATE

GLOBAL VARIABLES: CREATE AND MANAGE GLOBAL VARIABLES TEMPLATE TOOLBAR

Icon	Icon name
	Refresh
	Add
	Edit
	Private
	Public
	Active
	Inactive
	Delete

GLOBAL VARIABLES: CREATE AND MANAGE GLOBAL VARIABLES TEMPLATE TOOLBAR OPTIONS

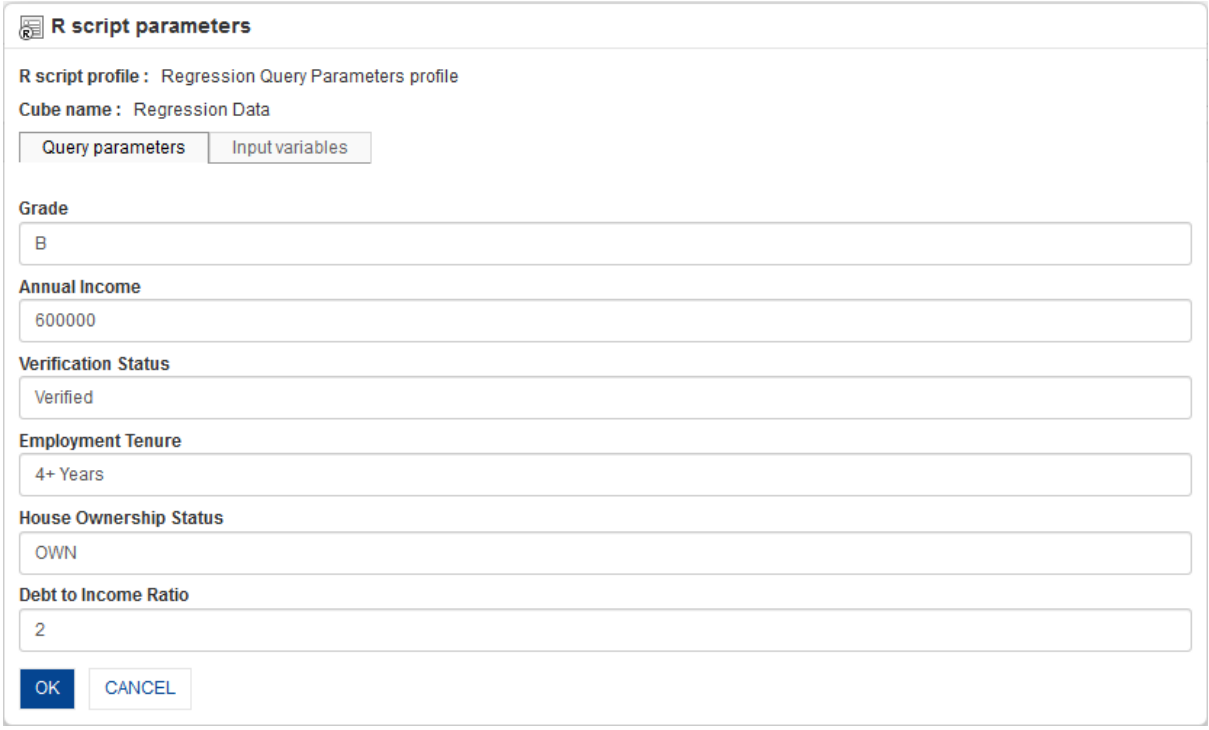
> Note:
> Templates can be edited or deleted only by creator of the template or the administrator.

5.6.6 R script parameters

By default, Real-time Graph objects are loaded with data stored in the Real-time R cube with default Query parameters applied. You can regenerate the real-time object with different output by entering different values of Query parameters from the object itself. You can change the values of Query parameters in run-time through the “R script parameters” icon in the toolbar of the object. As a result, the R script will be re-executed with new values of Query parameters, and the real-time R cube will be rebuilt to store the new output, which will, in turn, be instantly reflected in the real-time object.

Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the Graph Toolbar, click **R script parameters**.
   The system displays the **R script parameters** dialog box.



R SCRIPT PARAMETERS

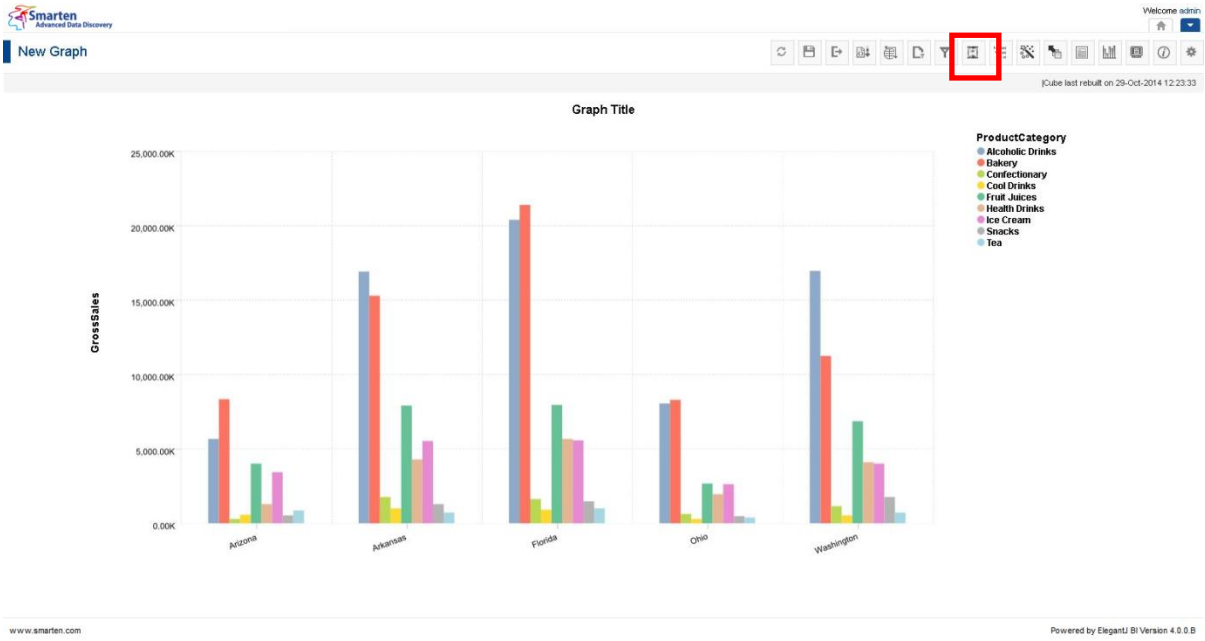
3. Enter new query parameters values.
4. Click **OK**.

Reference: **Working with R Integration**

> Note:
> R script parameters icon will be displayed only when the graph is a Real-time object created from a Real-time R cube.

5.6.7 Time Series

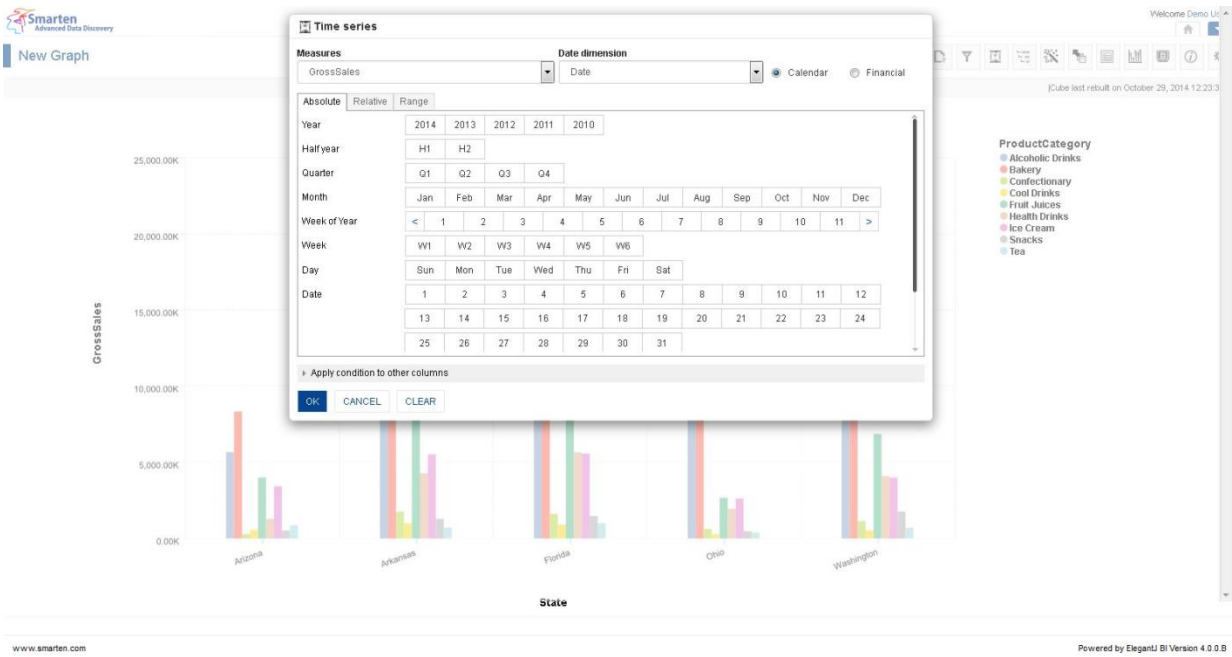
Time series helps you understand the relationship and performance of dimensions and measures over the period of time. Using the time series filtering options in Smarten—absolute, relative, or range time series filtering—you can quickly analyse data across financial and calendar years and drill down up to half years, quarters, months, weeks, days, and dates.



GRAPH: TIME SERIES ICON

Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the Graph Toolbar, click **Time series.**
   The system displays the **Time series** dialog box.

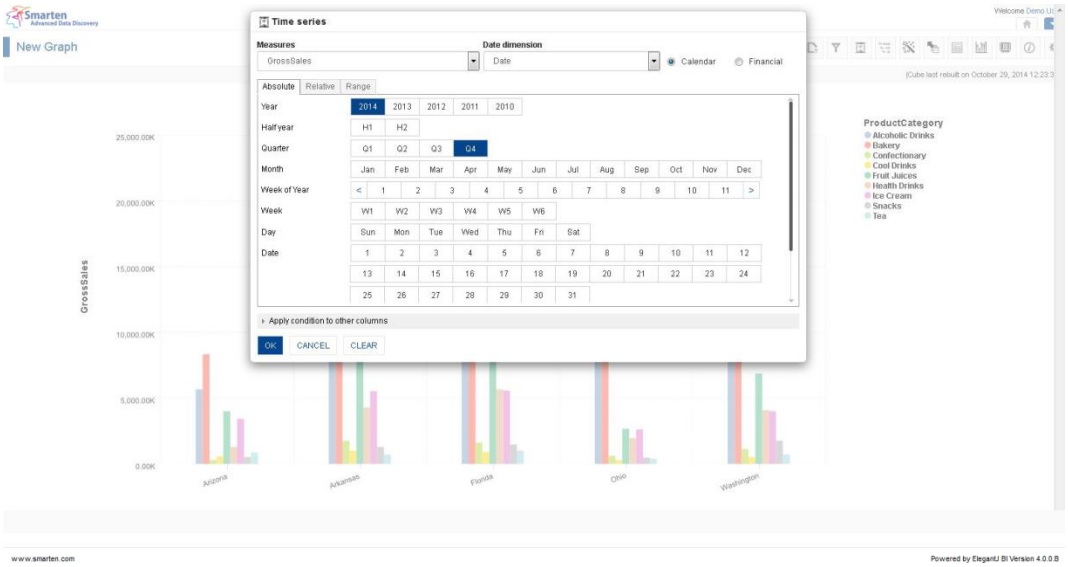


TIME SERIES FILTER

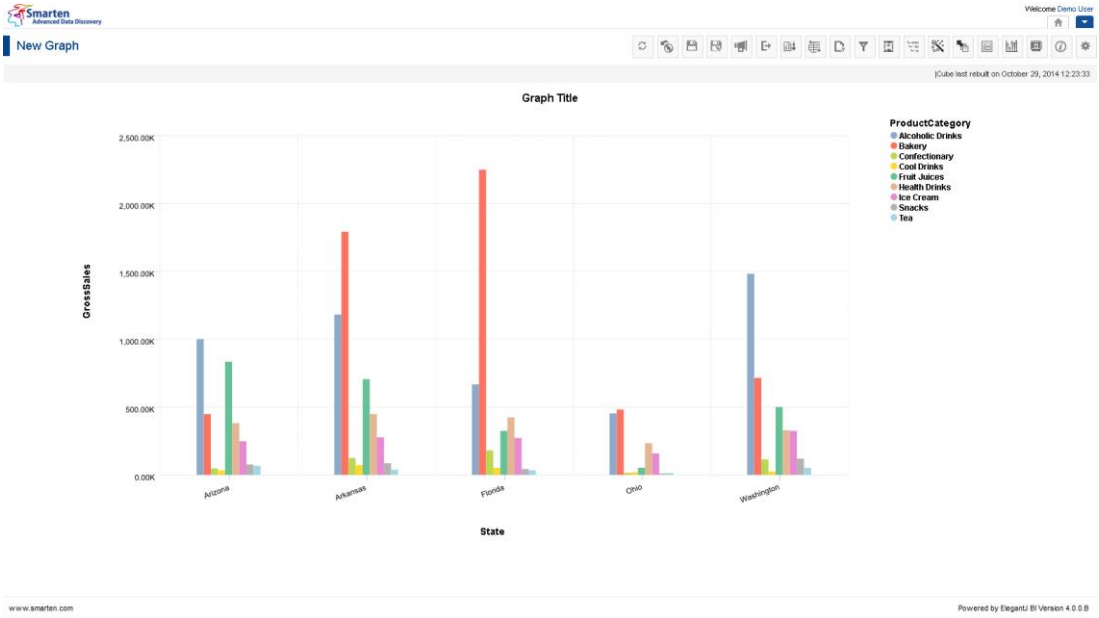
5.6.7.1 Absolute Time Series Filter

The Absolute filter option is used to filter value of a measure on a particular year or half year or quarter or month or week or day or date. It has no dependency or relevance to the current date.

For example, to view graph of Gross Sales for Q2 (second quarter) of year 2014, use the absolute time series filtering option.



GRAPH: TIME SERIES: ABSOLUTE FILTER



GRAPH AFTER APPLYING ABSOLUTE TIME SERIES FILTER

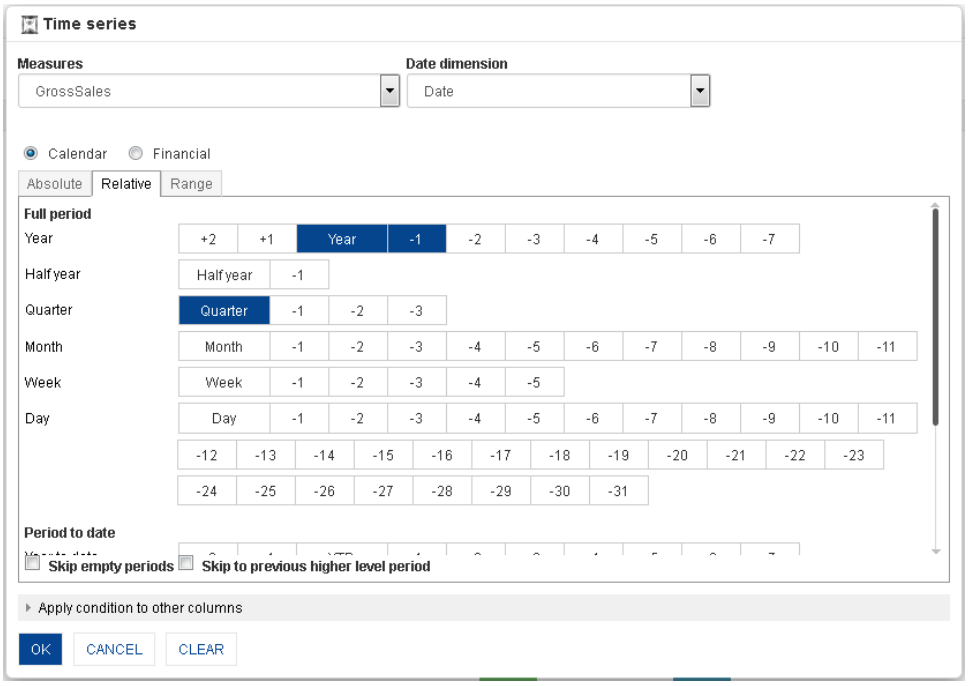
Reference: **Concept Manual > Filters and Expressions > Time Series**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

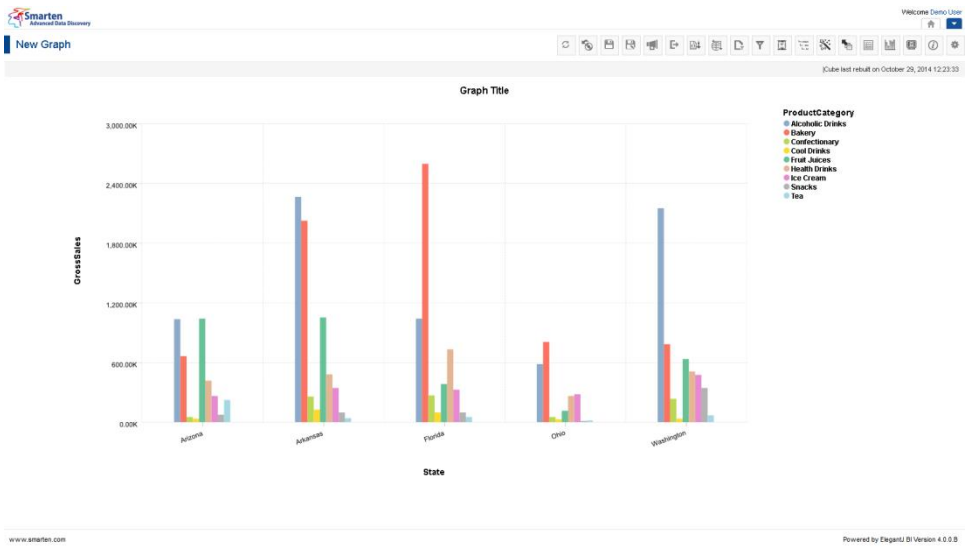
5.6.7.2 Relative Time Series Filter (Full Period)

Filters value of a measure at a particular period relative for the full period. Here the current date value affects definition of time series periods.

For example, to view graph of Gross Sales for the quarter before previous quarter of current year, use relative filtering.



GRAPH: TIME SERIES: RELATIVE FILTERING



GRAPH AFTER APPLYING RELATIVE TIME SERIES FILTER USING FULL PERIOD

Reference: **Concept Manual > Filters and Expressions > Time Series**

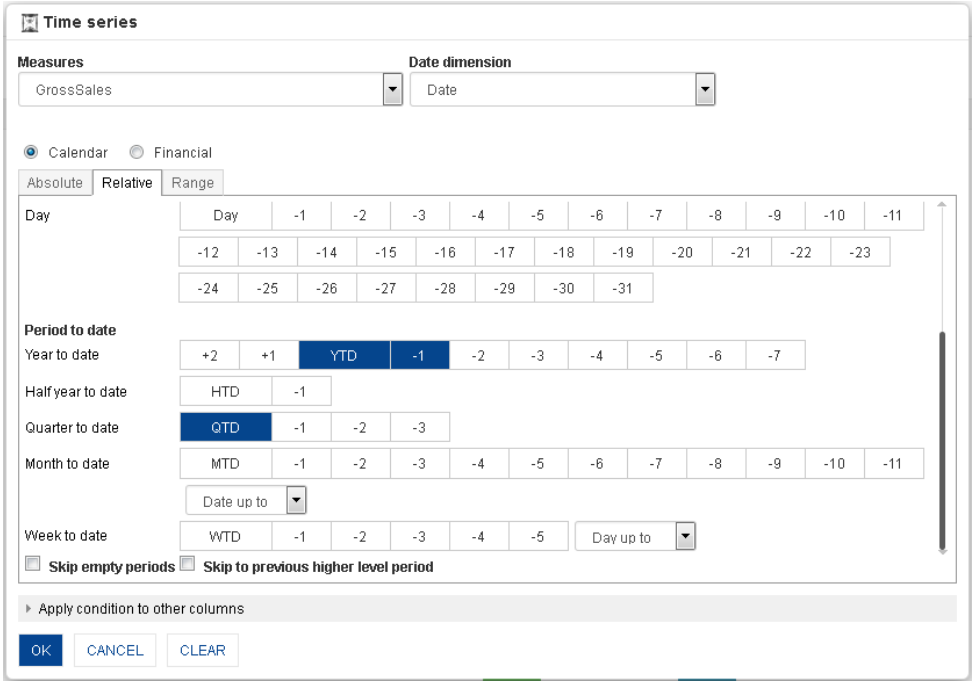
Reference: **User Manual > Working with Crosstab > Time Series**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

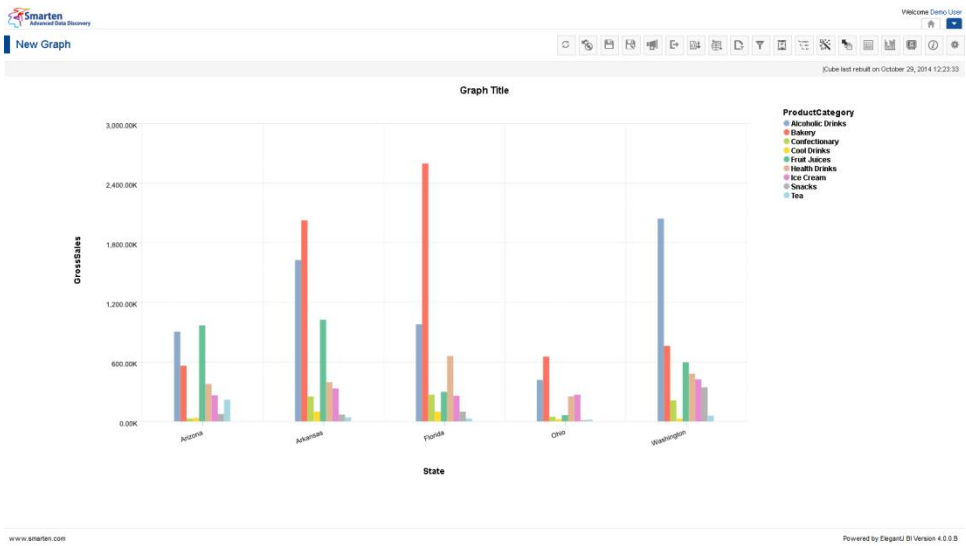
5.6.7.3 Relative Time Series Filter (period to date)

Filters value of a measure at a particular period relative to current date, up to the current date. Here the current value affects definition of time series periods.

For example, to view graph of Gross Sales for current year and previous year up to current date, you can use relative filtering (period to date).



GRAPH: TIME SERIES: RELATIVE FILTERING: PERIOD TO DATE



GRAPH AFTER APPPLYING RELATIVE TIME SERIES FILTER USING PERIOD TO DATE

Reference: **Concept Manual > Filters and Expressions > Time Series**

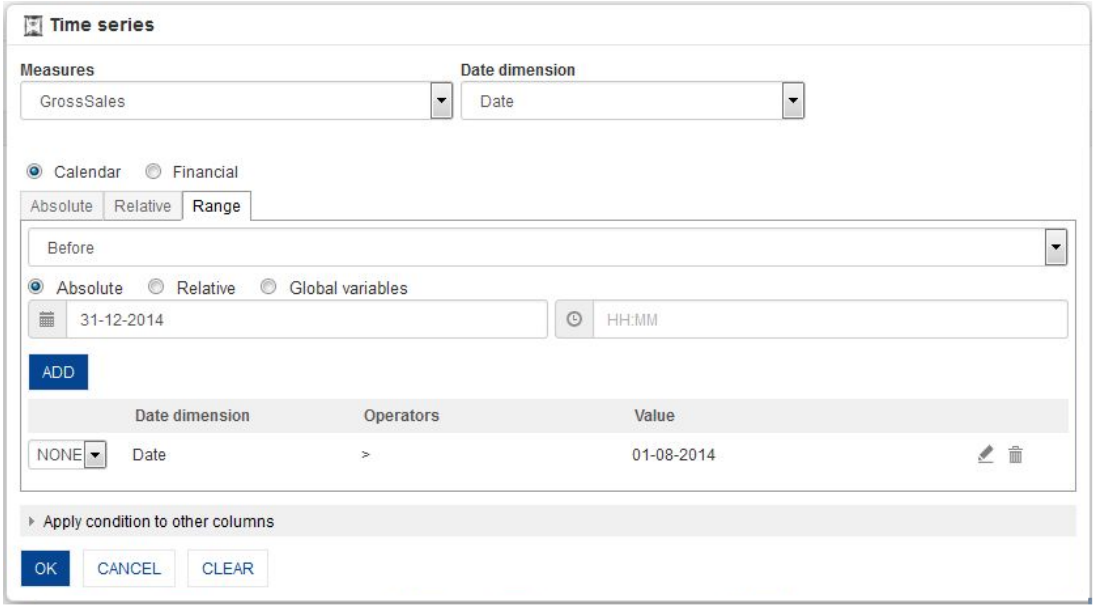
Reference: **User Manual > Working with Crosstab > Time Series**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

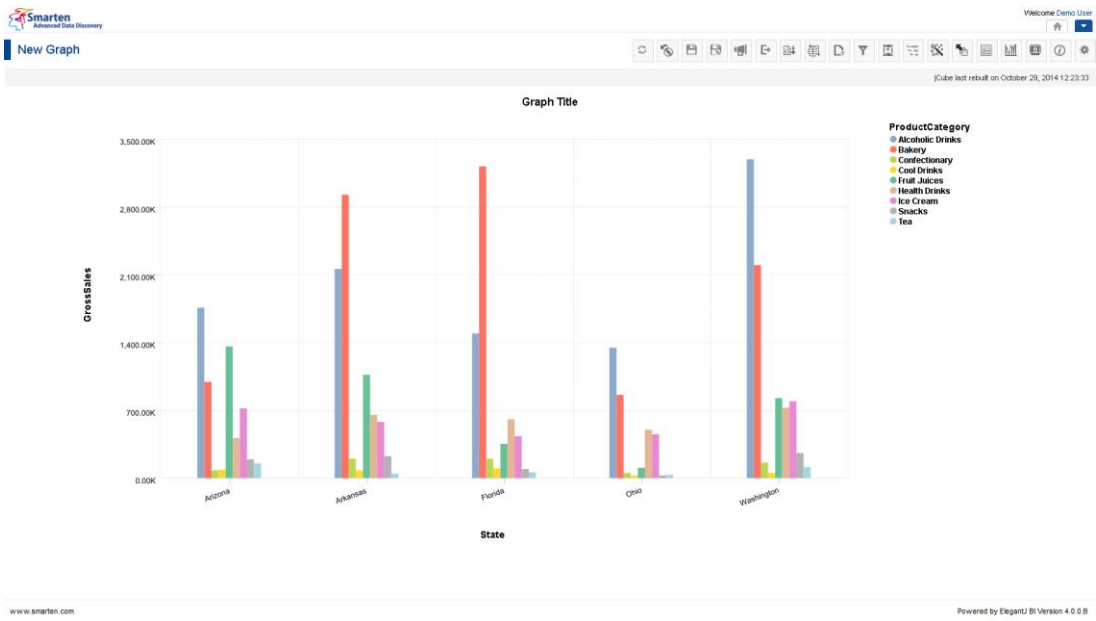
5.6.7.4 Range Time Series Filter

This option is used to filter time based on range and custom periods.

For example, to view graph of Gross Sales for specific period, use range filtering.



GRAPH: TIME SERIES: RANGE FILTERING



GRAPH AFTER APPLYING RANGE TIME SERIES FILTER

Reference: **Concept Manual > Filters and Expressions > Time Series**

Reference: **User Manual > Working with Crosstab > Time Series**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

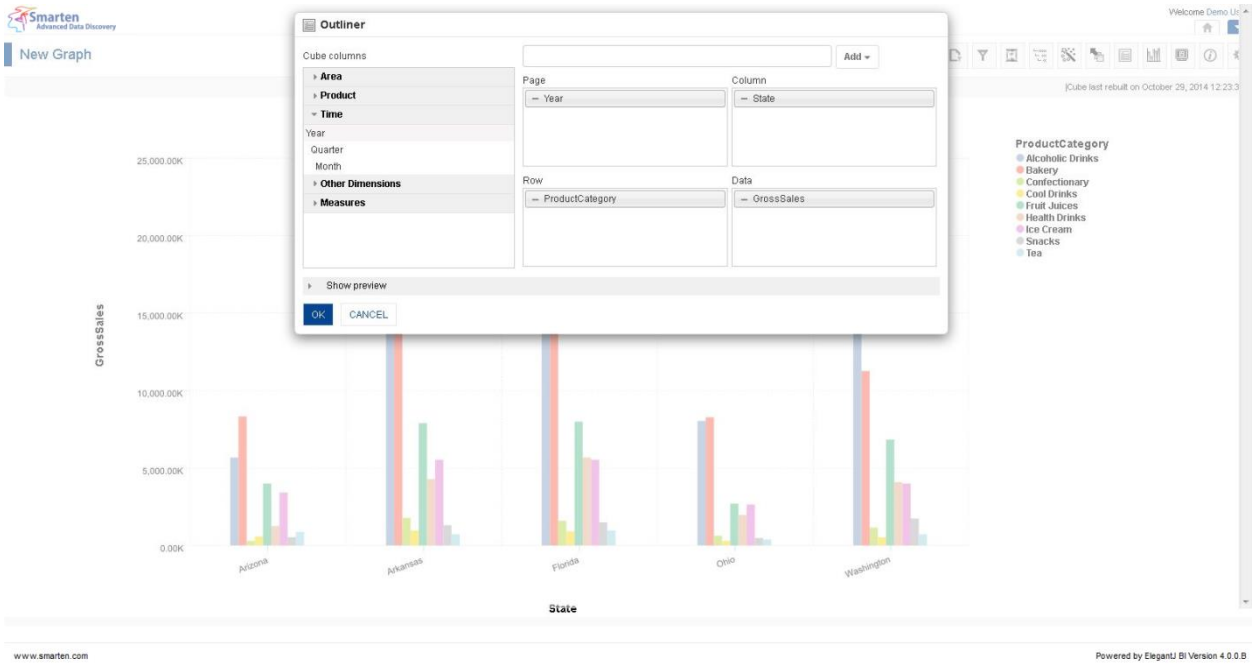
5.6.8 Page Dimension Filter

Page dimension filters can be used as a pivot filter on the graphs providing filtering on any dimension available in cube.

For example, using Year filter on Page, you can view the analysis for different years by selecting the page dimension filter from the drop-down list. You can also have multiple dimensions in page dimension filter.

Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the Graph Toolbar, click **Outliner.**
   The system displays the **Outliner** dialog box.



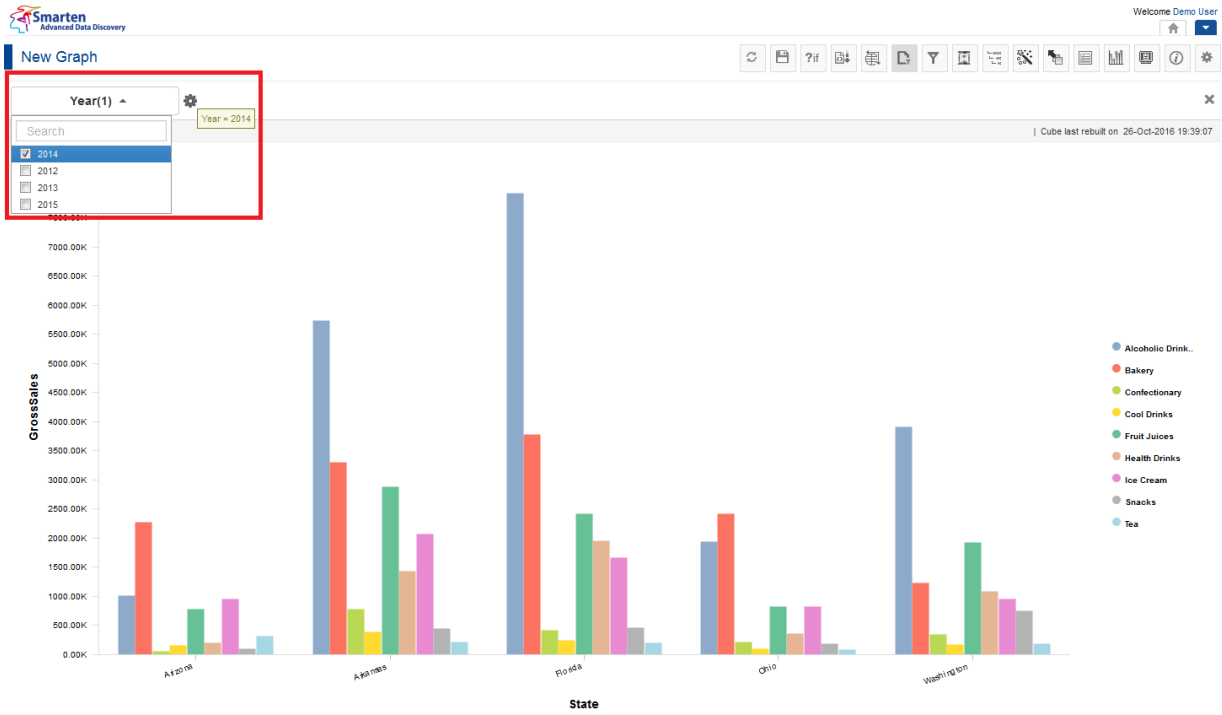
OUTLINER: PAGE DIMENSION FILTER

3. Select the dimension from **Cube Columns.**
4. Drag and drop the selected dimension in **Page**, **Column**, **Row,** and **Data**.
5. Click **OK.**

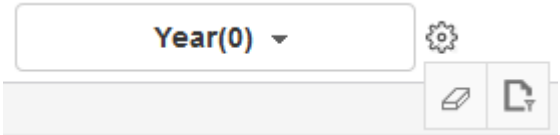
   The system displays the graph with page filter. You can add multiple columns to **Page** section to create multiple page filters on a graph.

   To apply page filter, you can simply enter values in the text field of page filter and apply filters. For example, if the filter is created on year, you can set filters on multiple year values. This is simple page filter.

   You can remove a column from **Page** section if you want to remove page dimension filter from page filter panel.



GRAPH: AFTER PAGE DIMENSION FILTER



GRAPH: PAGE DIMENSION FILTER IN THE PAGE FILTER PANEL BEFORE APPLYING FILTER

GRAPH: PAGE DIMENSION FILTER IN THE PAGE FILTER PANEL AFTER APPLYING FILTER

6. Beside the page filter text box, click the **Setting** icon.
   The system displays two icons: **Clear** and **Advanced**.
7. Click **Clear** to remove the page filter values.
8. Click the **Advanced** icon.

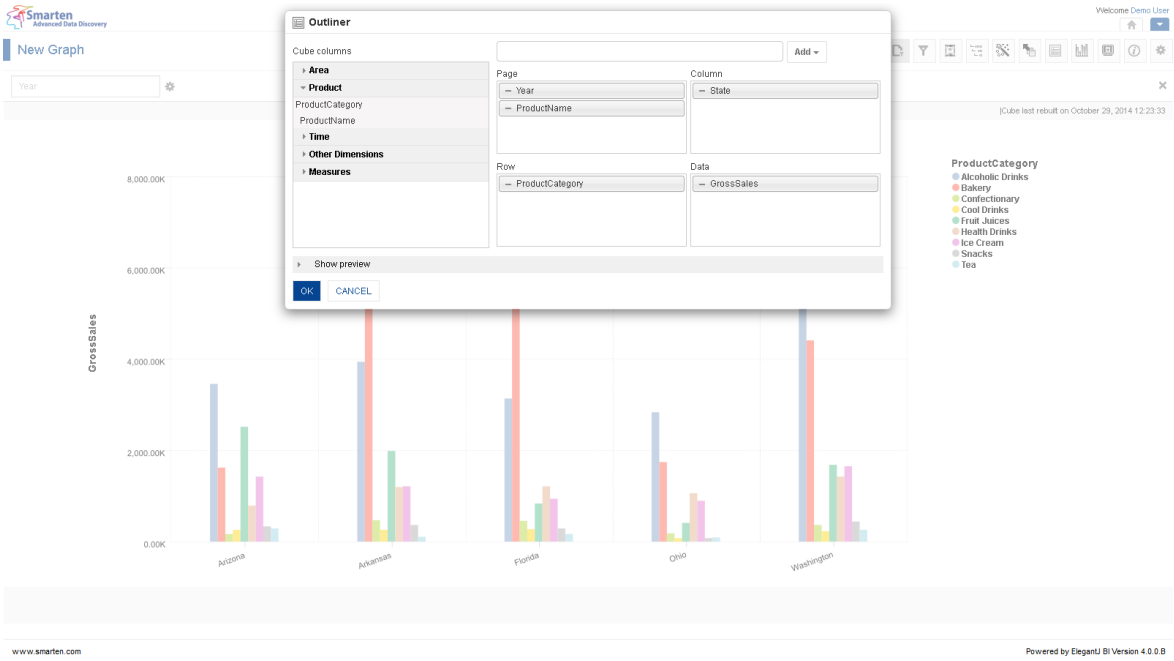
   The system displays the **Advanced filter** dialog box based on column data type. For example, if you create page filter on string dimension, it will show filter dialog box for string data type, and if you create page filter on numeric column, it will show numeric data type dialog box.

5.6.8.1 Multiple Dimensions in Page Filter

Options for page dimension filtering in Smarten allow you to add multiple page dimension filters in graph also.

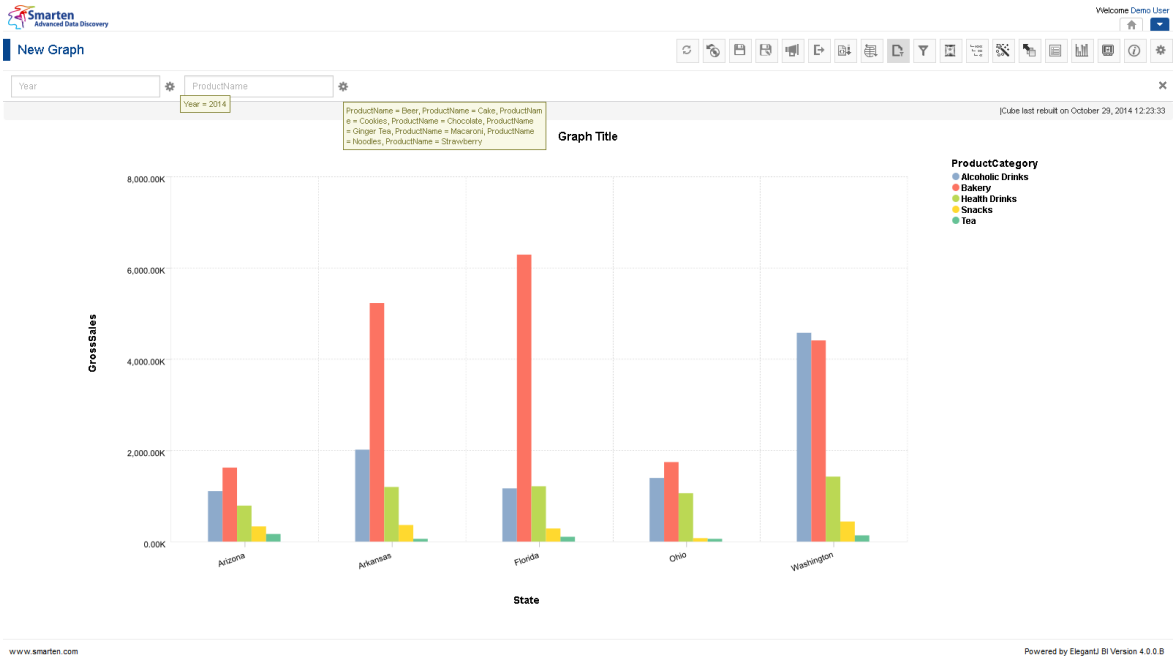
Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the Graph Toolbar, click **Outliner**.
   The system displays the **Outliner** dialog box.



MULTIPLE PAGE FILTER: ADDING PRODUCT NAME TO PAGE DIMENSION FILTER

3. Select the column from **Cube Columns**.
4. Drag and drop the selected dimension in **Page, Column, Row**, and **Data**.
5. Add multiple columns to **Page** section to add multiple columns in page filter.
6. Click **OK**.



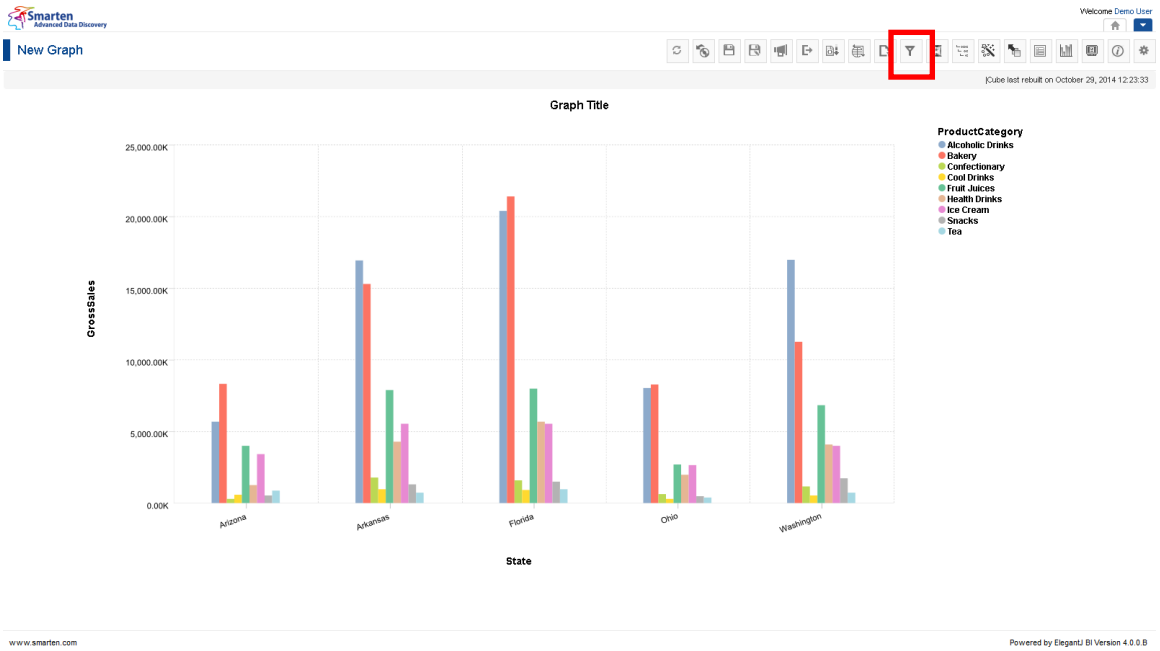
SALES ANALYSIS RESULT FOR CALENDAR YEAR 2014 AND SELECTED PRODUCT NAME

Reference: **User Manual > Working with Crosstab > Page Dimension Filter**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

5.6.9 Filter

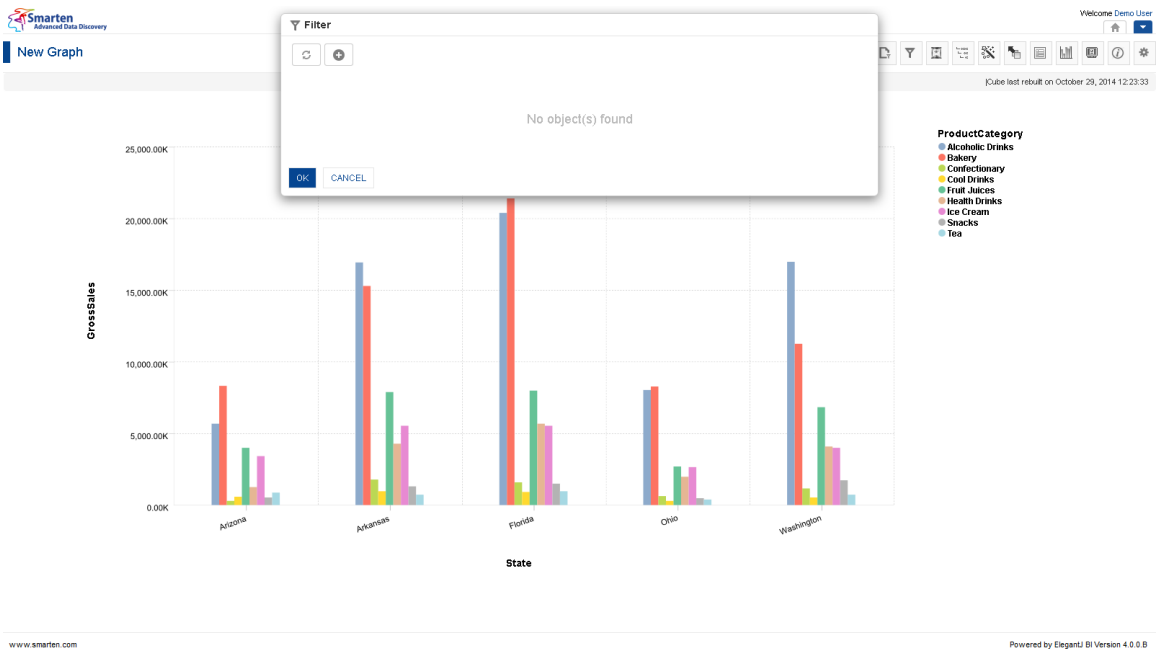
This option is used to filter the graphs using expressions on dimensions and columns.



GRAPH: FILTER ICON IT TOOLBAR

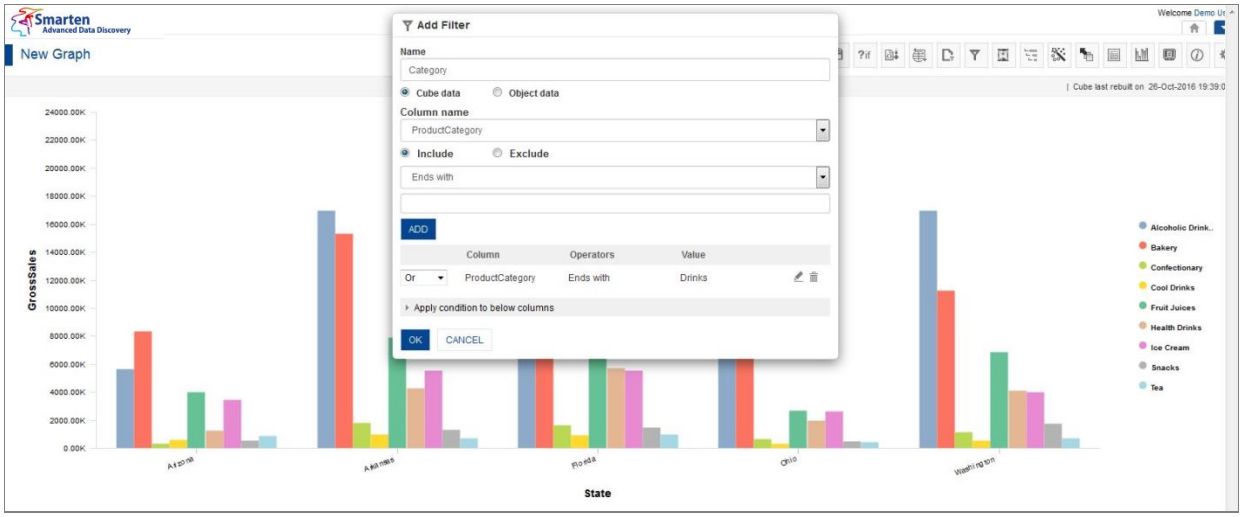
Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the Graph Toolbar, click **Filter.**
   The system displays the **Filter** dialog box.

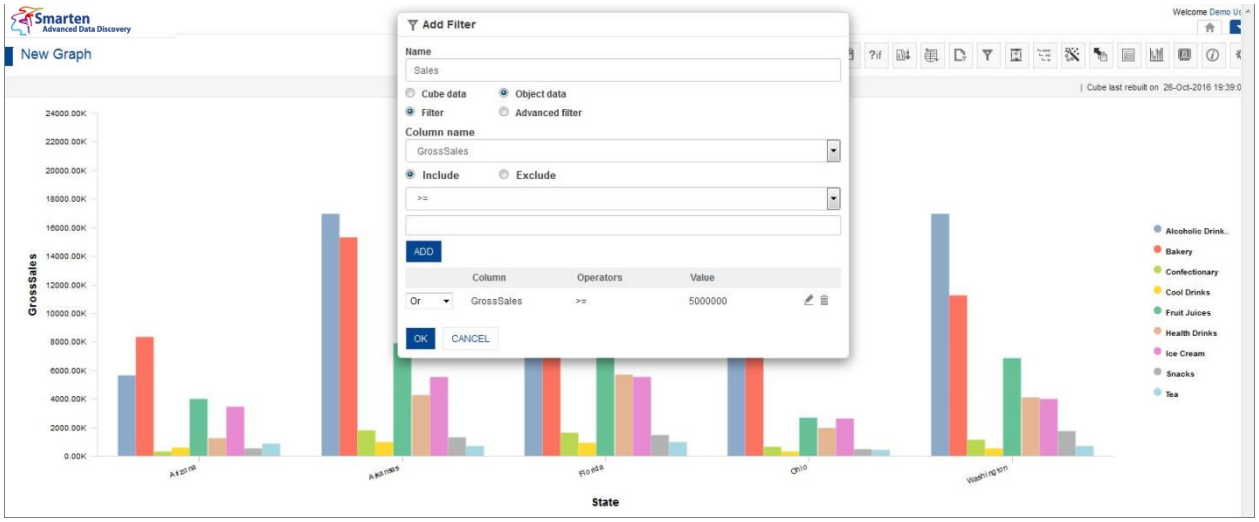


FILTER: MANAGE FILTER TEMPLATE DIALOG

You can filter either on back-end data (cube data) or front-end data (object data). Back-end filters apply filter on cube data, while front-end filters apply filter on front-end (graph) data.



FILTER: CUBE DATA FILTER OPTION



FILTER: OBJECT DATA FILTER OPTION

> Note:
> If cube data filter (back-end filter) is selected, the system will display all dimensions available in the cube and will not display any measures. Back-end filter on measure or custom measure is not available.
> If object data filter (front-end filter) is selected, the system will display all columns (dimensions, measures, and custom measures) available in the graph. It will not display any other columns available in the cube except the columns that are used in the graph.

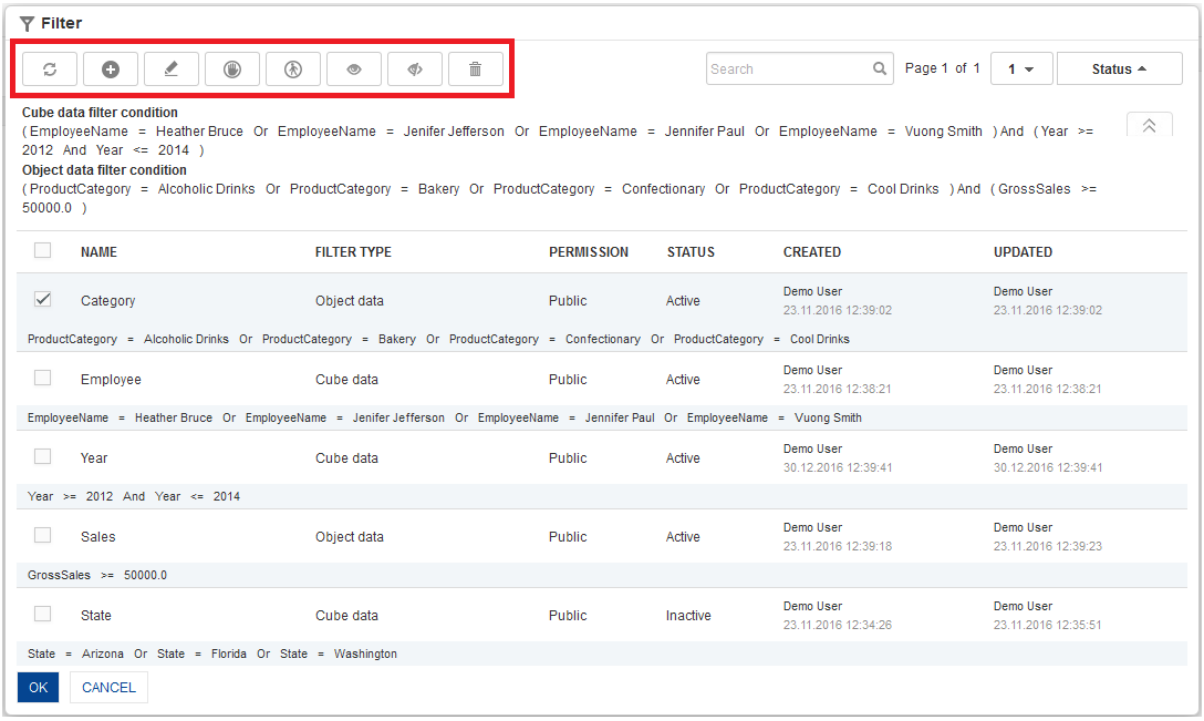
The **Filter** dialog box opens with filter based on data type of column—Numeric dimension, String dimension, Date dimension, or Measure.

Reference: **User Manual > Working with Crosstab > Filter**
Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

5.6.9.1 Create & Manage Templates

Procedure

1. Follow the **Procedure** of **Filter**.
2. In the **Filter** dialog box, select a checkbox in front of a filter.
   The system displays a toolbar for managing tool template.



GRAPH: CREATE AND MANAGE FILTER TEMPLATE

GRAPH: CREATE AND MANAGE FILTER TEMPLATE TOOLBAR

Icon	Icon name
	Refresh
	Add
	Edit
	Private
	Public
	Active
	Inactive
	Delete

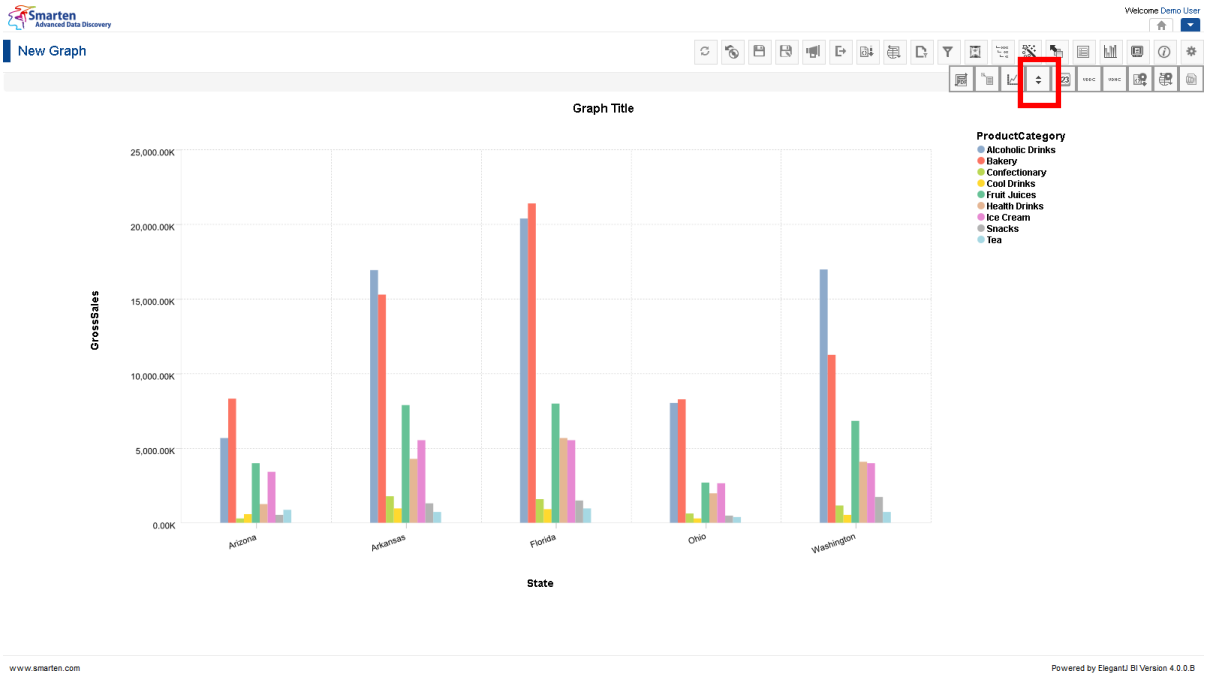
GRAPH: CREATE AND MANAGE FILTER TEMPLATE TOOLBAR OPTIONS

Note:
Templates can be edited or deleted only by creator of the template or the administrator.

5.6.10 Sort

Use this option to sort the graph on selected items.

5.6.10.1 General sort



GRAPH: MANAGE SORT ICON

Procedure

10. In the **Repository**, open graph.

    The system displays the selected graph.
11. In the upper right-hand corner click **Setting**.
12. The system displays the Setting Toolbar.
13. Click **Manage sort**.

    The system displays the **Manage sort** dialog box.

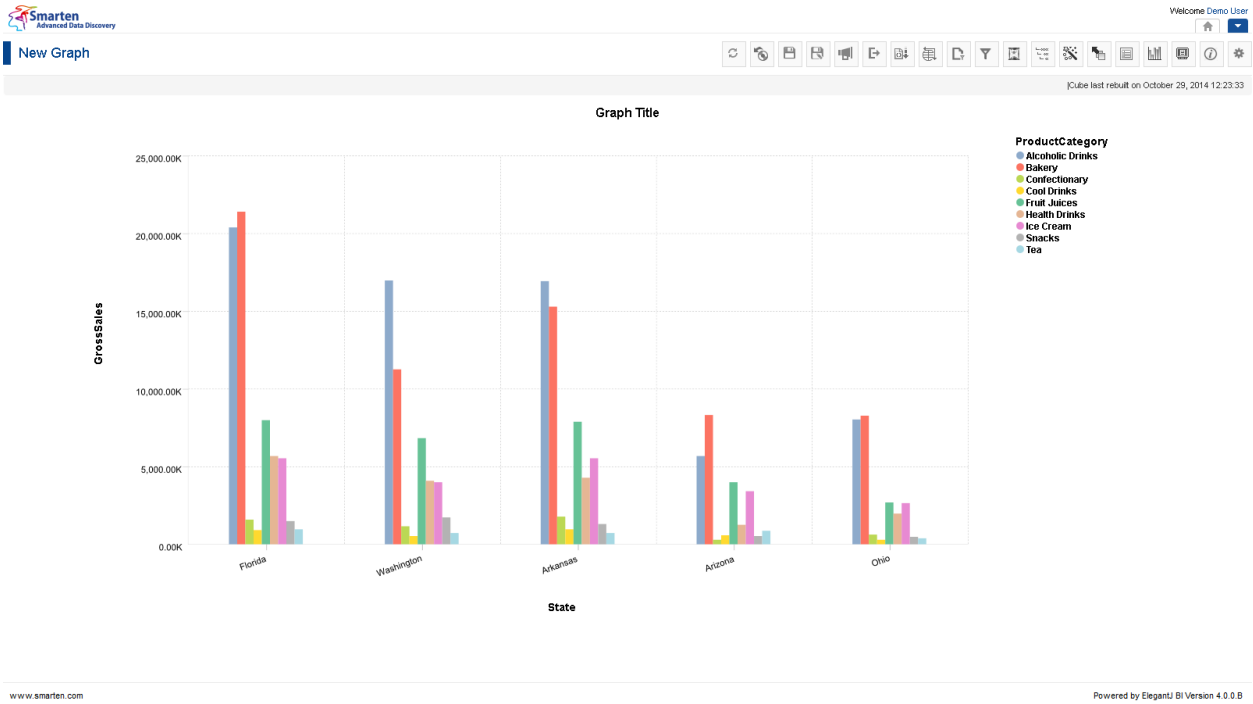
GRAPH: CREATE AND MANAGE SORT DIALOG

14. In the **Manage sort** dialog box, click the **Add** icon.

    The system displays the **Add sort** dialog box.

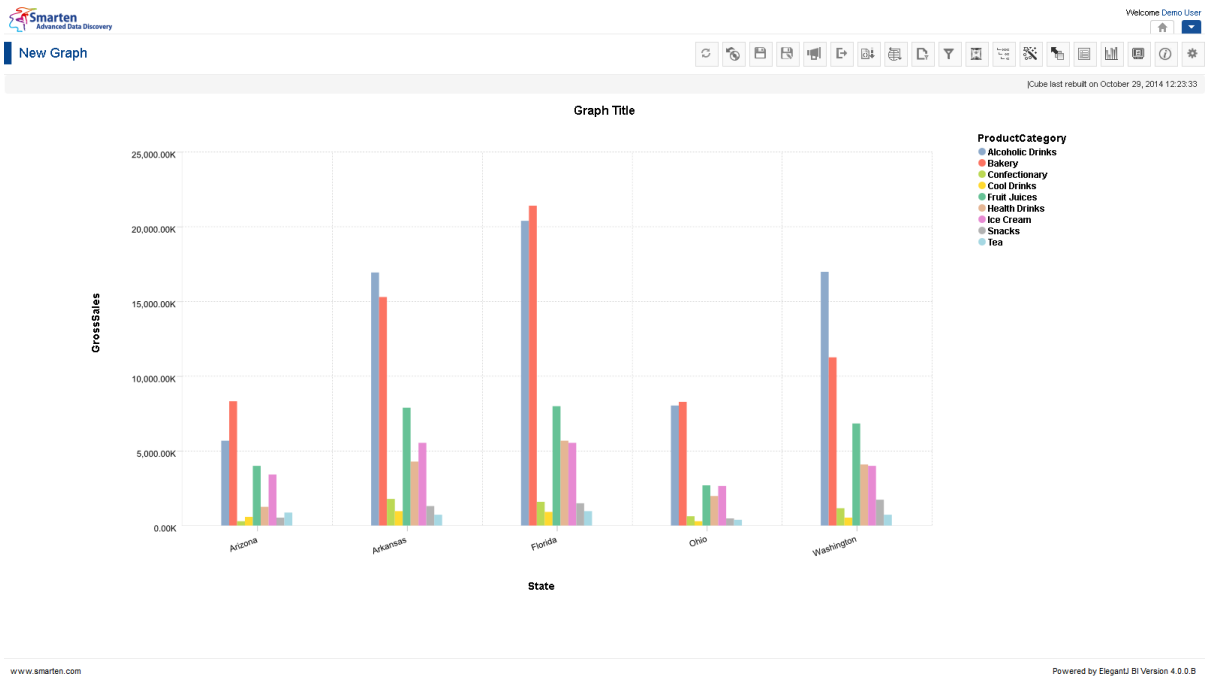
GRAPH: ADD SORT DIALOG

15. In the **Name** field, enter a name.
16. From the **Sort Dimension** drop-down list, select a column.
17. Select **General** radio button.
18. In the **Order** drop-down list select order, either Ascending or Descending.
19. Click **OK**.



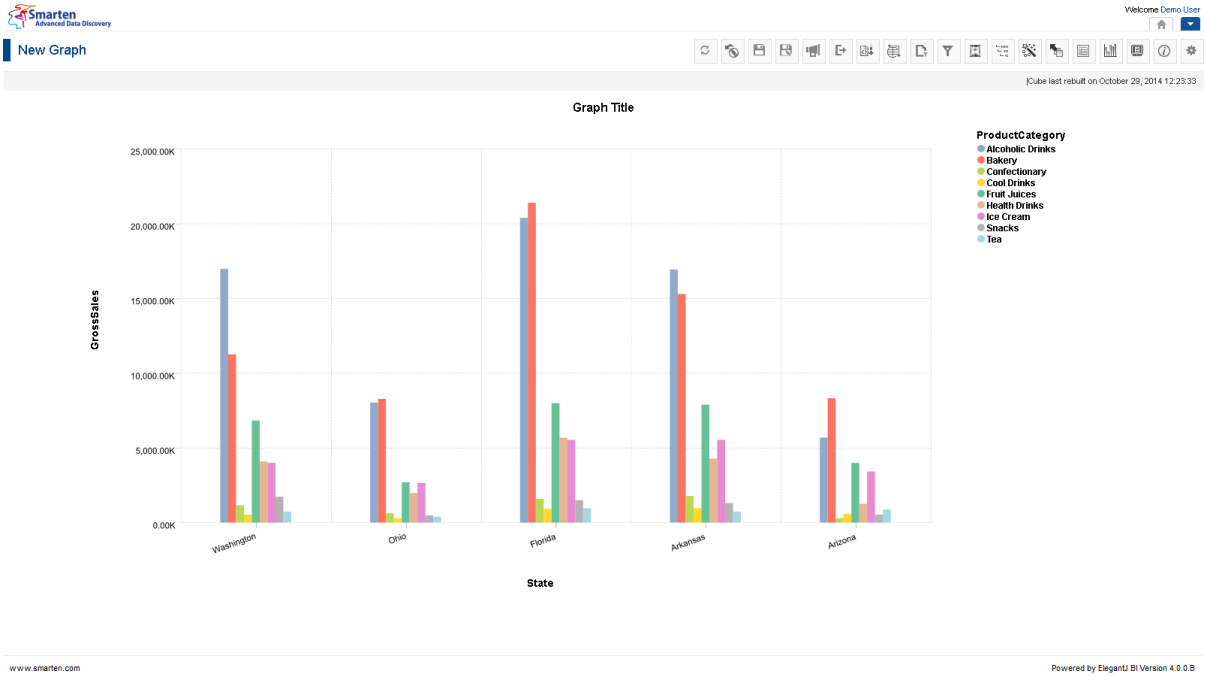
GRAPH: BEFORE SORT X-AXIS (STATE) IN ASCENDING ORDER

GRAPH: SORT: APPLYING ASCENDING ORDER ON X-AXIS (STATE)



GRAPH: AFTER SORT X-AXIS (STATE) IN ASCENDING ORDER

GRAPH: SORT: APPLYING DESCENDING ORDER ON X-AXIS (STATE)



GRAPH: AFTER SORT X-AXIS (STATE) IN DESCENDING ORDER

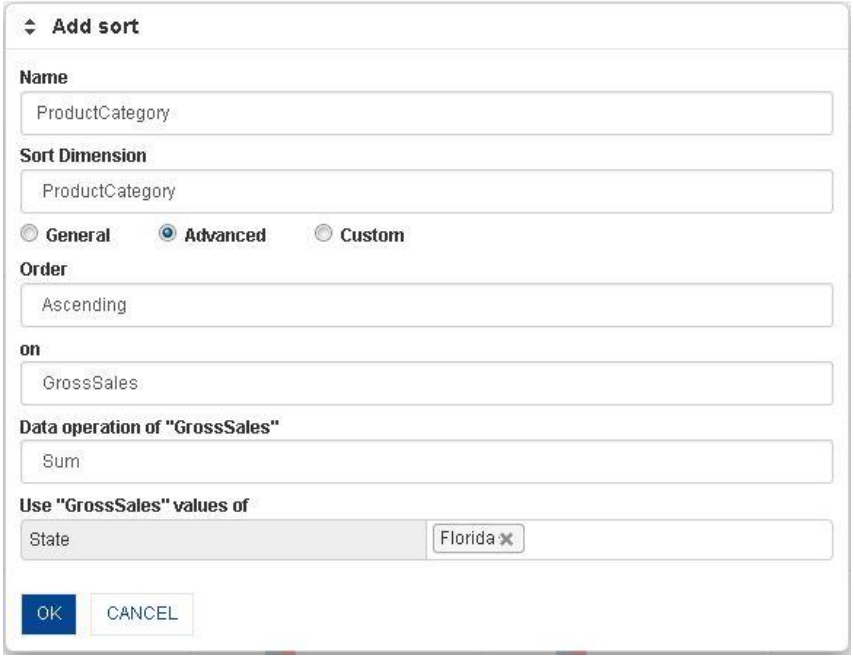
Reference: **Concept Manual > Analytic Functions > Sort**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

5.6.10.2 Advanced Sort

Procedure

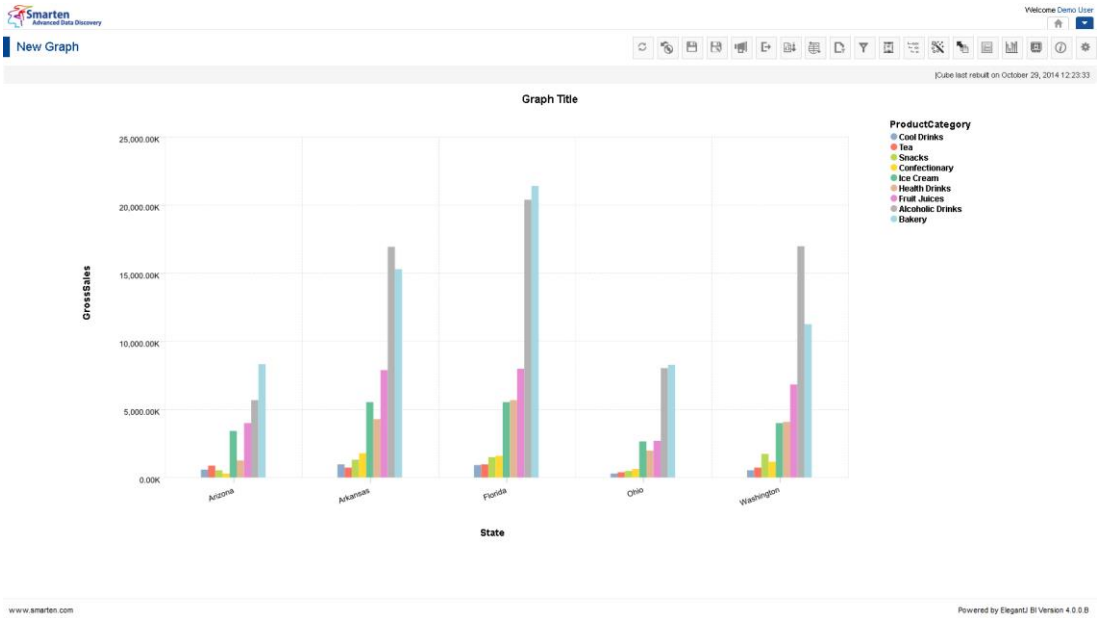
1. Follow the **Procedure** of **General Sort**.
   The system displays the **Add sort** dialog box



GRAPH: ADVANCED SORT

1. In the **Name** field, enter a name.
2. From the **Sort Dimension** drop-down list, select a column.
3. Select **Advanced** radio button.
4. In the **Order** drop-down list, select order, either Ascending or Descending.
5. In the **On** drop-down list, select a column.
6. In the **Data operation of On ''column"** drop-down list, select a function.
7. In the **Use ''column" value of** drop-down list, select a value to filter sort condition
8. Click **OK.**

Field	Description
Sort Dimension	The Column on which sorting is to be performed
Order	Order for Sorting the selected column – Ascending or Descending
On (Data Column)	A Column in which sorting will be applied
Data operation	Data operation for which sorting to be performed
Filter	Sorting with respect to the filter column



GRAPH: SORT: TOTAL GROSS SALES BY PRODUCTS, PRODUCT GROSS SALES FOR FLORIDA

Reference: **Concept Manual > Analytic Functions > Sort**

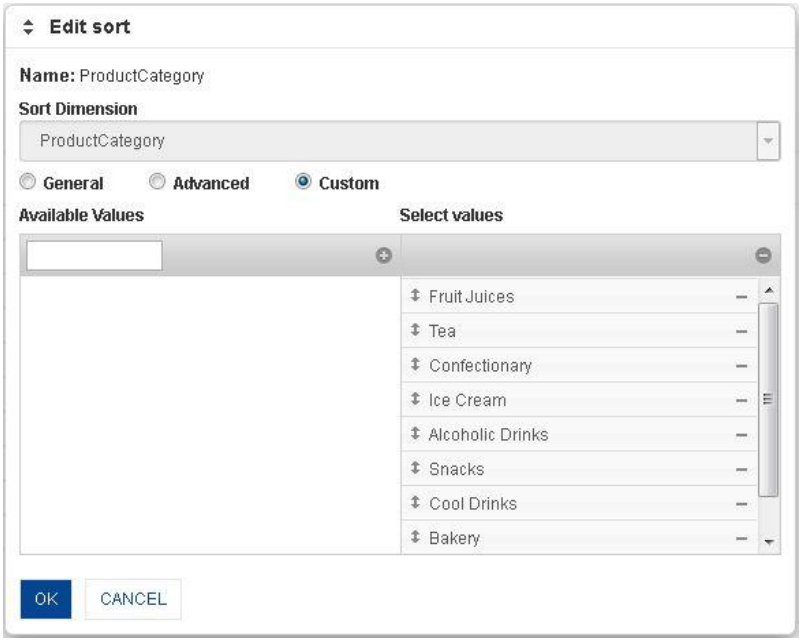
Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

5.6.10.3 Custom Sort

You can perform custom sort operation to sort a graph in a particular manner based on your requirement.

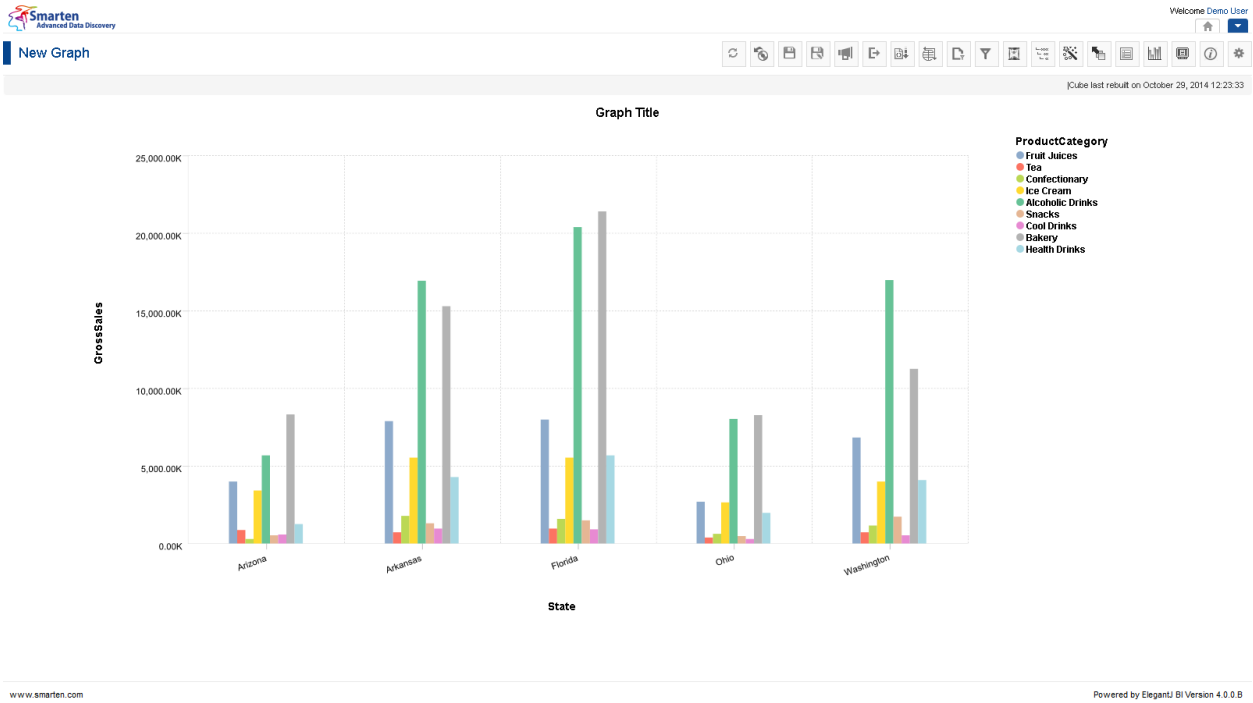
Procedure

1. Follow the **Procedure** of **General Sort**.
   The system displays the **Add sort** dialog box



GRAPH: DEFINE CUSTOM SORTING ORDER SEQUENCE

2. In the **Name** field, enter a name.
3. From the **Sort Dimension** drop-down list, select a column.
4. Select **Custom** radio button.
5. From the **Available Values** section, drag and drop the selected values to arrange sorting order from the **Select values** section.
6. From the **Select Values** section, move columns up and down to arrange sorting order of selected columns.
7. Click **OK.**



GRAPH: AFTER CUSTOM SORT (LEGEND VALUES)

> Note:
> You can select some or all columns for custom sort order. For example, if you select only 4 columns as available columns out of the available 10 columns, you can set custom order for these 4 available columns. As you have not given any custom sort for the other 6 columns, these columns will be displayed after the first 4 selected columns (as per the order given in custom order dialogue) in the default order. To put it simply, if from columns C1–C10 you select C1, C4, and C5 in custom columns and assign order, such as c5, c1, c4. In this case, columns will be displayed as C5, C1, C4, C2, C3, C6, C7, C8, C9, C10.

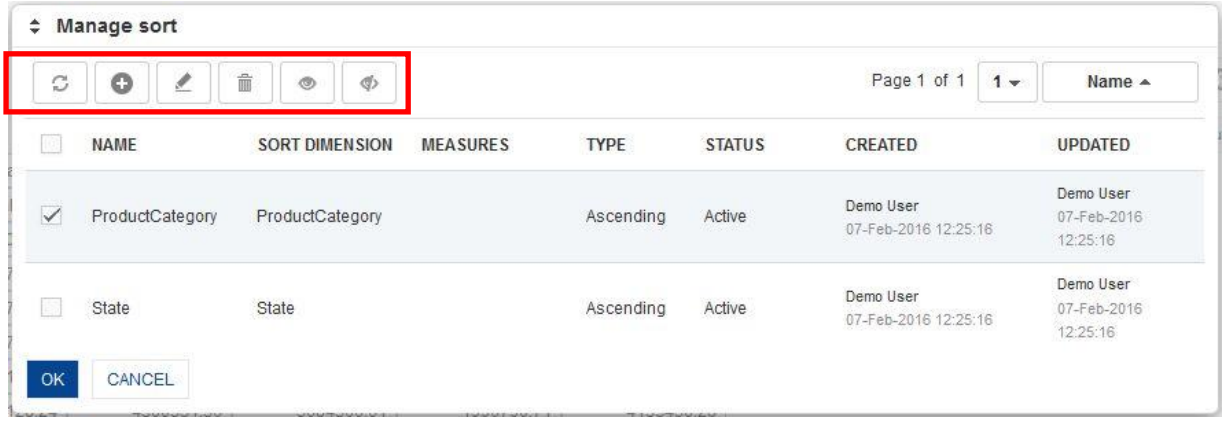
Reference: **Concept Manual > Analytic Functions > Sort**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

5.6.10.4 Create & Manage Templates

Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage sort.**
   The system displays the **Manage sort** dialog box. Select a checkbox in front of a sort name.
   The system displays a toolbar for managing sort template.



GRAPH: CREATE AND MANAGE SORT TEMPLATE

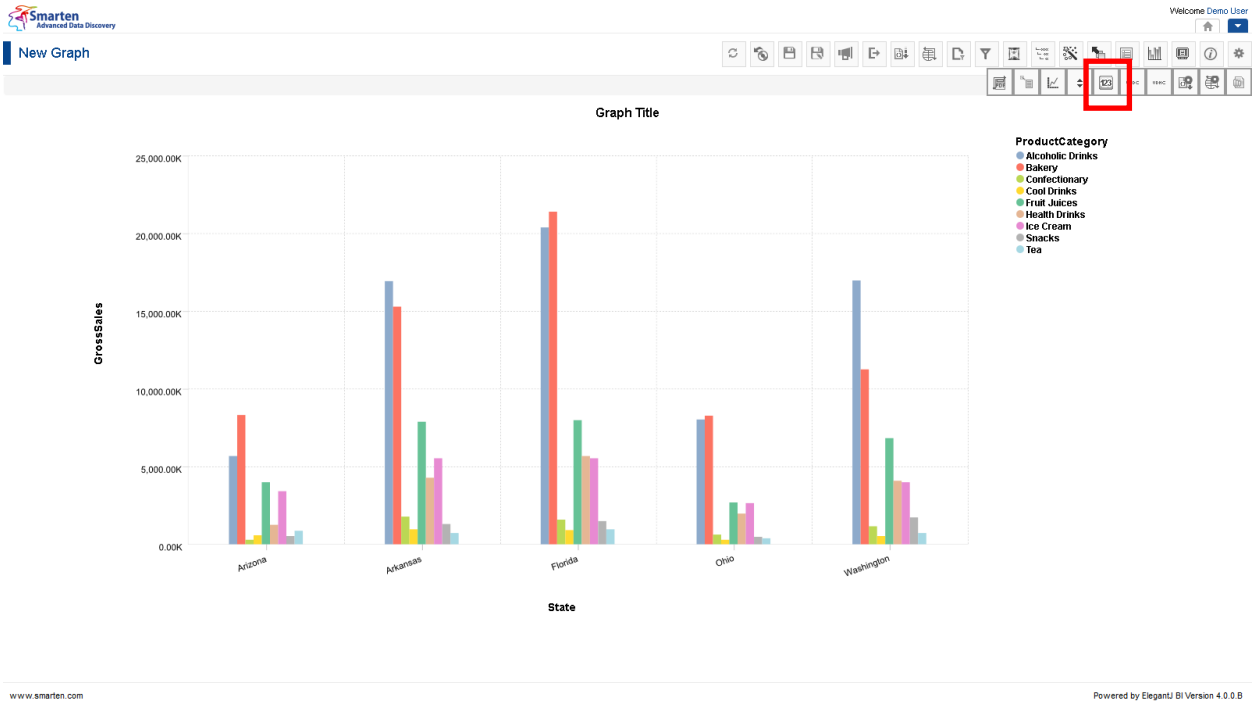
GRAPH: CREATE AND MANAGE SORT TEMPLATE TOOLBAR

Icon	Icon name
	Refresh
	Add
	Edit
	Delete
	Active
	Inactive

GRAPH: CREATE AND MANAGE SORT TEMPLATE TOOLBAR OPTIONS

5.6.11 Rank

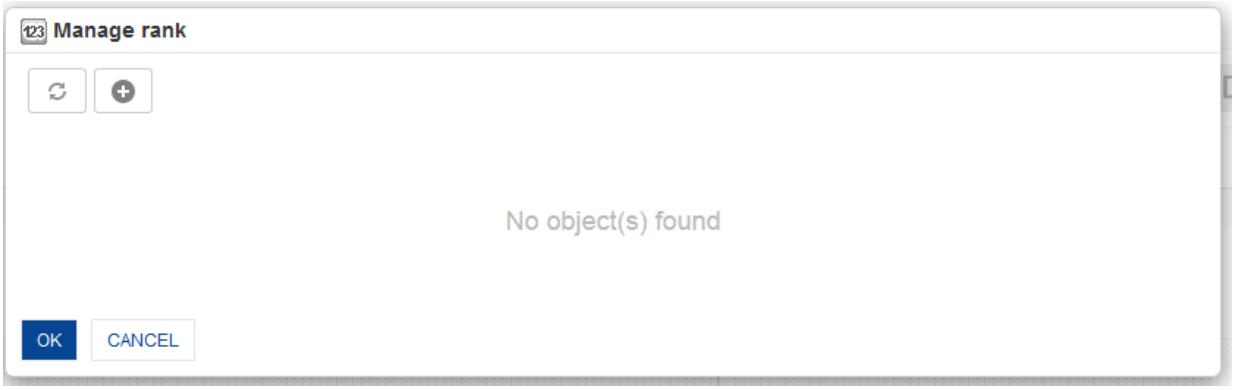
This option is used to assign ranks to data rows. You can rank all rows or some rows from top or bottom. It is useful while you wish to analyse data performance top-bottom, high-low, or maximum-minimum ranking.



GRAPH: RANK SETTING

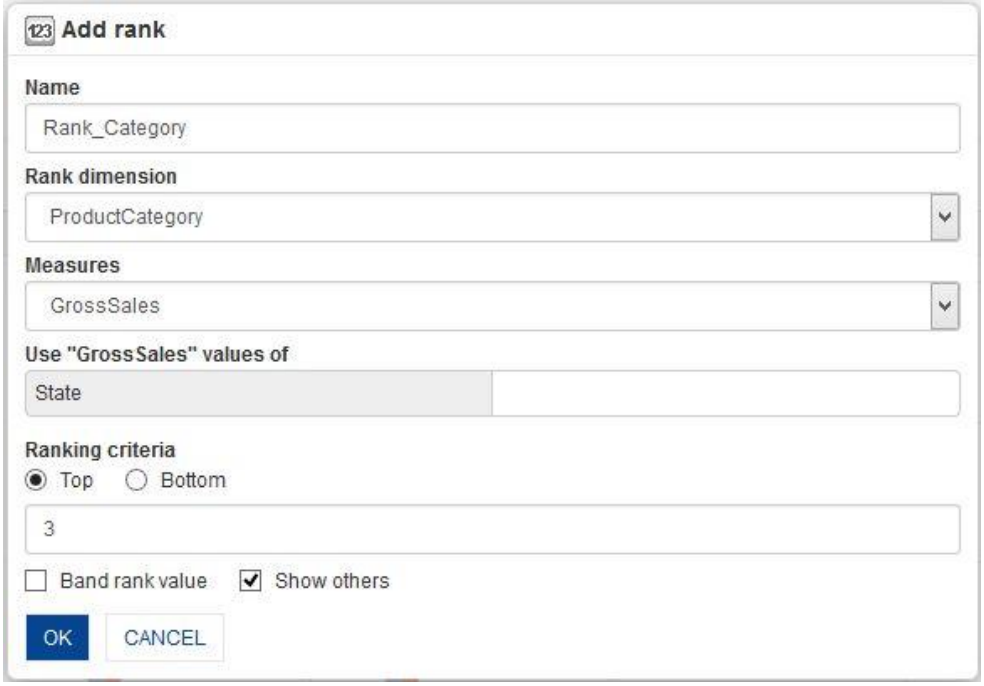
Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage Rank.**
   The system displays the **Manage Rank** dialog box.



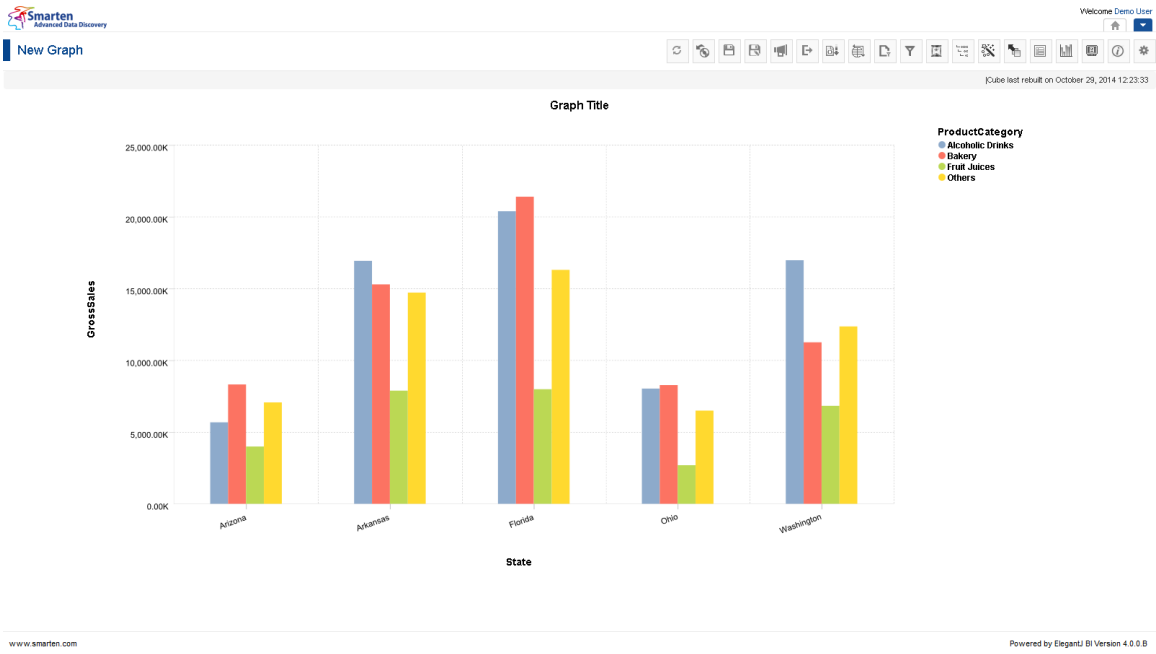
GRAPH: MANAGE RANK

4. In the **Manage rank** dialog box, click **Add** icon.
   The system displays the **Add rank** dialog box.

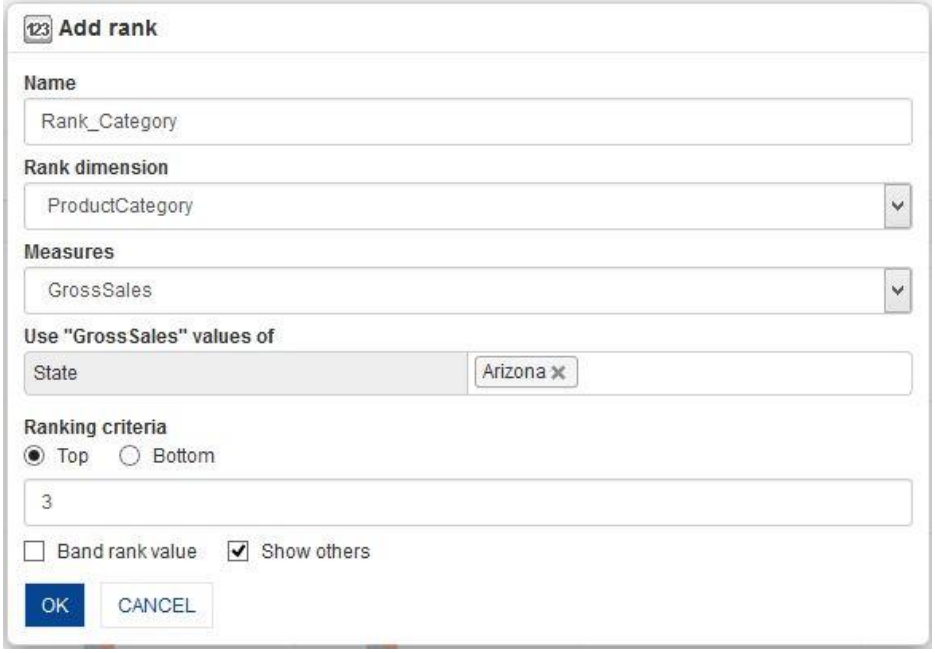


GRAPH: RANK: WITH SHOW OTHERS AND WITHOUT FILTER COLUMN

5. In the **Name** field, enter a name.
6. In the **Rank dimension** drop-down list, select a dimension.
7. In the **Measure** drop-down list, select a measure.
8. In the **Use "Measure" values of** field, select a dimension.
9. In the **Ranking Criteria** section, select a radio button, either Top or Bottom.
10. In the **Ranking Criteria** section, enter a value in the field.
11. Select the **Show others** checkbox to show others value for ranks.
12. Click **OK.**

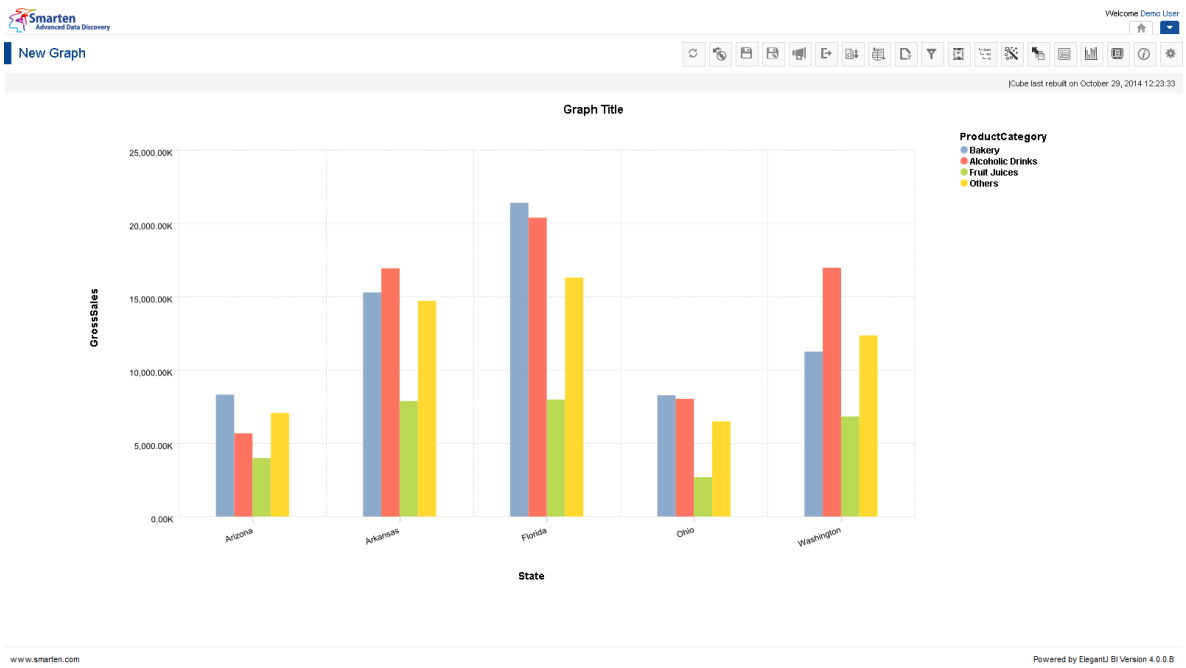


GRAPH: RANK: APPLIED WITHOUT SPECIFYING FILTER COLUMN (ON LEGEND)



GRAPH: RANKING WITH SHOW OTHERS AND WITH FILTER COLUMN

Field	Description
Rank Name	Name of Rank Template
Rank Dimension	The Column on which ranking is to be applied
Measure	Data column for which ranking is to be performed
Filter	Ranking in context to filtered column
Ranking criteria	Select Rank criteria Top N / Bottom N



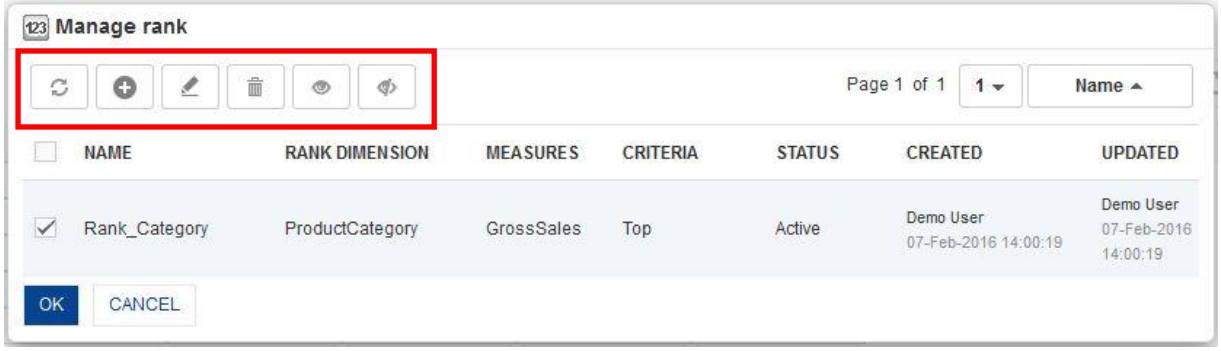
GRAPH: RANK: TOP THREE PRODUCTS RANKED ON GROSS SALES FOR ARIZONA

Reference: **Concept Manual > Filters and Expressions > Rank**

5.6.11.1 Create & Manage Templates

Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage Rank.**
   The system displays the **Manage Rank** dialog box. Select a checkbox in front of a rank name.
   The system displays a toolbar for managing rank template.



GRAPH: CREATE AND MANAGE RANK

GRAPH: CREATE AND MANAGE RANK TEMPLATE TOOLBAR

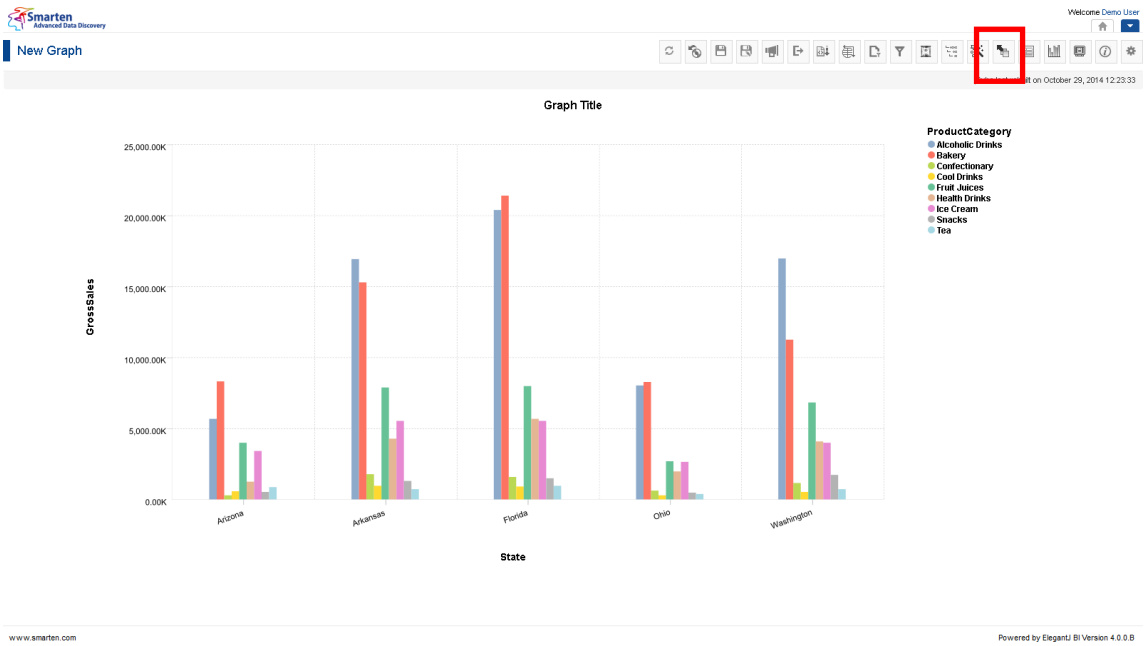
Icon	Icon name
	Refresh
	Add
	Edit
	Delete
	Active
	Inactive

GRAPH: CREATE AND MANAGE RANK TEMPLATE TOOLBAR OPTIONS

> Note:
> While you select Top N or Bottom N, then selected number of rows will be shown with ranking. Summation of all other rows will be shown with “Others” label.

5.6.12 Group/Ungroup

This option is used to pack or unpack the values in the graph. Ungrouping can be used to demerge grouped data.

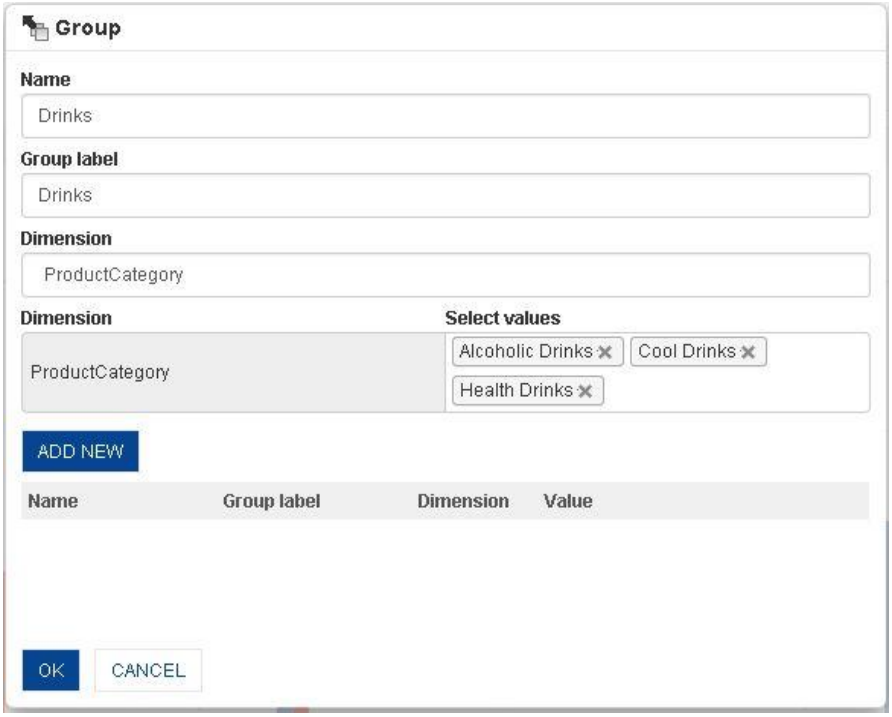


GRAPH: GROUP

To group values in a graph

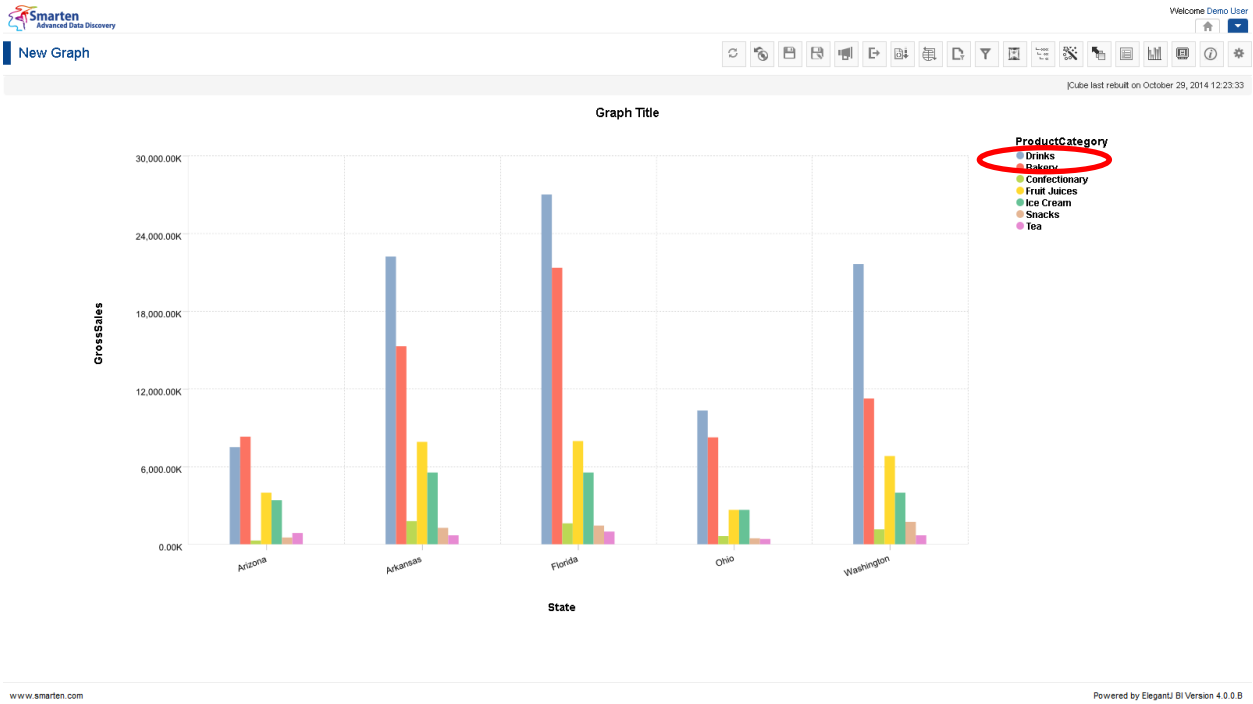
Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the Graph Toolbar, click **Group.**
   The system displays the **Group** dialog box.



GRAPH: GROUP SETTING

3. In the **Name** field, enter a name.
4. In the **Group label** field, enter a label for the group.
5. In the **Dimension** field, enter a value.
6. In the **Select values** box, choose any number of values as required.
7. Click **Add New** to add values for Dimension.
8. Click **OK**.

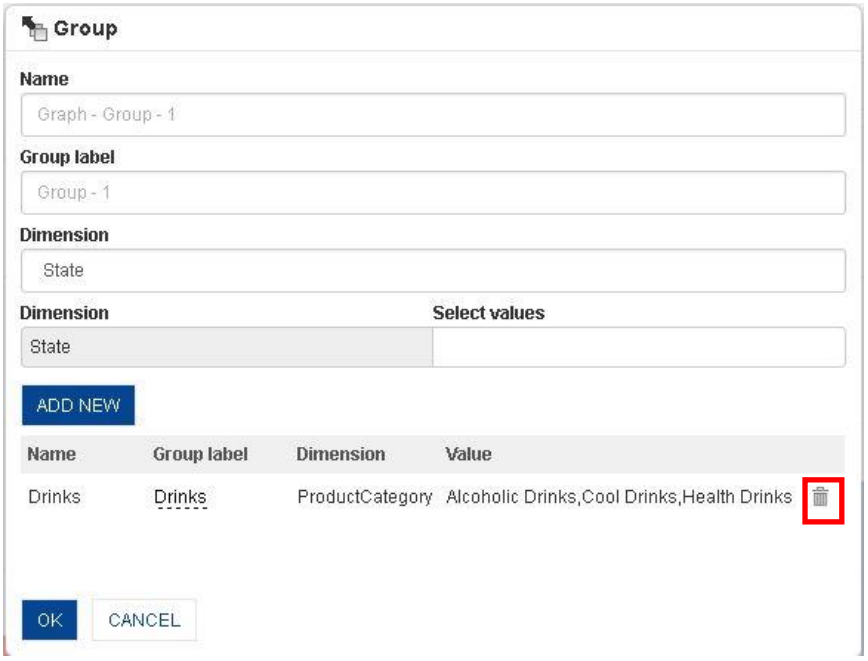


GRAPH: GROUP: PACKED PRODUCTS WITH LABEL DRINKS

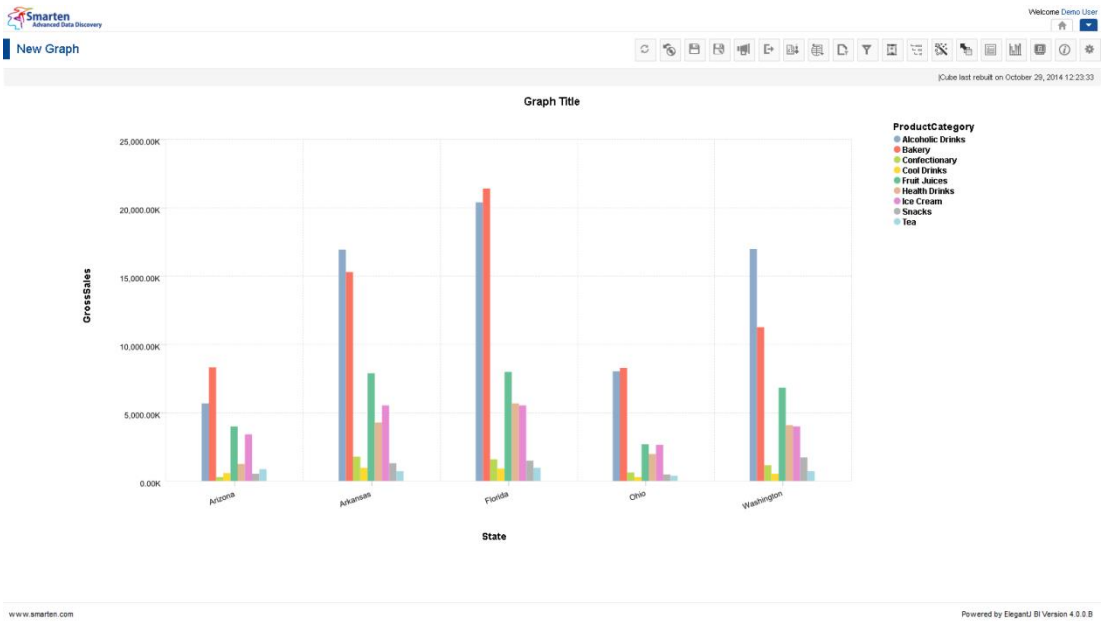
To ungroup values in a graph

Procedure

1. Follow the **Procedure** of **Group**.
2. Click **Delete** icon to delete the set of values from the group.
3. Click **OK.**



GRAPH: REMOVE GROUPING

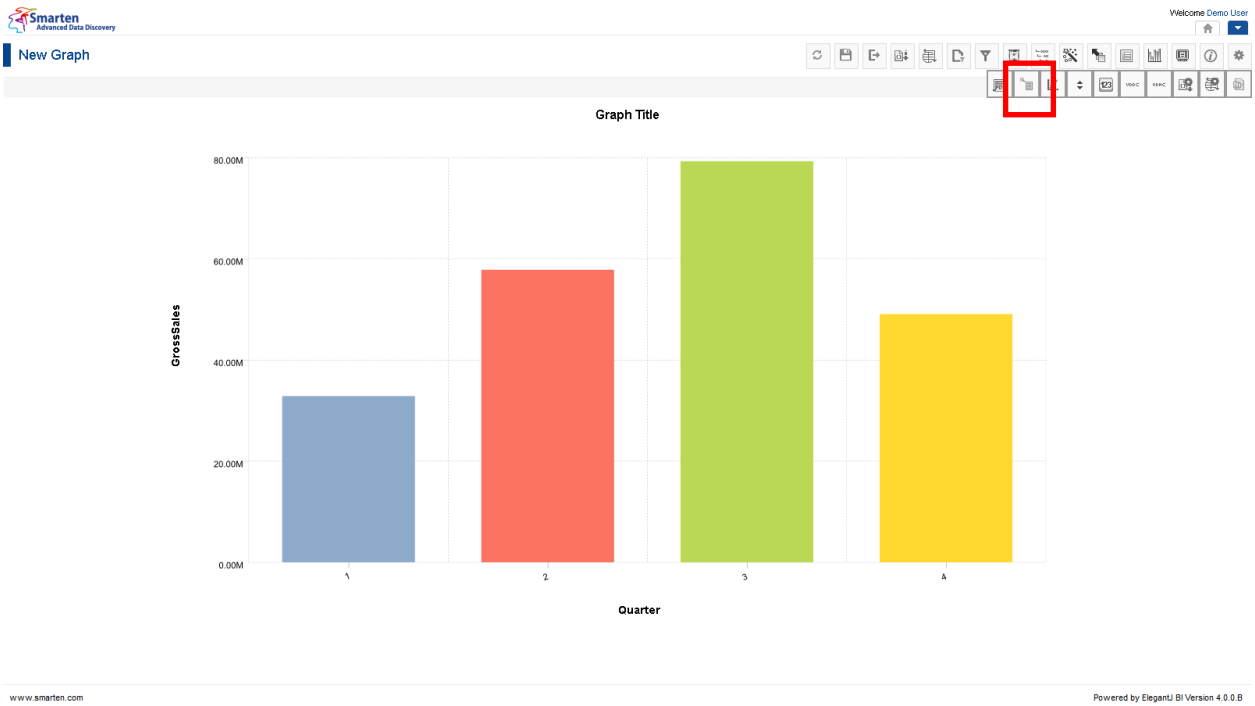


GRAPH: AFTER REMOVING GROUPING

Reference:	**Concept Manual > Analytic Functions > Group & Ungroup**

5.6.13 Data Value/Display Value Mapping

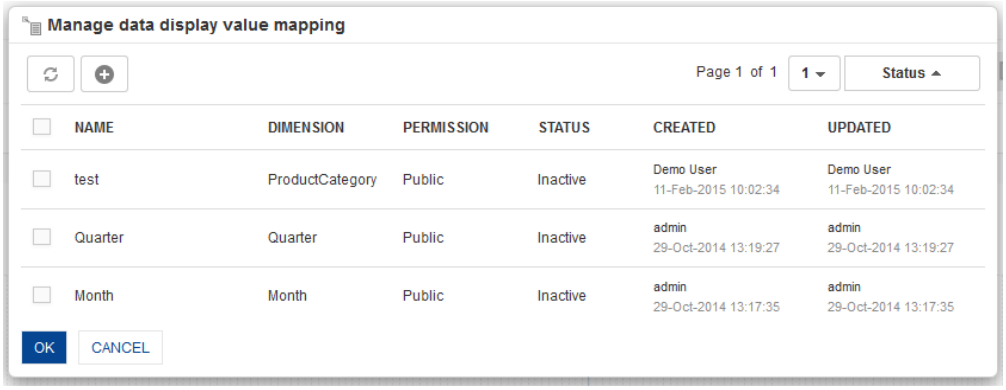
Use Data value/display value mapping to display alternate text for specific data values.



GRAPH: DDVM ICON

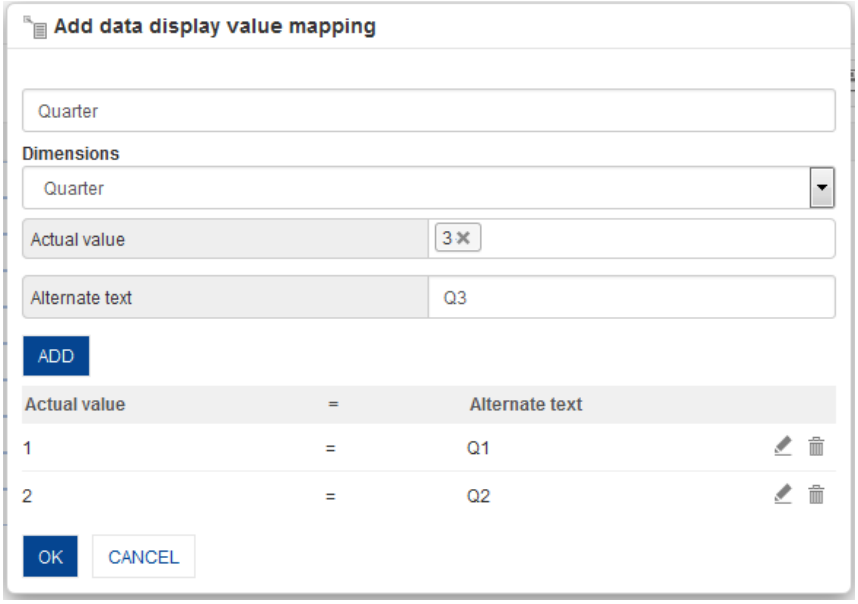
Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage data display value mapping.**
   The system displays the **Manage data display value mapping** dialog box.



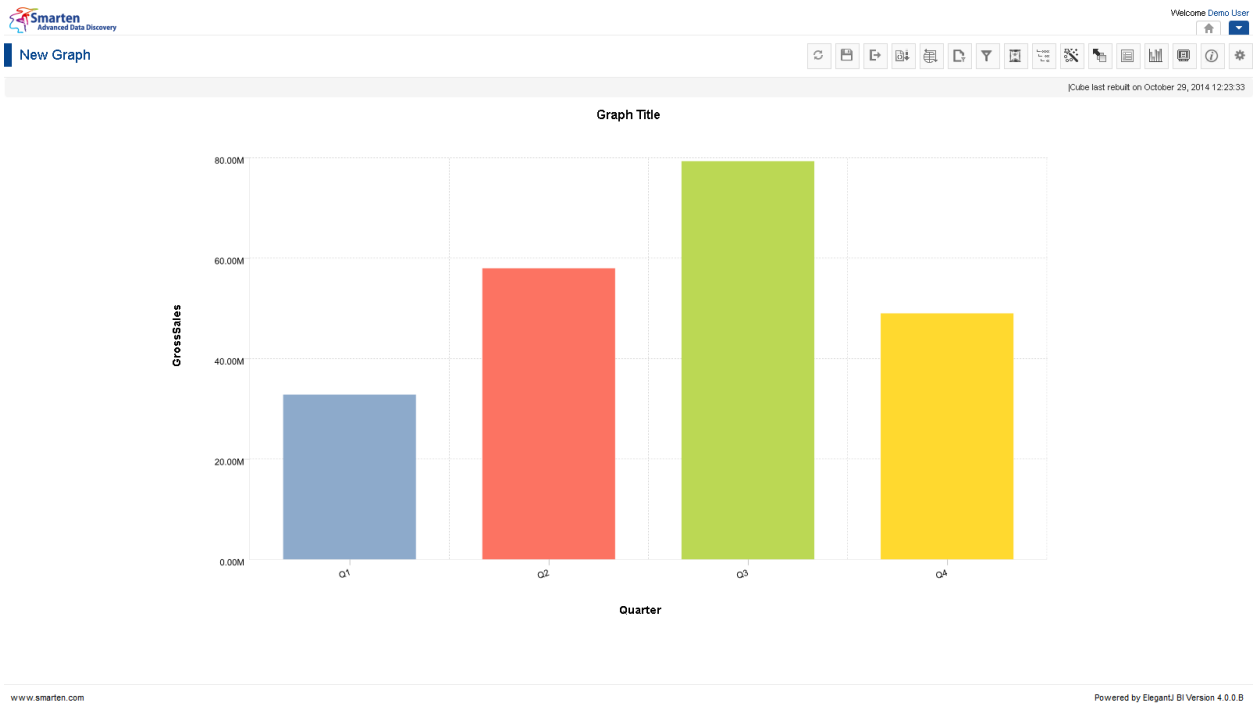
GRAPH: MANAGE DATA DISPLAY VALUE MAPPING

4. In the Manage data display value mapping dialog box, click Add icon.
   The system displays the Add data display value mapping dialog box.



GRAPH: MAP DATA VALUE: MAPPING DATA VALUE

5. In the **name** field, enter a name.
6. In the **Dimension** drop-down list, select a dimension.
7. In the **Actual value** field, select a value.
8. In the **Alternate text** field, enter a value.
9. Click **ADD**.
10. The system displays the selected values. You can also delete the added values by clicking **Delete** icon.
11. Click **OK**.



GRAPH: AFTER APPLYING DATA VALUE DISPLAY VALUE MAPPING

Reference: **Concept Manual > Analytic Functions > Data value / Display value mapping**

5.6.13.1 Create and Manage Templates

Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage data display value mapping.**
   The system displays the **Manage data display value mapping** dialog box.
4. In the **Manage data display value mapping** dialog box, select a checkbox in front of a DDVM name.

   The system displays a toolbar for managing tool template.

GRAPH: CREATE AND MANAGE DATA DISPLAY VALUE MAPPING TEMPLATES

GRAPH: CREATE AND MANAGE DATA DISPLAY VALUE MAPPING TOOLBAR

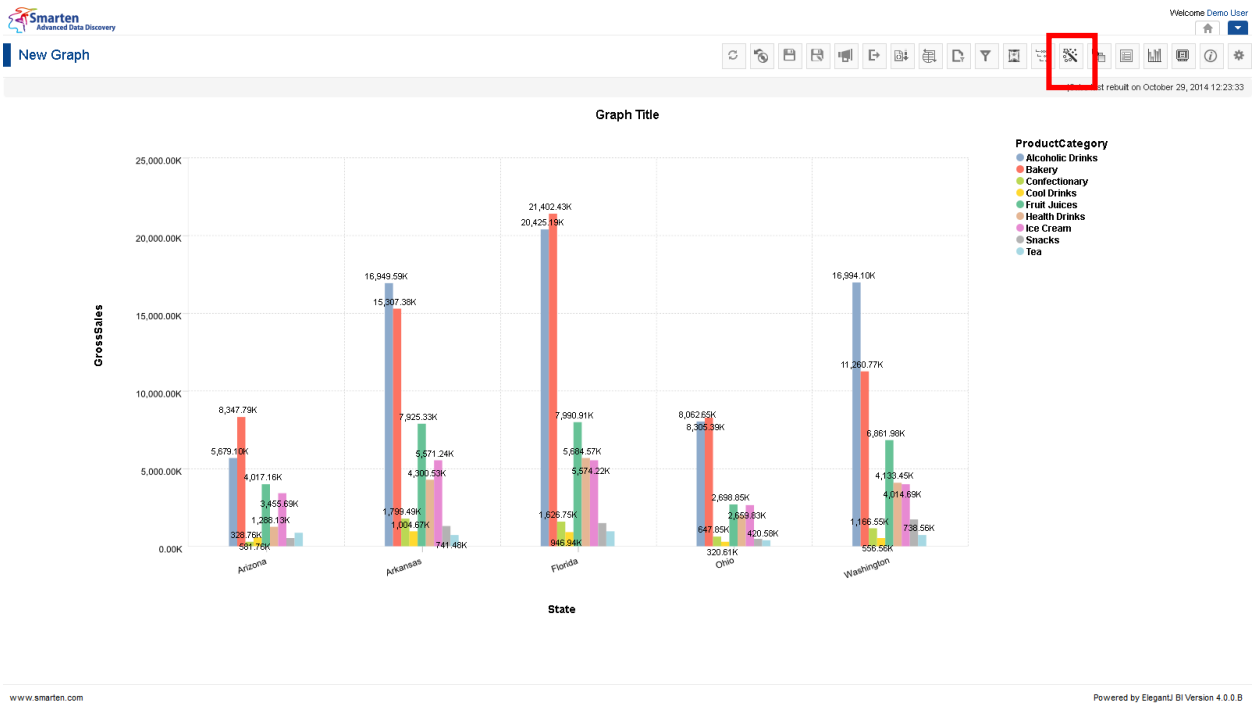
Icon	Icon name
	Refresh
	Add
	Edit
	Private
	Public
	Active
	Inactive
	Delete

GRAPH: CREATE AND MANAGE DATA DISPLAY VALUE MAPPING TOOLBAR OPTIONS

> Note:
> Templates can be edited or deleted only by creator of the template or the administrator.

5.6.14 Data Operations

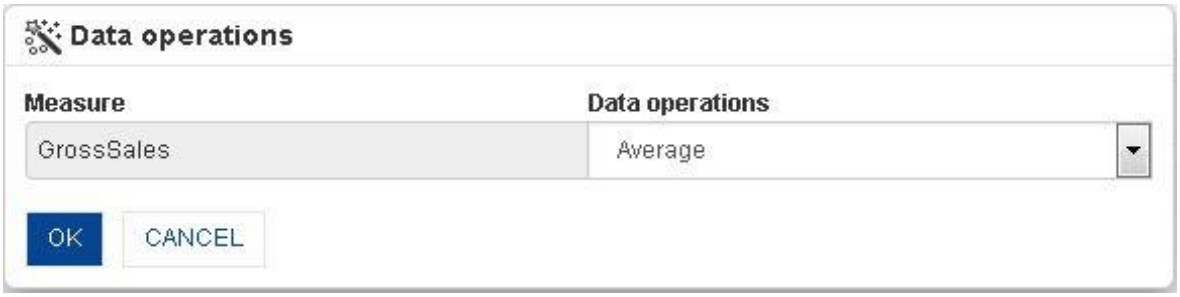
The Data Operation function is used to perform basic mathematical operations on any data in the graph.



GRAPH: DATA OPERATION

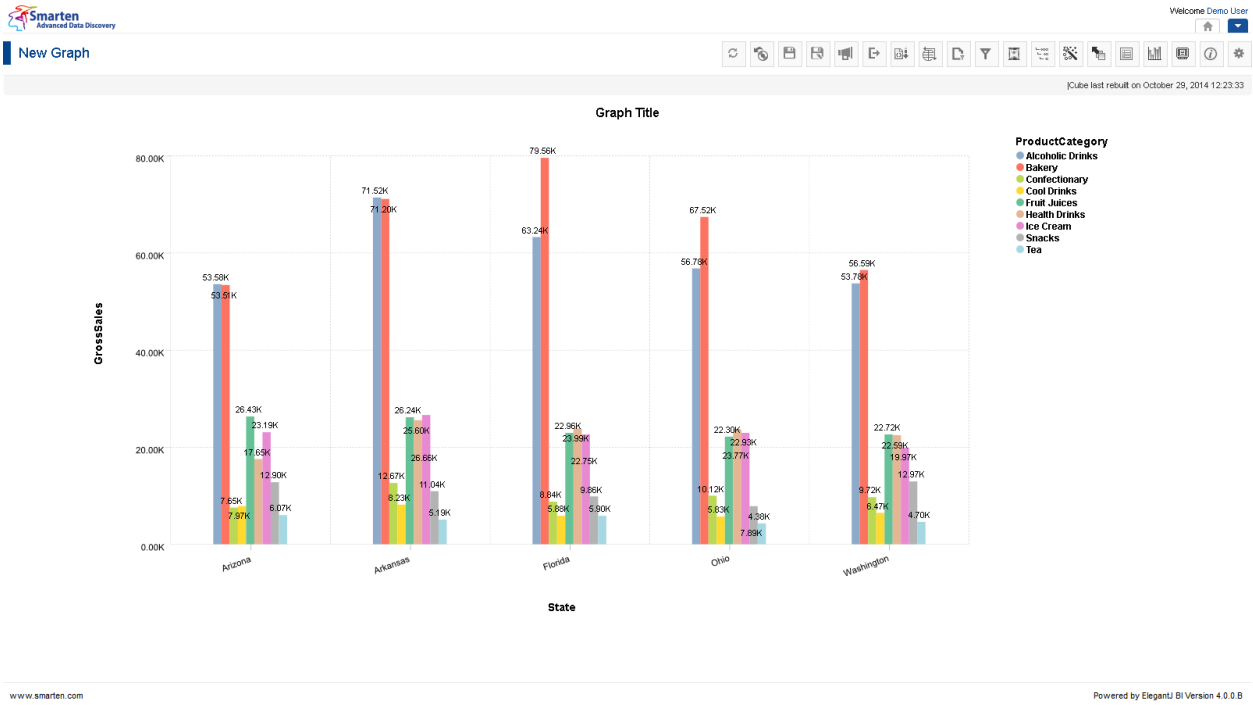
Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the Graph Toolbar, click **Data operations.**
   The system displays the **Data operations** dialog box.



GRAPH: DATA OPERATION: AVERAGE

3. In the **Data operations** drop-down list, select a function. For example, select **Average** for viewing data with Average of Gross Sales.
4. Click **OK** to set the data operation.



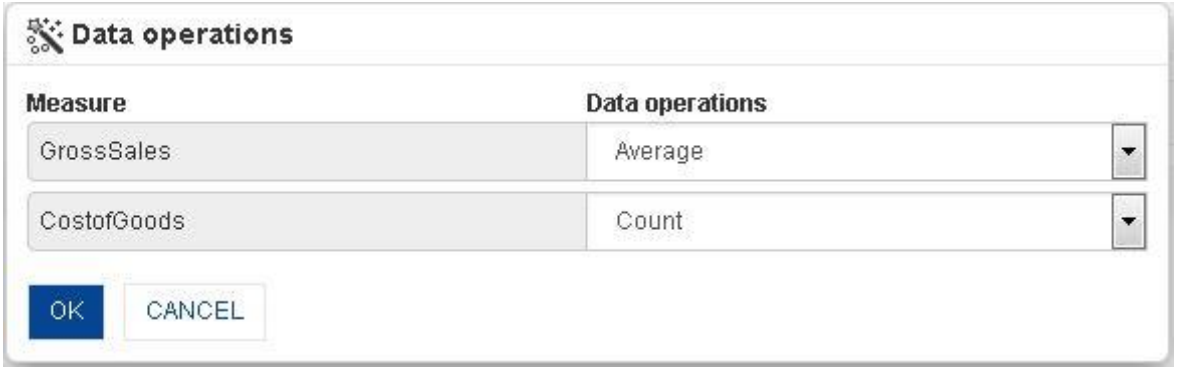
AVERAGE STATEWISE GROSS SALES

To add data operation on multiple measures

If you have multiple measures in graph, you can select different data operations for different measures.

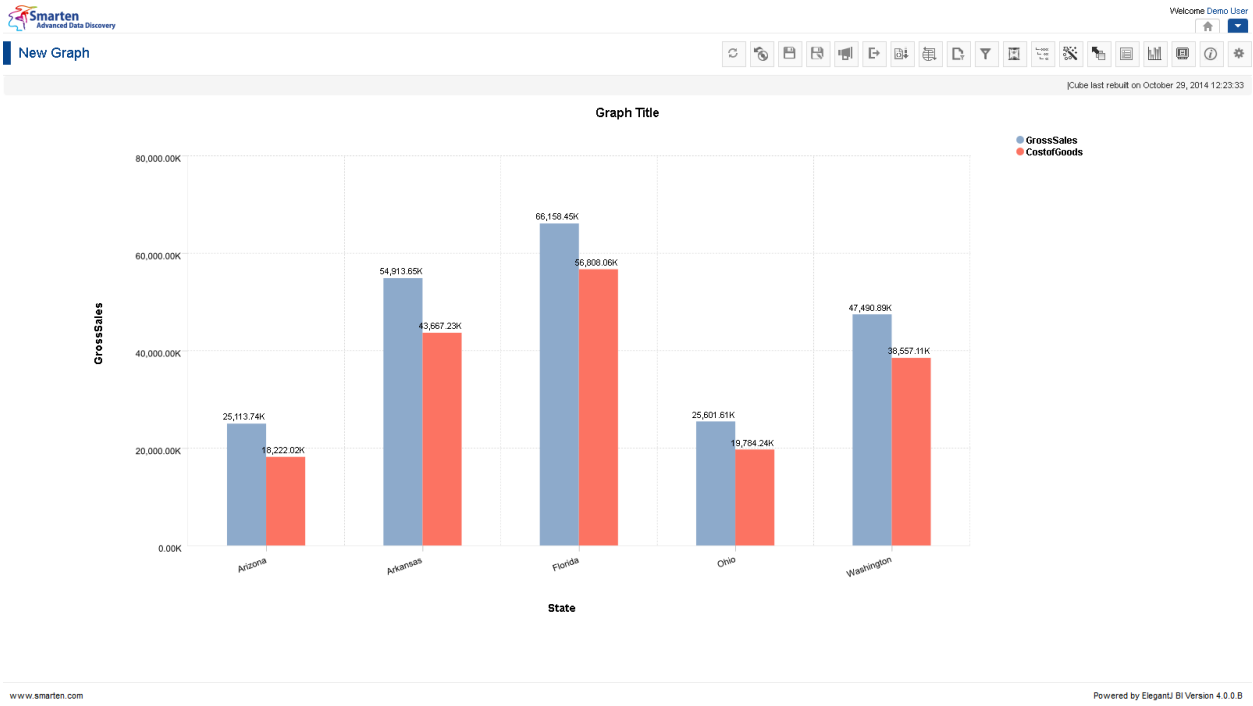
Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the Graph Toolbar, click **Data operations.**
   The system displays the **Data operations** dialog box.

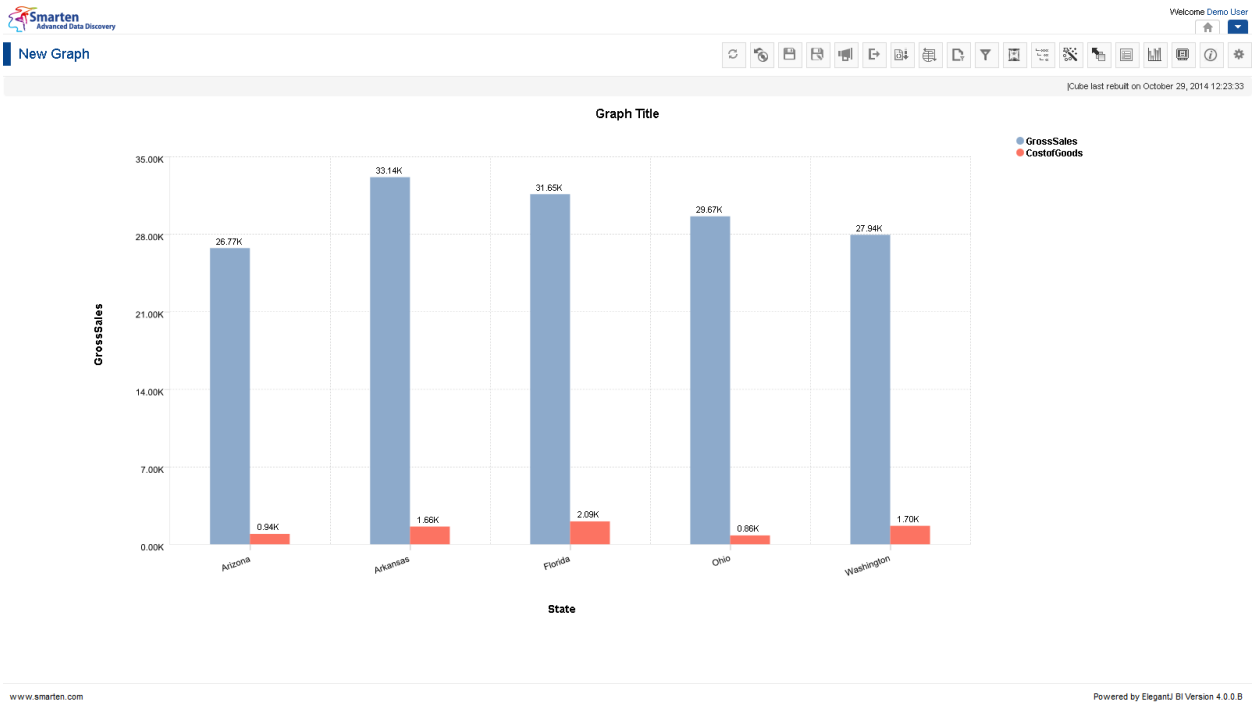


GRAPH: MULTIPLE DATA OPERATIONS

3. In the **Data operations** drop-down list, select the operation for different **Measures** from the drop-down list. For example, select **Sum** operation for **GrossSales** and **Average** operation for **CostofGoods**.
4. Click **OK** to set the data operation.



GRAPH: BEFORE DATA OPERATION



GRAPH: AFTER DATA OPERATION ON MULTIPLE MEASURES

Reference: **Concept Manual > Analytic Functions > Data Operations**

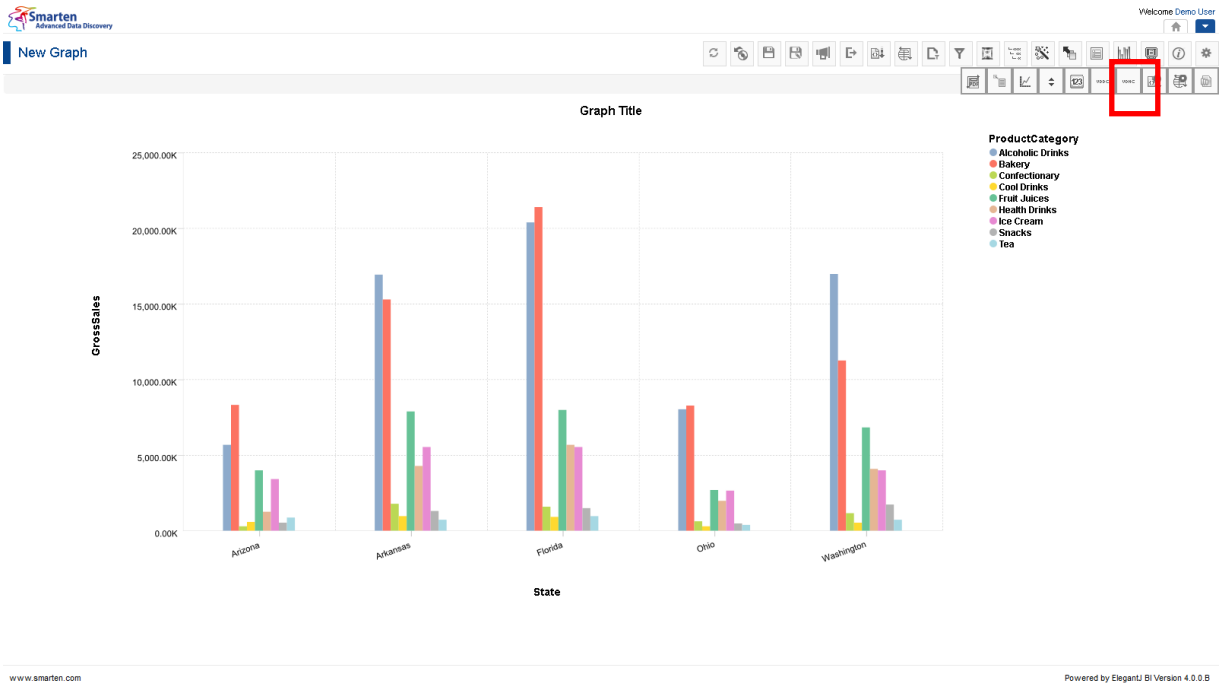
Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

You can select from available data operations:

- **Sum:** Total/Sum of all values across row or column in the analysis
- **Average:** Average of all values at the cube record level
- **Effective Average:** Average of all "not null" values at the cube record level
- **Count:** Count of all values at cube record level
- **Effective count:** Count of all not null value at cube record level
- **Maximum:** Greatest among all the values at cube record level
- **Minimum:** Lowest among all the values at cube record level
- **First:** First among all the values at cube record level
- **Last:** Last among all the values at cube record level
- **Row Percentage:** Percentage value against row level summary within the same row
- **Row Group Percentage:** Percentage value against row group level summary (within the same group)
- **Column Percentage:** Percentage value against column level summary within the same column
- **Column Group Percentage:** Percentage value against column group level summary (within the same group)
- **Total Percentage:** Percentage value against the total cross-tab sum
- **Relative Row Difference:** Difference with respect to the previous row value
- **Relative Row Difference Percentage:** Difference with respect to the previous row value in percentage
- **Relative Row Group Difference:** Difference with respect to the previous row value (within same group)
- **Relative Row Group Difference Percentage:** Difference with respect to the previous row value (within same group) in percentage
- **Relative Column Difference:** Difference with respect to the previous column value
- **Relative Column Difference Percentage:** Difference with respect to the previous column value in percentage
- **Relative Column Group Difference:** Difference with respect to the previous column value (within the same group)
- **Relative Column Group Difference Percentage:** Difference with respect to the previous column value (within the same group) in percentage
- **Row Cumulative Sum:** Row-wise cumulative sum of all previous values for every column
- **Column Cumulative Sum:** Column wise cumulative sum of all previous values for every row
- **Row Group Cumulative Sum:** Row-wise cumulative sum of all previous values for every column (within the same group)
- **Column Group Cumulative Sum:** Column wise cumulative sum of all previous values for every row (within the same group)
- **Distinct Count:** – Unique (Distinct) count value of specified dimension
- **Distinct Sum:** Sum of Unique (Distinct) values of specified dimension
- **Distinct Average:** Average of Unique (Distinct) values of specified dimension
- **Least Recent:** Least recent of all values
- **Most Recent:** Most recent of all values

5.6.15 Custom Measure (UDDC)

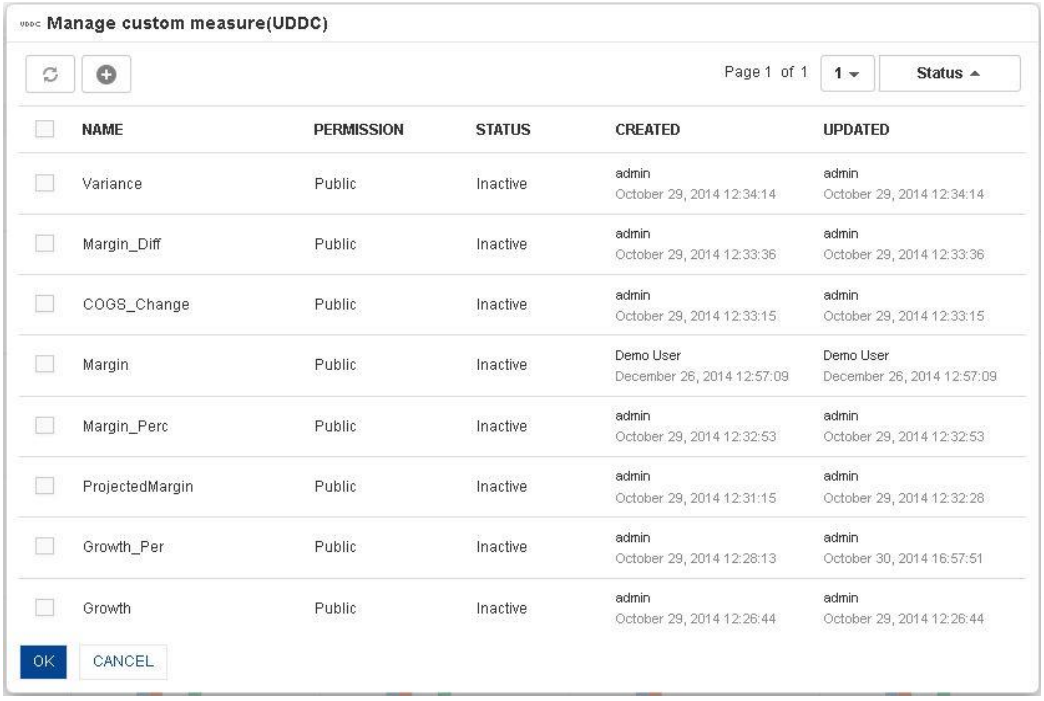
Custom measures can be created by building expression on existing columns.



GRAPH: MANAGE UDDC

Procedure

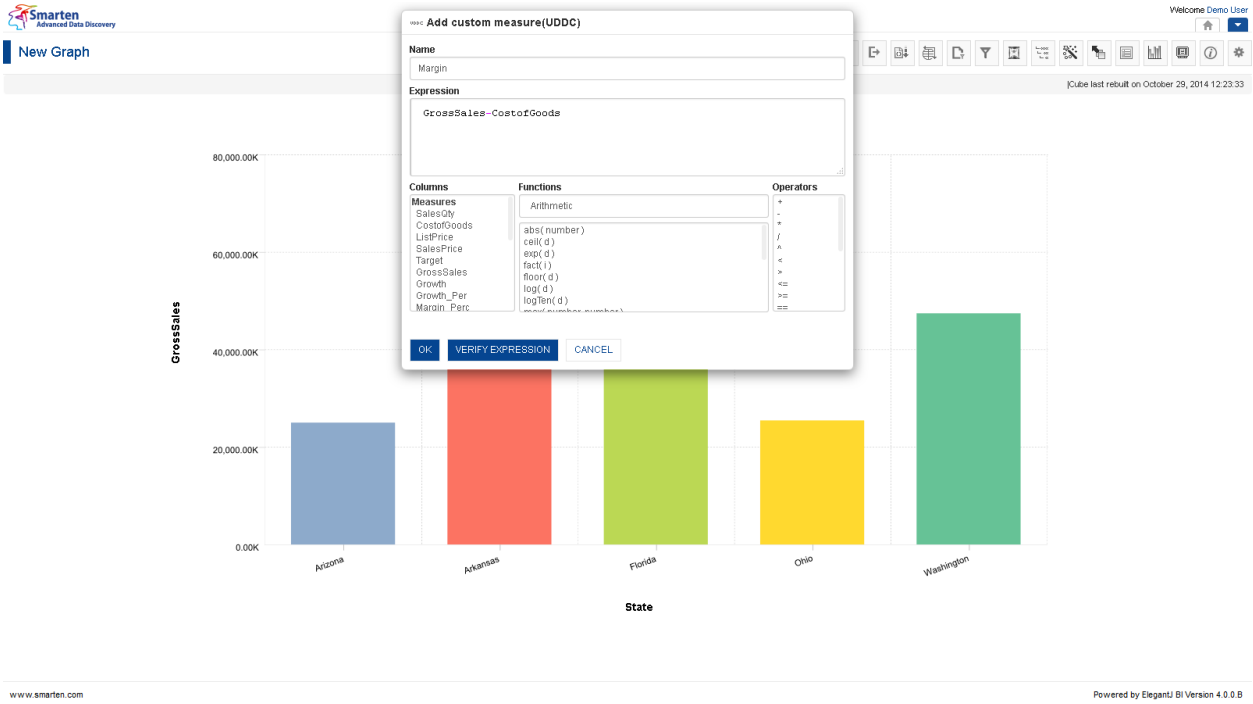
1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage UDDC.**
   The system displays the **Manage custom measure (UDDC)** dialog box.



NAME	PERMISSION	STATUS	CREATED	UPDATED
Variance	Public	Inactive	admin October 29, 2014 12:34:14	admin October 29, 2014 12:34:14
Margin_Diff	Public	Inactive	admin October 29, 2014 12:33:36	admin October 29, 2014 12:33:36
COGS_Change	Public	Inactive	admin October 29, 2014 12:33:15	admin October 29, 2014 12:33:15
Margin	Public	Inactive	Demo User December 26, 2014 12:57:09	Demo User December 26, 2014 12:57:09
Margin_Perc	Public	Inactive	admin October 29, 2014 12:32:53	admin October 29, 2014 12:32:53
ProjectedMargin	Public	Inactive	admin October 29, 2014 12:31:15	admin October 29, 2014 12:32:28
Growth_Per	Public	Inactive	admin October 29, 2014 12:28:13	admin October 30, 2014 16:57:51
Growth	Public	Inactive	admin October 29, 2014 12:26:44	admin October 29, 2014 12:26:44

GRAPH: CREATE AND MANANGE CUSTOM MEASURE (UDDC) TEMPLATE

4. In the **Manage custom measure (UDDC)** dialog box, click **Add** icon.
   The system displays the **Add custom measure (UDDC)** dialog box.

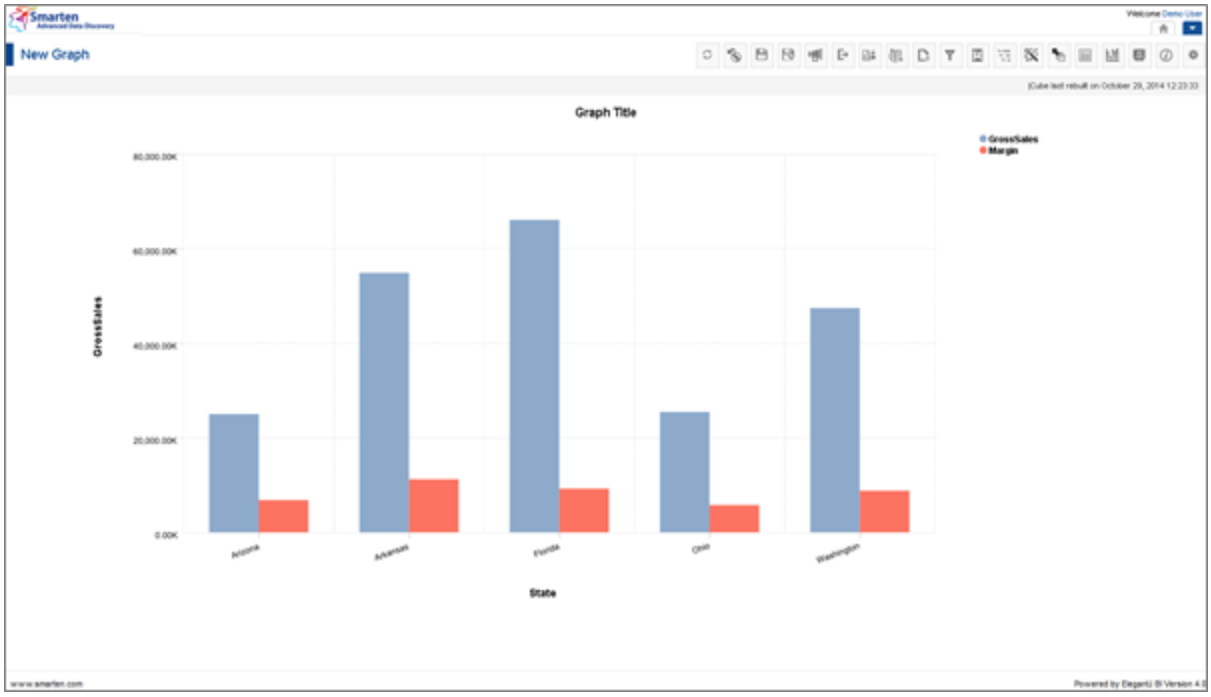


GRAPH: ADD CUSTOM MEASURES (UDDC)

5. In the **Name** field, enter a name.
6. You can create or edit expression by direct edit in the **Expression** box or by selecting values from Dimension Values, Functions, and Operators boxes.
7. Click **OK**.

Field	Description
Name	Shows Custom Measures (UDDC) Name
Source Columns	Displays list of source columns
Functions	Select Functions from available list
Operators	Select any operator
Expression Builder	Created expression is displayed

TABLE: GRAPH: CUSTOM MEASURES (UDDC)



GRAPH: WITH CUSTOM MEASURE (UDDC) MARGIN

Reference: **Concept Manual > Designing the Data Model > Cube Repository Objects > Custom Measures (UDDC)**

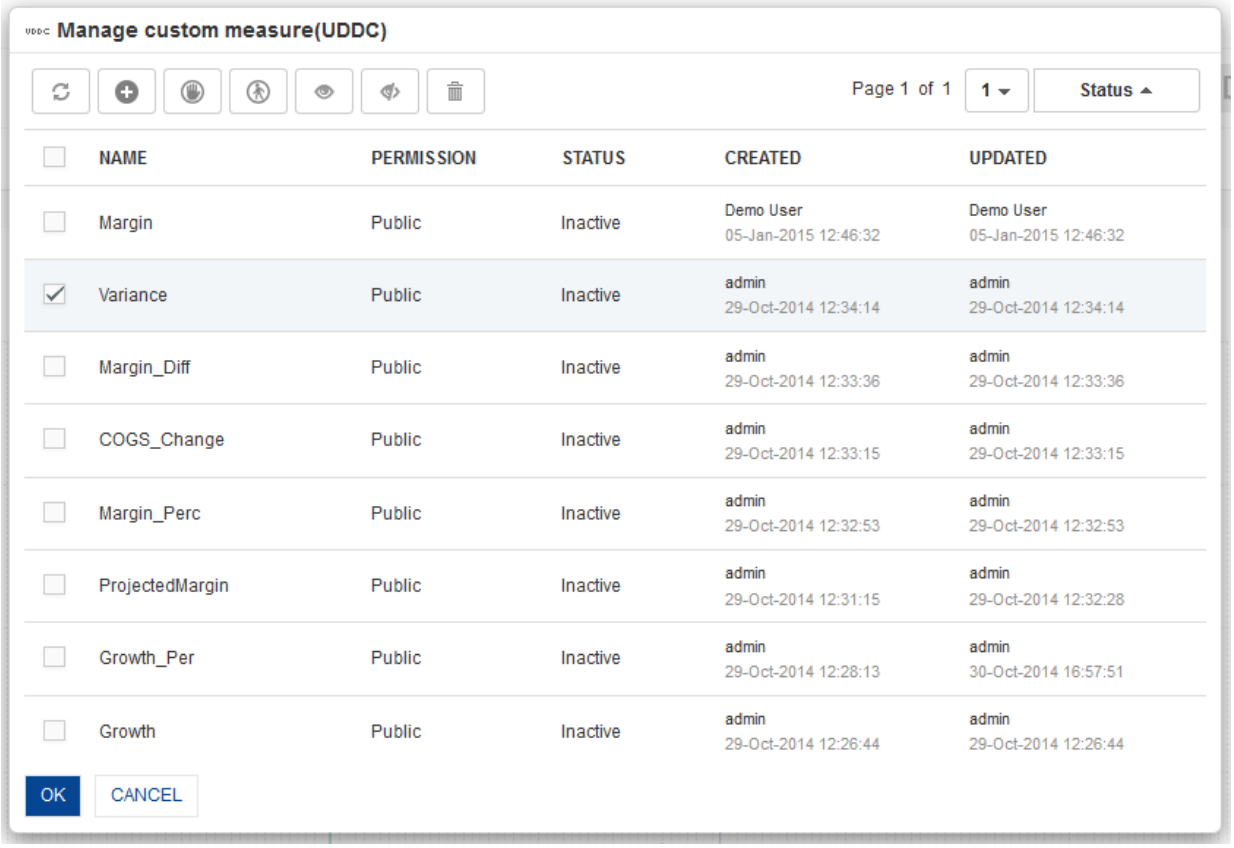
Reference: **Concept Manual > Analytic Functions > UDDC & UDHC > Custom Measures (UDDC)**

5.6.15.1 Create & Manage Templates

The Custom Measures (UDDC) operation used in graph is available as templates in Smarten. The Custom Measure (UDDC) available in templates can be reused by various users while creating different analysis objects such as crosstab or tabular.

Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage UDDC.**
   The system displays the **Manage custom measure (UDDC)** dialog box.
4. In the **Manage custom measure (UDDC)** dialog box, select a checkbox in front of a custom measure name.
   The system displays a toolbar for managing custom measure (UDDC) template.



GRAPH: MANAGE CUSTOM MEASURE (UDDC) TEMPLATE

GRAPH: MANAGE CUSTOM MEASURE (UDDC) TEMPLATE TOOLBAR

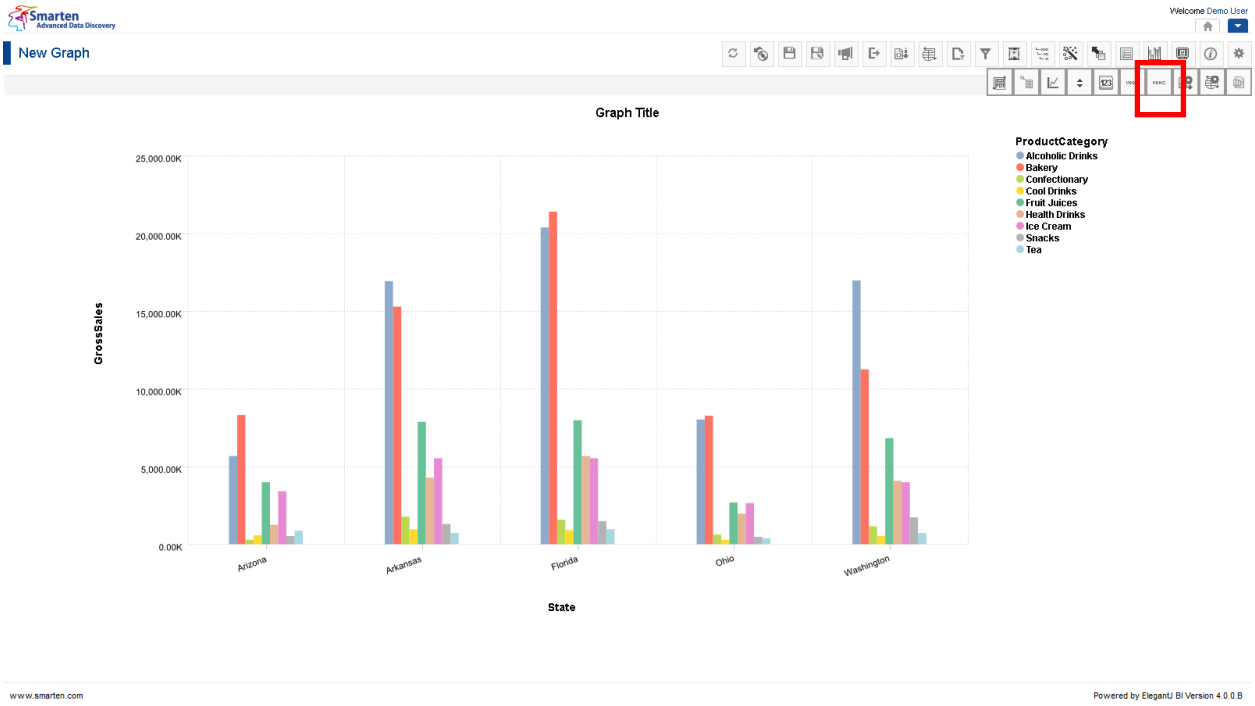
Icon	Icon name
	Refresh
	Add
	Private
	Public
	Active
	Inactive
	Delete

GRAPH: CUSTOM MEASURE (UDDC) TEMPLATE TOOLBAR OPTIONS

Note:
Templates can be edited or deleted only by creator of the template or the administrator.

5.6.16 Custom Dimension Value (UDHC)

A Custom dimension can be created by applying a formula on existing dimension columns based on analysis or reporting requirements. By manipulating the existing column values, values for columns can be derived.

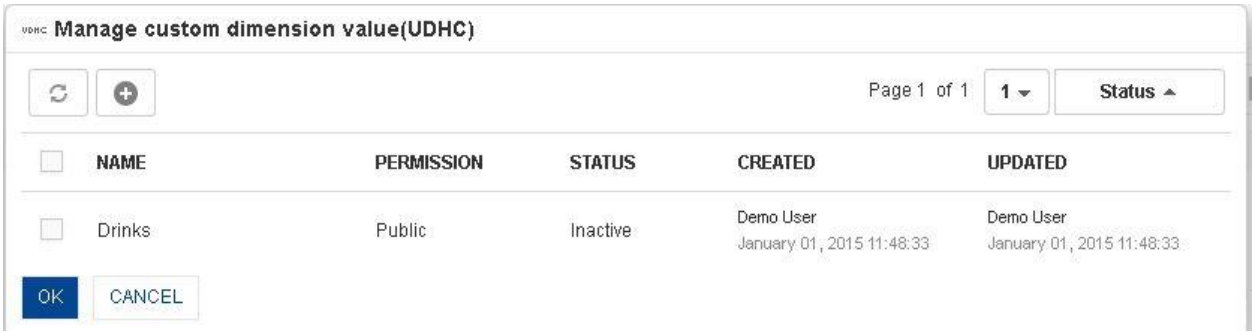


GRAPH: MANAGE UDHC

Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage UDHC.**

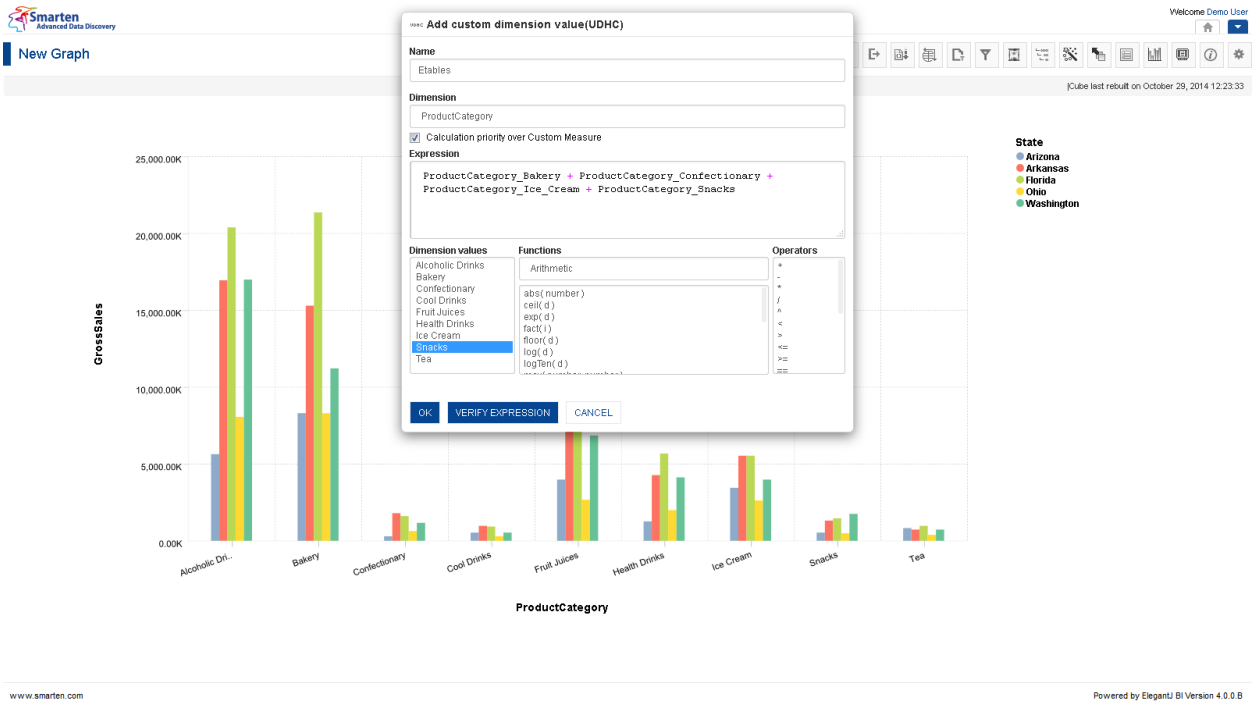
   The system displays the **Manage custom dimension value (UDHC)** dialog box.



GRAPH: CREATE AND MANAGE CUSTOM DIMENSION VALUE (UDHC) TEMPLATE

4. In the **Manage custom dimension value (UDHC)** dialog box, click **Add** icon.
   The system displays the **Add custom dimension value (UDDC)** dialog box.

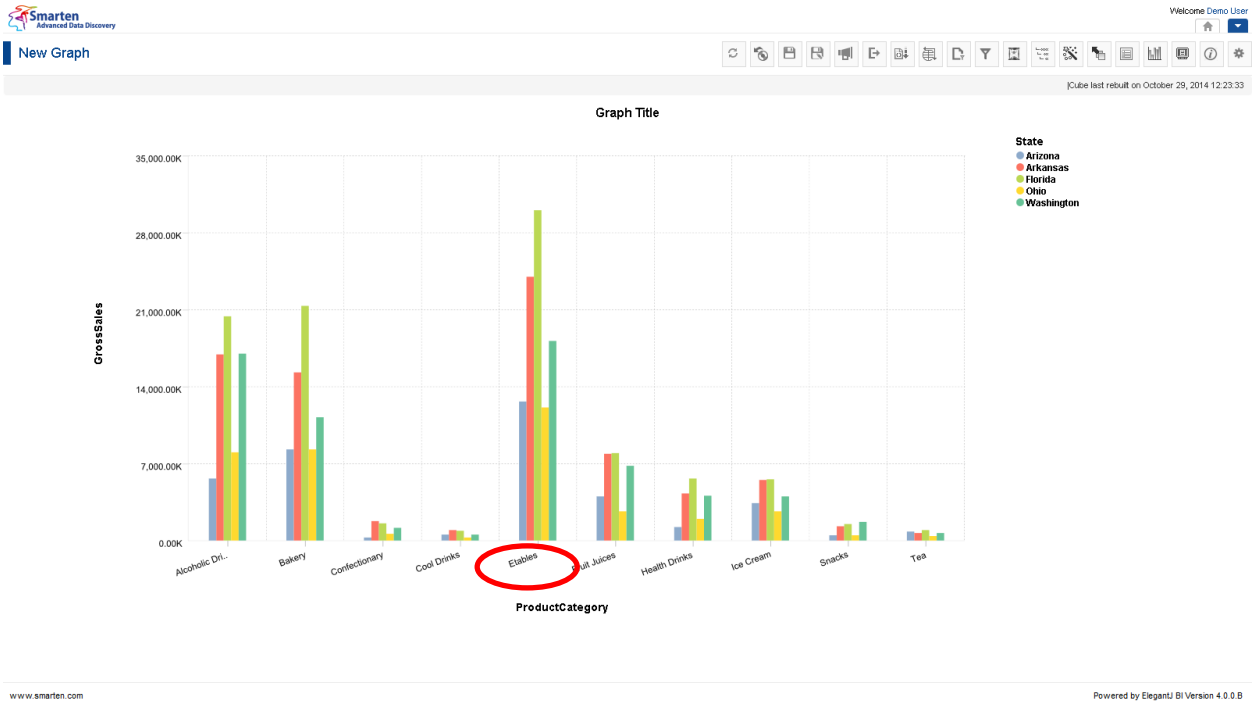
The following example shows how a **Custom Dimension value (UDHC)** column **Eatables** can be added that groups Product Category namely, **Bakery**, **Confectionary**, **Ice Cream,** and **Snacks**.



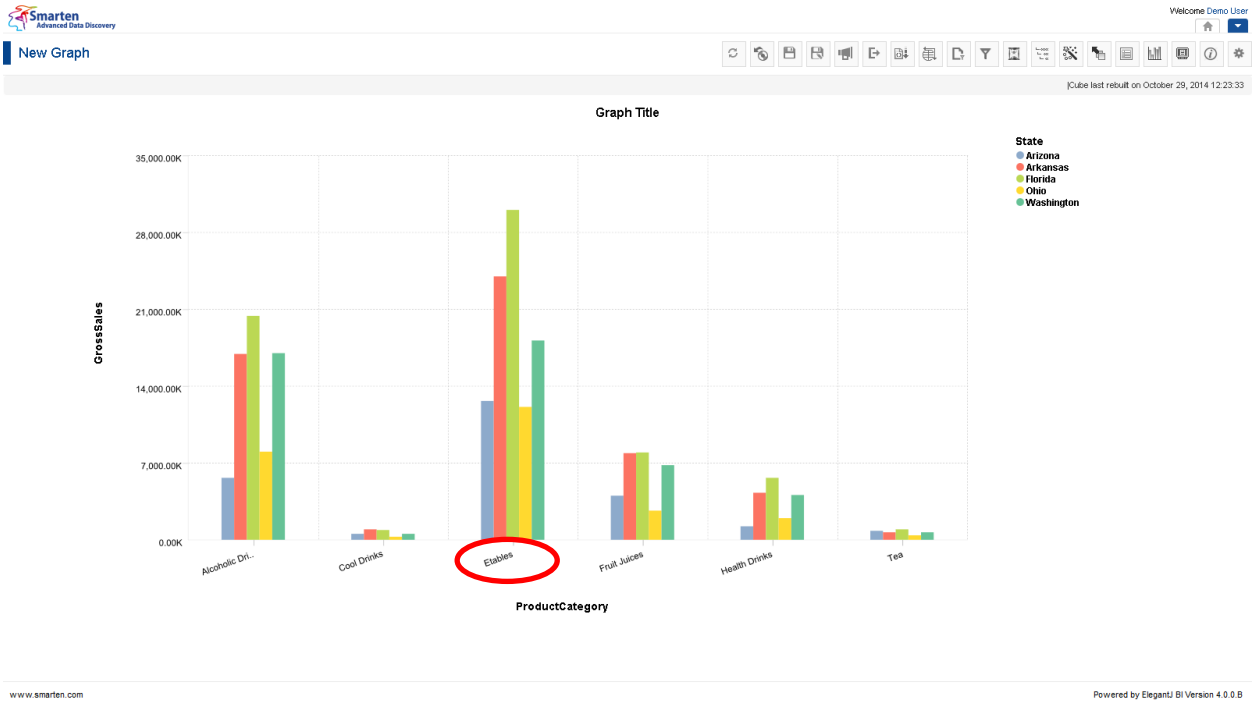
GRAPH: ADD CUSTOM DIMENSION VALUE (UDHC)

5. In the **Name** field, enter a name.
6. In the **Dimension** field, select a column.
7. Select **Calculation priority over Custom Measure** checkbox.
8. Double-click on the **Dimension** list and select columns, e.g., **ProductCategory_Bakery, ProductCategory_Confectionary, ProductCategory_Ice_Cream,** and **ProductCategory_Snacks.**
9. You can create or edit expression by direct edit in the **Expression** box or by selecting values from Dimension Values, Functions, and Operators boxes.
10. Click **OK**.

Field	Description
UDHC Name	Name of UDHC Template
Dimension	Displays list of dimensions
Dimension values	Displays list of values of selected dimension
Functions	Select Functions from available list
Operators	Select any operator
Expression Builder	Created expression is displayed



GRAPH: WITH CUSTOM DIMENSION VALUE (UDHC): EATABLES



GRAPH: AFTER HIDING SOURCE VALUES OF CUSTOM DIMENSION VALUE

Reference: **Concept Manual >Designing the Data Model >Cube Repository Objects > Custom Dimension Value (UDHC)**

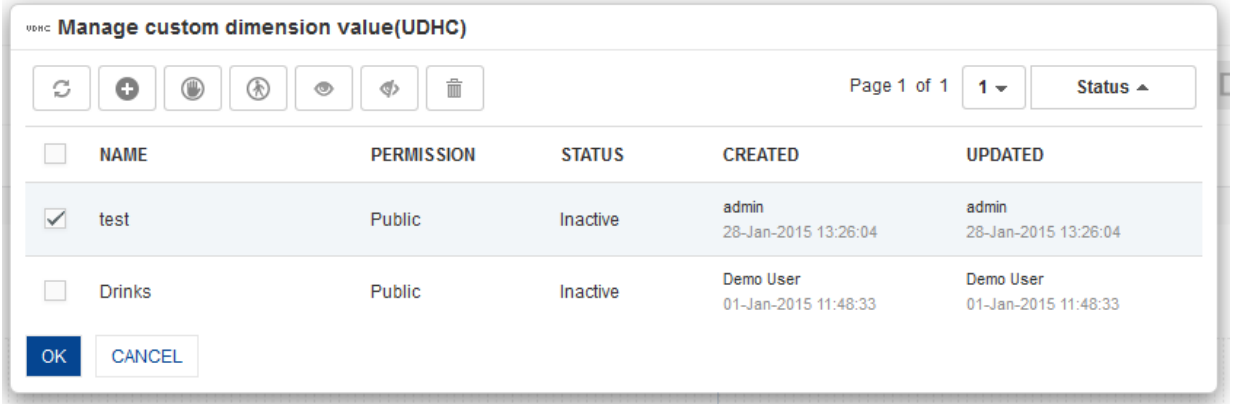
Reference: **Concept Manual > Analytic Functions > UDDC & UDHC > Custom Dimension Value (UDHC)**

5.6.16.1 Create & Manage Templates

Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage UDHC.**
   The system displays the **Manage custom dimension value (UDHC)** dialog box.
4. In the **Manage custom dimension value (UDHC)** dialog box, select a checkbox in front of a custom dimension value name.

   The system displays a toolbar for managing custom dimension value (UDDC) template.



GRAPH: CUSTOM DIMENSION VALUE (UDHC) TEMPLATE

GRAPH: CUSTOM DIMENSION VALUES (UDHC) TEMPLATE TOOLBAR

Icon	Icon name
	Refresh
	Add
	Private
	Public
	Active
	Inactive
	Delete

GRAPH: MANAGE CUSTOM DIMENSION VALUE (UDHC) TEMPLATE TOOLBAR OPTIONS

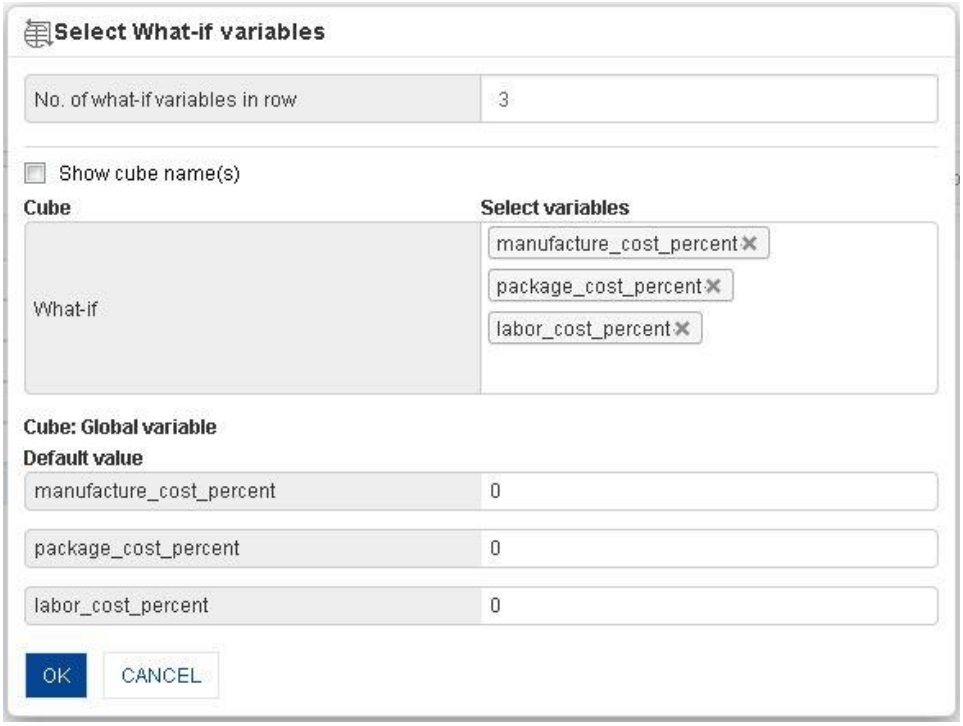
> Note:
> Templates can be edited or deleted only by creator of the template or the administrator.

5.6.17 What-if Variables

Global variables used in Custom measures can be selected as what-if variables as per analysis or reporting requirements

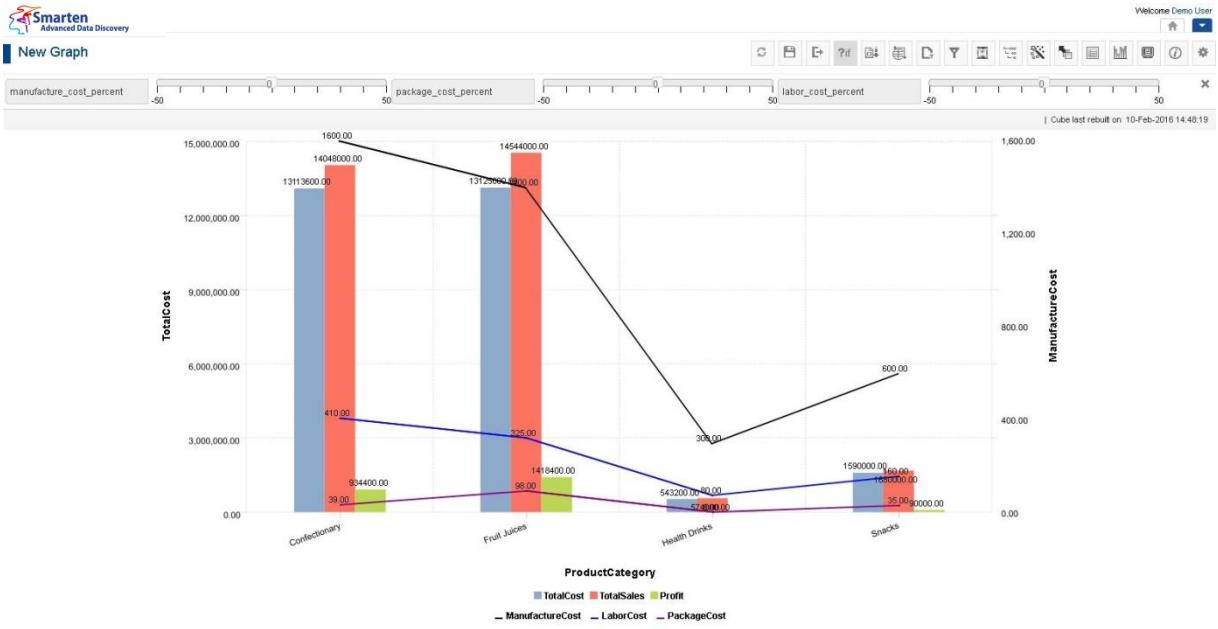
Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Select What-if variables.**
   The system displays the **Select What-if variables** dialog box.
4. In the **No. of what-if variables in row** field, enter a value

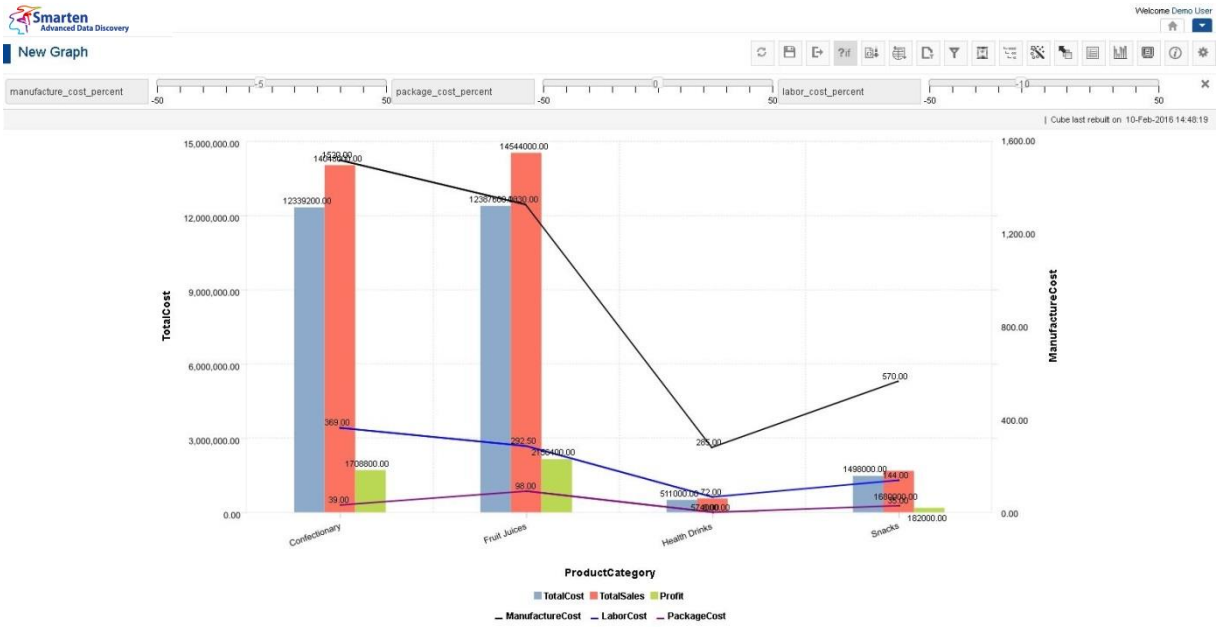


GRAPH: MANAGE WHAT-IF VARIABLES: SELECTING WHAT-IF VARIABLES

5. In the **Select What-if variables** dialog box, select variables from list of value.
   The system displays selected global variables with default value.



WHAT-IF ANALYSIS BEFORE CHANGEING WHAT-IF VARIABLE VALUE



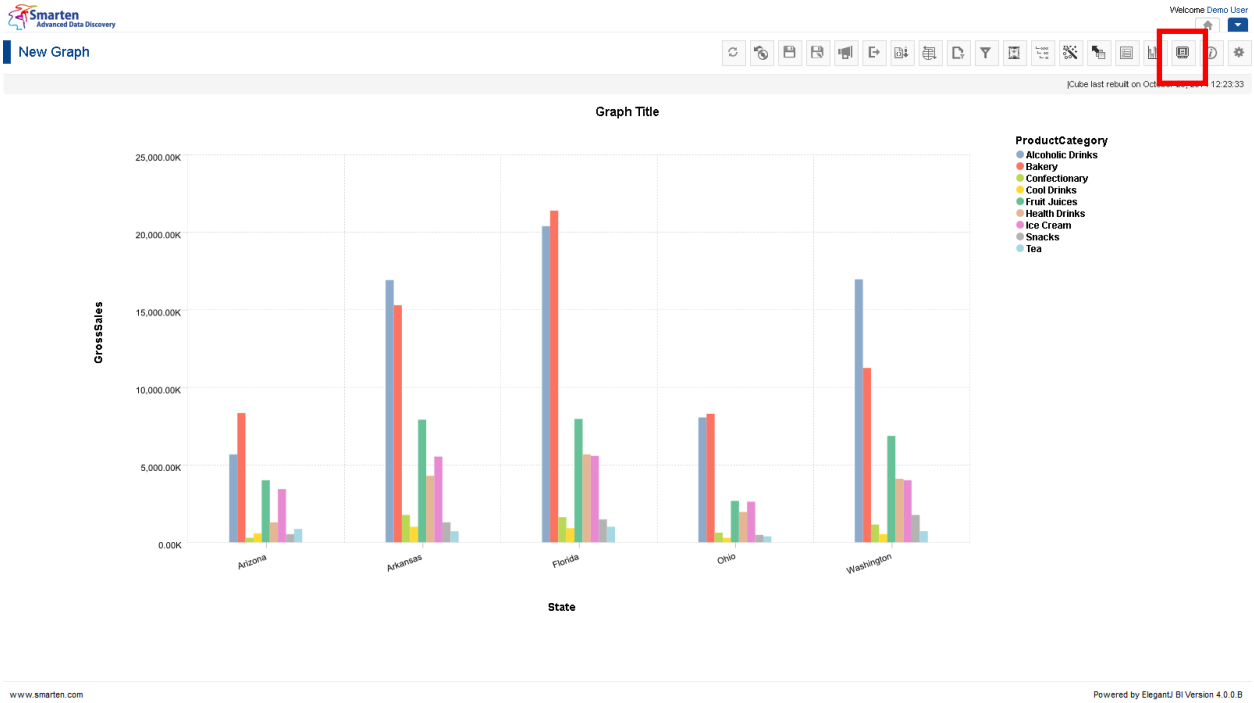
WHAT-IF ANALYSIS AFTER CHANGEING WHAT-IF VARIABLE VALUE

Reference: **Concept Manual > Analytic Functions > What-if Analysis**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

5.6.18 Show Graph Data in Grid

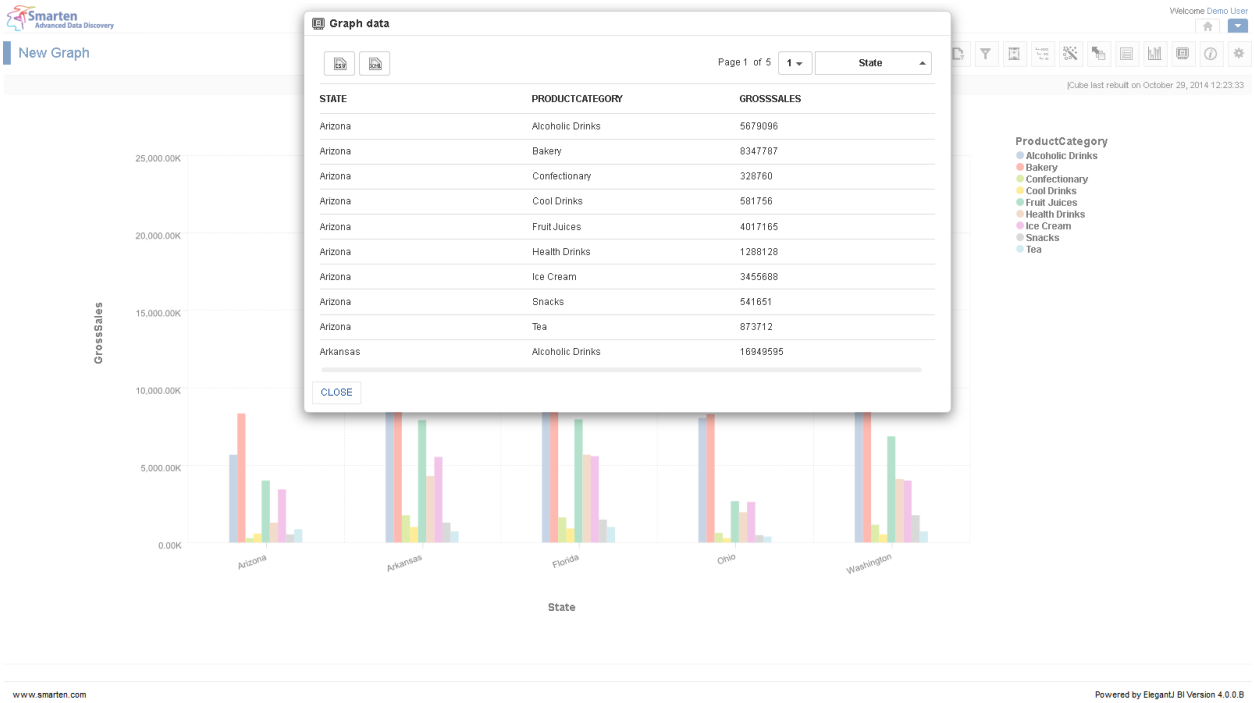
This option is used to view data of graph.



GRAPH: GRAPH DATA ICON

Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the Graph Toolbar, click **Graph data.**
   The system displays the **Graph data** dialog box.



GRAPH: GRAPH DATA

3. In the **Graph data** dialog box, click **CSV** icon to export data into CSV format or **XML** icon to export data into XML format.

GRAPH: GRAPH DATA DIALOG TOOLBAR

Icon	Icon name
	CSV export
	XML export
Page 1 of 18 1	Page navigation
Date	Sorting on column

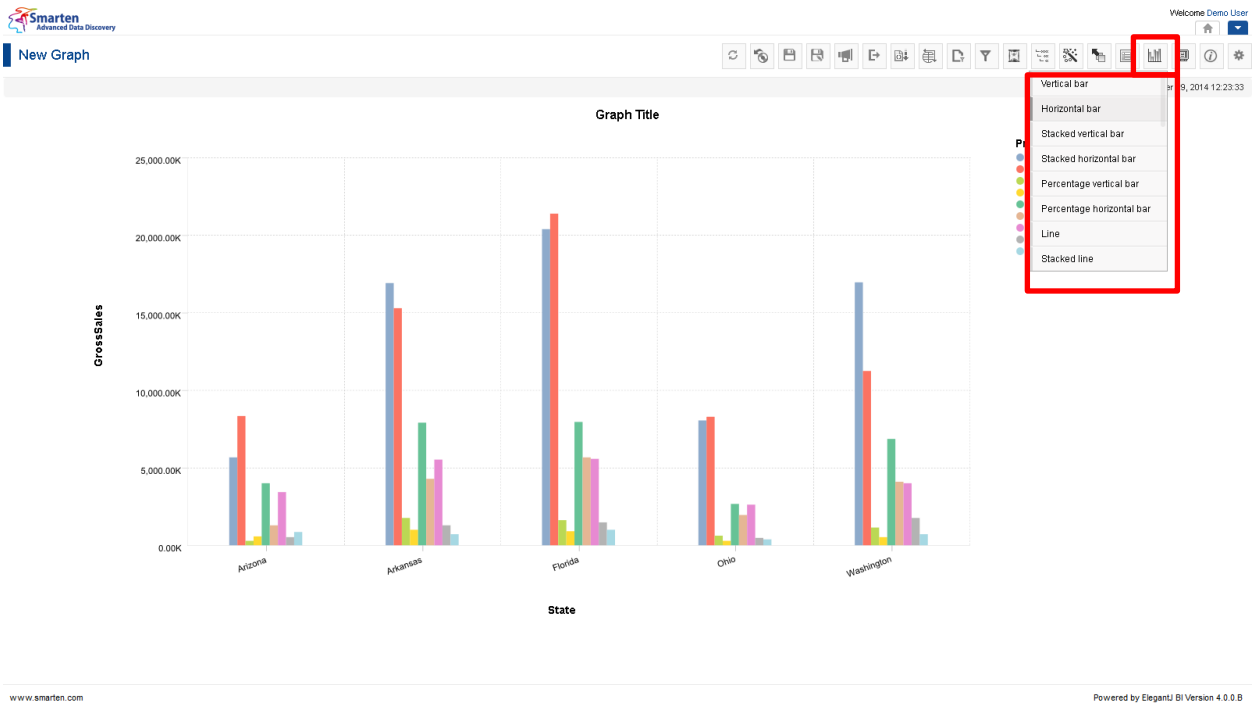
GRAPH: GRAPH DATA DIALOG OPTIONS

5.6.19 Changing Graph Type

You can change graph types on the fly. This option is used to view the different types of graphs.

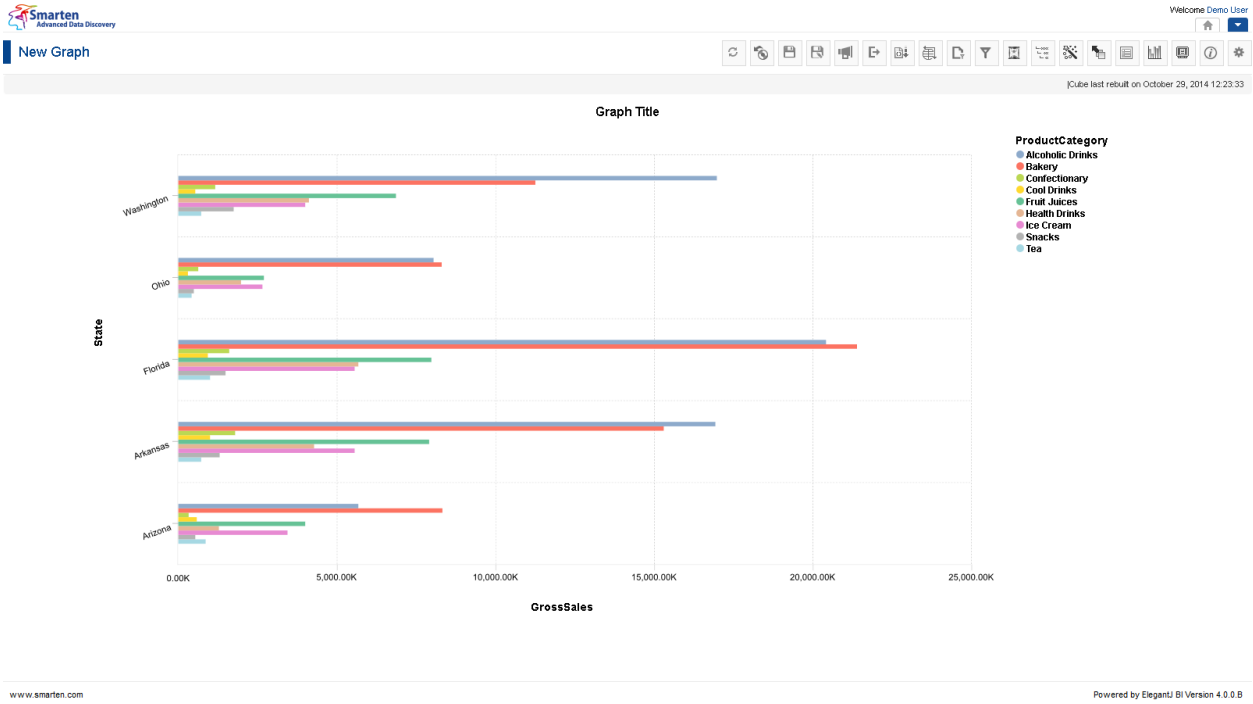
Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the Graph Toolbar, click **Graph type.**
   The system displays the **Graph type** menu with a list of graph types.



GRAPH: CHANGING GRAPH TYPE

3. From the **Graph type** menu, select a graph type.
   The system displays the selected graph type in the graph area.



GRAPH: AFTER CHANGING GRAPH TYPE

Reference: **User Manual > Working with Graph > Understanding Graph Types**

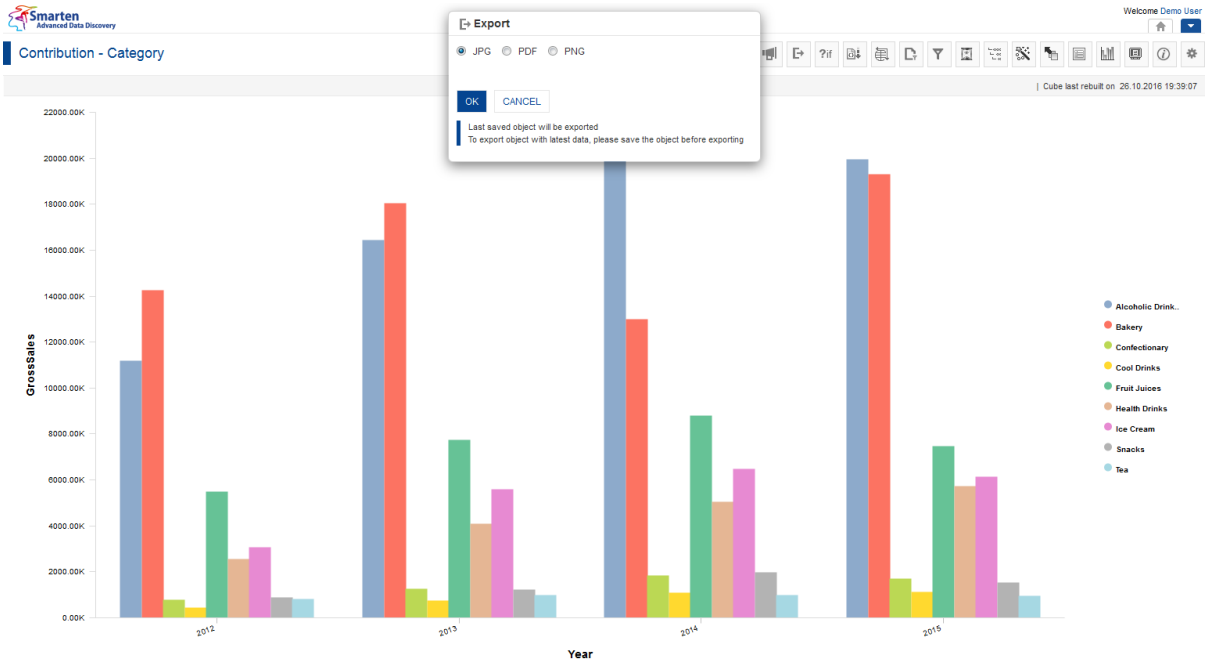
> Note:
> Different graph types render differently based on outliner settings. While changing from one graph to another, some outliner settings may not be relevant. For example, you have created a graph that supports multiple measures (e.g., bar chart). Now, you switch to another graph type that does not support multiple measures (e.g., radar chart). In this case, the system will display the new graph type and show outliner settings with multiple measures, but it will not be able to show multiple measures on graph.

5.6.20 Export Graphs

This option is used to export a graph data to PDF, PNG, and JPG file formats.

Procedure

1. In the **Repository**, open graph.
   The system displays the graph.
2. In the Graph Toolbar, click **Export.**
   The system displays the **Export** dialog box.
3. Select the desired radio button (JPG, PDF, or PNG).
4. Click **OK.**



GRAPH: EXPORT ICON & DIALOG

5.6.21 Save Graphs

You have the following functions to save graphs:

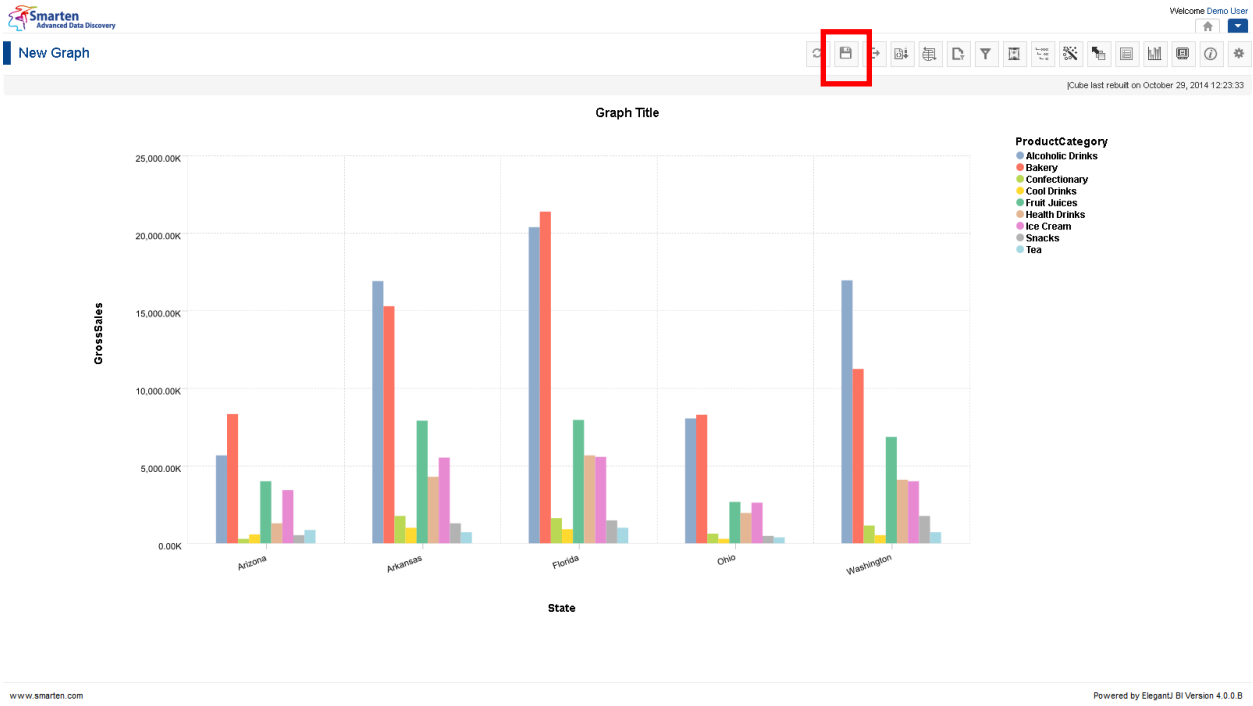
- Save
- Save As

5.6.21.1 Save

You can either create and save a new graph or modify and save an existing graph.

Procedure

1. In the **Repository**, open graph.
   The system displays the graph.
2. In the Graph Toolbar, click **Save.**
   The system saves the selected graph.



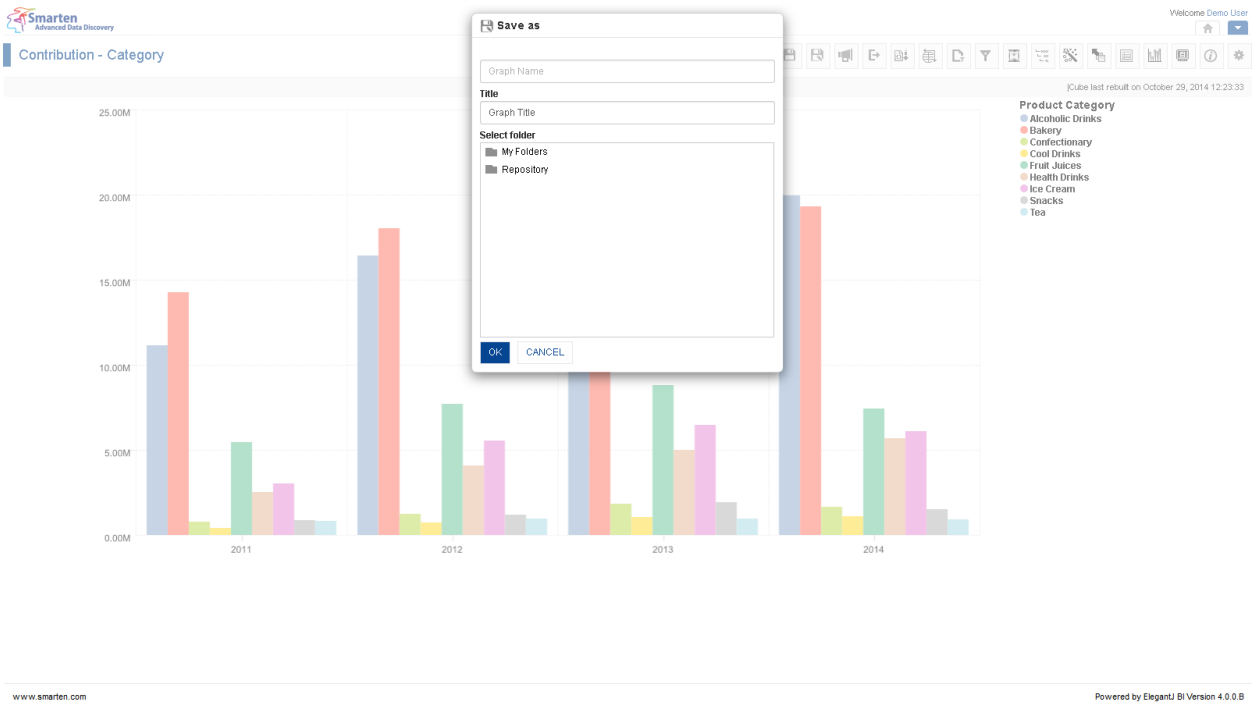
GRAPH: SAVE

5.6.21.2 Save As

You can use this option to save a copy of an existing graph with a new name.

Procedure

1. Follow the **Procedure** of **Save** given above or open an existing graph.
2. In the Graph Toolbar, click **Save as.**
   The system displays the **Save as** dialog box.



GRAPH: SAVE AS DIALOG

3. In the **Name** field, enter a name.
4. In the **Title** field, enter a title.

5. In the **Select Folder** box, choose a folder.
6. Click **OK.**

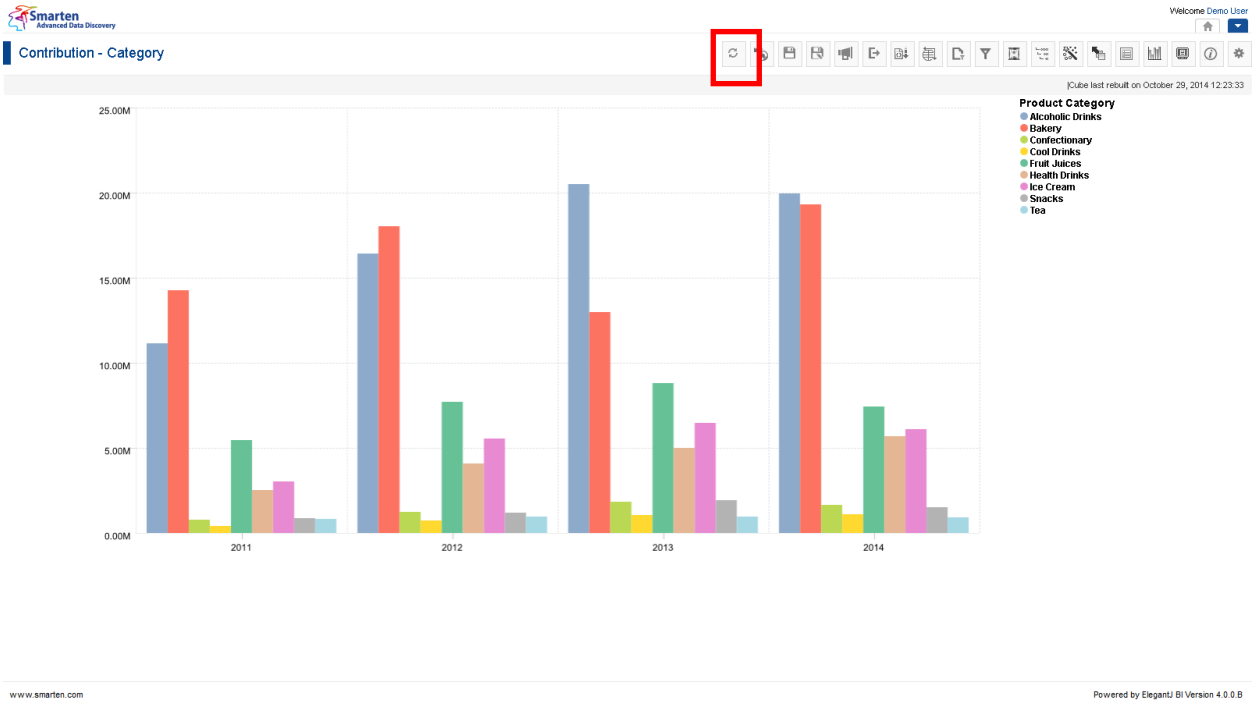
   The system creates a copy of an existing graph with a new name.

5.6.22 Refresh Graphs

This option is used to update graphs in Smarten. Refresh will query source data and load graph with new data again.

Procedure

1. In the **Repository**, open graph.
2. The system displays the graph.
   In the Graph Toolbar, click **Refresh.**



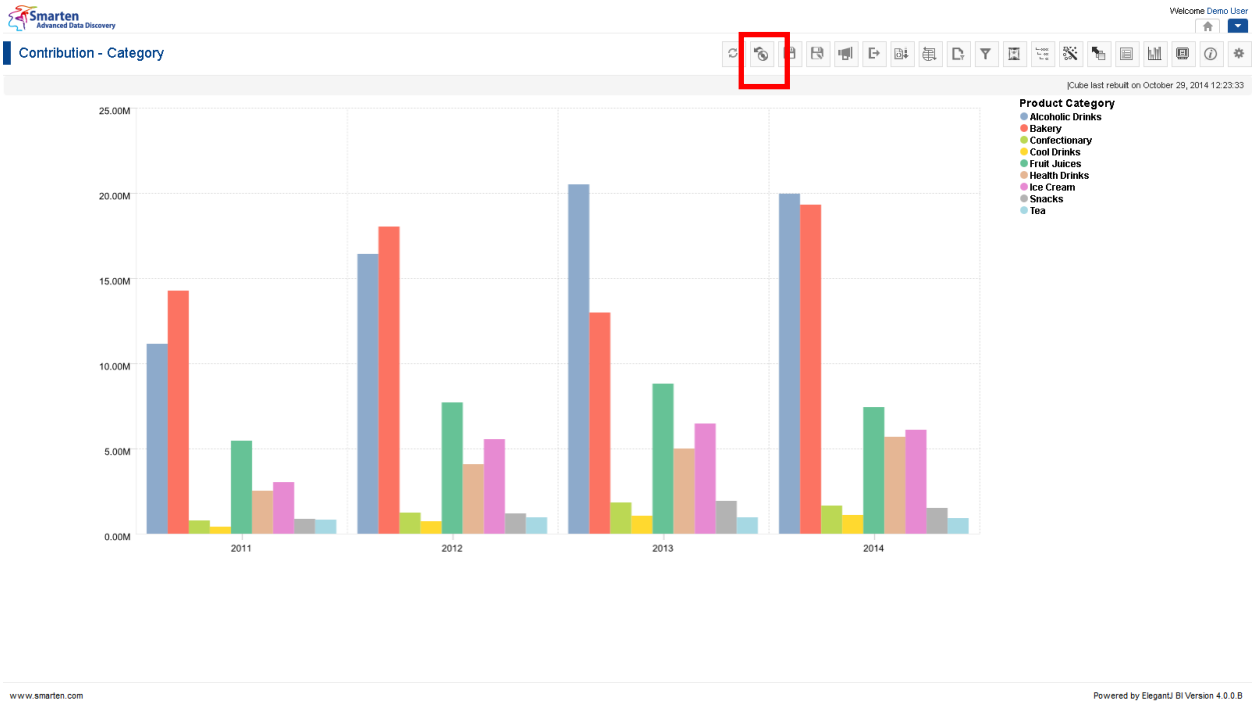
GRAPH: REFRESH ICON

5.6.23 Restore Graphs

This option is used to restore graphs in Smarten. Restore will restore the graph settings as per the last saved version. It will not query source data.

Procedure

1. In the **Repository**, open graph.
2. The system displays the graph.
   In the Graph Toolbar, click **Restore.**



GRAPH: RESTORE ICON

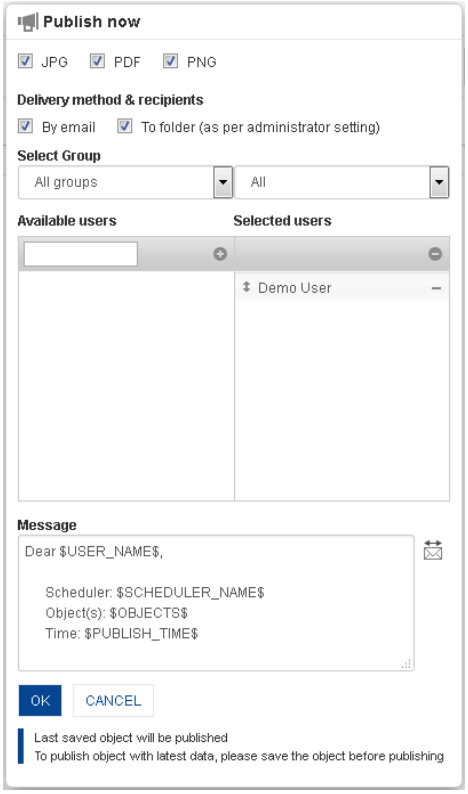
5.6.24 Publish Now

This option is used to define the graph publish settings. It is visible only after saving the graph.

GRAPH: PUBLISH NOW ICON

Procedure

1. In the **Repository**, open graph.
   The system displays the graph.
2. In the Graph Toolbar, click **Publish now.**
   The system displays the **Publish now** dialog box.

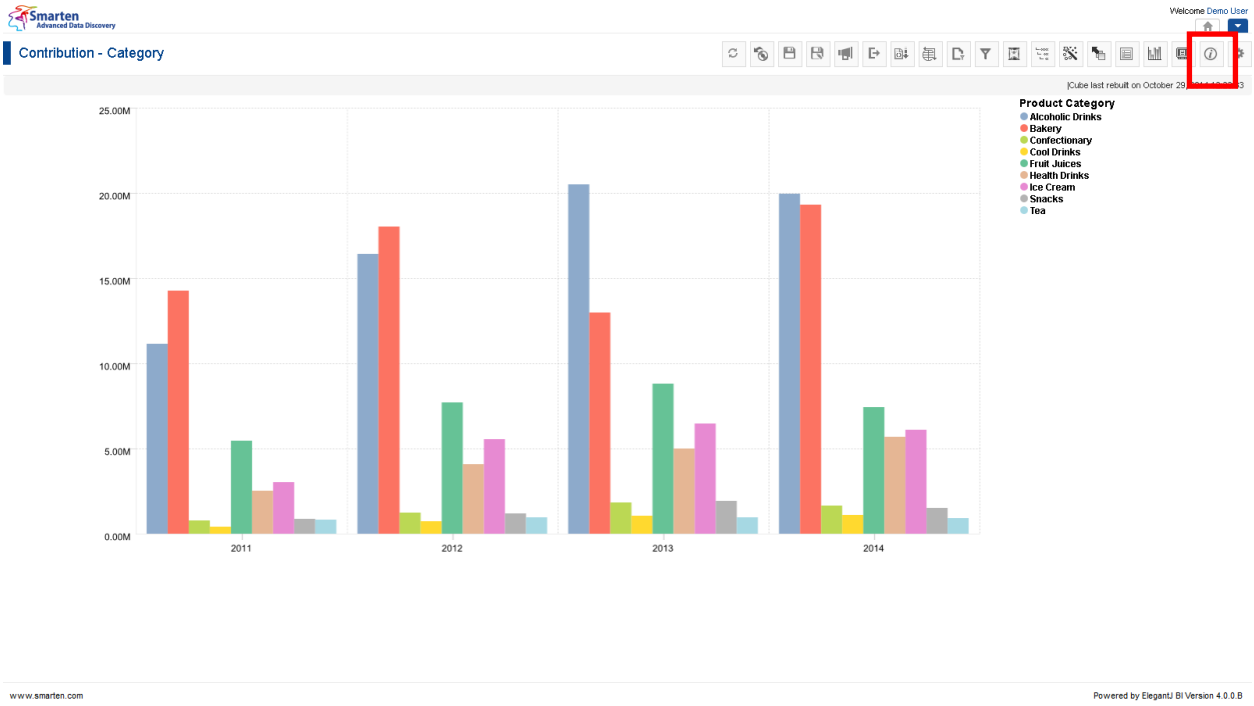


GRAPH: PUBLISH NOW SETTINGS

3. In the **Publish now** dialog box, select the checkbox to choose the output type (JPG, PNG or PDF).
4. In the **Delivery method & recipients** section, select the checkbox(es) (by email and to folder).
5. In the **Select group** section, select the group from the drop-down list.
   The system displays the list of users in the **Available users** column according to the group selected.
6. In the **Available users** column, select the users. System displays list of users as per access rights policy defined by Administrator.
   The system displays the selected users in the **Selected users** column.
7. In the **Message** box, enter the message.
8. Click **OK.**

5.6.25 Object Information

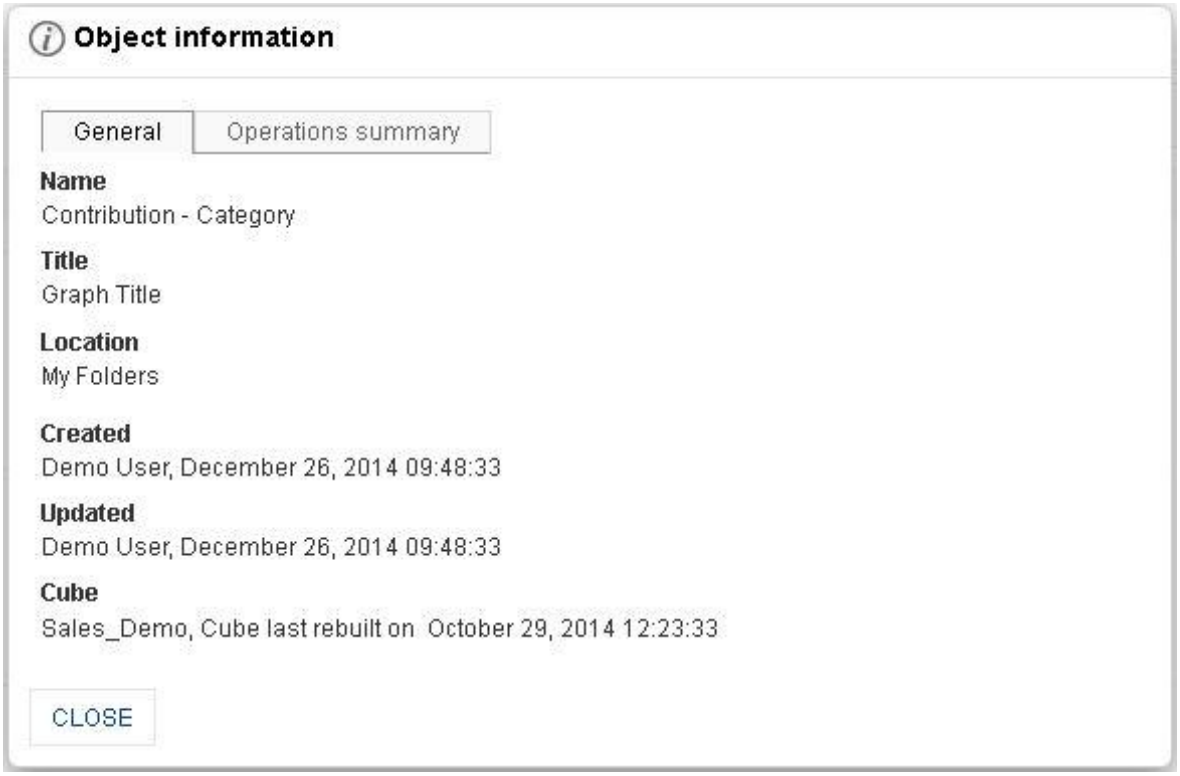
This option is used to view a summary of operations performed on a specific graph.



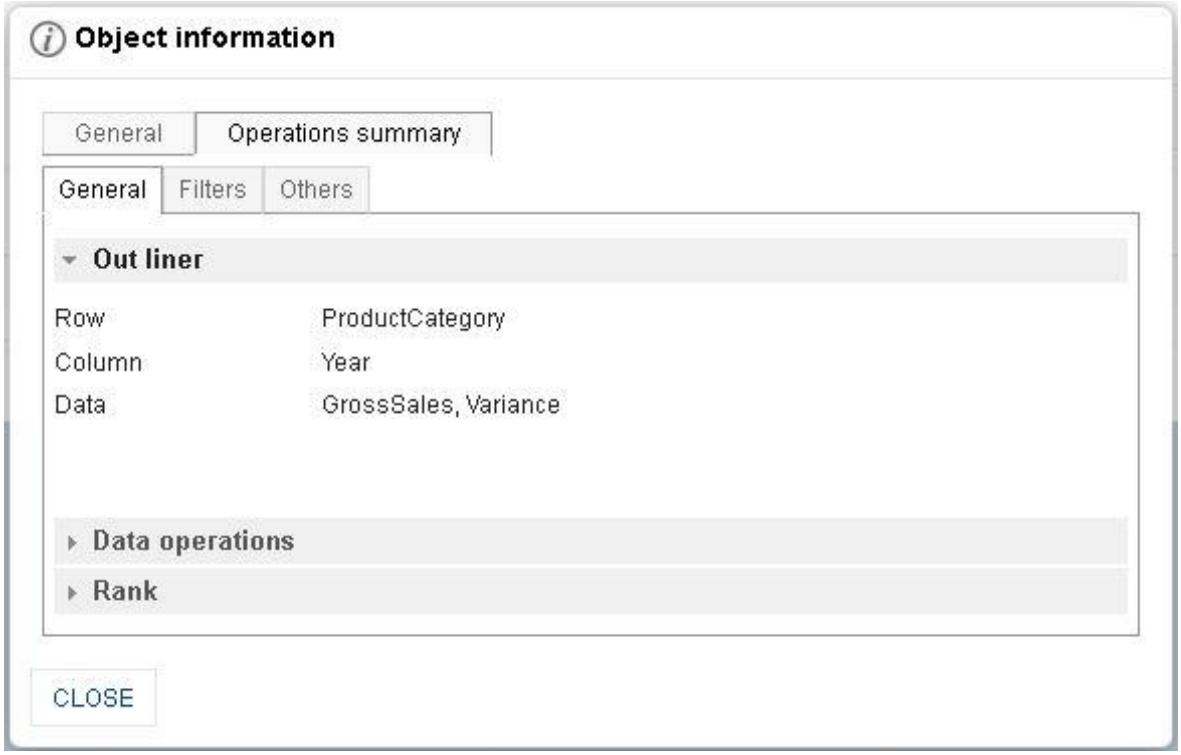
GRAPH: OBJECT INFORMATION ICON

Procedure

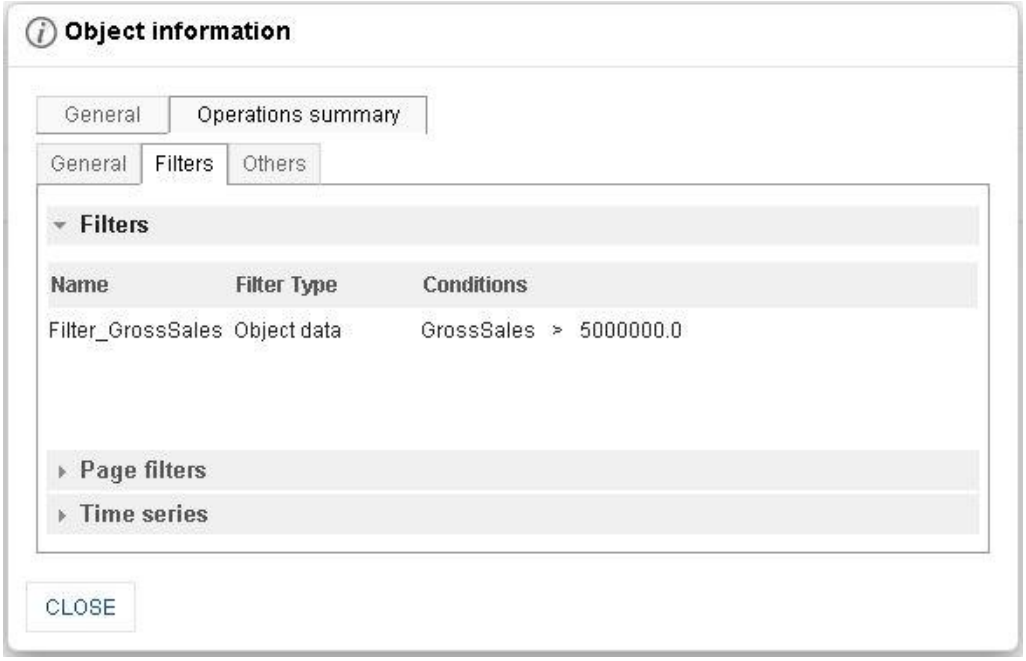
1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the Graph Toolbar, click **Object information.**
   The system displays the **Object information** dialog box with various information displayed in the two tabs, namely General and Operations summary, as shown below.



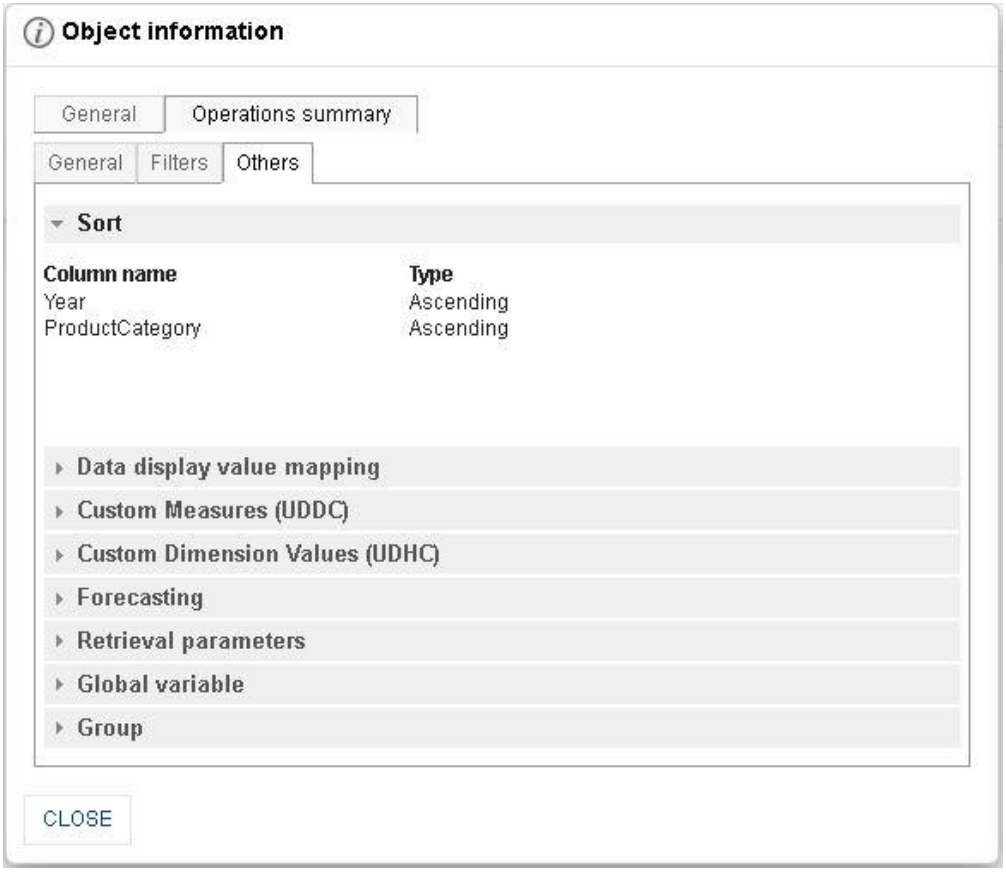
GRAPH: OBJECT INFORMATION: GENERAL TAB



GRAPH: OBJECT INFORMATION: OPERATIONAL SUMMARY: GENERAL TAB



GRAPH: OBJECT INFORMATION: OPERATIONAL SUMMARY: FILTER TAB



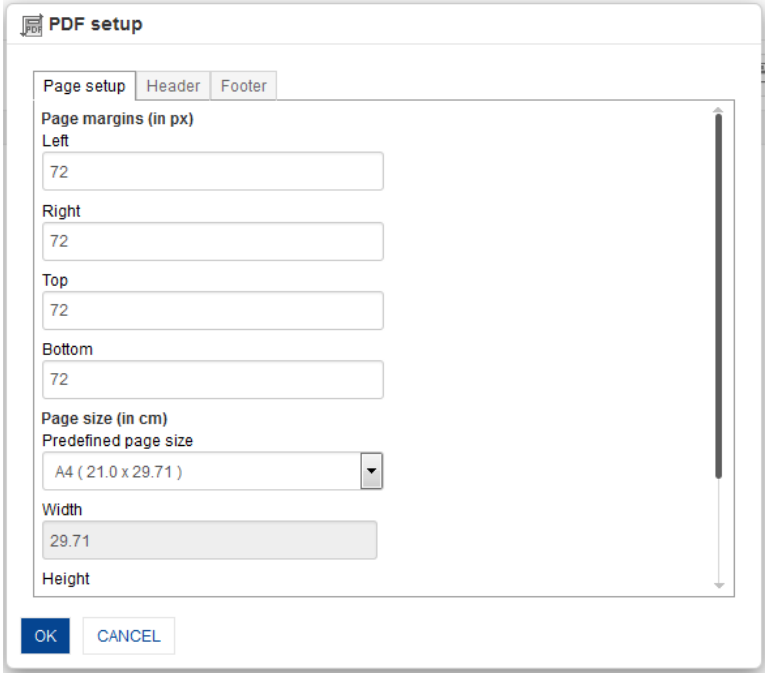
GRAPH: OBJECT INFORMATION: OPERATIONAL SUMMARY: OTHERS TAB

3. Click **Close** after viewing the information.

5.6.26 PDF Page setup

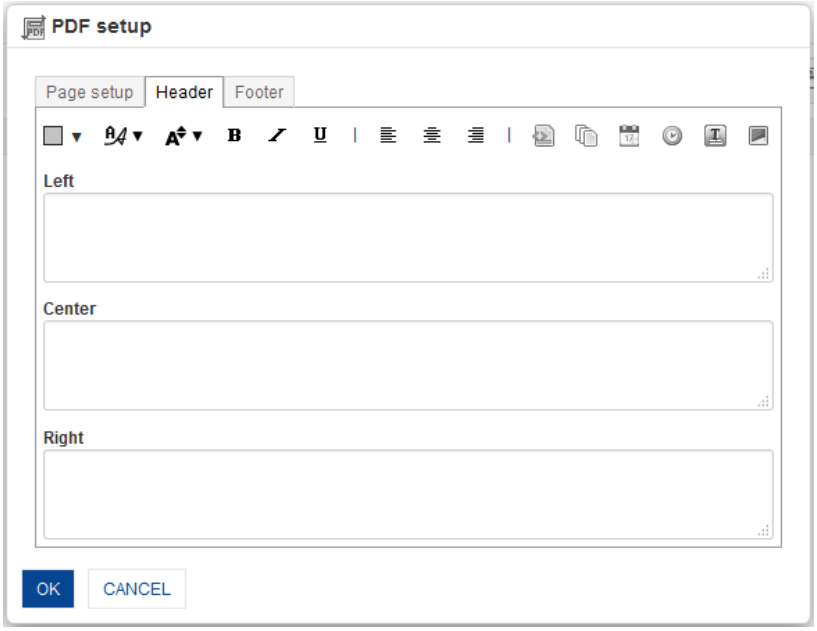
Procedure

1. In the **Repository**, open graph.
   System displays the selected graph.
2. In the upper right-hand corner, click **Setting.**
   System displays the Setting Toolbar.
3. Click **PDF setup.**
   System displays the **PDF setup** dialog box.



GRAPH: PDF SETUP: PAGE SETUP

4. **Page setup:**
   - Enter **Page Margins** to set top, bottom, left, and right margins for page.
   - From the **Predefined page size** drop-down list, select size.
   - Customize the **Height** and **Width** for page
   - Select the page orientation, either **Portrait** or **Landscape.**

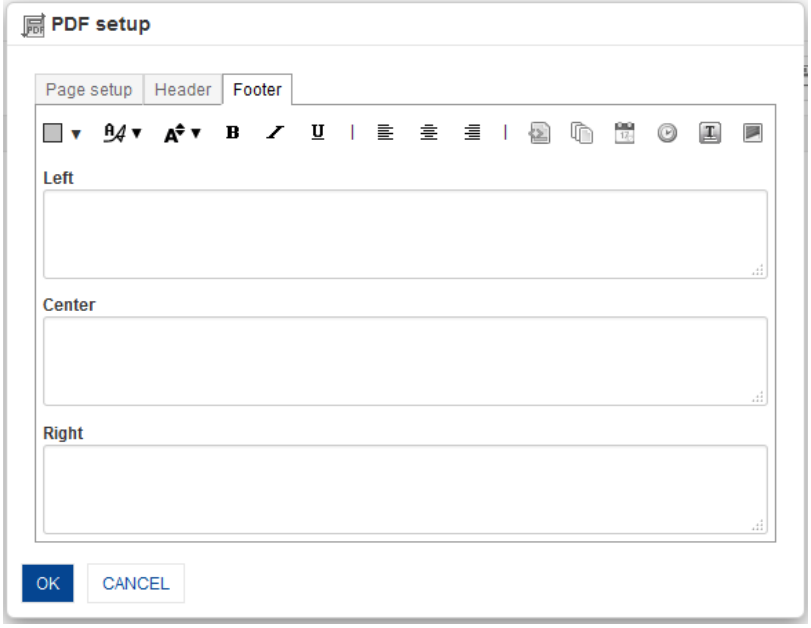


GRAPH: PDF SETUP: HEADER

5. **Header:**
   - Enter values or variables required for left, centre and right sections of the header. You can select Page Number, Number of Pages, Date, Time, Object Title and Image as variable.

     You can also add custom text along with variables.

Some examples:
Report Date: $DATE$ $TIME$
Page: $PAGE_NUMBER$ of $TOTAL_PAGES$



GRAPH: PDF SETUP: FOOTER

6. **Footer:**
   - Enter values or variables required for left, centre and right sections of the footer. You can select Page Number, Number of Pages, Date, Time, Object Title and Image as variable.

     You can also add custom text along with variables.

     Some examples:
     Report Date: $DATE$ $TIME$
     Page: $PAGE_NUMBER$ of $TOTAL_PAGES$

7. Click **OK**.

Tools	Description
	Font Colour
	Font Name
	Font Size
	Bold Style
	Italic Style
	Underline
	Left Alignment
	Centre Alignment
	Right Alignment

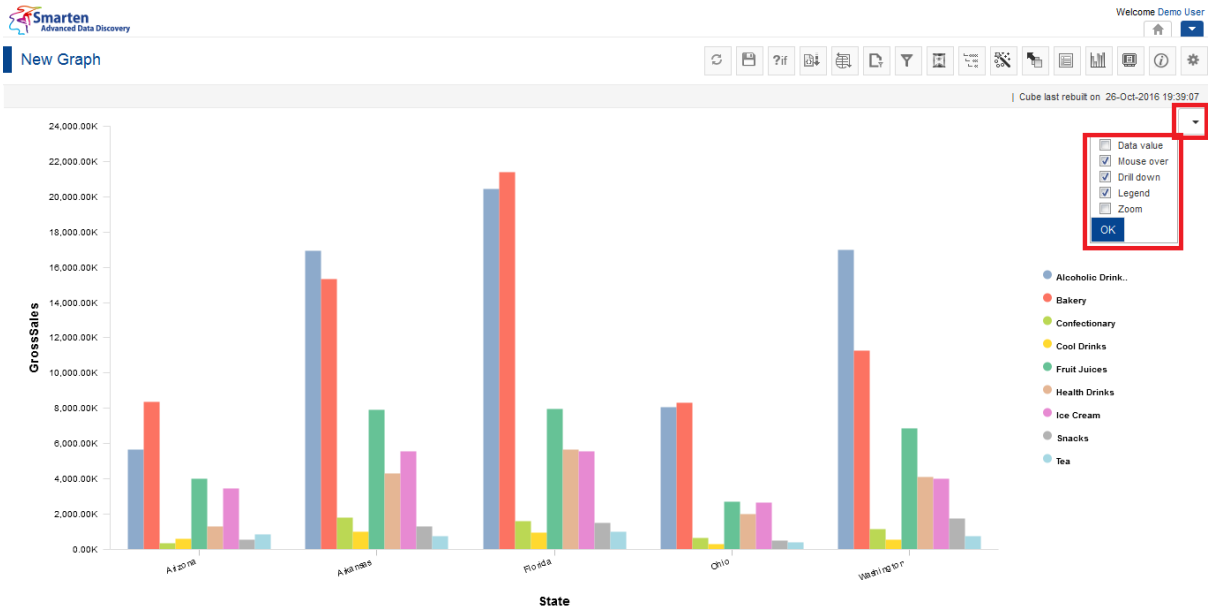
GRAPH: PDF SETUP TOOLBAR: FORMATTING OPTIONS

Tools		Description
	Page Number	Current Page Number
	Number of Pages	Total Number of Pages
	Date	Current Date on which object is exported
	Time	Current Time when object is exported
	Object Title	Title saved in object
	Image	Company logo or any other Image

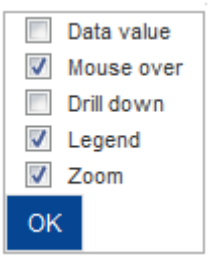
GRAPH: PDF SETUP TOOLBAR: HEADER/FOOTER VARIABLES

5.6.27 Quick settings

This option is used to apply most commonly used graph configuration properties such as Data value, Mouse over, Drill down, Legend and Zoom on the fly in all type of charts.



GRAPH: QUICK SETTING OPTIONS



GRAPH: QUICK SETTING OPTIONS

Procedure

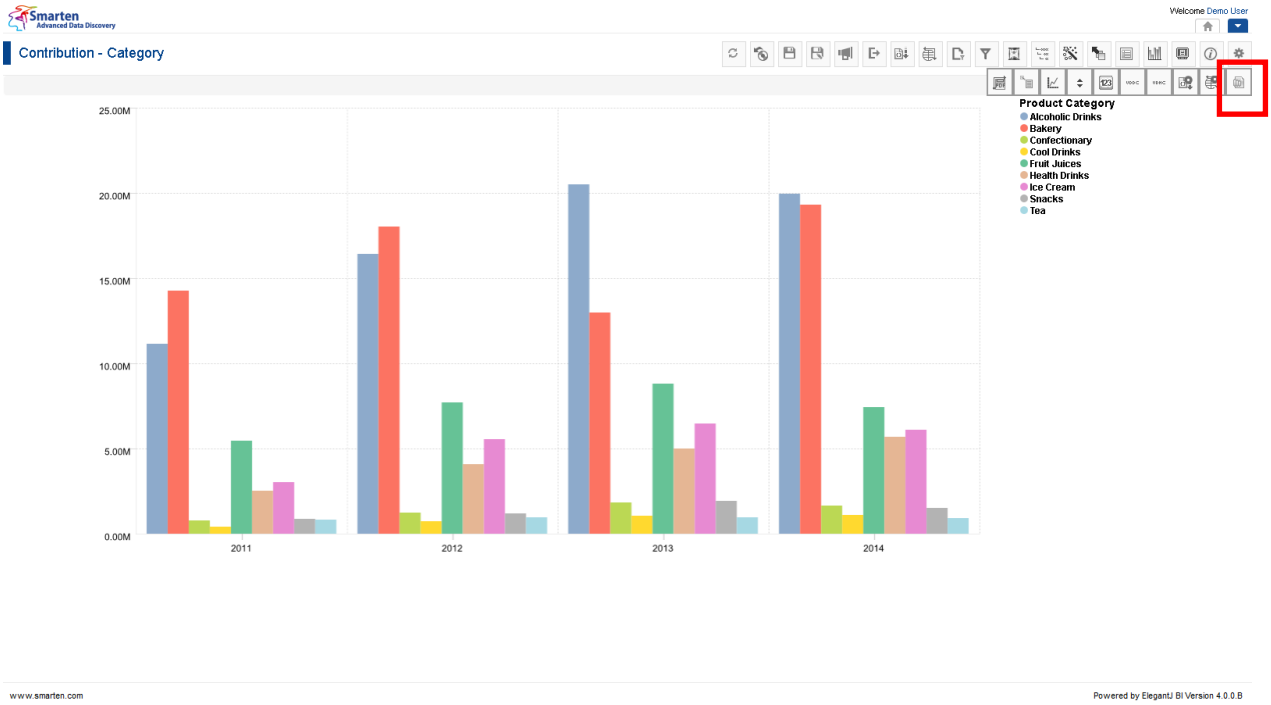
1. In the **Repository**, open graph.
   The system displays the selected graph.
2. On mouse over In the Graph area, **Quick settings** option will be visible on top-right corner in graph area**.**

3. Click on **Quick settings** icon
   The system displays the **Quick settings** popup with options **Data value, Mouse over, Drill down, Legend** and **Zoom**.
4. Check the check boxes for required options
5. Click **OK**.

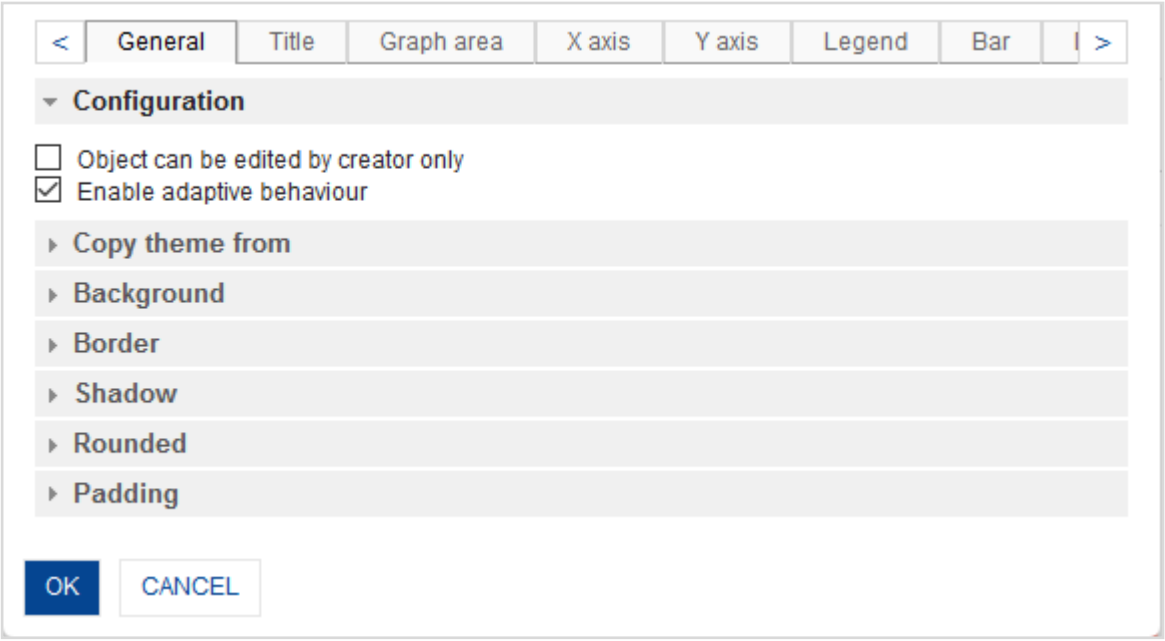
5.6.28 Graph Properties

Procedure

1. In the **Repository**, open graph.
   The system displays the selected graph.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Graph Properties.**
   The system displays the **Graph Properties – "Graph type"** dialog box, in the given example, **Graph properties – vertical bar** dialog box.



GRAPH: GRAPH PROPERTIES ICON



GRAPH: GRAPH PROPERTIES DIALOG

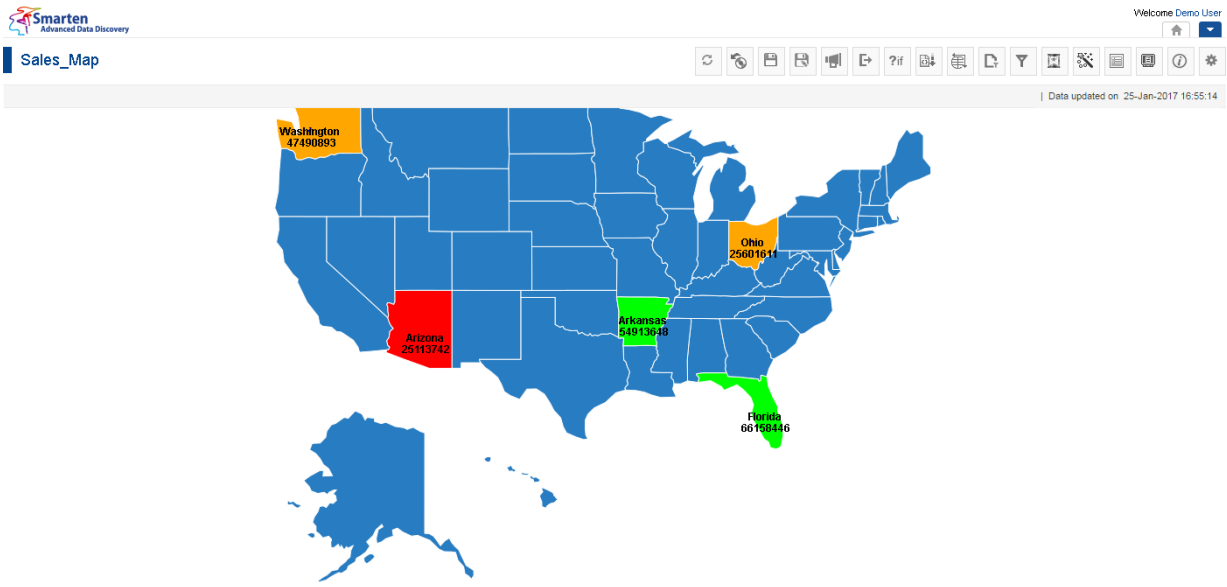
4. To configure the properties, select the tab and enter/select the values in the various fields.

   Click **OK** or **Cancel**.

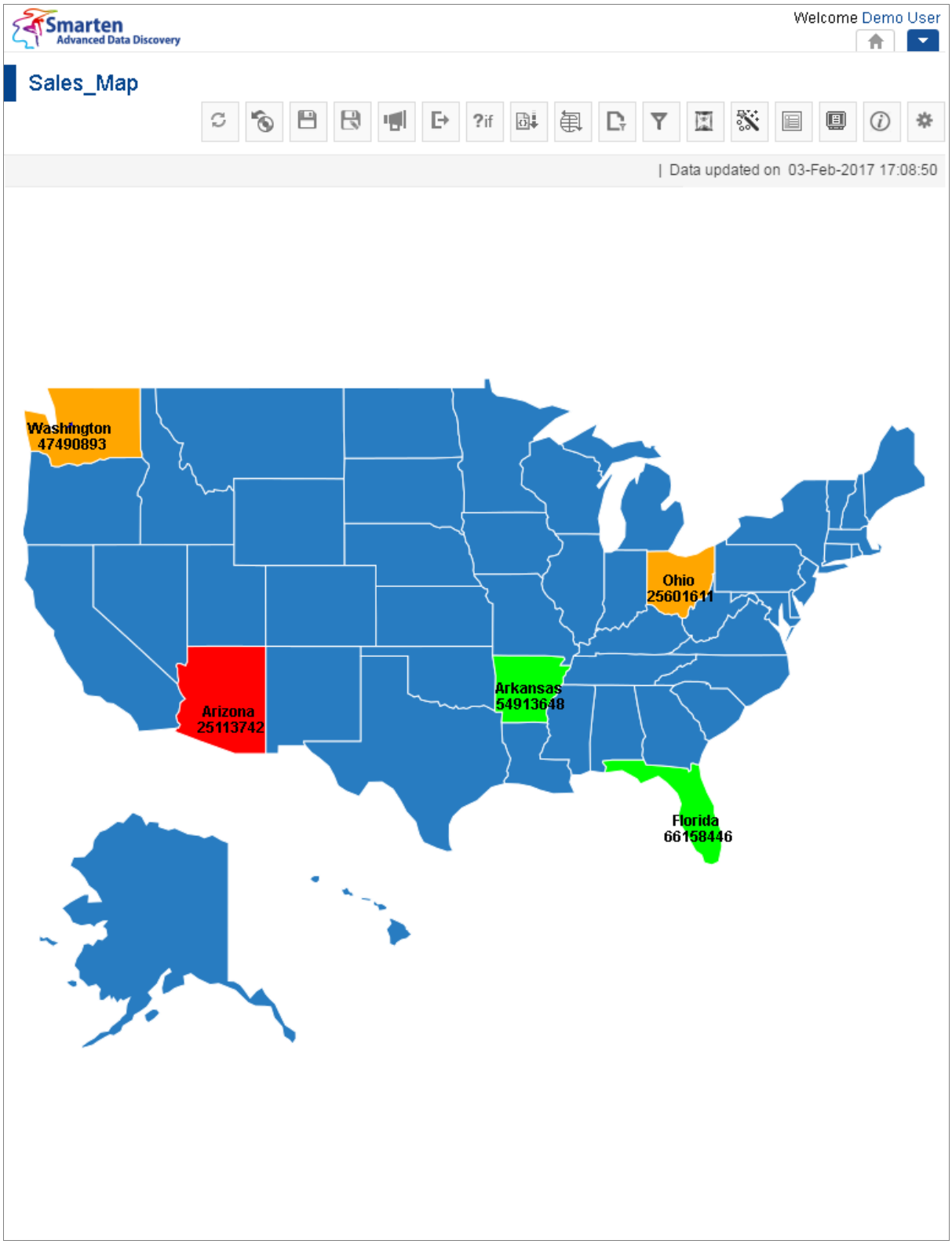
6. Working with GeoMap

This chapter introduces the features in GeoMap and provides a comprehensive step-by-step guide to create a GeoMap for visualising geographical data without any active connection to internet. You will be able to perform functions such as drill up and drill down, filtering and spot lighting on GeoMap.

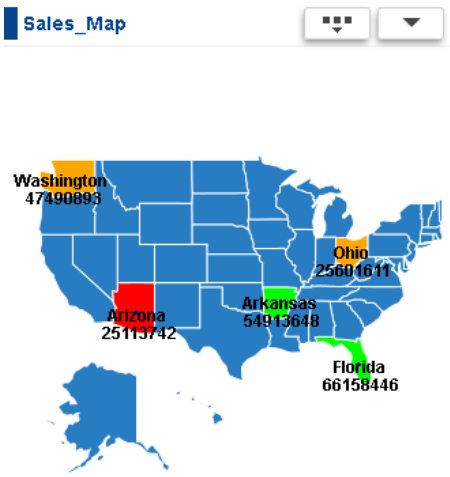
The following images demonstrate how Smarten GeoMap renders differently in different target devices.



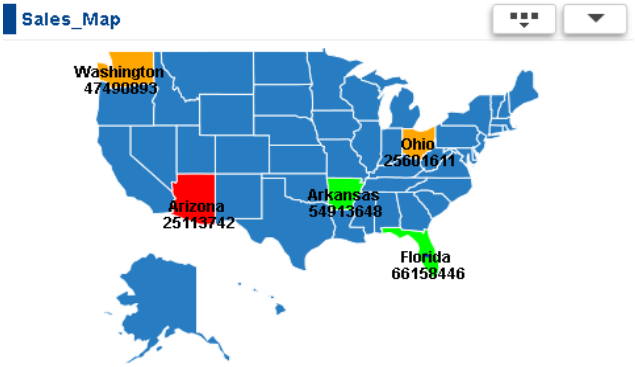
GEOMAP—DESKTOP VIEW



GEOMAP—TABLET VIEW



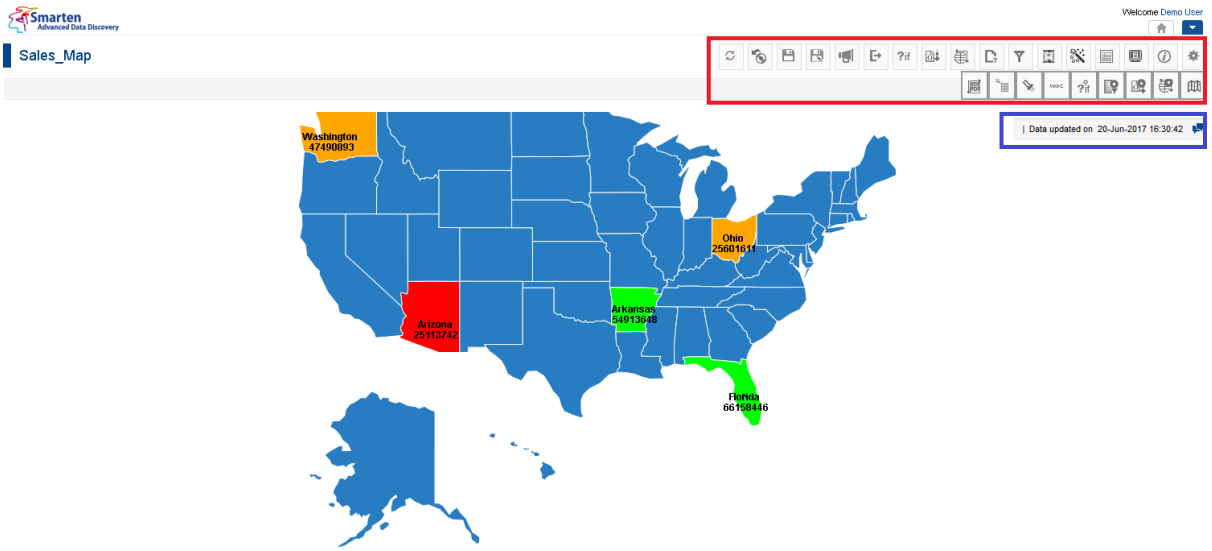
GEOMAP—SMARTPHONE: PORTRAIT VIEW



GEOMAP—SMARTPHONE: LANDSCAPE VIEW

6.1 Becoming Familiar with GeoMap Menus and Toolbars

You can use various GeoMap tools and menu to edit and format GeoMap in Smarten.



GEOMAP: GEOMAP MENU AND TOOLBAR

GEOMAP TOOLBAR

Icon	Icon name
	Refresh
	Restore
	Save

Icon	Icon name
	Save as
	Publish now
	Export
?if	What-if variables
	Retrieval Parameters
	Global variables
	Page filter
	Filter
	Time series
	Data operations
	Group
	Outliner
	GeoMap data
	Object information
	Setting
	PDF setup
	Manage data display value mapping
	Spot lighter
UDDC	Manage UDDC
?if	Select What-if variables
	Manage page filters
	Manage retrieval parameters
	Manage global variables
	GeoMap properties

GEOMAP TOOLBAR OPTIONS

The GeoMap information bar displays date & time of last data update and Comments icon.

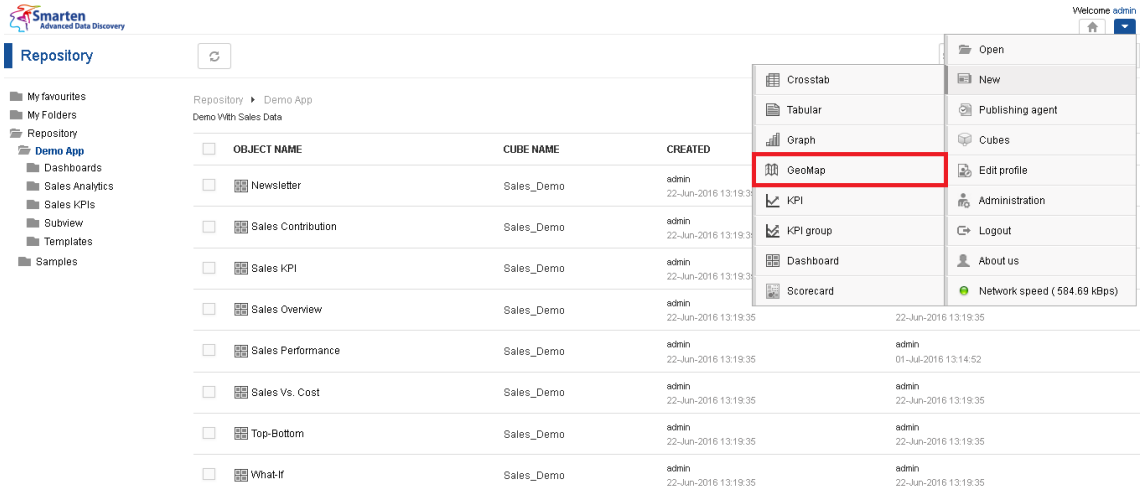
GEOMAP INFORMATION BAR

6.2 Creating GeoMap using Wizard

Smarten GeoMap directly gives you the perspective of data in map form for better interpretation and effective visualisation.

Procedure

1. In the upper right-hand corner, click the **down arrow** icon.
   The system displays the Main Menu.
2. In the Main Menu, mouse over on **New**.
   The system displays the Submenu.



NEW GEOMAP

3. Click **GeoMap**.

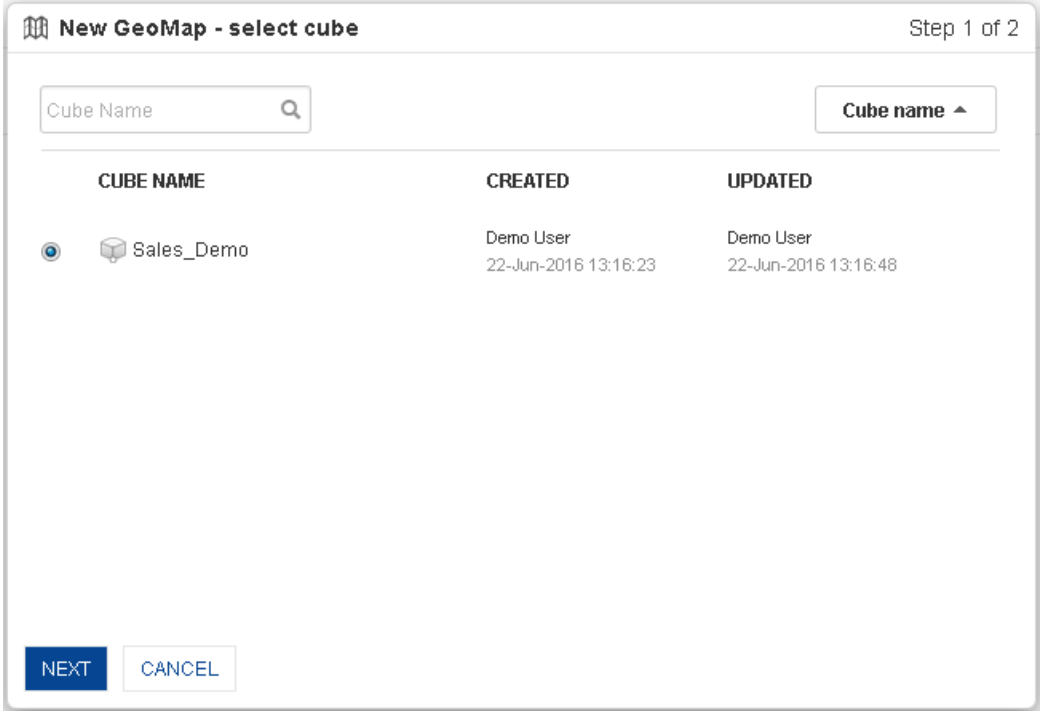
Creating a GeoMap is a wizard-driven simple process and has the following steps:

- Step 1—Selecting Cube for GeoMap
- Step 2—Building outliner settings

6.2.1 Selecting Cube for GeoMap

Procedure

1. Follow the **Procedure** of **Creating GeoMap**.
   The system displays the **New GeoMap – select cube** dialog box.



NEW GEOMAP—SELECTING CUBE

2. Click the radio button to select the cube name.
3. Click **Next**.

6.2.2 Outliner Settings

Outliner in Smarten gives you complete control to select required map (world map or country map) and GeoMap columns to plot a map. Also, you can select information columns which you want to see for specific location on map.

By simple drag-n-drop of dimensions and measures in selected columns, you can build the outliner settings. Refer to the figure below to know how the outliner is formed by the selection of different dimensions and measures in cube.

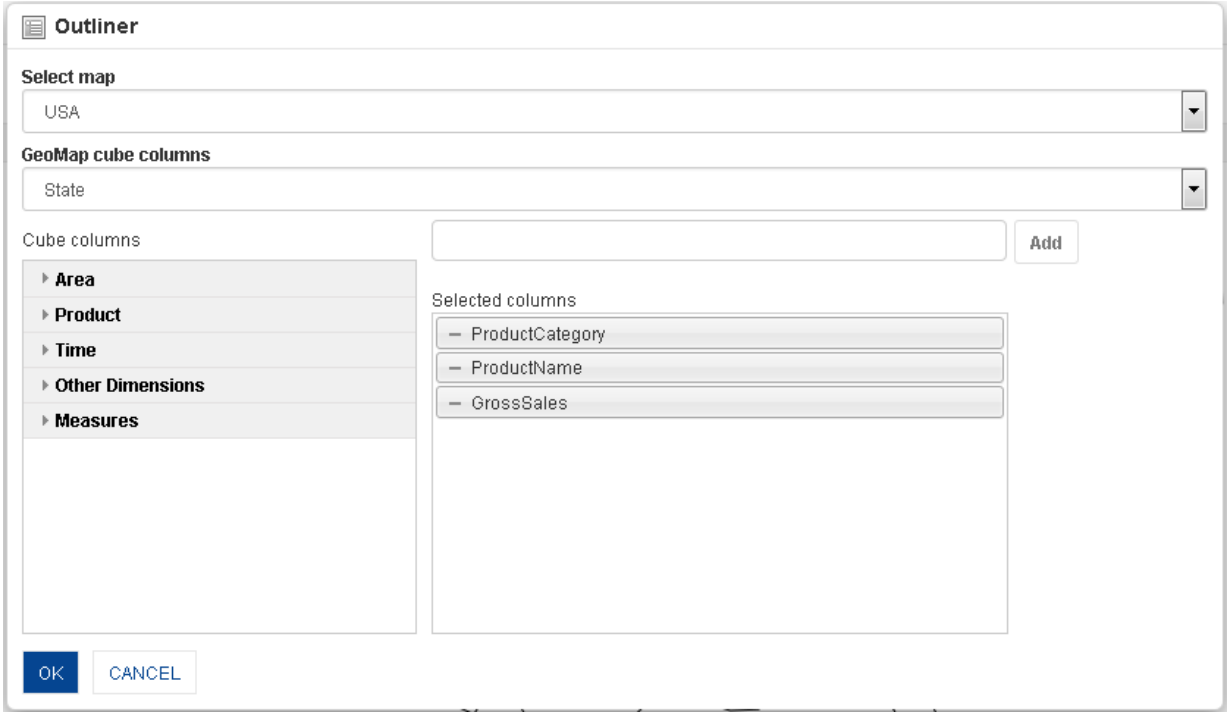
The **Cube Columns** display the dimensions, measures, and custom measures available at cube level to build the selected GeoMap in hierarchical view.

About this task

To build the GeoMap, you need to select Map type, GeoMap cube column and any measure(s) in selected columns in Outliner.

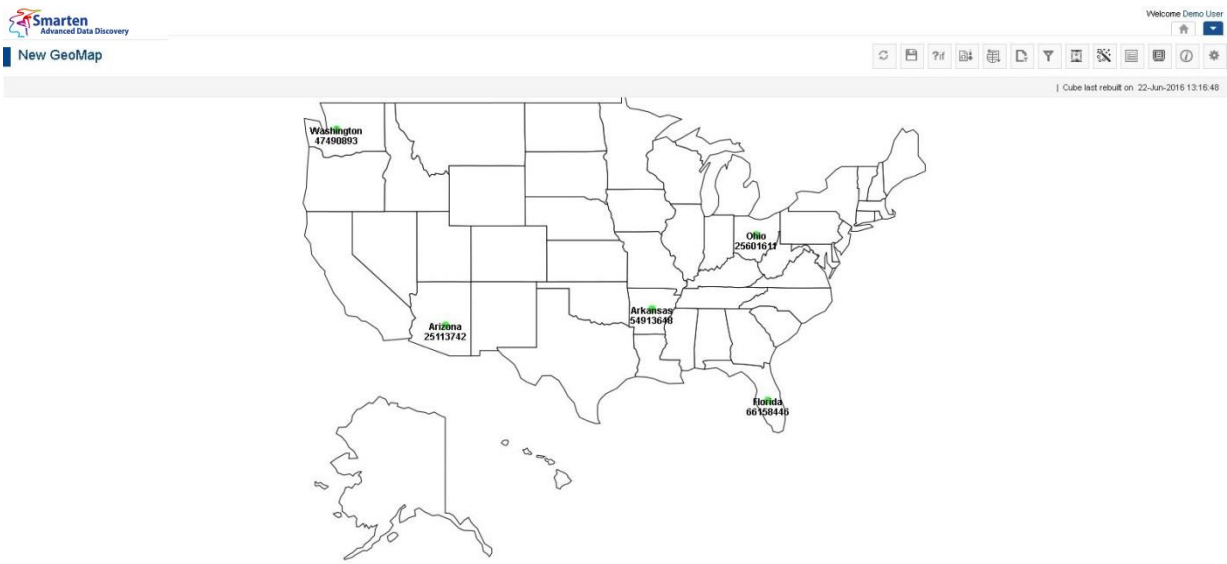
Procedure

1. Follow the **Procedure** of **Selecting Outliner settings**.
   The system displays the **New GeoMap – outliner** dialog box.
2. Select **MAP** type, from **Select map** drop down.
3. Select **GeoMap column**, from **GeoMap cube columns** drop down.
4. Select columns from the **Cube columns**.
5. Drag and drop the selected dimensions/Measures in **Selected columns**.
6. Click **OK** to create the GeoMap.



NEW GEOMAP—OUTLINER SETTINGS

> Note:
> Columns selected as GeoMap cube columns cannot be added as column in selected columns.



GEOMAP PLOTTING AS PER OUTLINER SETTINGS

6.3 Operations on GeoMaps

6.3.1 Drill Down and Drill Up

Using drill down and drill up, you can perform hierarchical drilling on GeoMap column in GeoMap.

In the example below, after looking at the **Gross Sales** for **Ohio**, you can **drill down** to city wise sales to see the individual sales for each city in **Ohio** State.

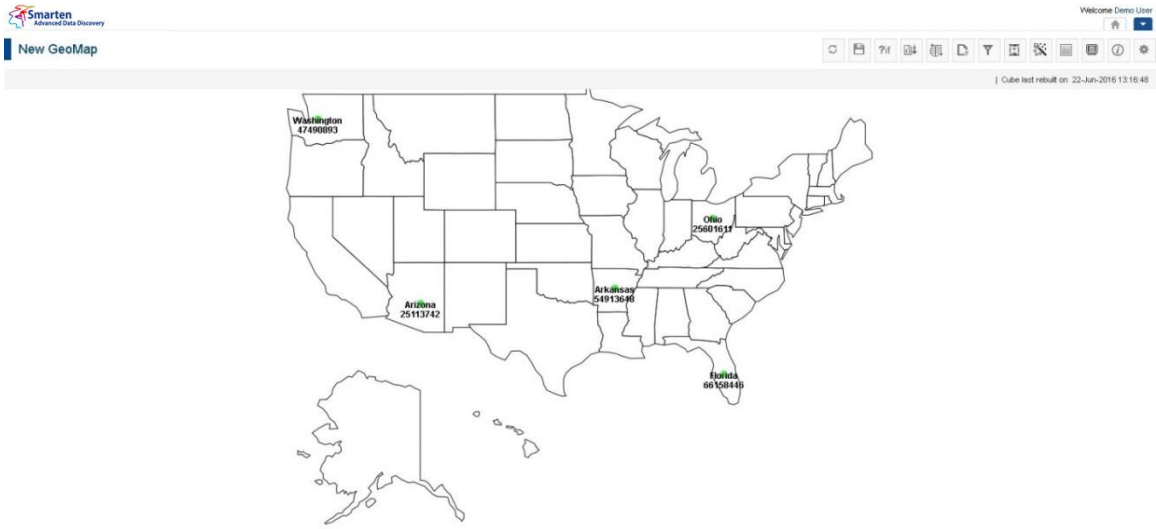
6.3.1.1 Performing the drill down and drill up operation

About this task

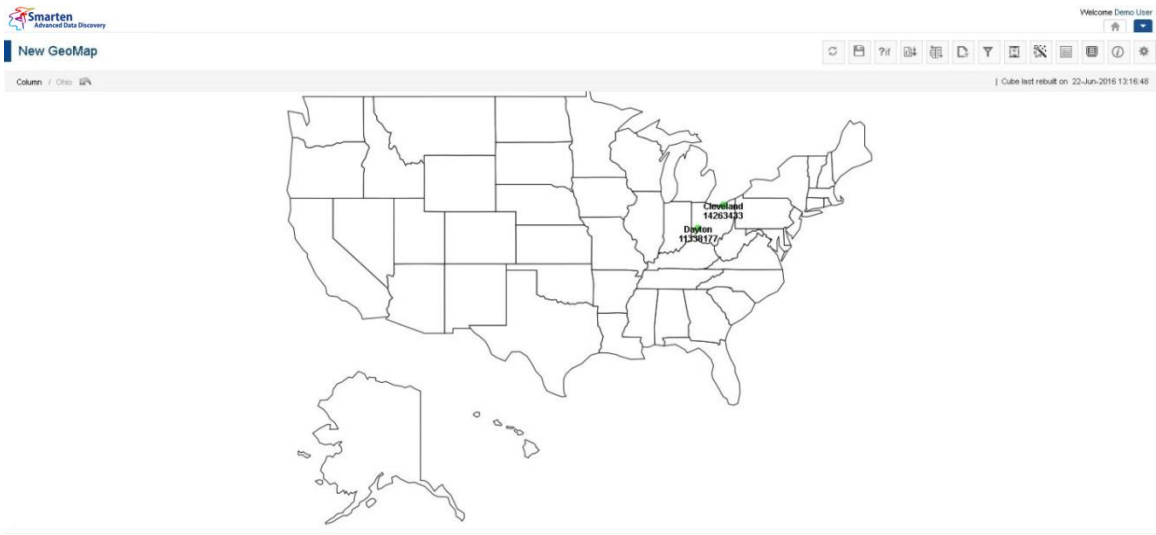
You can use the drill down option to navigate from less detailed aggregated information to view more granular data.

Procedure

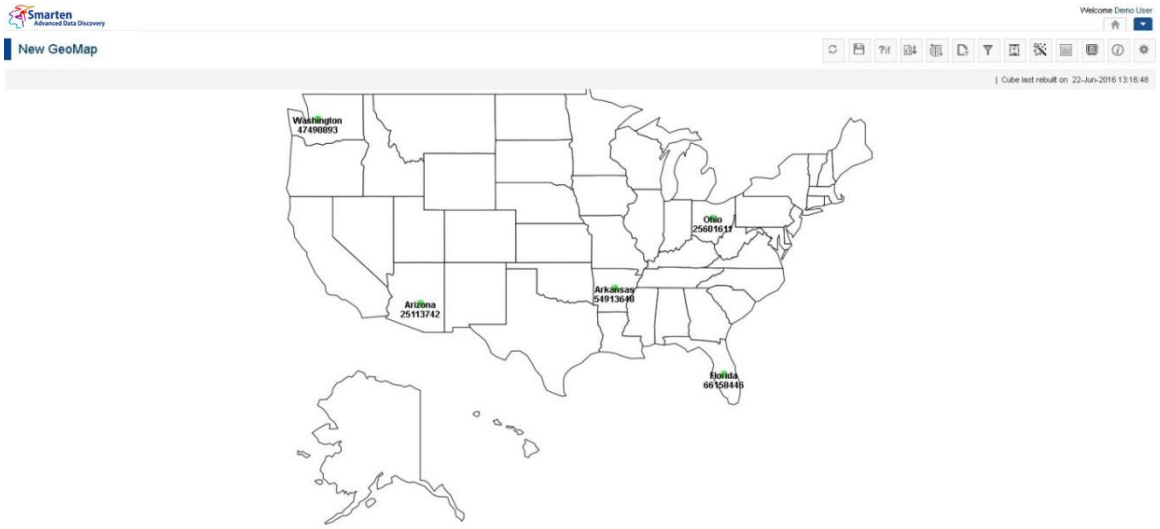
1. In the **Repository**, open GeoMap.
   The system displays the selected GeoMap.
2. In the GeoMap, click the value on which you want to perform the drill down operation.
   The system displays the drill down results.



BEFORE DRILL DOWN



AFTER DRILL DOWN (WITH DRILL DOWN PATH AND DRILL UP ICON)



AFTER DRILL UP

Similarly, to analyse information from the most detailed (down) to the most summarised (up) level, you can choose to drill up on the GeoMap. If you drill up, it takes you back from where you started and displays **Gross Sales** for **Ohio** State. That is drill up from cities to state.

To drill up back to the previous level, click the Back arrow key next to the breadcrumb on top left of the GeoMap.

Reference:	**Concept Manual > Analytic Functions > Drill down and Drill up**

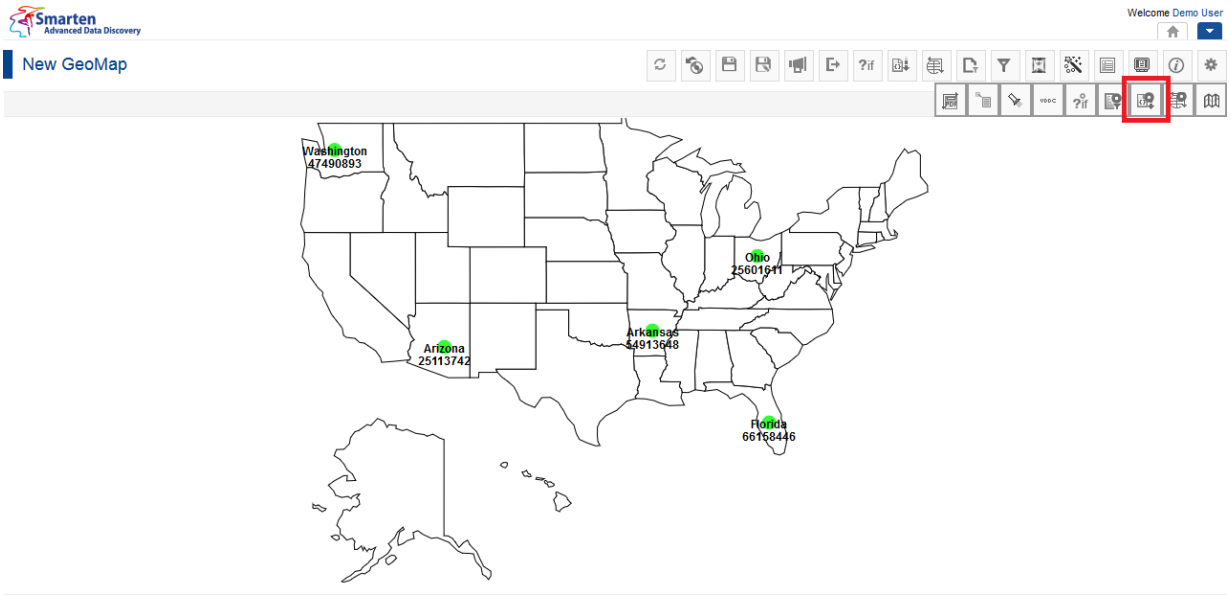
6.3.2 Retrieval Parameters

By default, the Smarten GeoMap objects are encumbered with complete data from the cube. To see the GeoMap objects with filtered views, retrieval parameters need to be defined. These are run-time parameters for a GeoMap object.

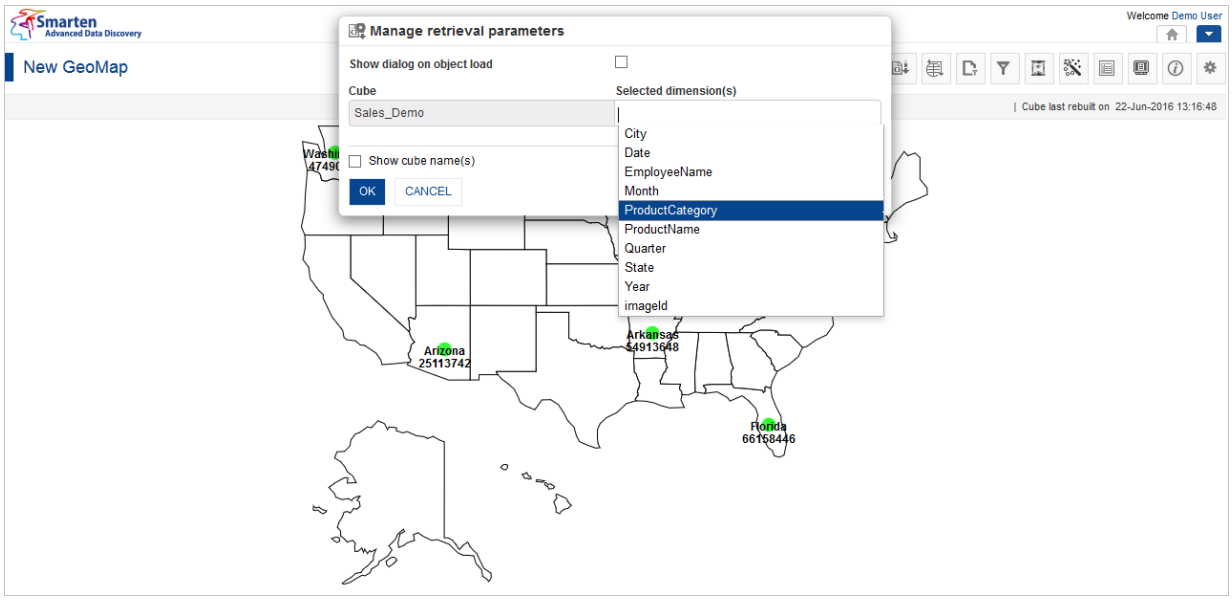
6.3.2.1 Creating & Managing Retrieval parameters

Procedure

1. In the **Repository**, open GeoMap.
   The system displays the selected GeoMap.
2. In the upper right-hand corner, click **Setting**.
3. The system displays the Setting Toolbar.
4. Click **Manage retrieval parameters**.
   The system displays the **Manage retrieval parameters** dialog box.

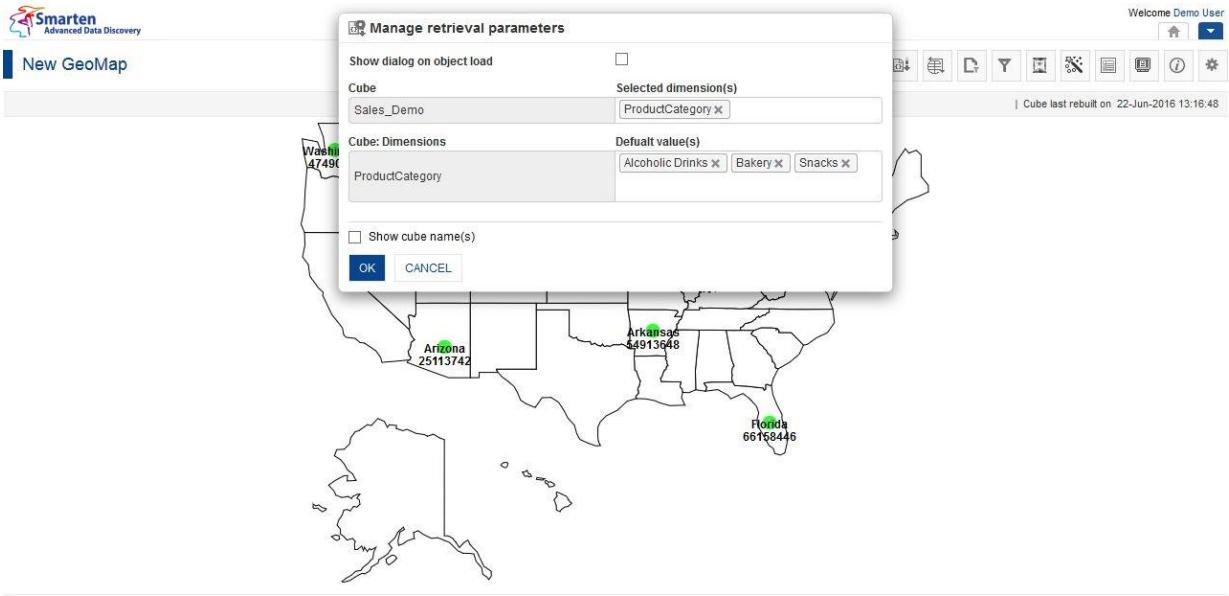


MANAGE RETREIVAL PARAMETERS ICON



MANAGE RETRIEVAL PARAMETERS

5. In the **Show object on dialog load** field, check the checkbox if you want to display retrieval parameters dialog on object load.
6. In the **Selected dimension(s)** field, select the dimensions from the drop-down list.
7. In the **Default value(s)** field, select the value from the drop-down list.
8. Click **OK** to save settings.

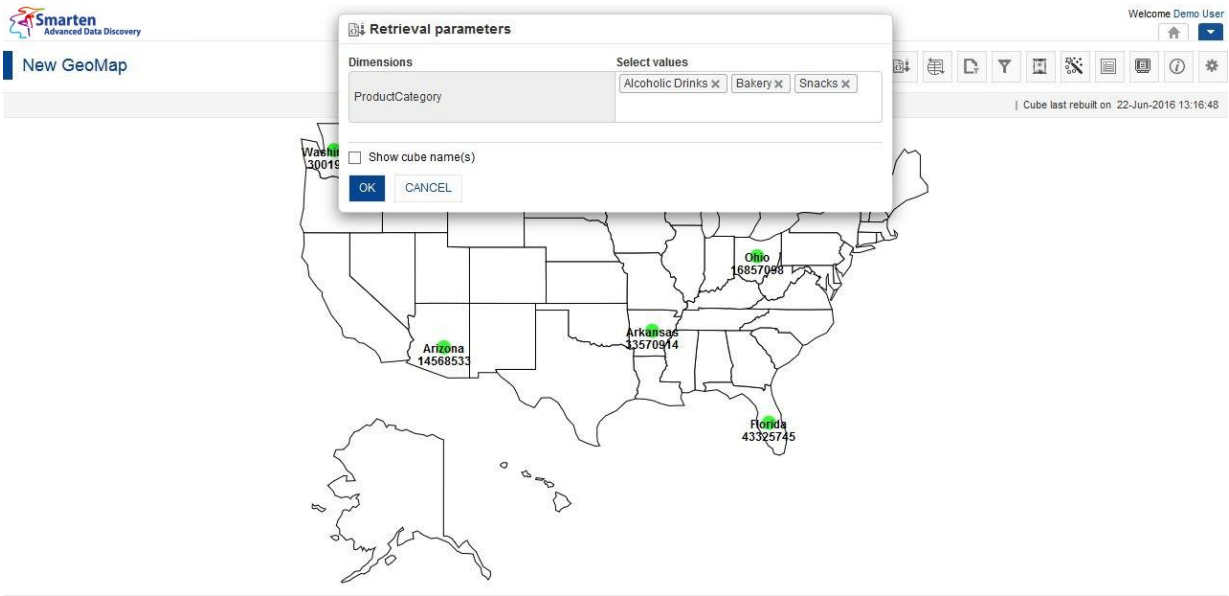


SETTING DEFAULT VALUE FOR RETRIEVAL PARAMETERS

6.3.2.2 Applying Retrieval parameters

Procedure

1. In the **Repository**, open GeoMap.
   The system displays the selected GeoMap.
2. In the GeoMap Toolbar, click **Retrieval parameters**.
   The system displays a list of retrieval parameters created through **Manage retrieval parameters**.
3. Select the value of retrieval parameters as needed.
4. Click **OK**.

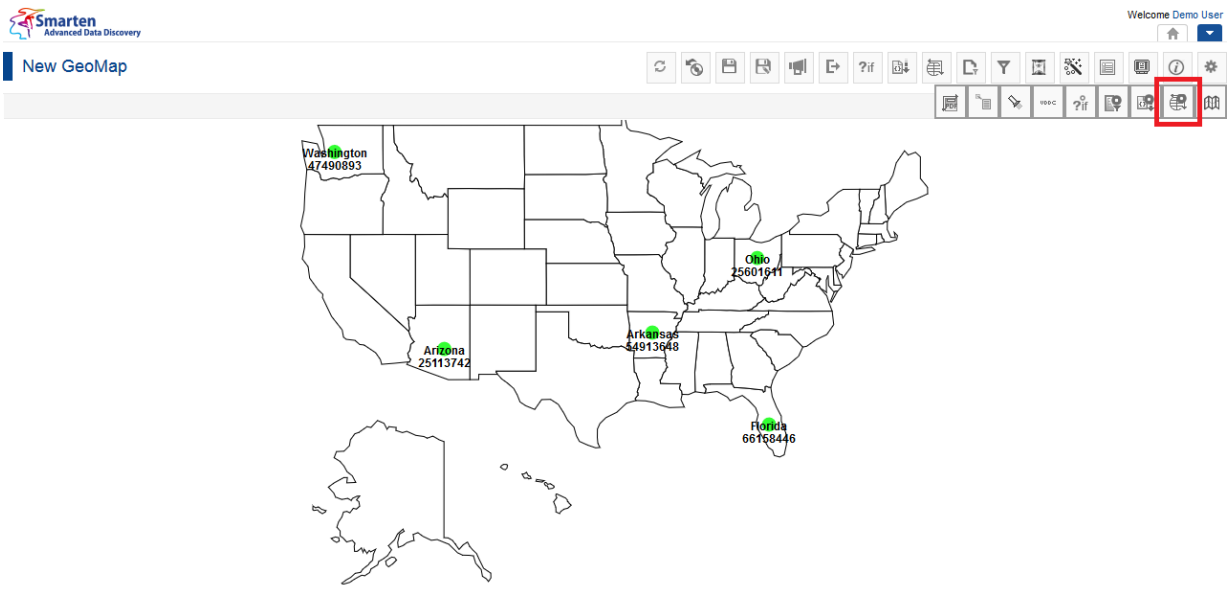


APPLYING RETRIEVAL PARAMETERS

Reference: **Concept Manual > Filters and Expressions > Retrieval Parameters**

6.3.3 Global Variables

Variables that are accessed globally within Smarten are termed **Global Variables**. Any change in a global variable will reflect in all analyses where its value is used via different expressions in **Filters** and **Custom Measures** (**UDDC**).

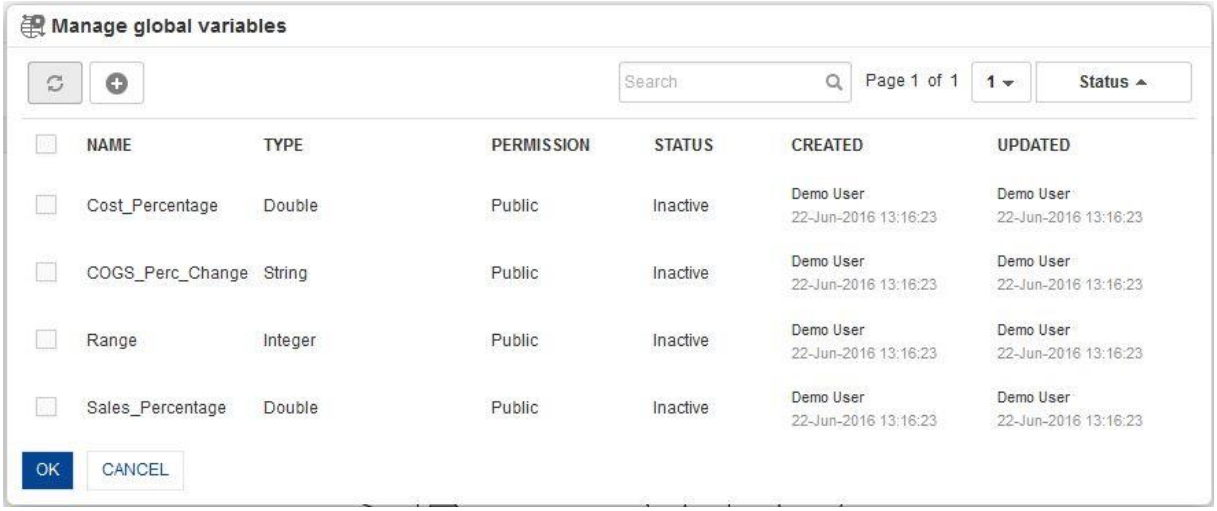


MANAGE GLOBAL VARIABLES ICON

6.3.3.1 Creating Global variables

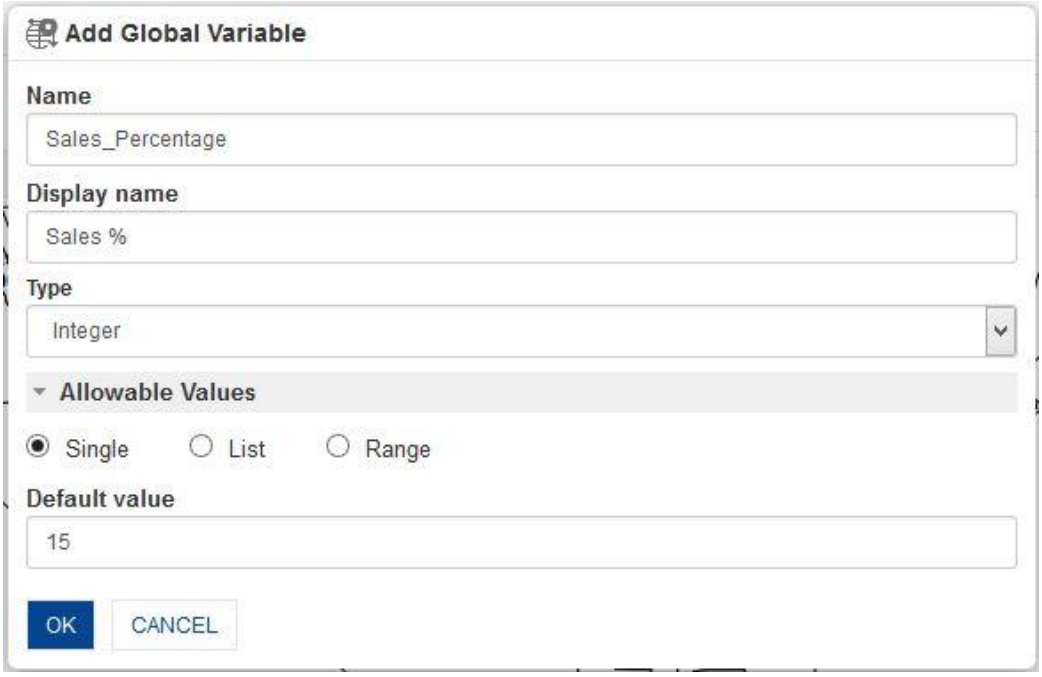
Procedure

1. In the **Repository**, open GeoMap.
2. The system displays the selected GeoMap.
3. In the upper right-hand corner, click **Setting**.
   The system displays the Setting Toolbar.
4. Click **Manage global variables**.
   The system displays the **Manage global variables** dialog box.



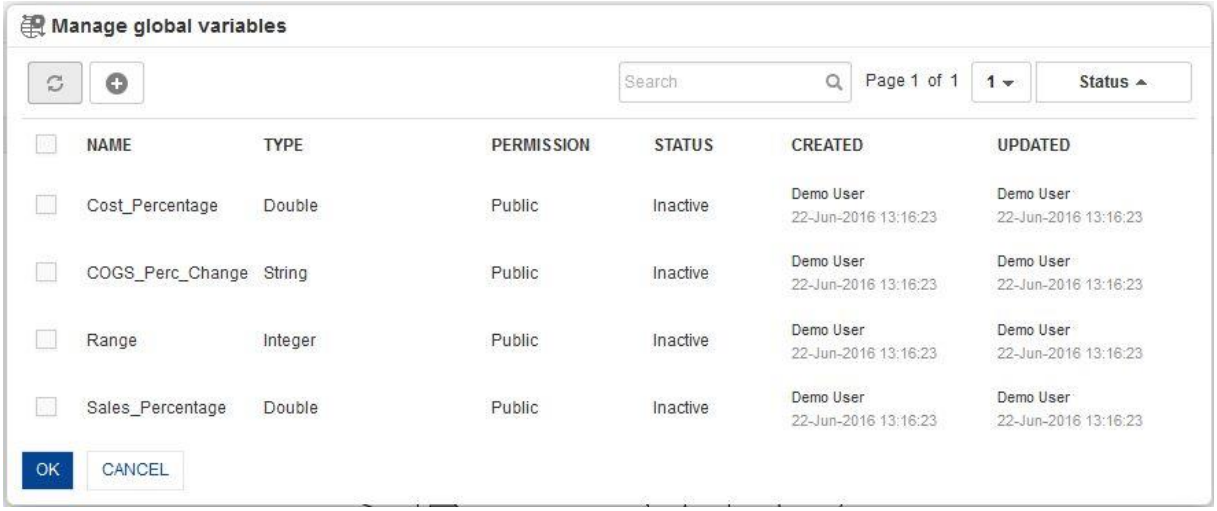
ADDING GLOBAL VARIABLES

5. In the **Manage global variables** dialog box, click the **Add** icon.
   The system displays the **Add Global Variable** dialog box.



CREATE A NEW VARIABLE

6. In the **Name** field, enter the name of global variable
7. In the **Type** field, select a type from the drop-down list.
8. In the **Allowable Values** field, select **Single** radio button option.
9. In the **Default value** field, enter a value.
10. Click **OK** to save the variable.



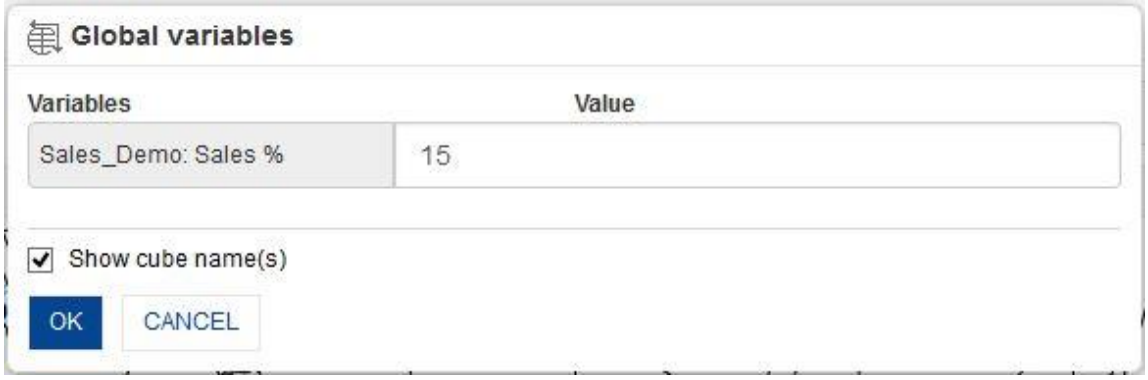
LIST OF GLOBAL VARIABLES

Reference: **User Manual > Working with Crosstab > Global Variables**

6.3.3.2 Applying Global variables

Procedure

1. In the Repository, open GeoMap.
   The system displays the selected GeoMap.
2. In the GeoMap Toolbar, click **Global variables**.
   The system displays a list of global variables created through **Manage global variables.**
3. Select the value of global variables as needed.
4. Click **OK**.



APPLYING GLOBAL VARIABLES

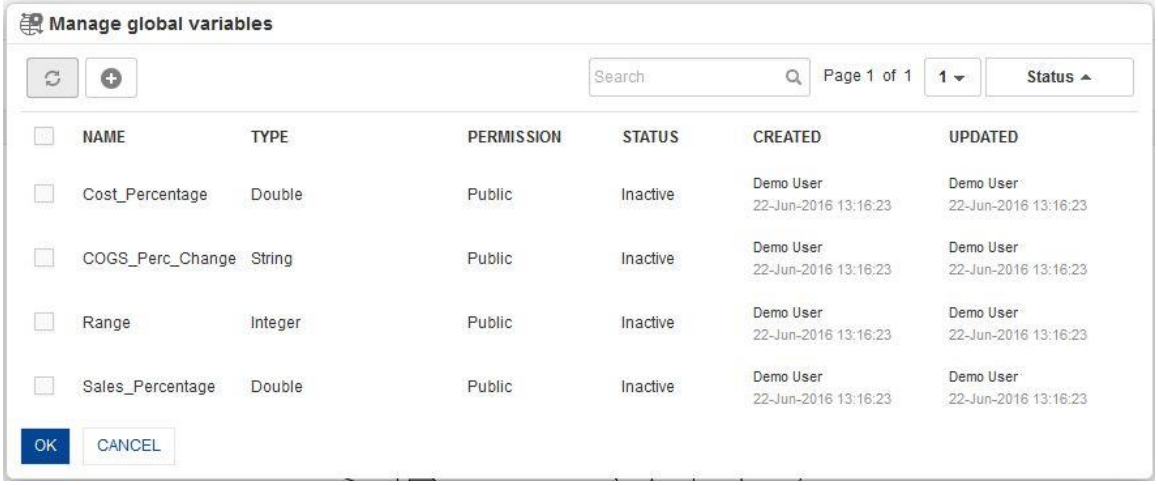
Reference: **Concept Manual > Filters and Expressions > Global Variables**

6.3.3.3 Create & Manage Templates

Procedure

1. In the **Repository**, open GeoMap.
   The system displays the selected GeoMap.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage global variables.**
   The system displays the **Manage global variables** dialog box. Select a checkbox in front of a global variable name.

   The system displays a toolbar for managing global variables template.



GLOBAL VARIABLES—CREATE AND MANAGE GLOBAL VARIABLES TEMPLATE

GLOBAL VARIABLES: CREATE AND MANAGE GLOBAL VARIABLES TEMPLATE TOOLBAR

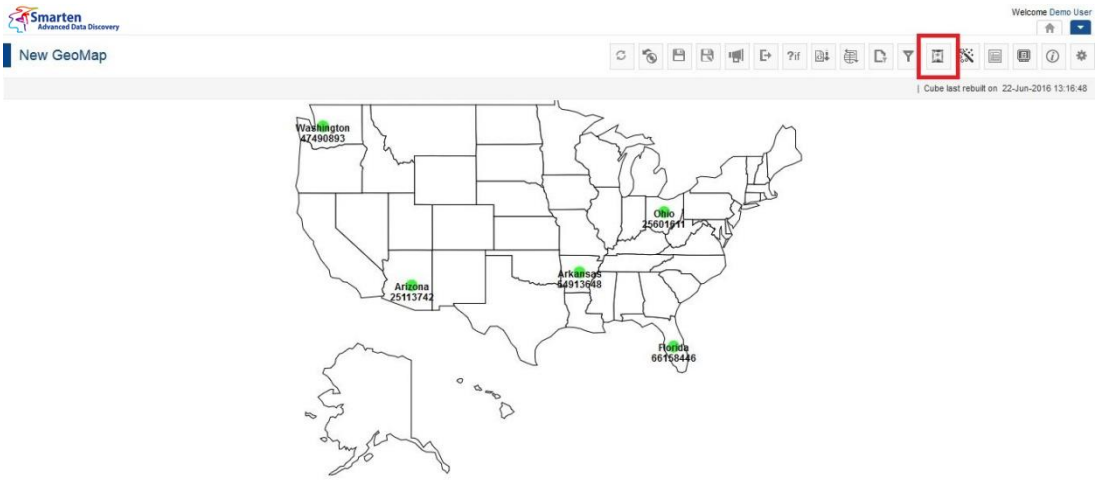
Icon	Icon name
	Refresh
	Add
	Edit
	Private
	Public
	Active
	Inactive
	Delete

GLOBAL VARIABLES: CREATE AND MANAGE GLOBAL VARIABLES TEMPLATE TOOLBAR OPTIONS

> Note:
> Templates can be edited or deleted only by creator of the template or the administrator.

6.3.4 Time Series

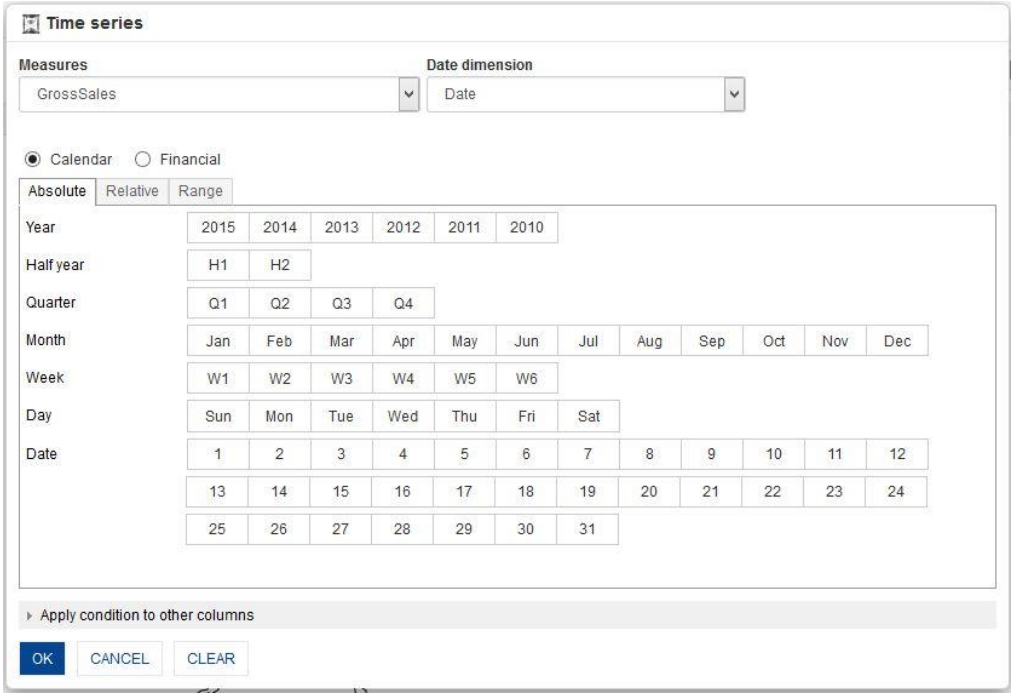
Time series helps you understand the relationship and performance of dimensions and measures over the period of time. Using the time series filtering options in Smarten—absolute, relative, or range time series filtering—you can quickly analyse data across financial and calendar years and drill down up to half years, quarters, months, weeks, days, and dates.



GEOMAP: TIME SERIES ICON

Procedure

1. In the **Repository**, open GeoMap.
   The system displays the selected GeoMap.
2. In the GeoMap Toolbar, click **Time series.**
   The system displays the **Time series** dialog box.

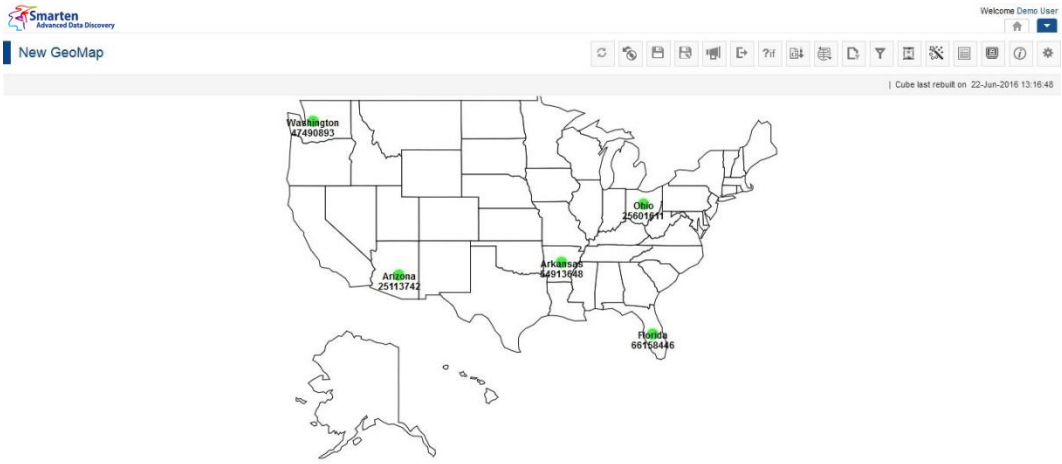


TIME SERIES FILTER

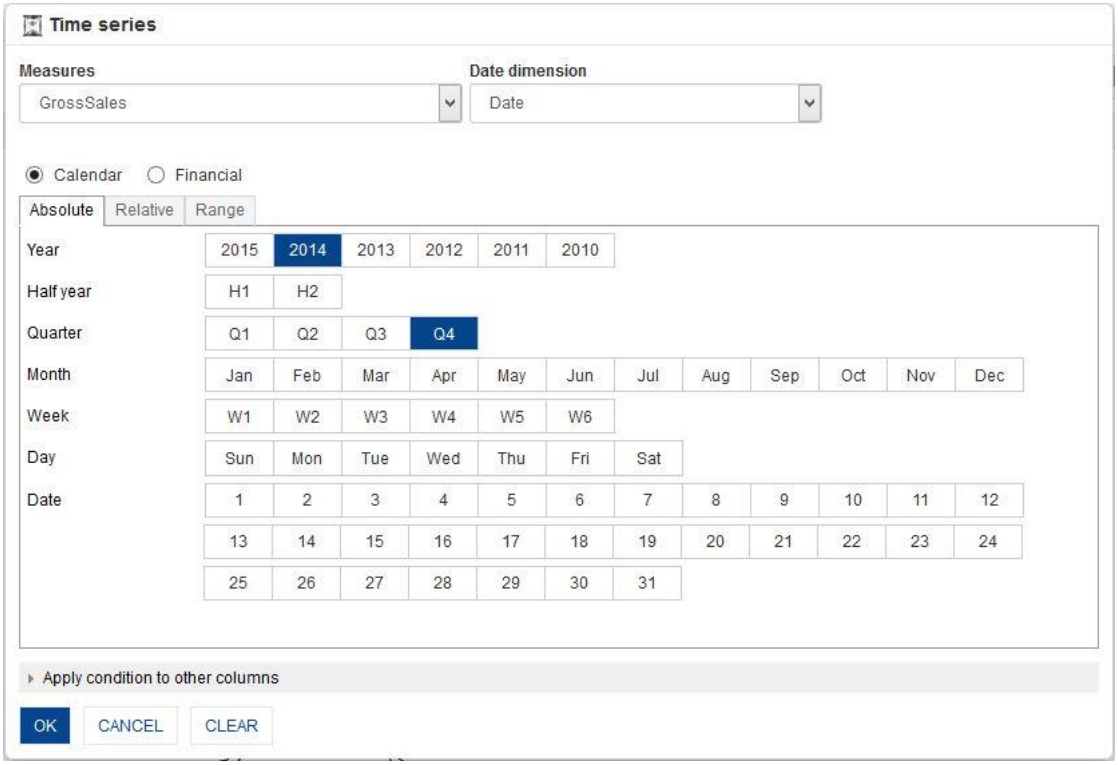
6.3.4.1 Absolute Time Series Filter

The Absolute filter option is used to filter value of a measure on a particular year or half year or quarter or month or week or day or date. It has no dependency or relevance to the current date.

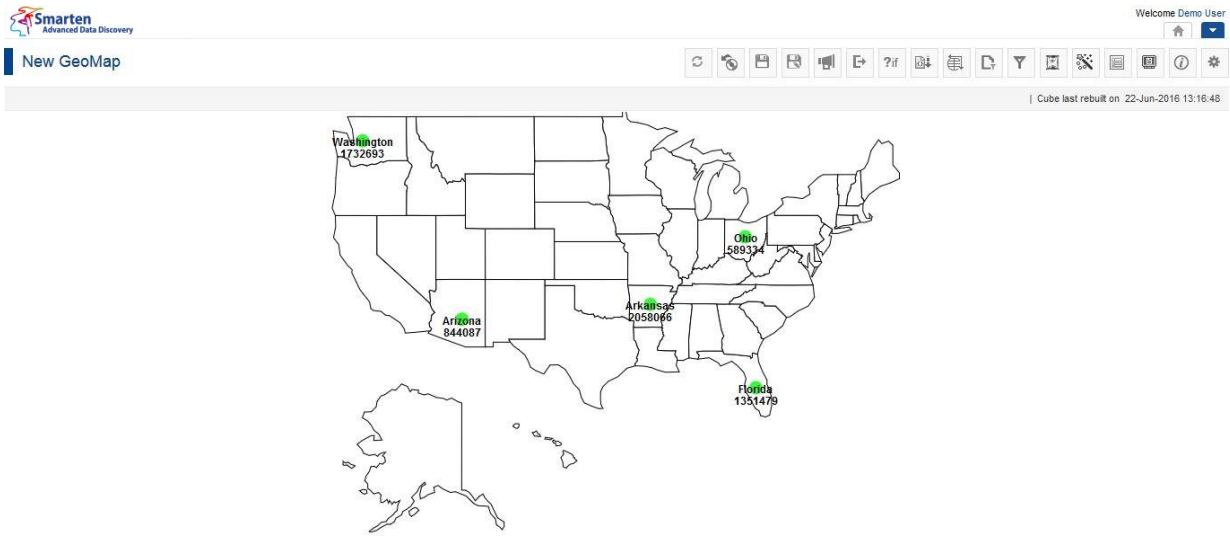
For example, to view GeoMap of Gross Sales for Q2 (second quarter) of year 2014, use the absolute time series filtering option.



GEOMAP BEFORE APPLYING ABSOLUTE TIME SERIES FILTER



GEOMAP: TIME SERIES: ABSOLUTE FILTER



GEOMAP AFTER APPLYING ABSOLUTE TIME SERIES FILTER

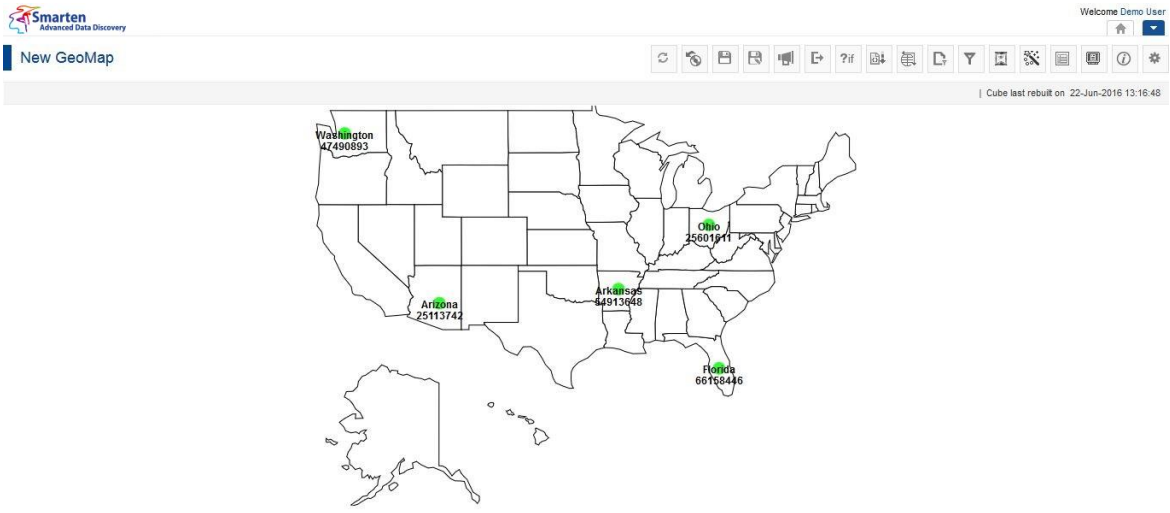
Reference: **Concept Manual > Filters and Expressions > Time Series**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

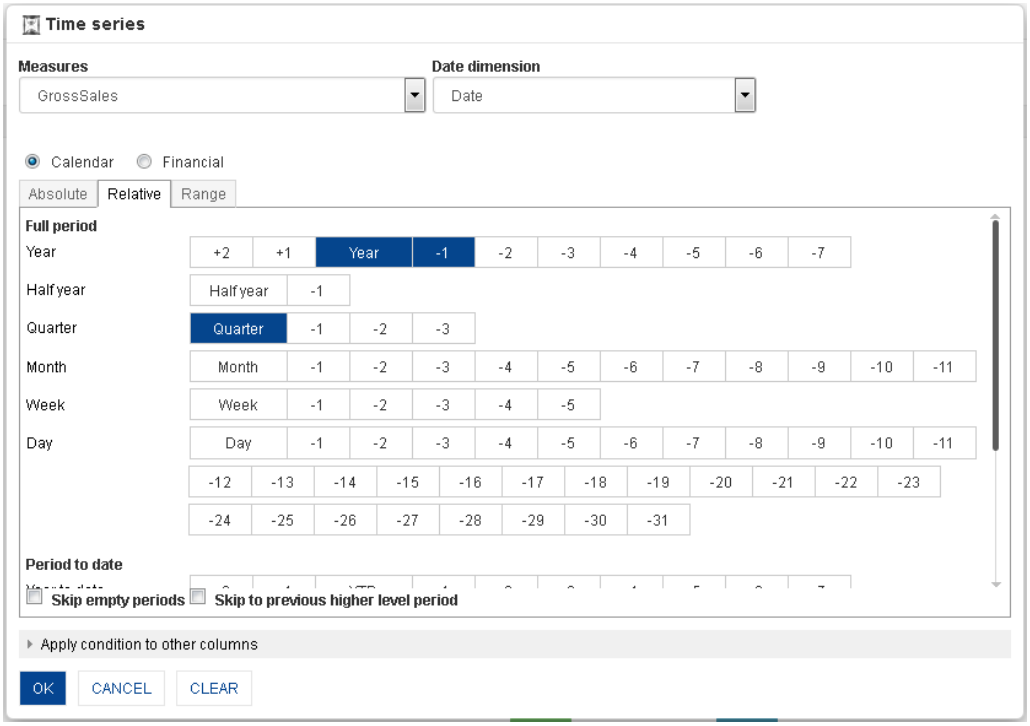
6.3.4.2 Relative Time Series Filter (Full Period)

Filters value of a measure at a particular period relative for the full period. Here the current date value affects definition of time series periods.

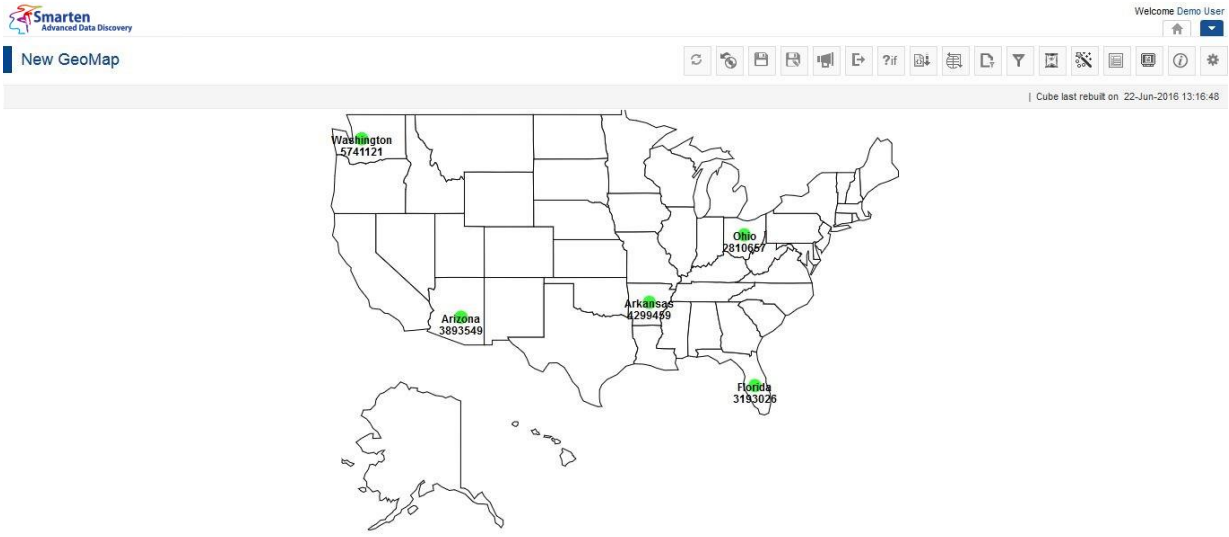
For example, to view GeoMap of Gross Sales for the quarter before previous quarter of current year, use relative filtering.



GEOMAP BEFORE APPLYING RELATIVE TIME SERIES FILTER USING FULL PERIOD



GEOMAP: TIME SERIES: RELATIVE FULL PERIOD FILTERING



GEOMAP AFTER APPLYING RELATIVE TIME SERIES FILTER USING FULL PERIOD

Reference: **Concept Manual > Filters and Expressions > Time Series**

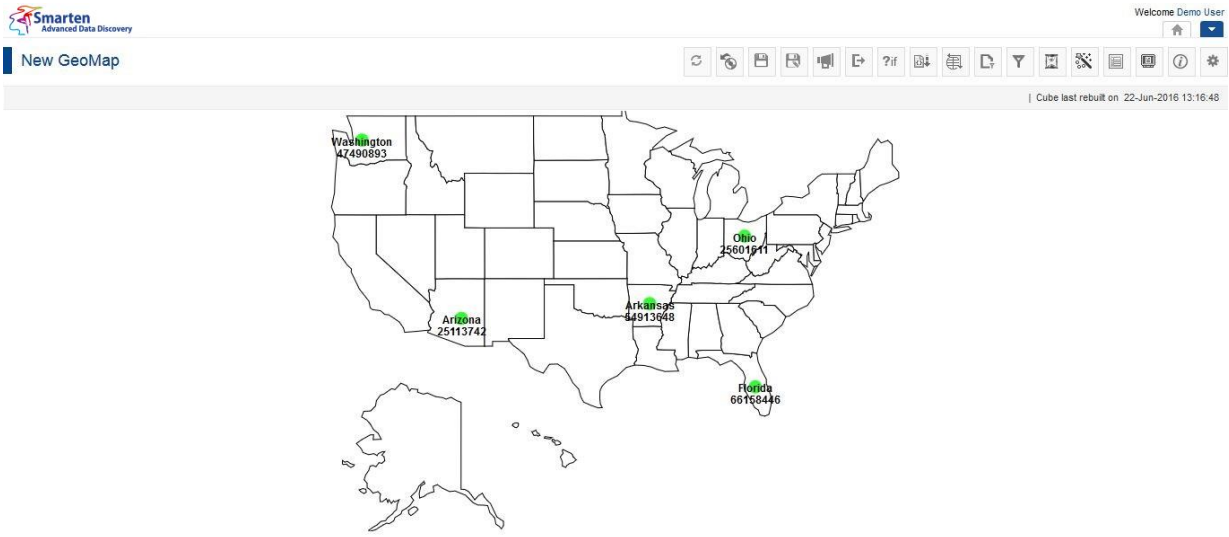
Reference: **User Manual > Working with Crosstab > Time Series**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

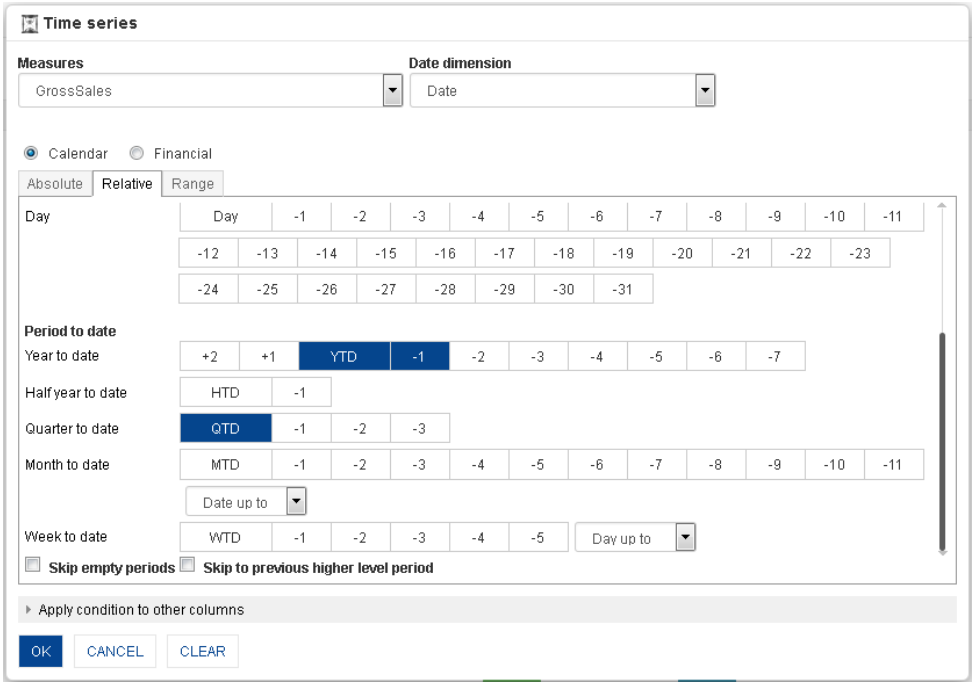
6.3.4.3 Relative Time Series Filter (period to date)

Filters value of a measure at a particular period relative to current date, up to the current date. Here the current value affects definition of time series periods.

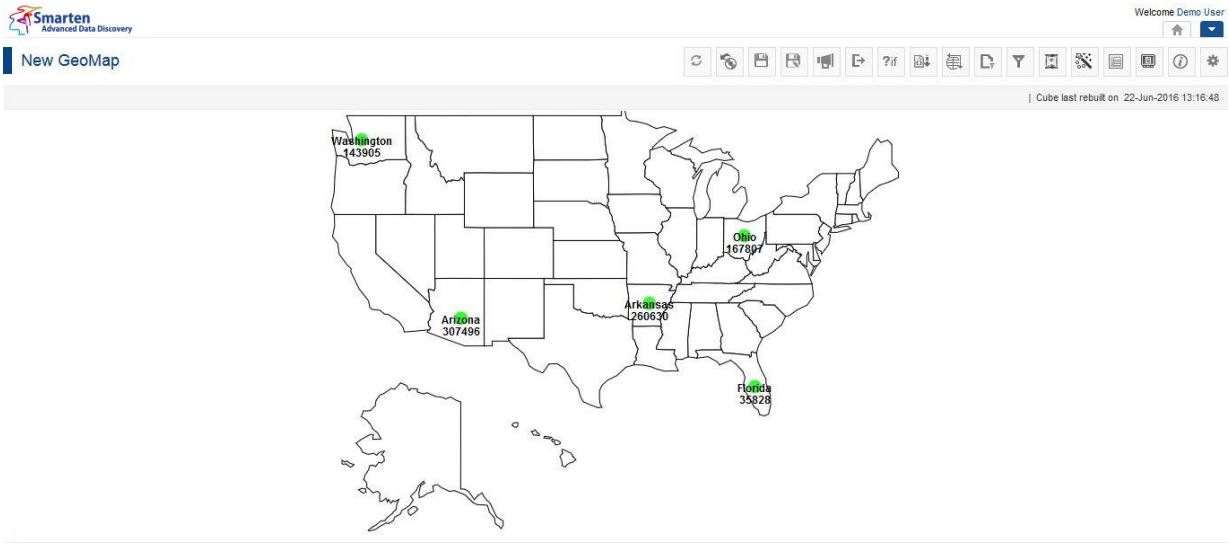
For example, to view GeoMap of Gross Sales for current year and previous year up to current date, you can use relative filtering (period to date).



GEOMAP BEFORE APPLYING RELATIVE TIME SERIES FILTER USING PERIOD TO DATE



GEOMAP: TIME SERIES: RELATIVE FILTERING: PERIOD TO DATE



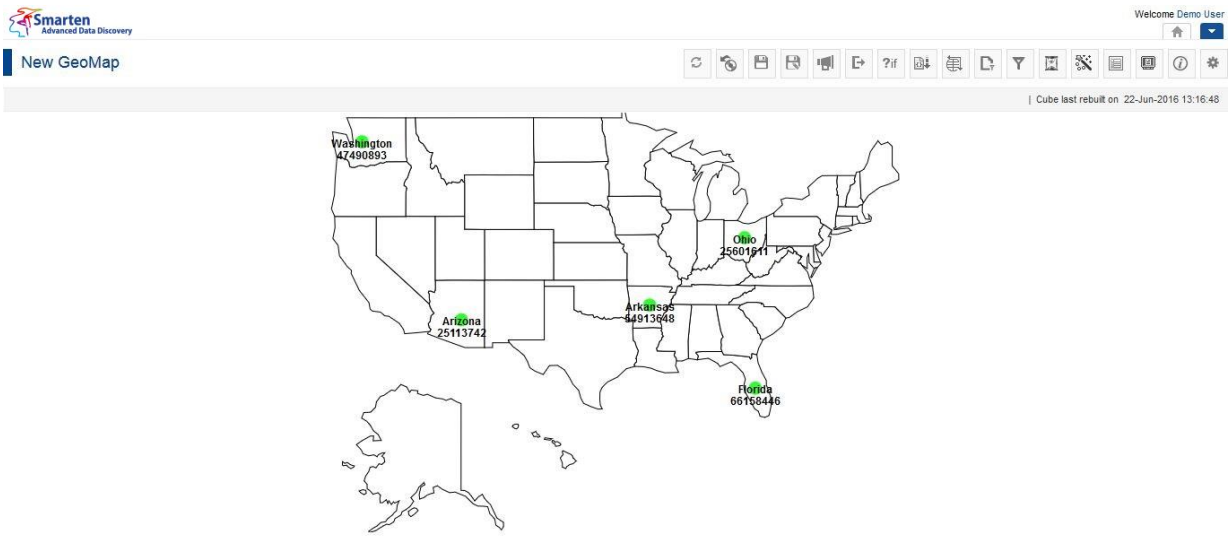
GEOMAP AFTER APPPLYING RELATIVE TIME SERIES FILTER USING PERIOD TO DATE

Reference:	**Concept Manual > Filters and Expressions > Time Series**
Reference:	**User Manual > Working with Crosstab > Time Series**
Reference:	**User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

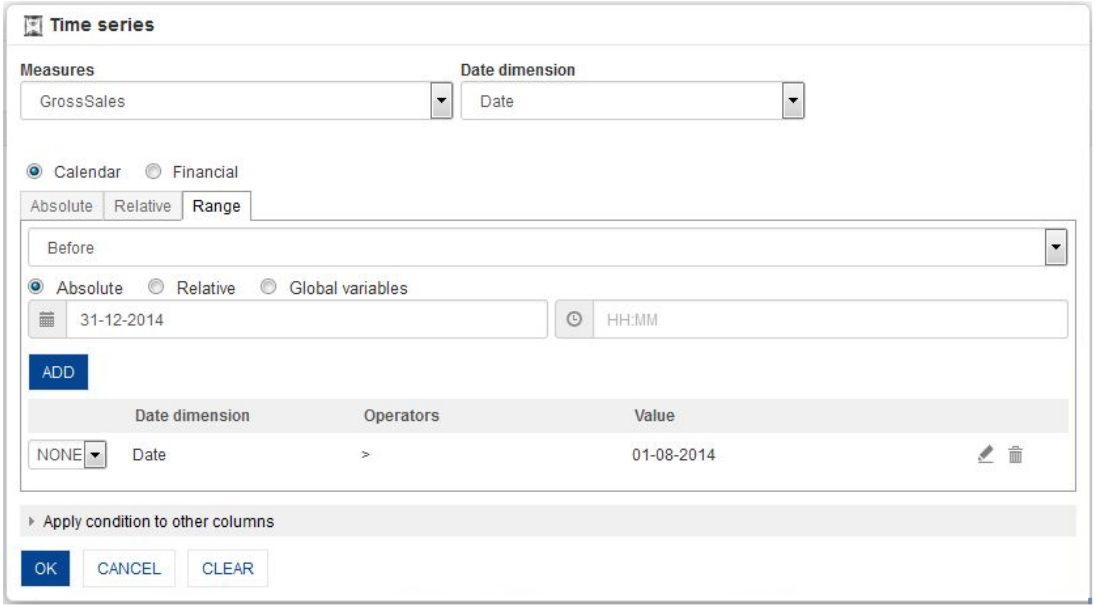
6.3.4.4 Range Time Series Filter

This option is used to filter time based on range and custom periods.

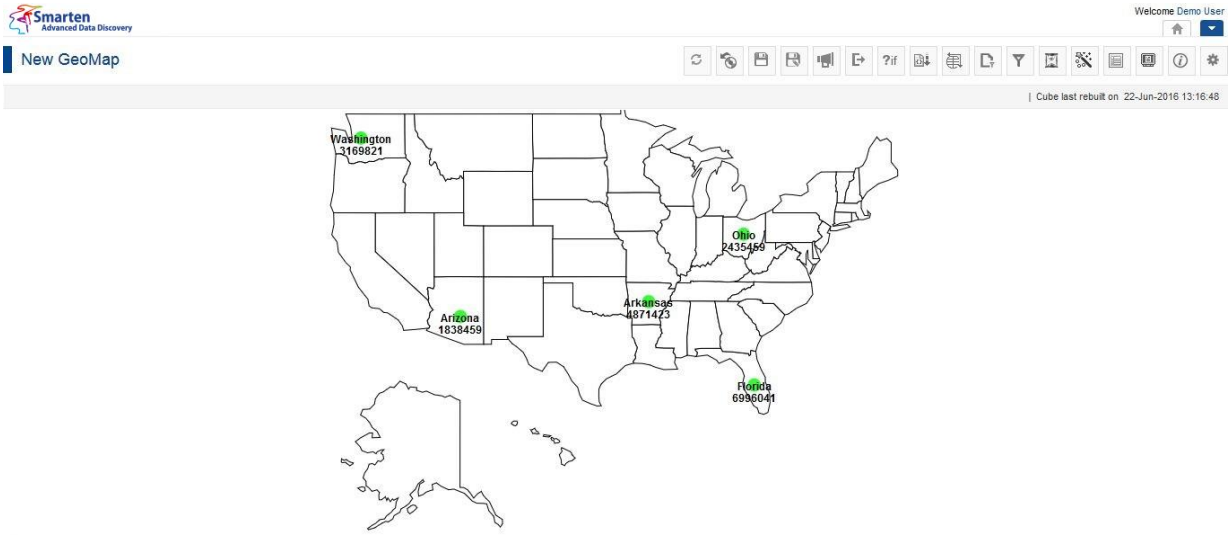
For example, to view GeoMap of Gross Sales for specific period, use range filtering.



GEOMAP BEFORE APPLYING RANGE TIME SERIES FILTER



GEOMAP: TIME SERIES: RANGE FILTERING



GEOMAP AFTER APPLYING RANGE TIME SERIES FILTER

Reference: **Concept Manual > Filters and Expressions > Time Series**

Reference: **User Manual > Working with Crosstab > Time Series**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

6.3.5 Page Dimension Filter

Page dimension filters can be used as a pivot filter on the GeoMap providing filtering on any dimension available in cube.

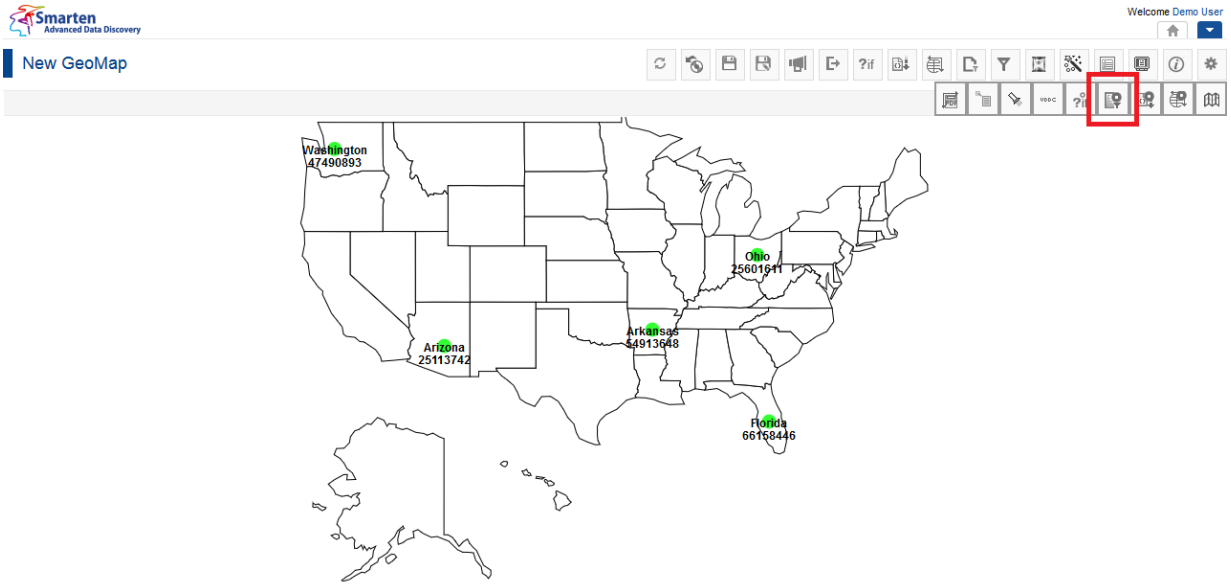
For example, using Year filter on Page, you can view the analysis for different years by selecting the page dimension filter from the drop-down list. You can also have multiple dimensions in page dimension filter.

Procedure

1. In the **Repository**, open GeoMap.

The system displays the selected GeoMap.

2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. In the Setting toolbar, Click **Manage page filers**.
   The system displays the **Manage page filters** dialog box.

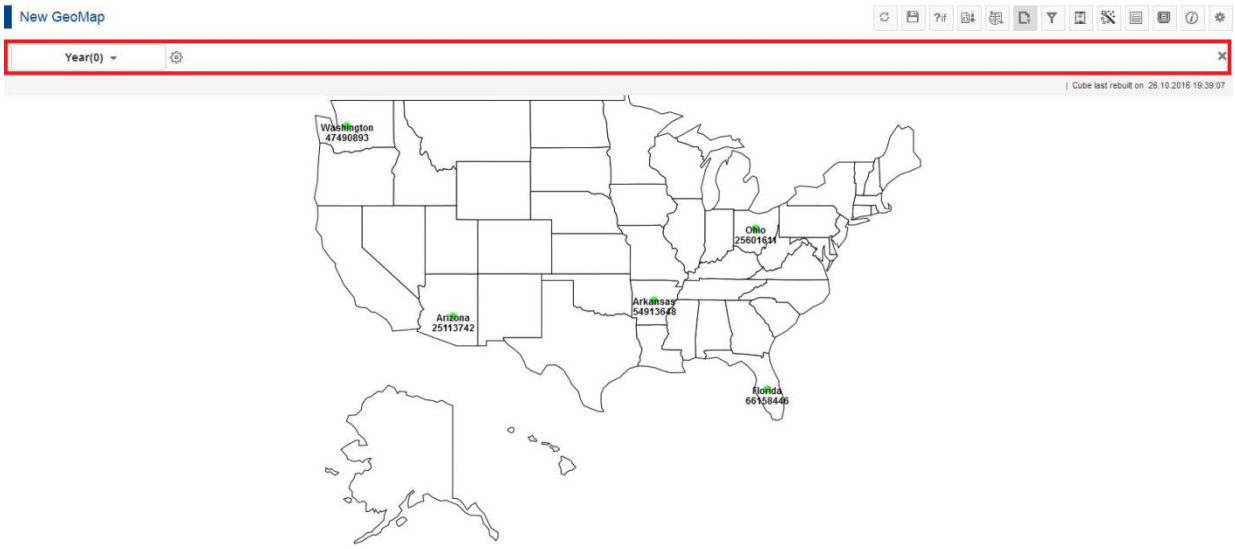


GEOMAP: MANAGE PAGE FILTER ICON

PAGE FILTER: SETTING PAGE FILTER COLUMN

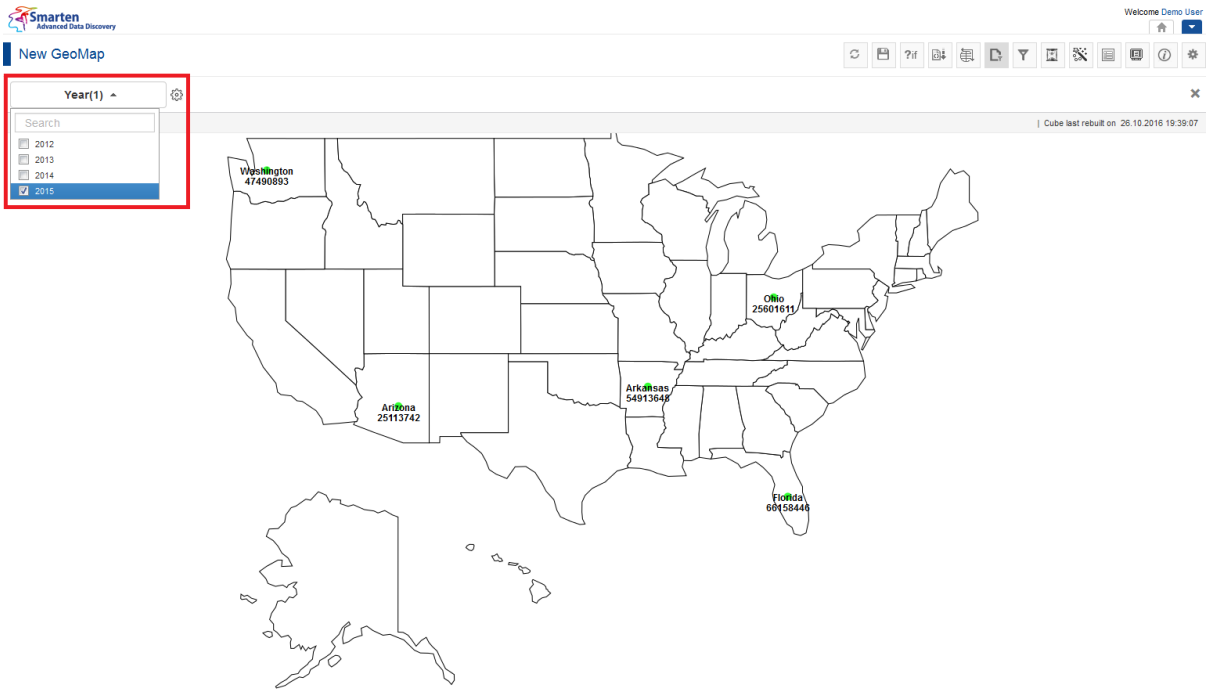
4. In the **Select Column** field, select column(s) from the drop-down list.
5. Click **OK**.

   The system will display page filter on the topmost part of tabular. If the page filter panel is not visible, you can click **Page Filter** icon on the toolbar. It is a toggle icon and will show / hide page filter panel.

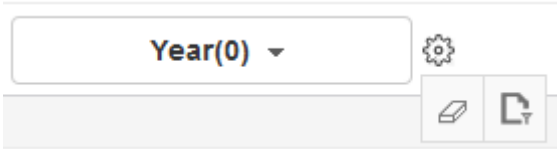


PAGE FILTER PANEL IN GEOMAP

6. To apply page filter, you can simply enter values in the text field of page filter.

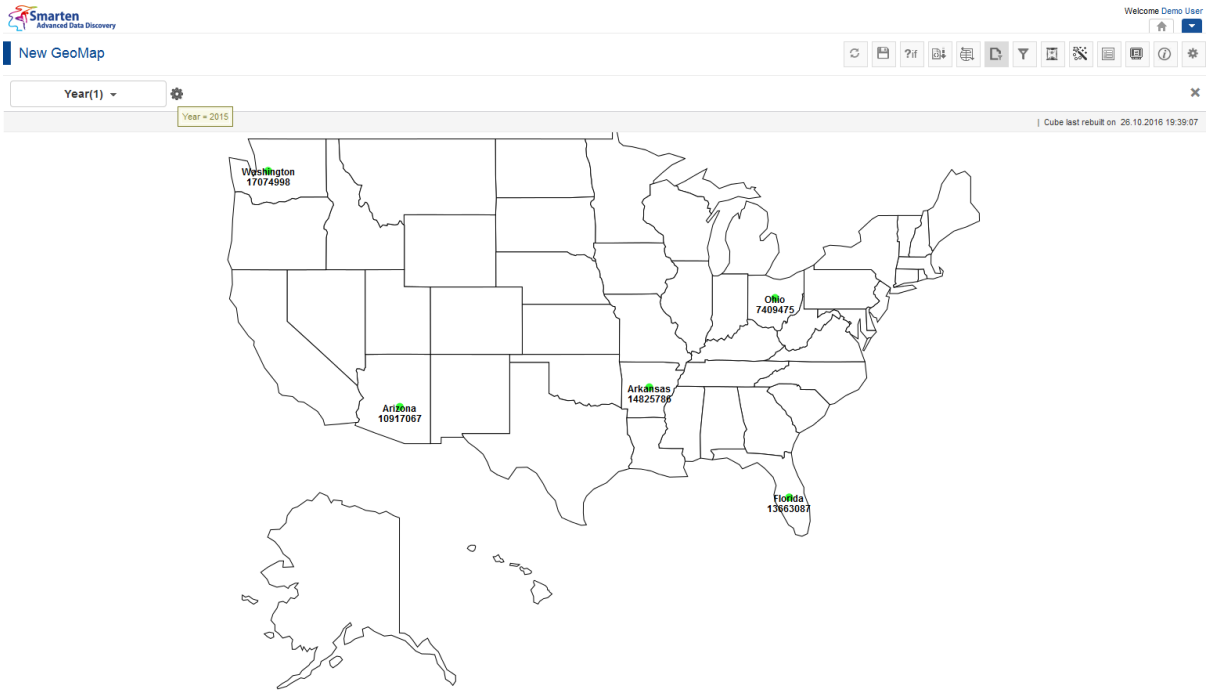


PAGE FILTER: SELECTING FILTER CRITERIA

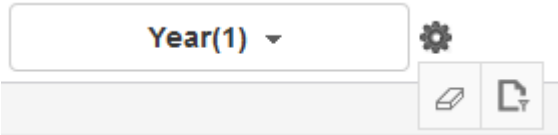


GEOMAP: PAGE FILTER IN THE PAGE FILTER PANEL BEFORE APLLYING FILTER CONDITION

7. Beside the page filter text box, click the **Setting** icon
8. The system displays two icons: **Clear** and **Advanced**.
9. Click **Clear** to remove the page filter values.
10. Click the **Advanced** icon.
    The system displays the **Advanced filter** dialog box based on column data type.



GEOMAP AFTER APPLYING PAGE FILTER

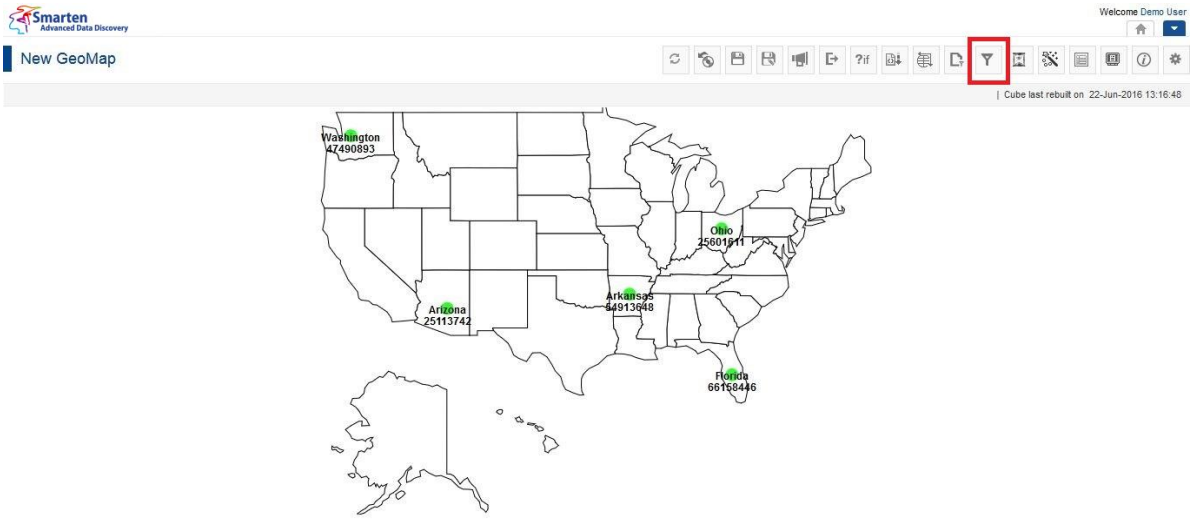


GEOMAP: PAGE FILTER IN THE PAGE FILTER PANEL AFTER APLLYING FILTER CONDITION

Reference:	**User Manual > Working with Crosstab > Page Dimension Filter**

6.3.6 Filter

This option is used to filter the GeoMap using expressions on dimensions and columns.

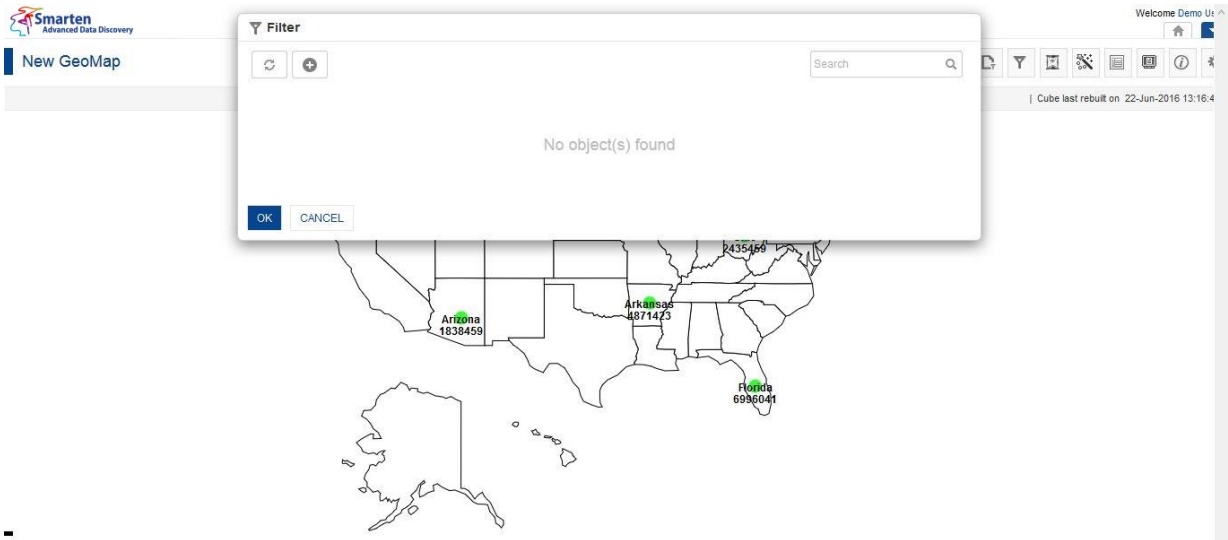


GEOMAP: FILTER ICON IT TOOLBAR

Procedure

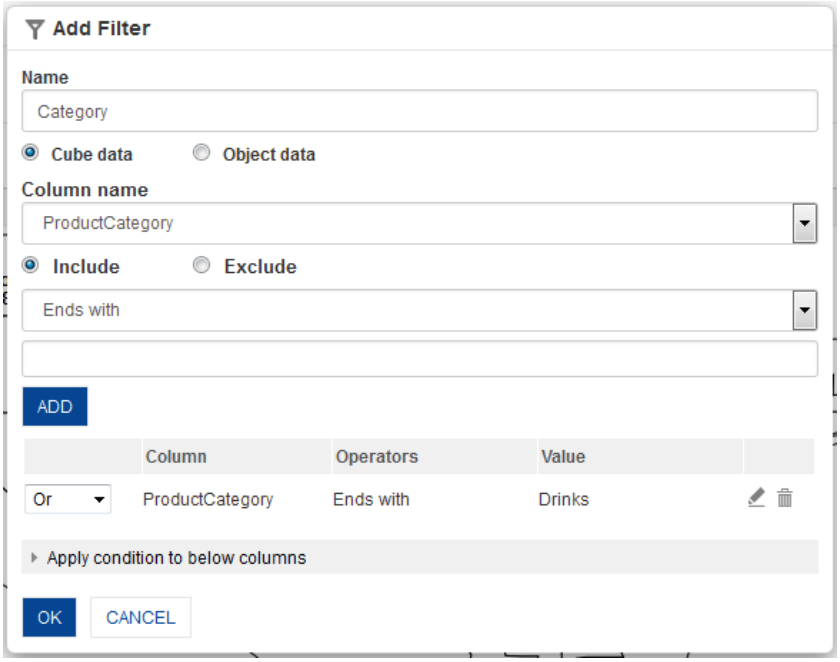
1. In the **Repository**, open GeoMap.
   The system displays the selected GeoMap.

2. In the GeoMap Toolbar, click **Filter**.
   The system displays the **Filter** dialog box.

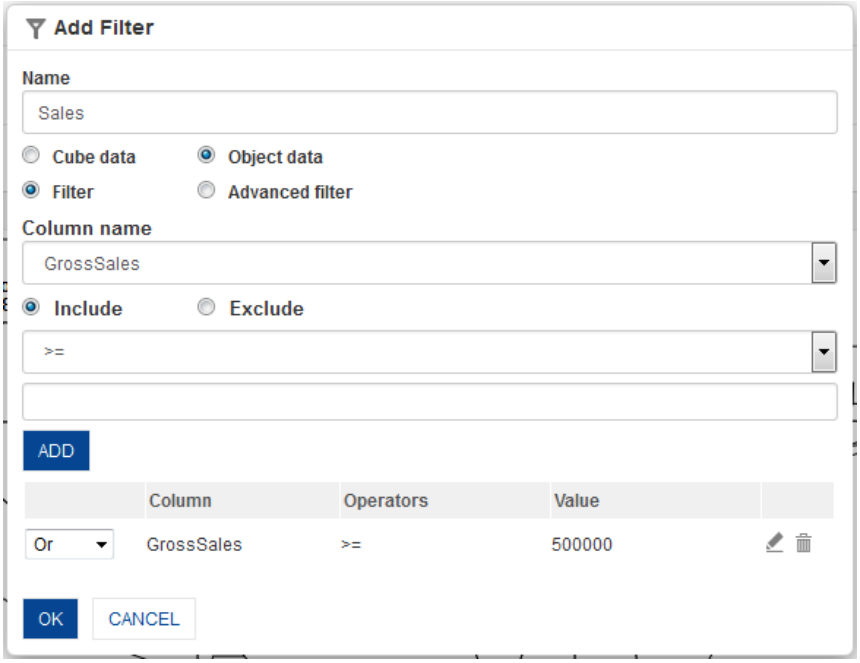


GEOMAP: FILTER: MANAGE FILTER TEMPLATE DIALOG

You can filter either on back-end data (cube data) or front-end data (object data). Back-end filters apply filter on cube data, while front-end filters apply filter on front-end (GeoMap) data.



GEOMAP: FILTER: CUBE DATA FILTER OPTION



GEOMAP: FILTER: OBJECT DATA FILTER OPTION

> Note:
> If cube data filter (back-end filter) is selected, the system will display all dimensions available in the cube and will not display any measures. Back-end filter on measure or custom measure is not available.
> If object data filter (front-end filter) is selected, the system will display all columns (dimensions, measures, and custom measures) available in the GeoMap. It will not display any other columns available in the cube except the columns that are used in the GeoMap.

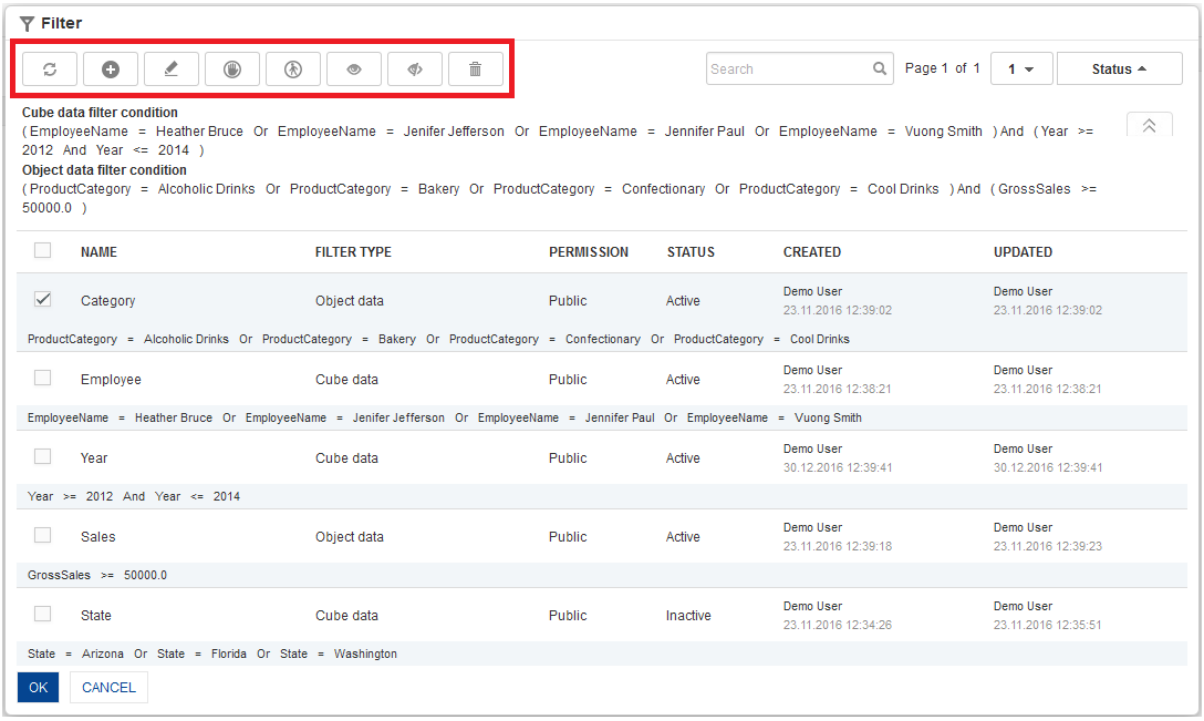
The **Filter** dialog box opens with filter based on data type of column—Numeric dimension, String dimension, Date dimension, or Measure.

Reference: **User Manual > Working with Crosstab > Filter**
Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

6.3.6.1 Create & Manage Templates

Procedure

1. Follow the **Procedure** of **Filter**.
2. In the **Filter** dialog box, select a checkbox in front of a filter.
   The system displays a toolbar for managing tool template.



GEOMAP: CREATE AND MANAGE FILTER TEMPLATE

GEOMAP: CREATE AND MANAGE FILTER TEMPLATE TOOLBAR

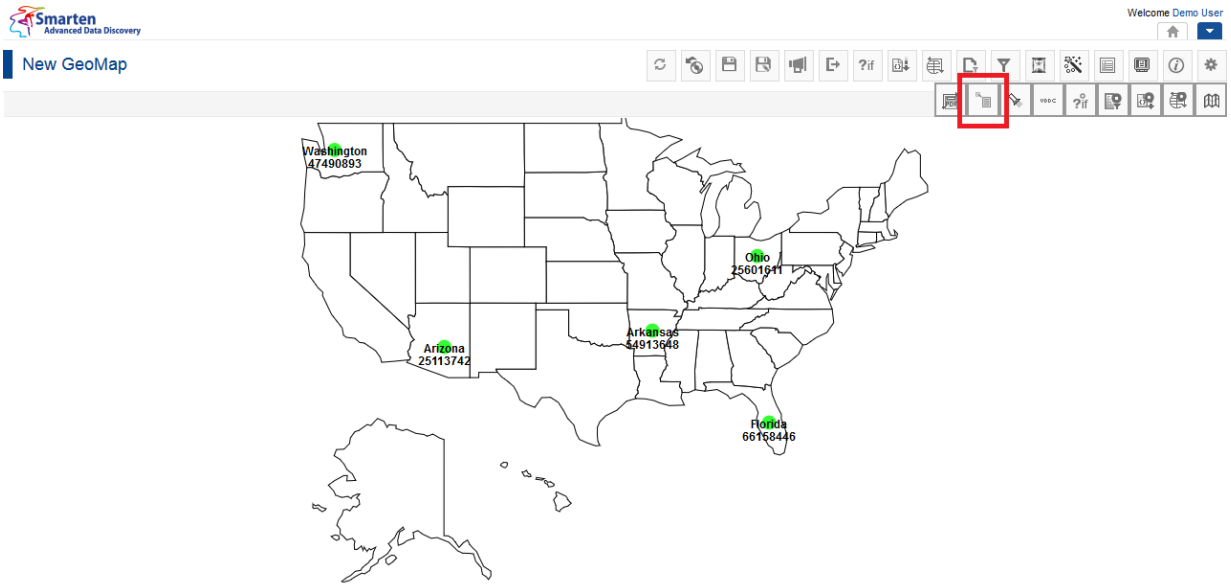
Icon	Icon name
	Refresh
	Add
	Edit
	Private
	Public
	Active
	Inactive
	Delete

GEOMAP: CREATE AND MANAGE FILTER TEMPLATE TOOLBAR OPTIONS

> Note:
> Templates can be edited or deleted only by creator of the template or the administrator.

6.3.7 Data Value/Display Value Mapping

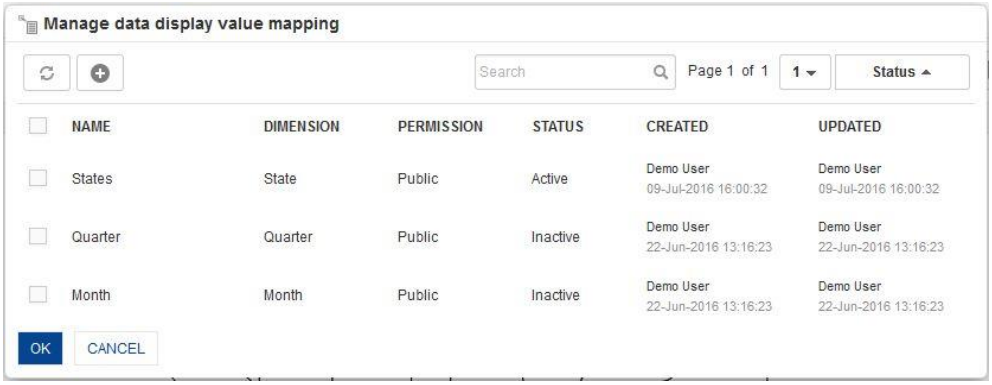
Use Data value/display value mapping to display alternate text for specific data values.



GEOMAP: MANAGE DDVM ICON

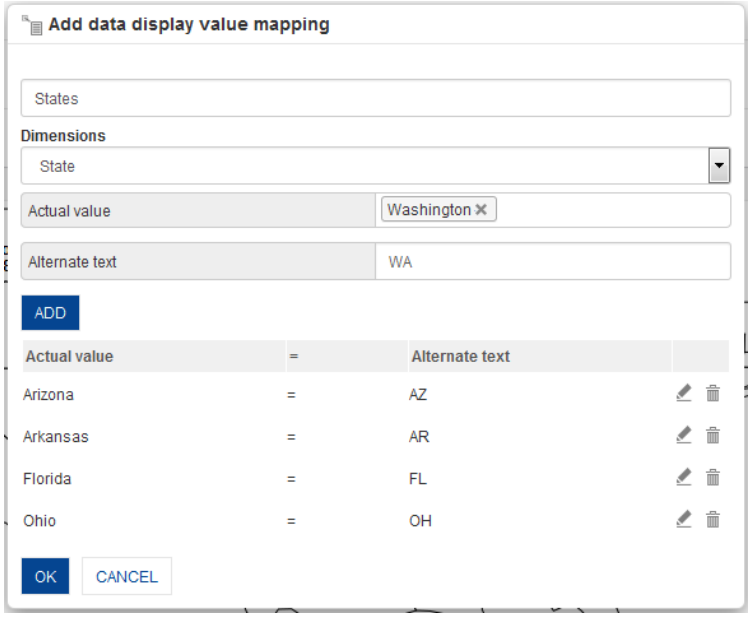
Procedure

1. In the **Repository**, open GeoMap.
   The system displays the selected GeoMap
2. In the upper right-hand corner, click **Setting**.
   The system displays the Setting Toolbar.
3. Click **Manage data display value mapping**.
   The system displays the **Manage data display value mapping** dialog box.



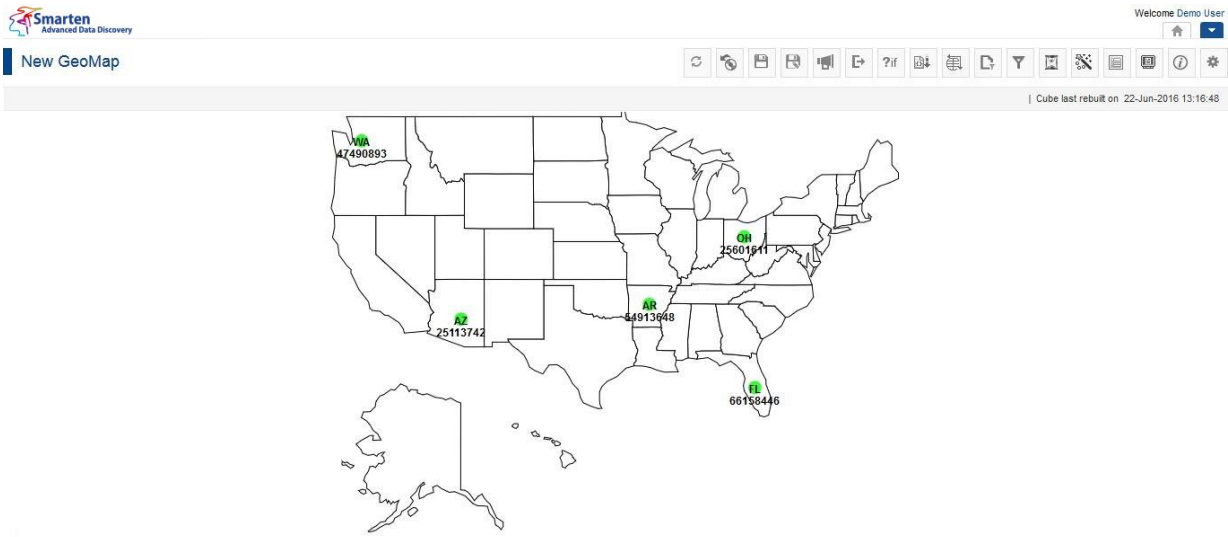
GEOMAP: MANAGE DATA DISPLAY VALUE MAPPING

4. In the Manage data display value mapping dialog box, click **Add** icon.
   The system displays the Add data display value mapping dialog box.



GEOMAP: MAP DATA VALUE: MAPPING DATA VALUE

5. In the **name** field, enter a name.
6. In the **Dimension** drop-down list, select a dimension.
7. In the **Actual value** field, select a value.
8. In the **Alternate text** field, enter a value.
9. Click **ADD**.
10. The system displays the selected values. You can also delete the added values by clicking **Delete** icon.
11. Click **OK**.



GEOMAP: AFTER APPLYING DATA VALUE DISPLAY VALUE MAPPING

Reference: **Concept Manual > Analytic Functions > Data value / Display value mapping**

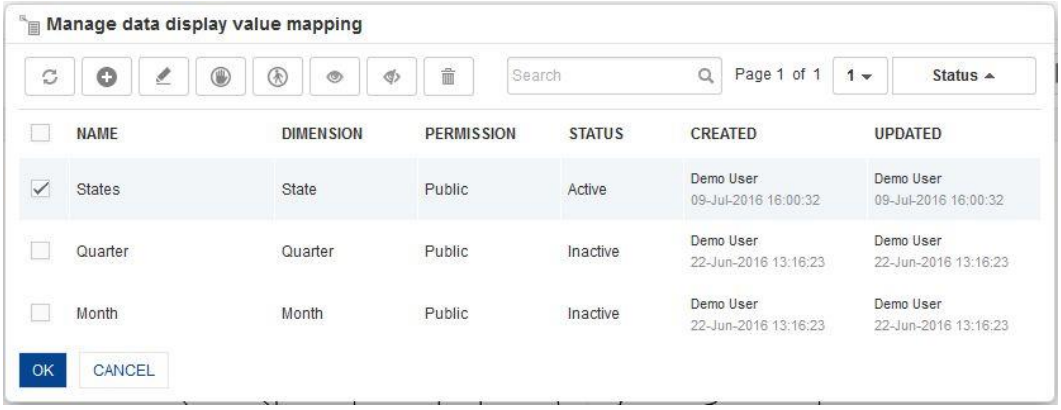
6.3.7.1 Create & Manage Templates

Procedure

1. In the **Repository**, open GeoMap.
   The system displays the selected GeoMap.

2. In the upper right-hand corner, click **Setting**.
   The system displays the Setting Toolbar.
3. Click **Manage data display value mapping**.
   The system displays the **Manage data display value mapping** dialog box.
4. In the **Manage data display value mapping** dialog box, select a checkbox in front of a DDVM name.

   The system displays a toolbar for managing tool template.



GEOMAP: CREATE AND MANAGE DATA DISPLAY VALUE MAPPING TEMPLATES

GEOMAP: CREATE AND MANAGE DATA DISPLAY VALUE MAPPING TOOLBAR

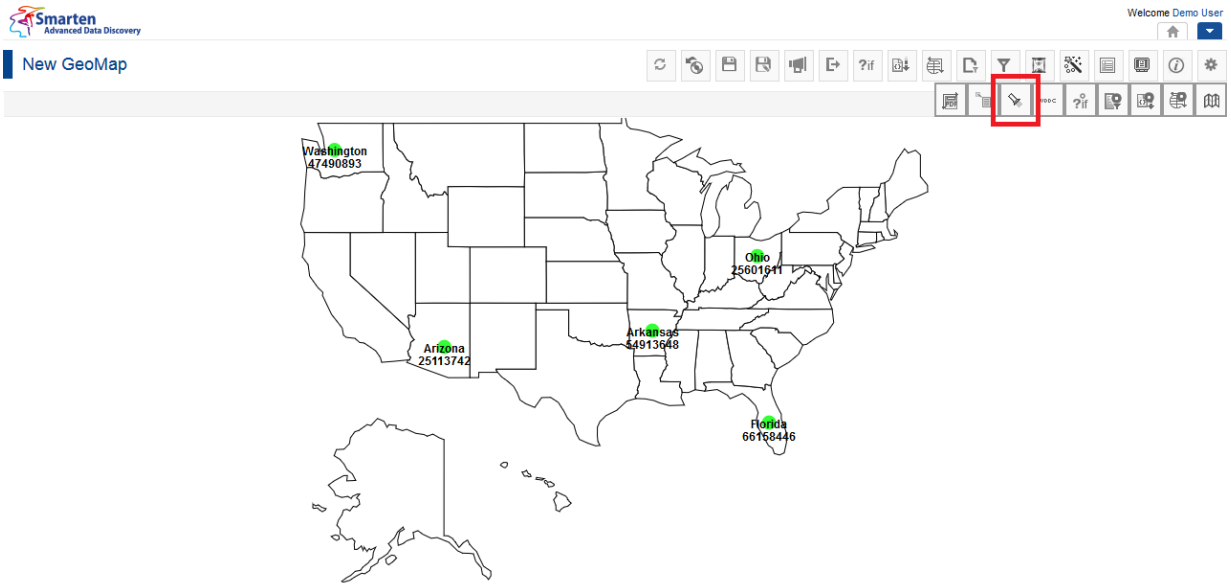
Icon	Icon name
	Refresh
	Add
	Edit
	Private
	Public
	Active
	Inactive
	Delete

GEOMAP: CREATE AND MANAGE DATA DISPLAY VALUE MAPPING TOOLBAR OPTIONS

> Note:
> Templates can be edited or deleted only by creator of the template or the administrator.

6.3.8 Spotlighter

Spotlighter is used to highlight specific map area based on conditional values to view data patterns at a glance. You can highlight multiple map areas. You can assign area color, color, border width and border color of Marker, and Data value color to highlight the map area.

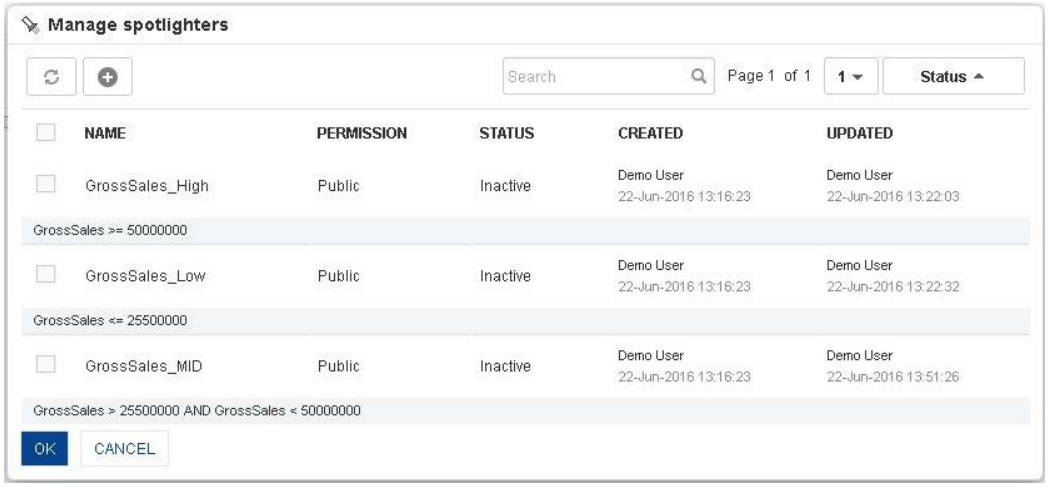


GEOMAP: MANAGE SPOTLIGHTERS ICON

Procedure

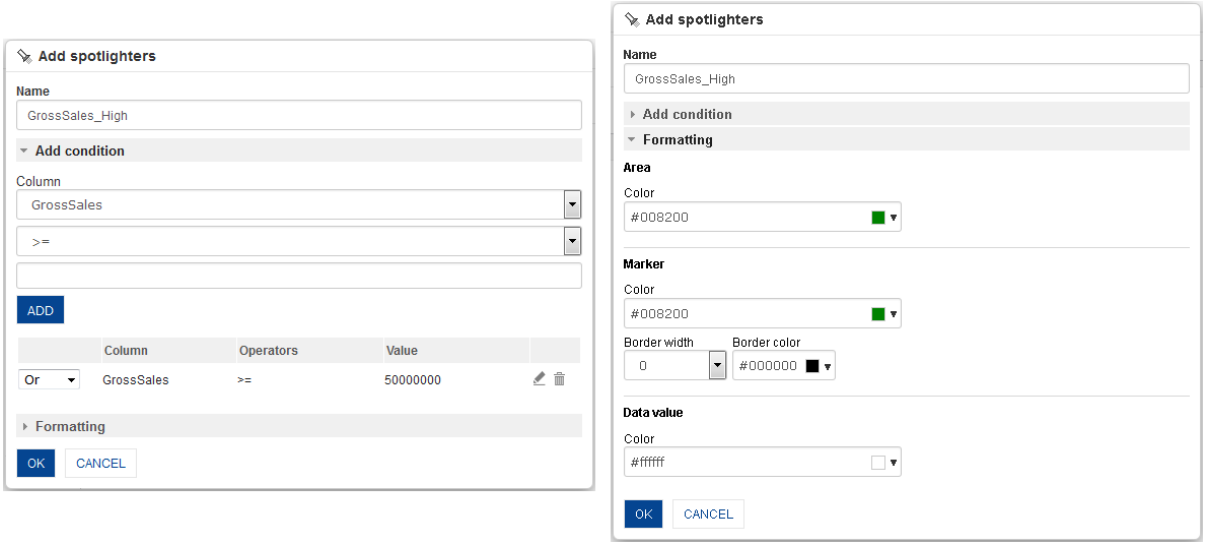
1. In the **Repository**, open GeoMap.
   The system displays the selected GeoMap.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar
3. Click **Manage spotlighters.**

   The system displays the **Manage spotlighters** dialog box



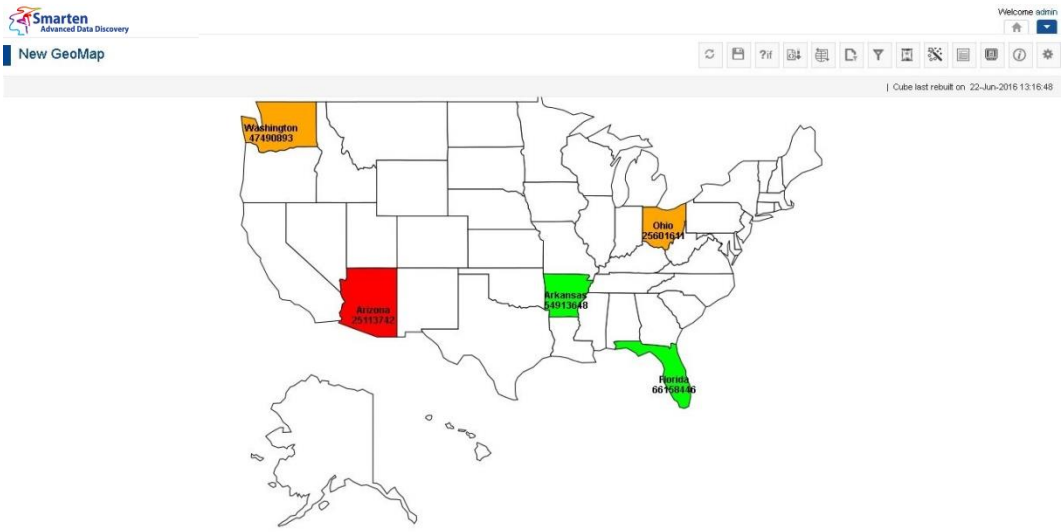
GEOMAP: MANAGE SPOTLIGHTERS DIALOG

4. In the Manage spotlighters dialog box, click **Add** icon.
   The system displays the Add spotlighters dialog box.



GEOMAP: ADD SPOTLIGHTER

5. In the **Name** field, enter a name.
6. In the **Add Condition** section, select a value from the **Column** drop-down list.
7. In the **Operator** drop-down list, select an operator.
8. In the drop-down list, select a value.
9. Click **ADD.** You can also include multiple conditions by clicking **Add.**
   The system displays the column name, selected operator, value and operator dropdown.
   You can also delete the added condition by clicking **Delete** icon.
10. In the **Formatting** section, select a color in the **Area color** field.
11. In the **Marker color** field, select a color.
12. In the **Marker border width** field, select a border width.
13. In the **Marker border color** field, select a color.
14. In the **Data value color** field, select a color.
15. Click **OK.**



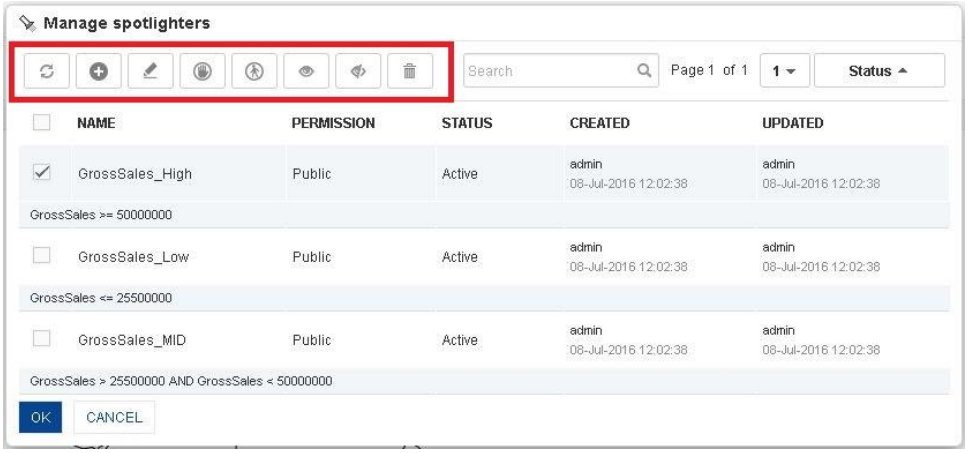
GEOMAP AFTER SPOTLIGHTER

6.3.8.1 Create & Manage Templates

The created **Spotlighter** conditions can be saved in the **GeoMap Spotlighter** template. These conditions can be reused by various users while creating different GeoMap.

Procedure

1. In the **Repository**, open GeoMap.
   The system displays the selected GeoMap.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage Spotlighters.**
   The system displays the **Manage Spotlighters** dialog box. Select a checkbox in front of a spotlighter name.
   The system displays a toolbar for managing spotlighters template.



GEOMAP: CREATE AND MANAGE SPOTLIGHTERS TEMPLATE

GEOMAP: CREATE AND MANAGE SPOTLIGHTERS TEMPLATE TOOLBAR

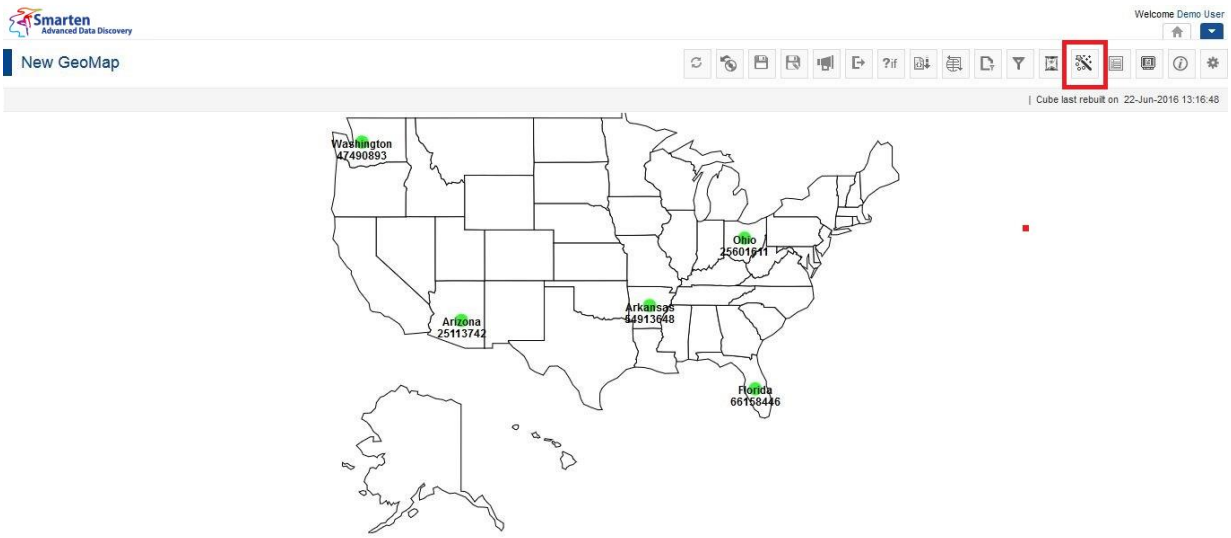
Icon	Icon name
	Refresh
	Add
	Edit
	Private
	Public
	Active
	Inactive
	Delete

GEOMAP: CREATE AND MANAGE SPOTLIGHTERS TEMPLATE TOOLBAR OPTIONS

Note:
Templates can be edited or deleted only by creator of the template or the administrator.
Templates created in GeoMap cannot be used in other objects such as Crosstab or Tabular and vice versa.

6.3.9 Data Operations

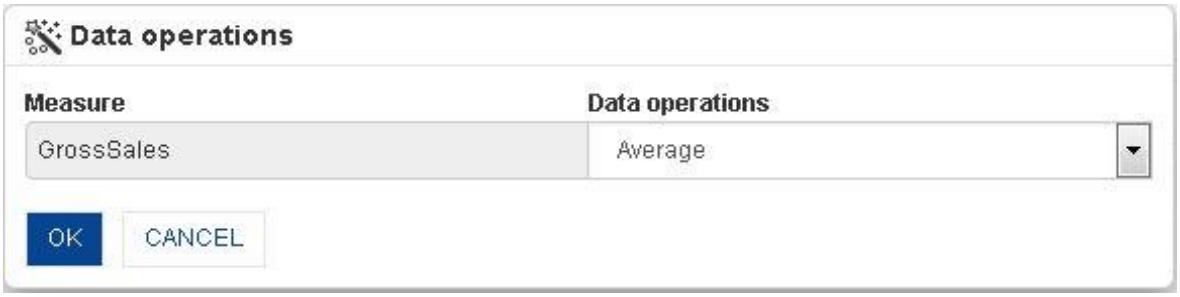
The Data Operation function is used to perform basic mathematical operations on any data in the GeoMap.



GEOMAP: DATA OPERATION ICON

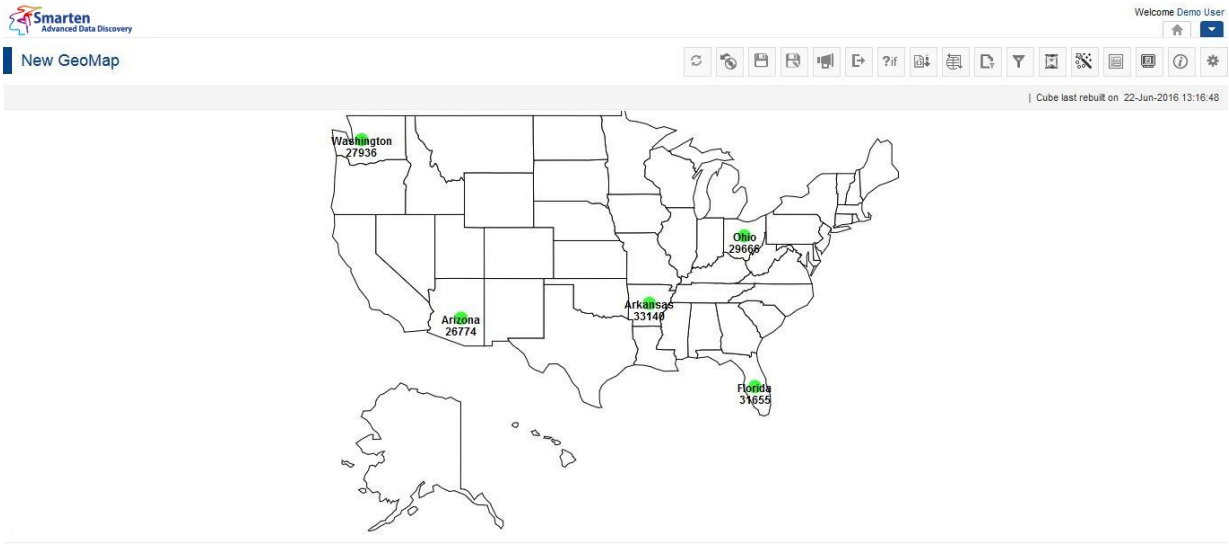
Procedure

1. In the **Repository**, open GeoMap.
   The system displays the selected GeoMap.
2. In the GeoMap Toolbar, click **Data operations.**
   The system displays the **Data operations** dialog box.



GEOMAP: DATA OPERATION: AVERAGE

3. In the **Data operations** drop-down list, select a function. For example, select **Average** for viewing data with Average of Gross Sales.
4. Click **OK** to set the data operation.



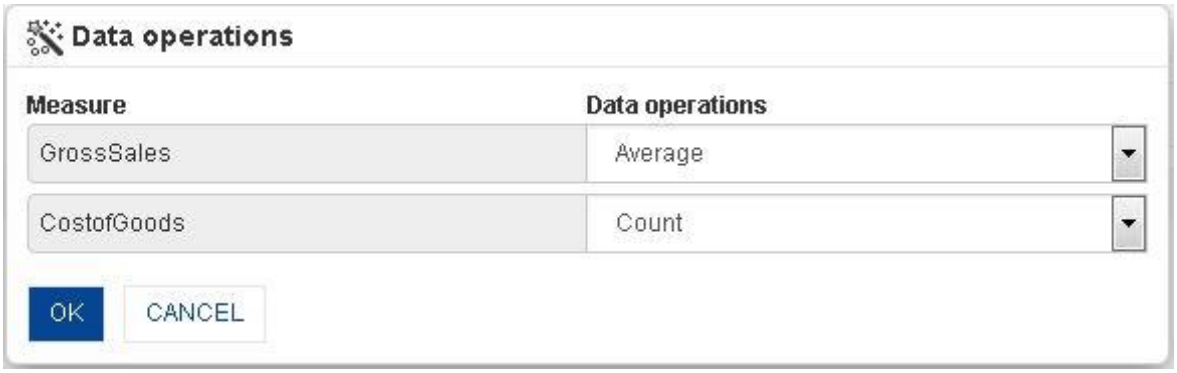
AVERAGE STATEWISE GROSS SALES

To add data operation on multiple measures

If you have multiple measures in GeoMap, you can select different data operations for different measures.

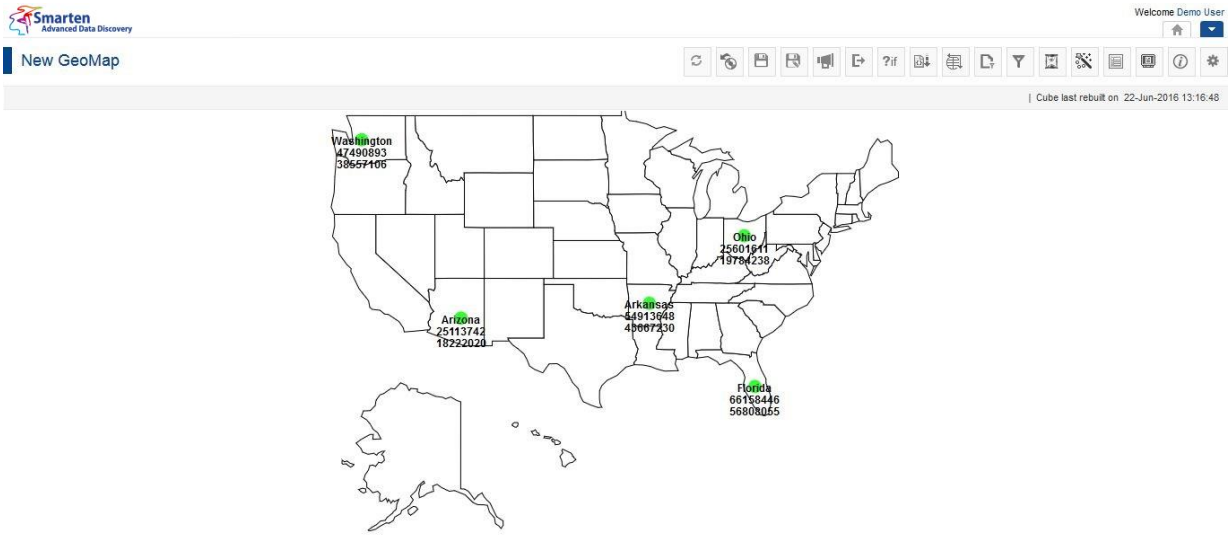
Procedure

5. In the **Repository**, open GeoMap.
   The system displays the selected GeoMap.
6. In the GeoMap Toolbar, click **Data operations.**
   The system displays the **Data operations** dialog box.

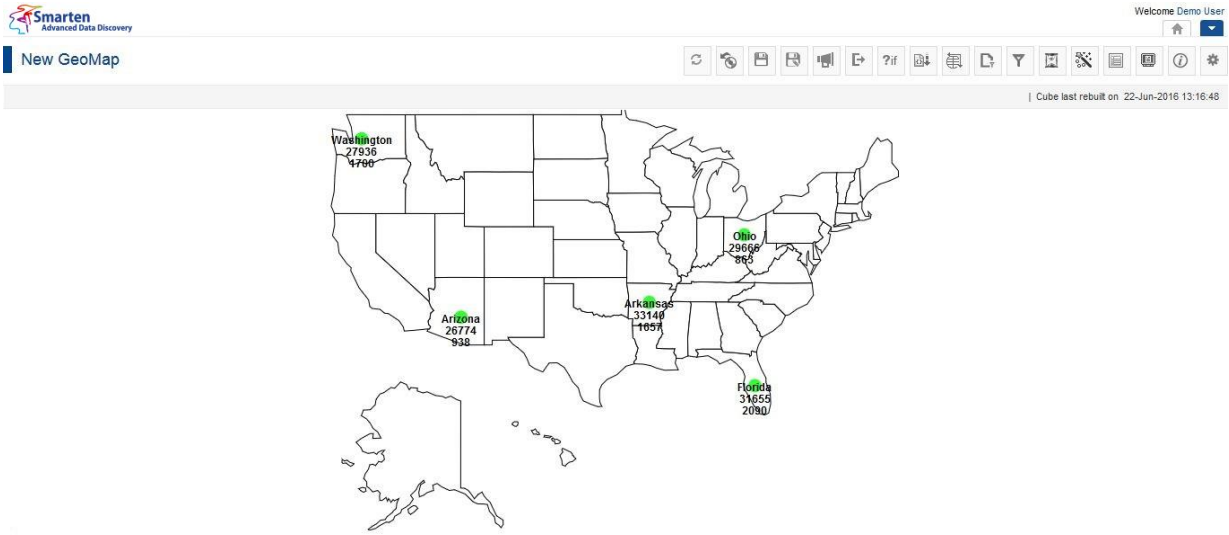


GEOMAP: MULTIPLE DATA OPERATIONS

7. In the **Data operations** drop-down list, select the operation for different **Measures** from the drop-down list. For example, select **Sum** operation for **GrossSales** and **Average** operation for **CostofGoods**.
8. Click **OK** to set the data operation.



GEOMAP: BEFORE DATA OPERATION



GEOMAP: AFTER DATA OPERATION ON MULTIPLE MEASURES

Reference:	**Concept Manual > Analytic Functions > Data Operations**
Reference:	**User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

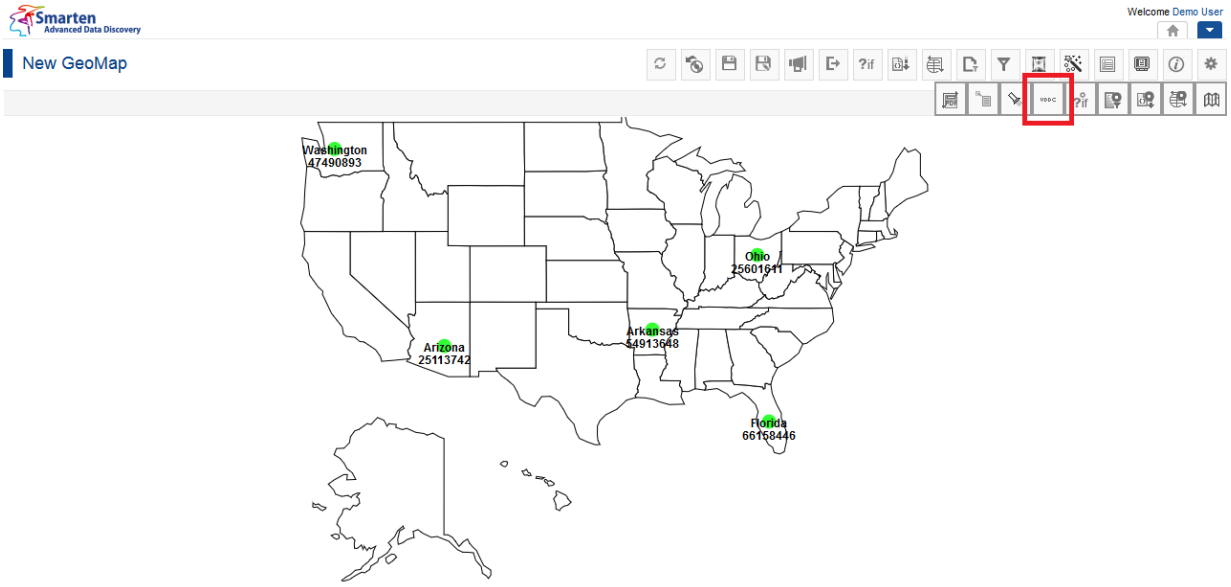
You can select from available data operations:

- **Sum:** Total/Sum of all values across row or column in the analysis
- **Average:** Average of all values at the cube record level
- **Effective Average:** Average of all “not null” values at the cube record level
- **Count:** Count of all values at cube record level
- **Effective count:** Count of all not null value at cube record level
- **Maximum:** Greatest among all the values at cube record level
- **Minimum:** Lowest among all the values at cube record level
- **First:** First among all the values at cube record level
- **Last:** Last among all the values at cube record level
- **Row Percentage:** Percentage value against row level summary within the same row

- **Row Group Percentage:** Percentage value against row group level summary (within the same group)
- **Column Percentage:** Percentage value against column level summary within the same column
- **Column Group Percentage:** Percentage value against column group level summary (within the same group)
- **Total Percentage:** Percentage value against the total cross-tab sum
- **Relative Row Difference:** Difference with respect to the previous row value
- **Relative Row Difference Percentage:** Difference with respect to the previous row value in percentage
- **Relative Row Group Difference:** Difference with respect to the previous row value (within same group)
- **Relative Row Group Difference Percentage:** Difference with respect to the previous row value (within same group) in percentage
- **Relative Column Difference:** Difference with respect to the previous column value
- **Relative Column Difference Percentage:** Difference with respect to the previous column value in percentage
- **Relative Column Group Difference:** Difference with respect to the previous column value (within the same group)
- **Relative Column Group Difference Percentage:** Difference with respect to the previous column value (within the same group) in percentage
- **Row Cumulative Sum:** Row-wise cumulative sum of all previous values for every column
- **Column Cumulative Sum:** Column wise cumulative sum of all previous values for every row
- **Row Group Cumulative Sum:** Row-wise cumulative sum of all previous values for every column (within the same group)
- **Column Group Cumulative Sum:** Column wise cumulative sum of all previous values for every row (within the same group)
- **Distinct Count:** – Unique (Distinct) count value of specified dimension
- **Distinct Sum:** Sum of Unique (Distinct) values of specified dimension
- **Distinct Average:** Average of Unique (Distinct) values of specified dimension
- **Least Recent:** Least recent of all values
- **Most Recent:** Most recent of all values

6.3.10 Custom Measure (UDDC)

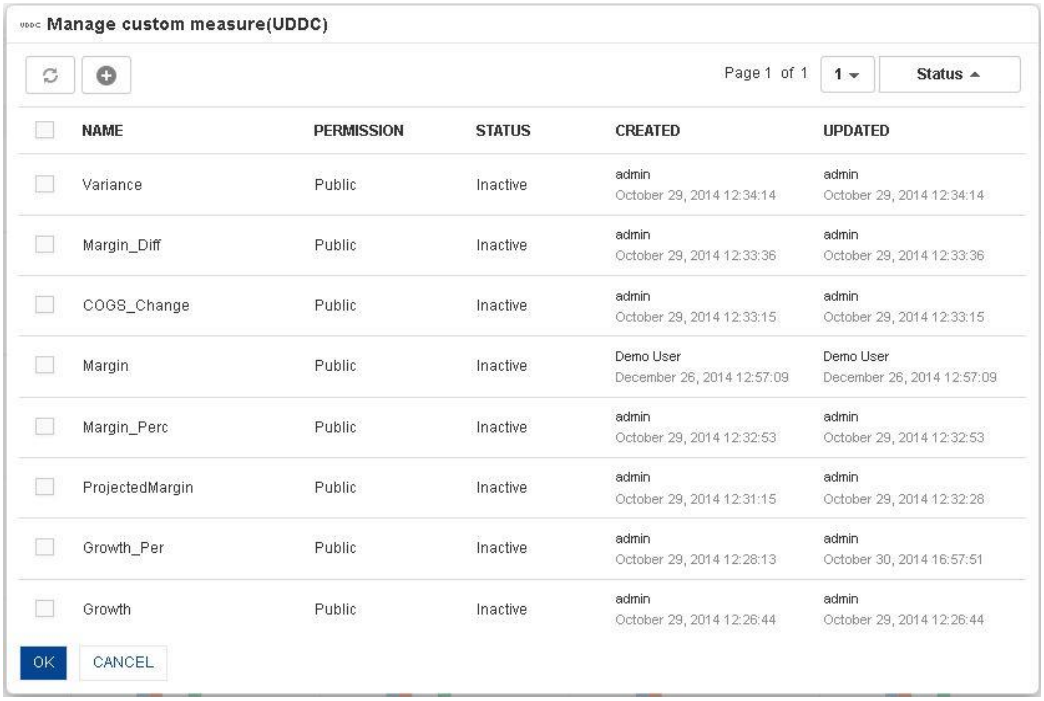
Custom measures can be created by building expression on existing columns.



GEOMAP: MANAGE UDDC ICON

Procedure

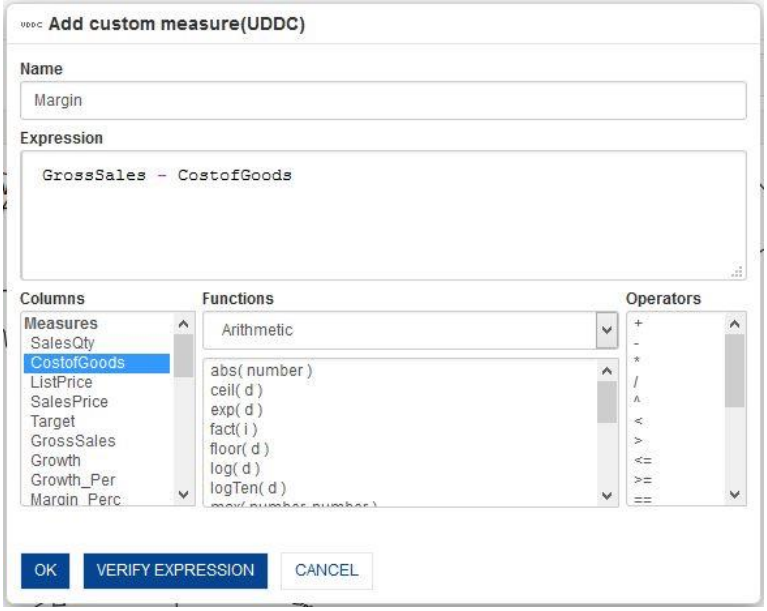
1. In the **Repository**, open GeoMap.
   The system displays the selected GeoMap.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage UDDC.**
   The system displays the **Manage custom measure (UDDC)** dialog box.



NAME	PERMISSION	STATUS	CREATED	UPDATED
Variance	Public	Inactive	admin October 29, 2014 12:34:14	admin October 29, 2014 12:34:14
Margin_Diff	Public	Inactive	admin October 29, 2014 12:33:36	admin October 29, 2014 12:33:36
COGS_Change	Public	Inactive	admin October 29, 2014 12:33:15	admin October 29, 2014 12:33:15
Margin	Public	Inactive	Demo User December 26, 2014 12:57:09	Demo User December 26, 2014 12:57:09
Margin_Perc	Public	Inactive	admin October 29, 2014 12:32:53	admin October 29, 2014 12:32:53
ProjectedMargin	Public	Inactive	admin October 29, 2014 12:31:15	admin October 29, 2014 12:32:28
Growth_Per	Public	Inactive	admin October 29, 2014 12:28:13	admin October 30, 2014 16:57:51
Growth	Public	Inactive	admin October 29, 2014 12:26:44	admin October 29, 2014 12:26:44

GEOMAP: CREATE AND MANANGE CUSTOM MEASURE (UDDC) TEMPLATE

4. In the **Manage custom measure (UDDC)** dialog box, click **Add** icon.
   The system displays the **Add custom measure (UDDC)** dialog box.

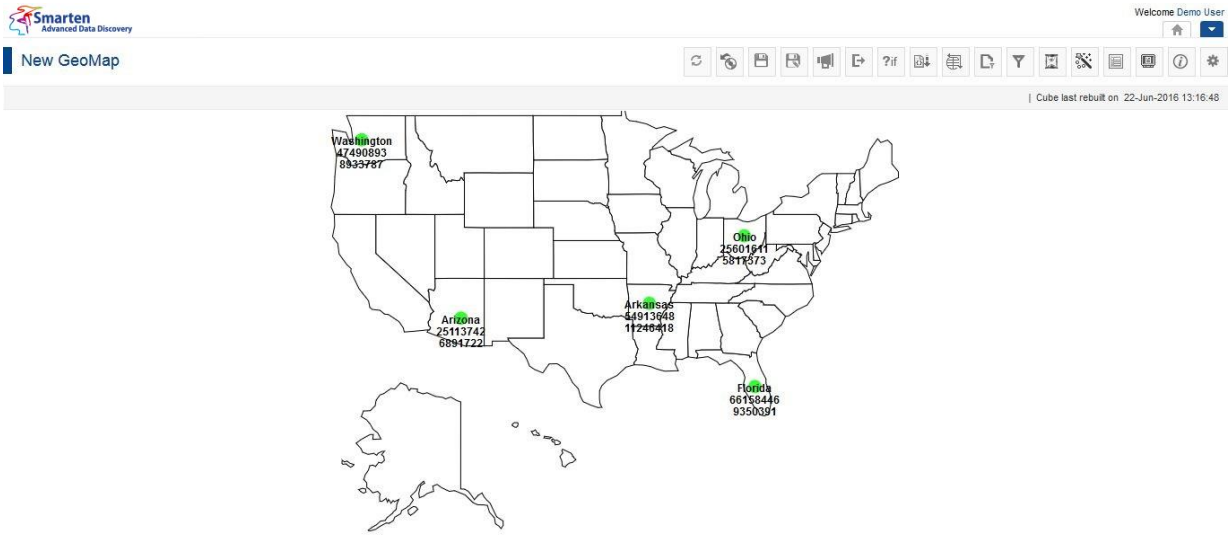


GEOMAP: ADD CUSTOM MEASURES (UDDC)

5. In the **Name** field, enter a name.
6. You can create or edit expression by direct edit in the **Expression** box or by selecting values from Dimension Values, Functions, and Operators boxes.
7. Click **OK**.

Field	Description
Name	Shows Custom Measures (UDDC) Name
Source Columns	Displays list of source columns
Functions	Select Functions from available list
Operators	Select any operator
Expression Builder	Created expression is displayed

TABLE: GEOMAP: CUSTOM MEASURES (UDDC)



GEOMAP: WITH CUSTOM MEASURE (UDDC) MARGIN

Reference: **Concept Manual >Designing the Data Model >Cube Repository Objects > Custom Measures (UDDC)**

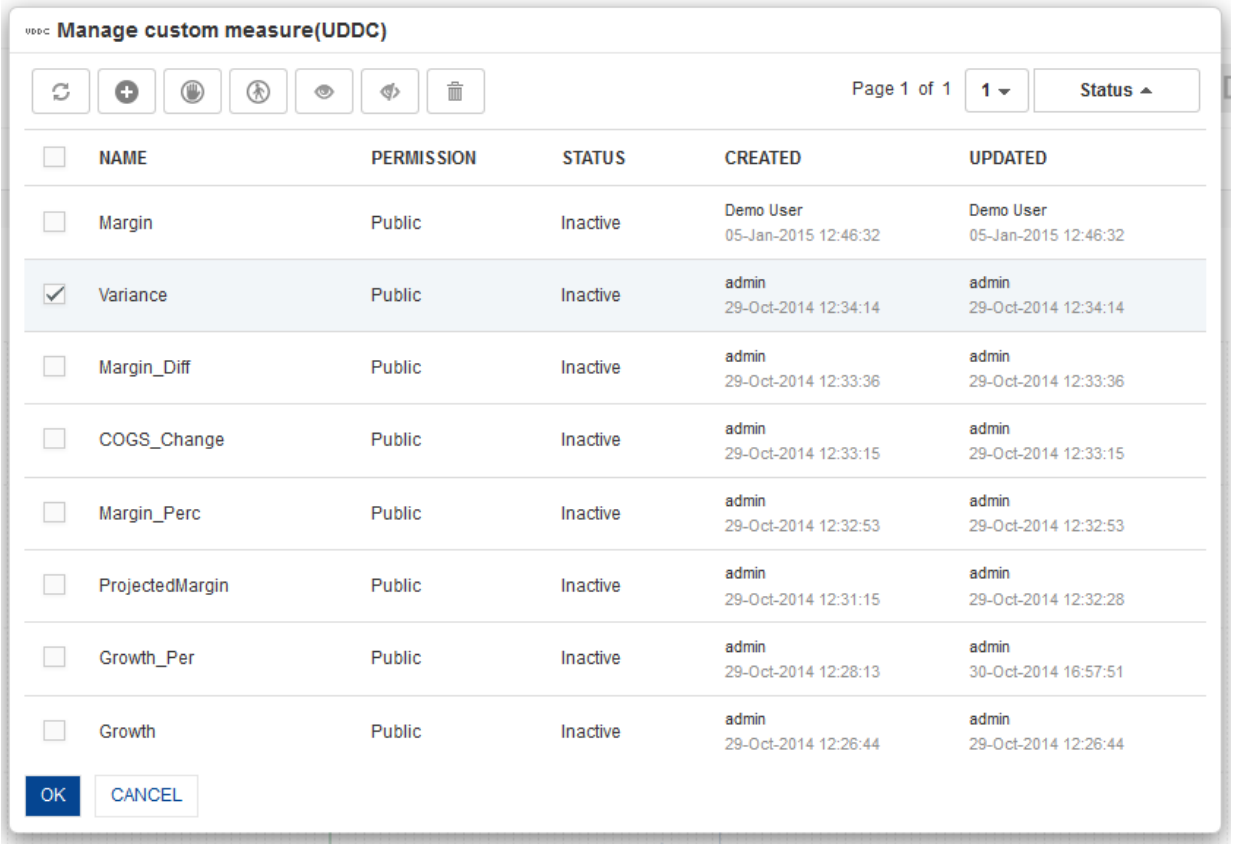
Reference: **Concept Manual > Analytic Functions > UDDC & UDHC > Custom Measures (UDDC)**

6.3.10.1 Create & Manage Templates

The Custom Measures (UDDC) operation used in GeoMap is available as templates in Smarten. The Custom Measure (UDDC) available in templates can be reused by various users while creating different analysis objects such as crosstab, graphs or tabular.

Procedure

1. In the **Repository**, open GeoMap.
   The system displays the selected GeoMap.
2. In the upper right-hand corner, click **Setting**.
   The system displays the Setting Toolbar.
3. Click **Manage UDDC**.
   The system displays the **Manage custom measure (UDDC)** dialog box.
4. In the **Manage custom measure (UDDC)** dialog box, select a checkbox in front of a custom measure name.
   The system displays a toolbar for managing custom measure (UDDC) template.



GEOMAP: MANAGE CUSTOM MEASURE (UDDC) TEMPLATE

GEOMAP: MANAGE CUSTOM MEASURE (UDDC) TEMPLATE TOOLBAR

Icon	Icon name
	Refresh
	Add
	Private
	Public
	Active
	Inactive
	Delete

GEOMAP: CUSTOM MEASURE (UDDC) TEMPLATE TOOLBAR OPTIONS

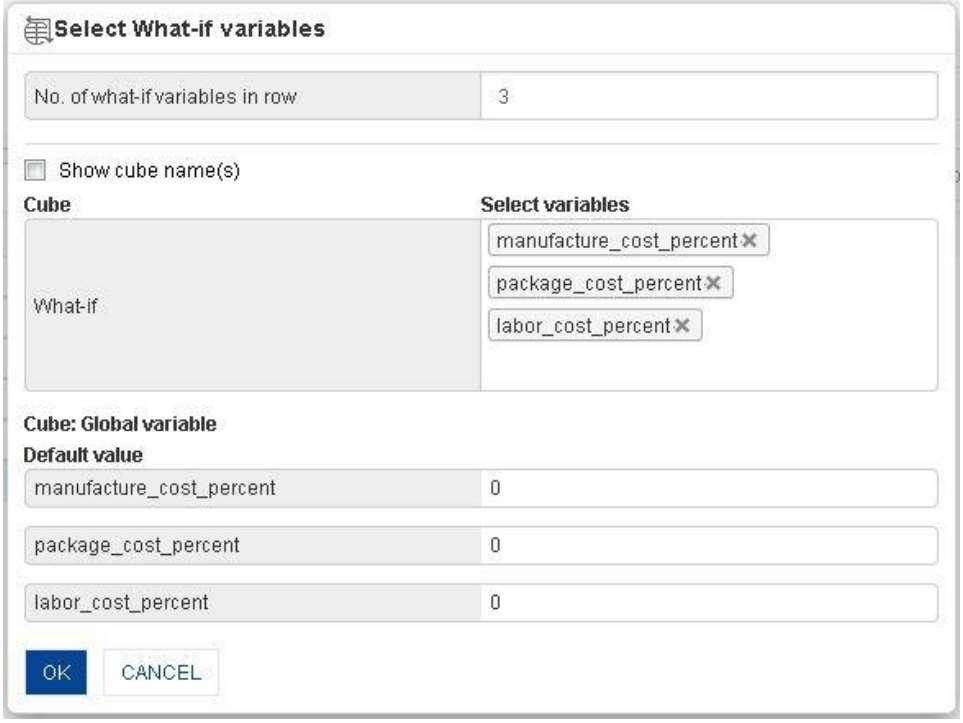
Note:
Templates can be edited or deleted only by creator of the template or the administrator.

6.3.11 What-if Variables

Global variables used in Custom measures can be selected as what-if variables as per analysis or reporting requirements

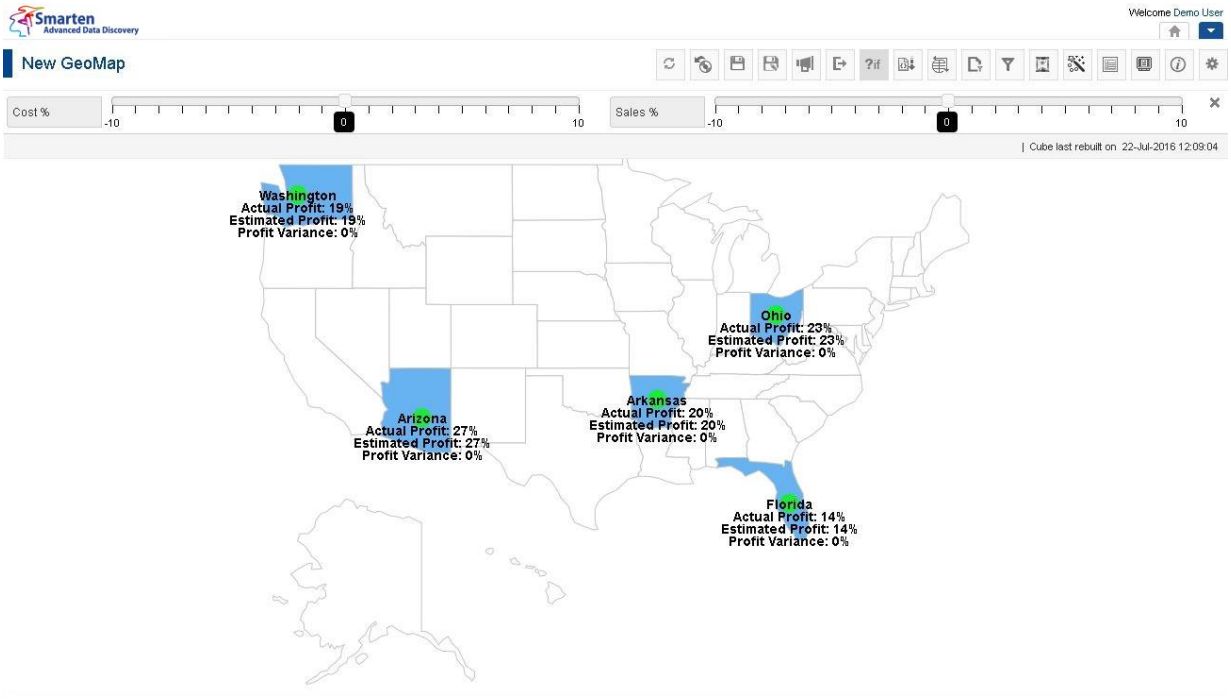
Procedure

1. In the **Repository**, open GeoMap.
   The system displays the selected GeoMap.
2. In the upper right-hand corner, click **Setting**.
   The system displays the Setting Toolbar.
3. Click **Select What-if variables**.
   The system displays the **Select What-if variables** dialog box.
4. In the **No. of what-if variables in row** field, enter a value

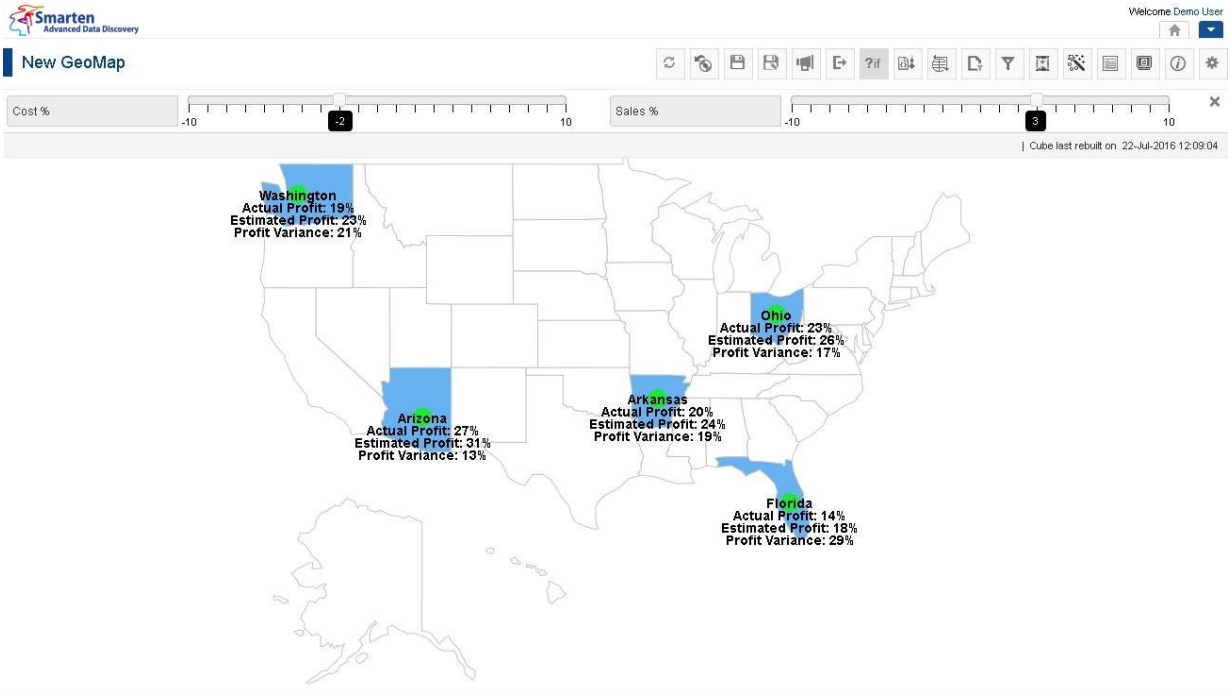


GEOMAP: MANAGE WHAT-IF VARIABLES: SELECTING WHAT-IF VARIABLES

5. In the **Select What-if variables** dialog box, select variables from list of value.
   The system displays selected global variables with default value.



GEMOMAP BEFORE CHANGEING WHAT-IF VARIABLE VALUE



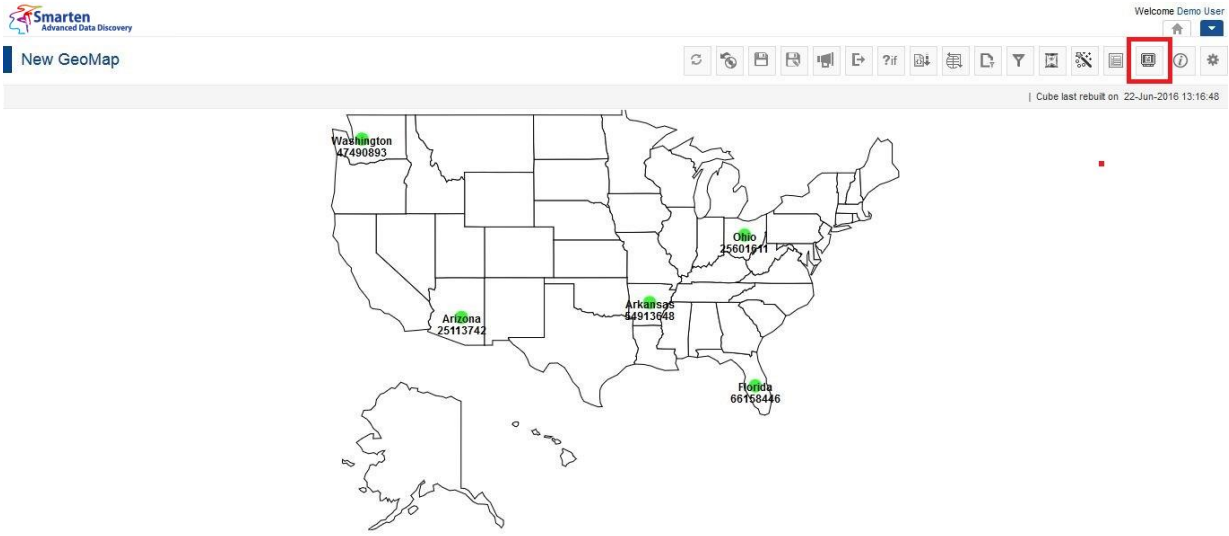
GEOMAP AFTER CHANGEING WHAT-IF VARIABLE VALUE

Reference: **Concept Manual > Analytic Functions > What-if Analysis**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

6.3.12 Show GeoMap Data in Grid

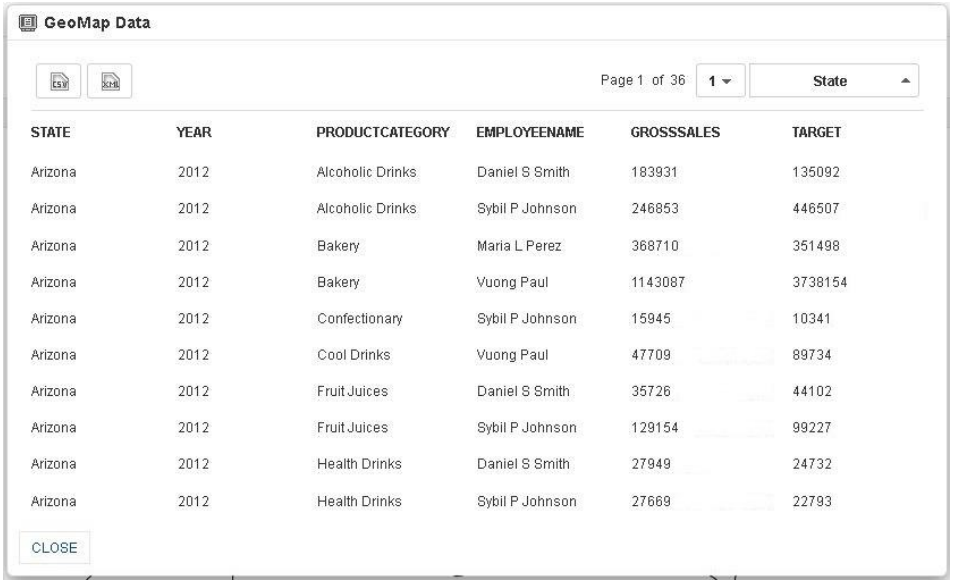
This option is used to view data of GeoMap.



GEOMAP: GEOMAP DATA ICON

Procedure

1. In the **Repository**, open GeoMap.
   The system displays the selected GeoMap.
2. In the GeoMap Toolbar, click **GeoMap data**.
   The system displays the **GeoMap data** dialog box.



STATE	YEAR	PRODUCTCATEGORY	EMPLOYEENAME	GROSSSALES	TARGET
Arizona	2012	Alcoholic Drinks	Daniel S Smith	183931	135092
Arizona	2012	Alcoholic Drinks	Sybil P Johnson	246853	446507
Arizona	2012	Bakery	Maria L Perez	368710	351498
Arizona	2012	Bakery	Vuong Paul	1143087	3738154
Arizona	2012	Confectionary	Sybil P Johnson	15945	10341
Arizona	2012	Cool Drinks	Vuong Paul	47709	89734
Arizona	2012	Fruit Juices	Daniel S Smith	35726	44102
Arizona	2012	Fruit Juices	Sybil P Johnson	129154	99227
Arizona	2012	Health Drinks	Daniel S Smith	27949	24732
Arizona	2012	Health Drinks	Sybil P Johnson	27669	22793

GEOMAP: GEOMAP DATA

3. In the **GeoMap data** dialog box, click **CSV** icon to export data into CSV format or **XML** icon to export data into XML format.

GEOMAP: GEOMAP DATA DIALOG TOOLBAR

Icon	Icon name
CSV	CSV export
XML	XML export
Page 1 of 36 1	Page navigation
State	Sorting on column

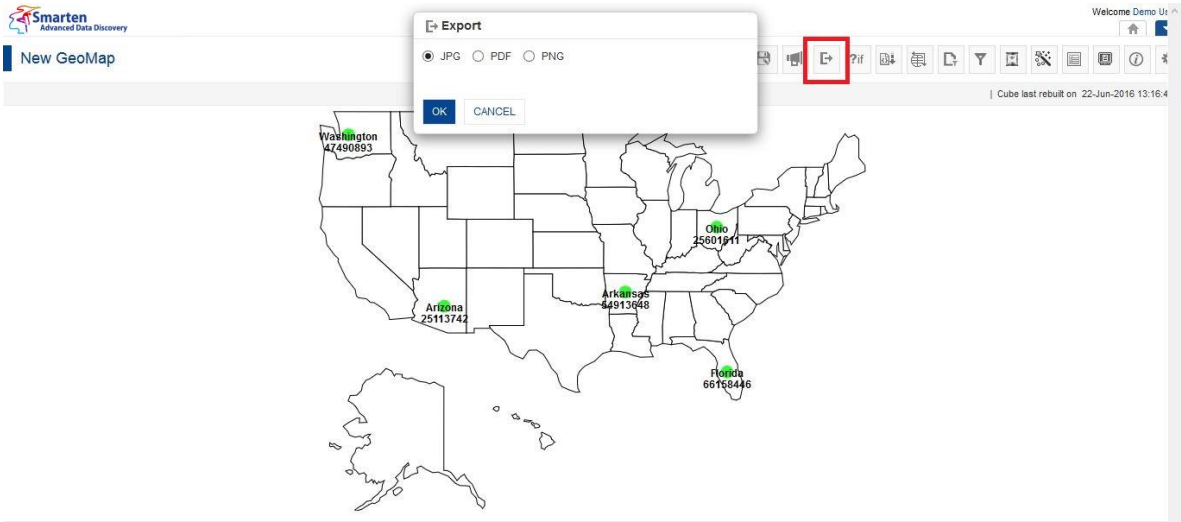
GEOMAP: GEOMAP DATA DIALOG OPTIONS

6.3.13 Export GeoMaps

This option is used to export a GeoMap data to PDF, PNG, and JPG file formats.

Procedure

1. In the **Repository**, open GeoMap.
   The system displays the GeoMap.
2. In the GeoMap Toolbar, click **Export**.
   The system displays the **Export** dialog box.
3. Select the desired radio button (JPG, PDF, or PNG).
4. Click **OK**.



GEOMAP: EXPORT ICON & DIALOG

6.3.14 Save GeoMaps

You have the following functions to save GeoMap:

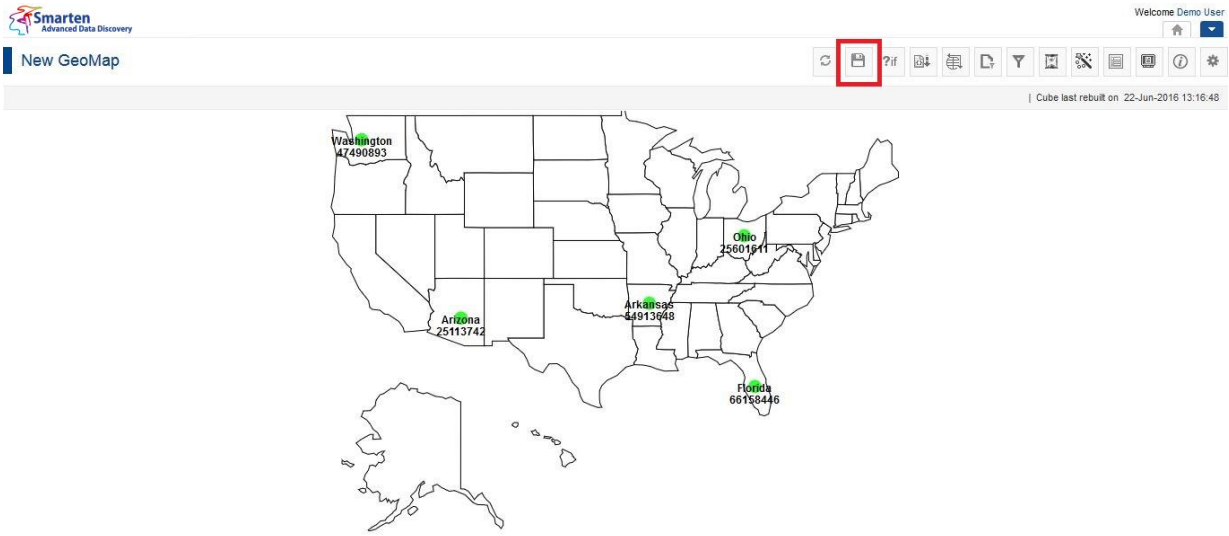
- Save
- Save As

6.3.14.1 Save

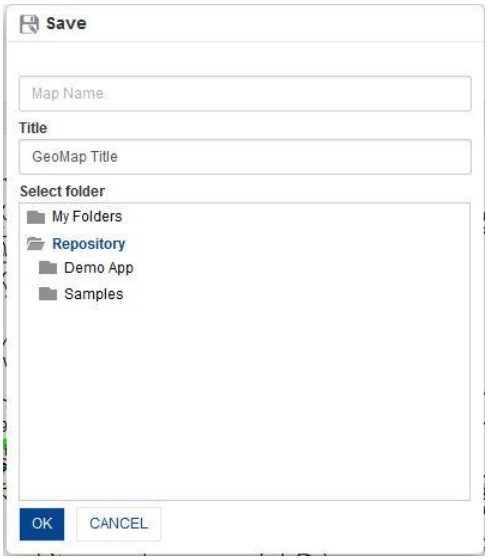
You can either create and save a new GeoMap or modify and save an existing GeoMap.

Procedure

1. In the **Repository**, open GeoMap.
   The system displays the GeoMap.
2. In the GeoMap Toolbar, click **Save**.
   The system saves the selected GeoMap.



GEOMAP: SAVE ICON



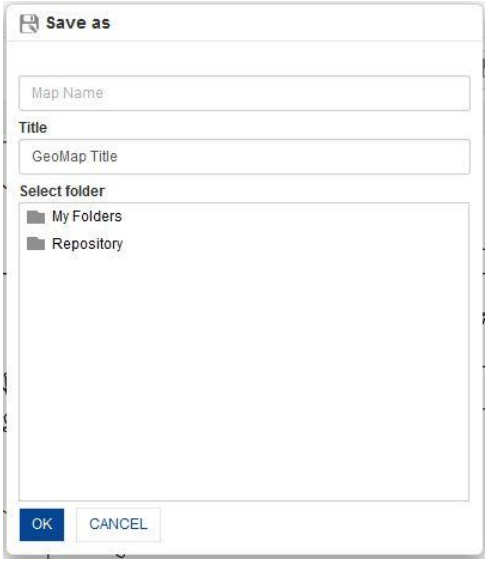
GEOMAP: SAVE DIALOG

6.3.14.2 Save As

You can use this option to save a copy of an existing GeoMap with a new name.

Procedure

1. Follow the **Procedure** of **Save** given above or open an existing GeoMap.
2. In the GeoMap Toolbar, click **Save as.**
   The system displays the **Save as** dialog box.



GEOMAP: SAVE AS DIALOG

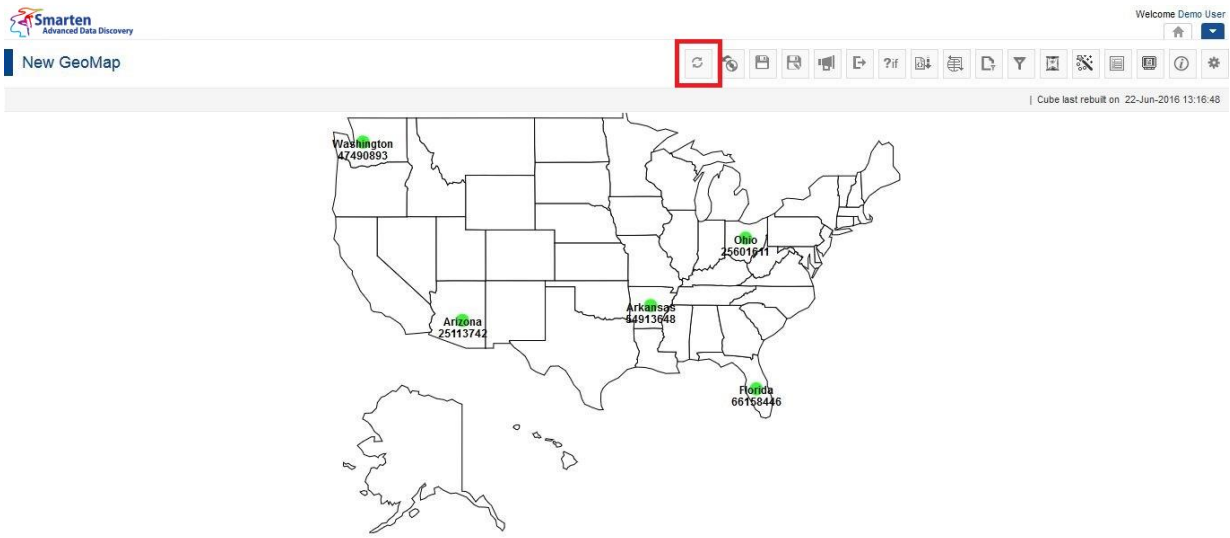
3. In the **Name** field, enter a name.
4. In the **Title** field, enter a title.
5. In the **Select Folder** box, choose a folder.
6. Click **OK.**
   The system creates a copy of an existing GeoMap with a new name.

6.3.15 Refresh GeoMap

This option is used to update GeoMap in Smarten. Refresh will query source data and load GeoMap with new data again.

Procedure

1. In the **Repository**, open GeoMap.
2. The system displays the GeoMap.
   In the GeoMap Toolbar, click **Refresh.**



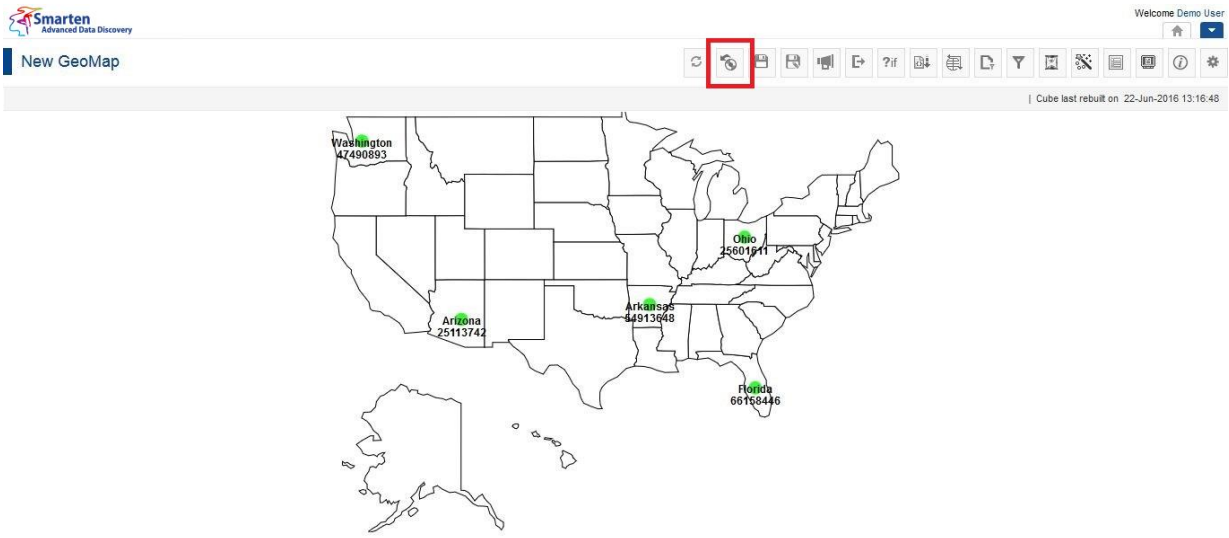
GEOMAP: REFRESH ICON

6.3.16 Restore GeoMap

This option is used to restore GeoMap in Smarten. Restore will restore the GeoMap settings as per the last saved version. It will not query source data.

Procedure

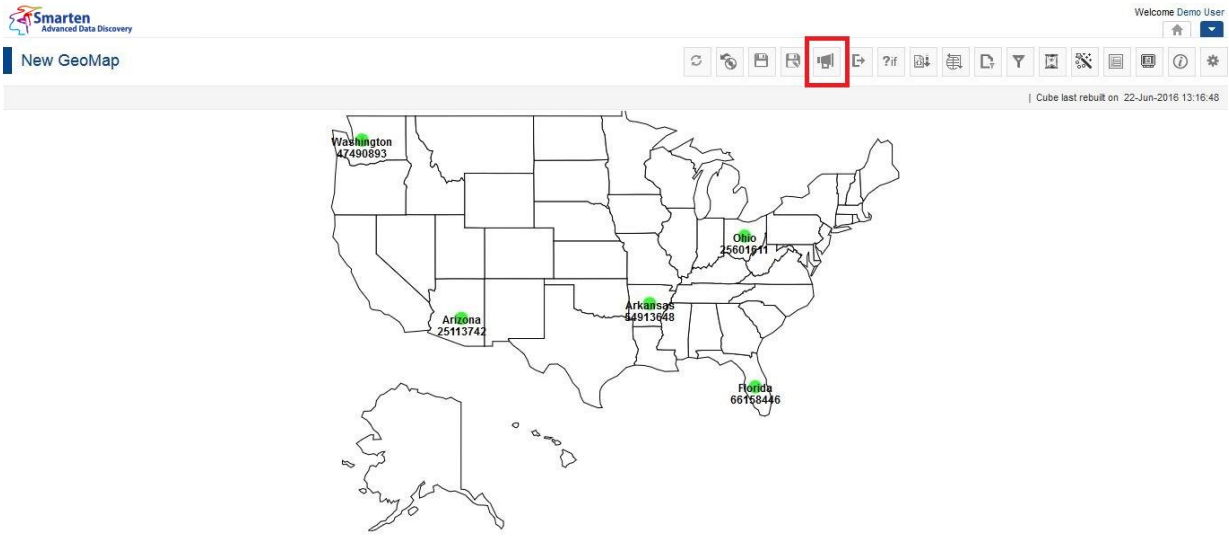
1. In the **Repository**, open GeoMap.
2. The system displays the GeoMap.
   In the GeoMap Toolbar, click **Restore**.



GEOMAP: RESTORE ICON

6.3.17 Publish Now

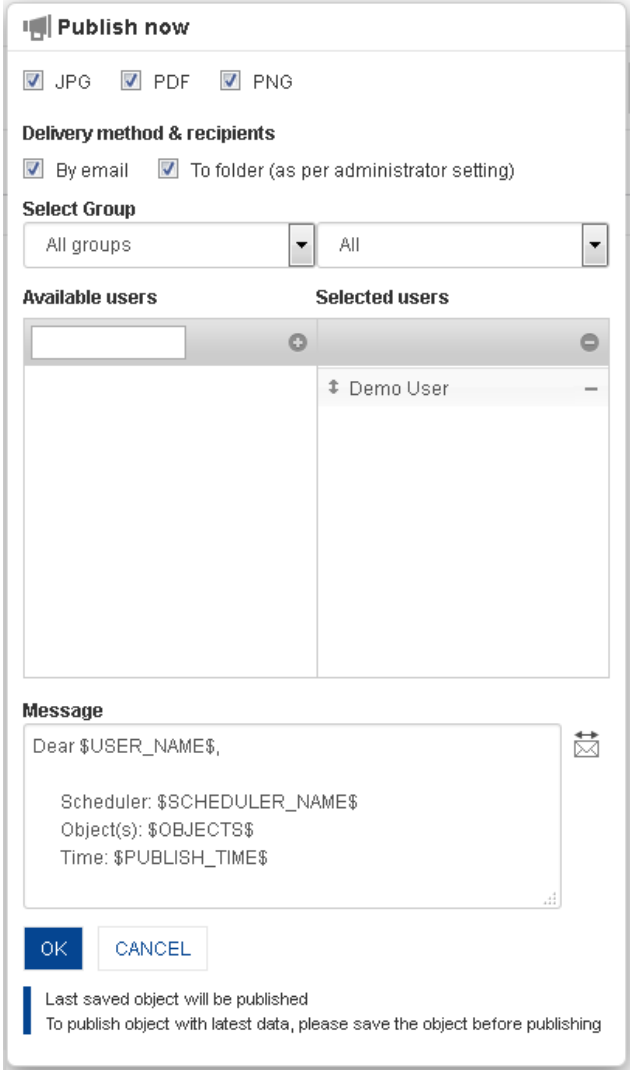
This option is used to define the GeoMap publish settings. It is visible only after saving the GeoMap.



GEOMAP: PUBLISH NOW ICON

Procedure

1. In the **Repository**, open GeoMap.
   The system displays the GeoMap.
2. In the GeoMap Toolbar, click **Publish now**.
   The system displays the **Publish now** dialog box.

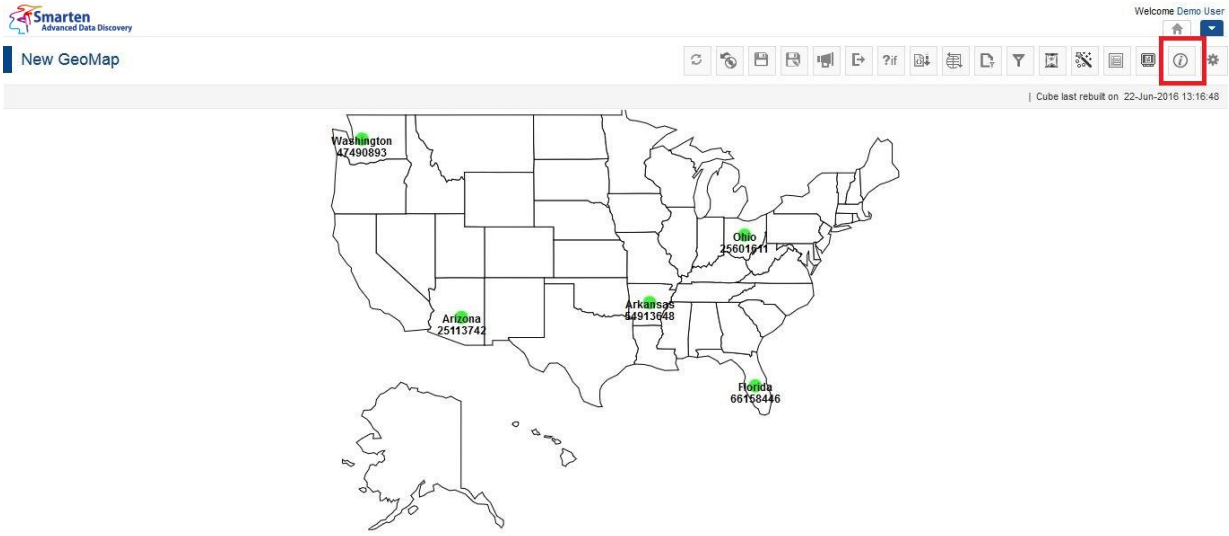


GEOMAP: PUBLISH NOW SETTINGS

3. In the **Publish now** dialog box, select the checkbox to choose the output type (JPG, PNG or PDF).
4. In the **Delivery method & recipients** section, select the checkbox(es) (by email and to folder).
5. In the **Select group** section, select the group from the drop-down list.
   The system displays the list of users in the **Available users** column according to the group selected.
6. In the **Available users** column, select the users. System displays list of users as per access rights policy defined by Administrator.
   The system displays the selected users in the **Selected users** column.
7. In the **Message** box, enter the message.
8. Click **OK**.

6.3.18 Object Information

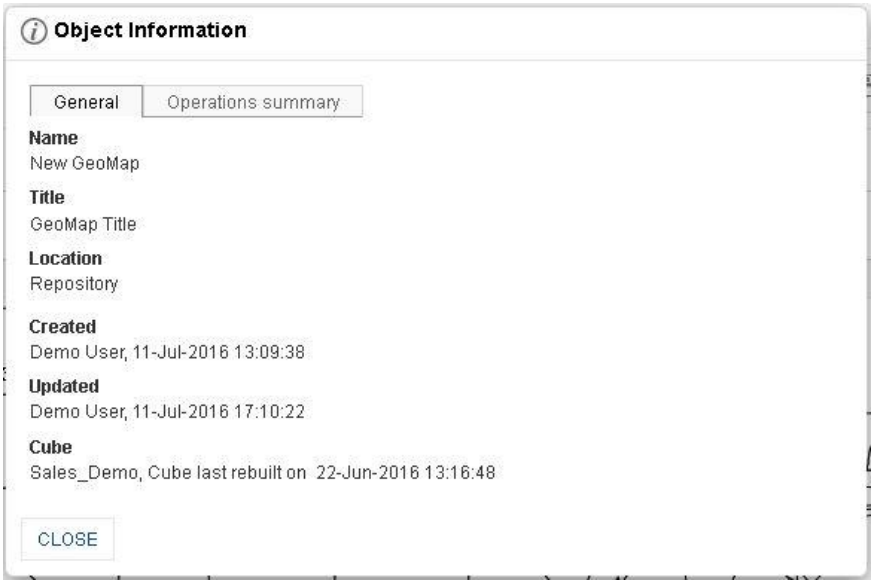
This option is used to view a summary of operations performed on a specific GeoMap.



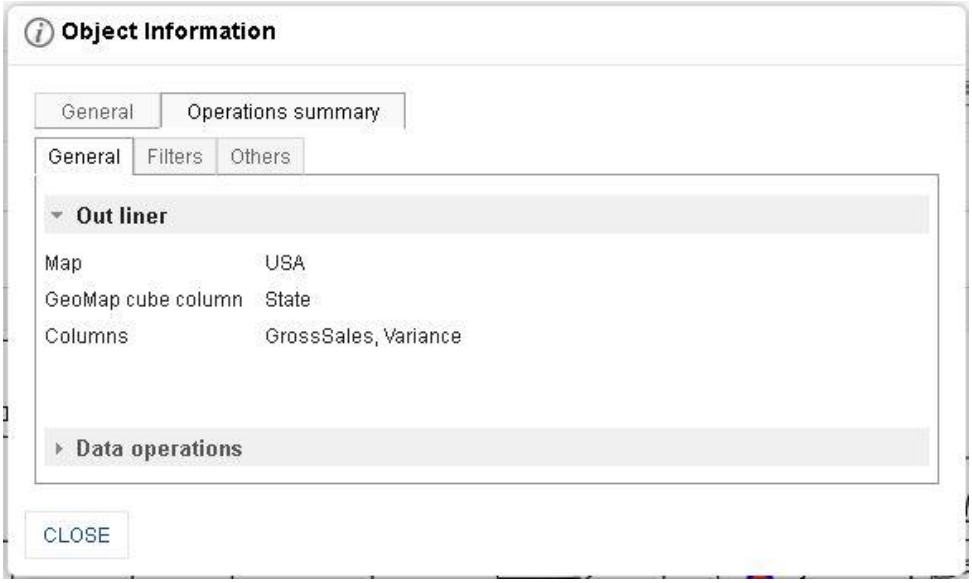
GEOMAP: OBJECT INFORMATION ICON

Procedure

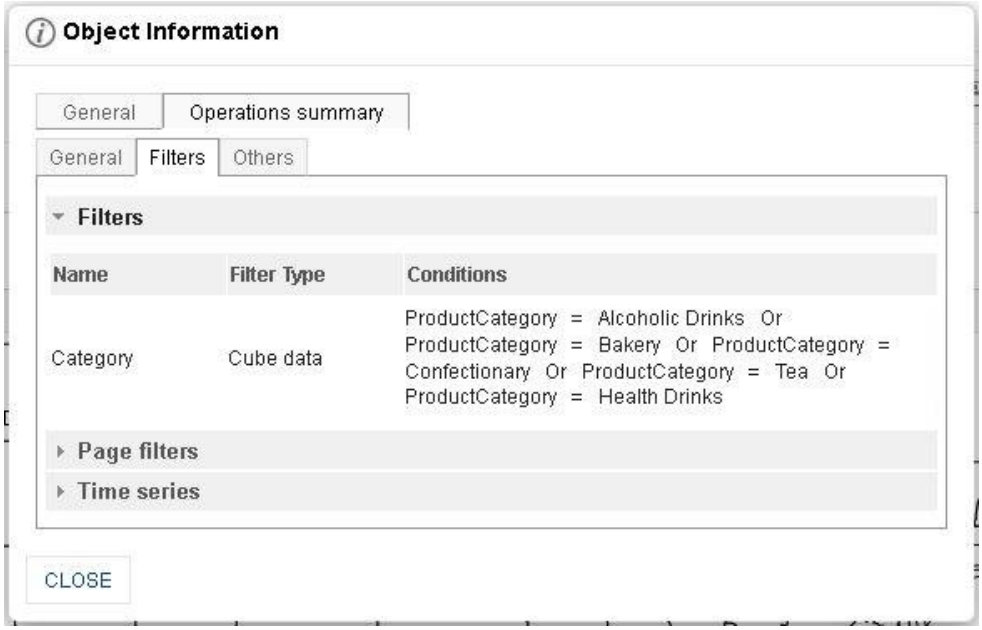
1. In the **Repository**, open GeoMap.
   The system displays the selected GeoMap.
2. In the GeoMap Toolbar, click **Object information.**
   The system displays the **Object information** dialog box with various information displayed in the two tabs, namely General and Operations summary, as shown below.



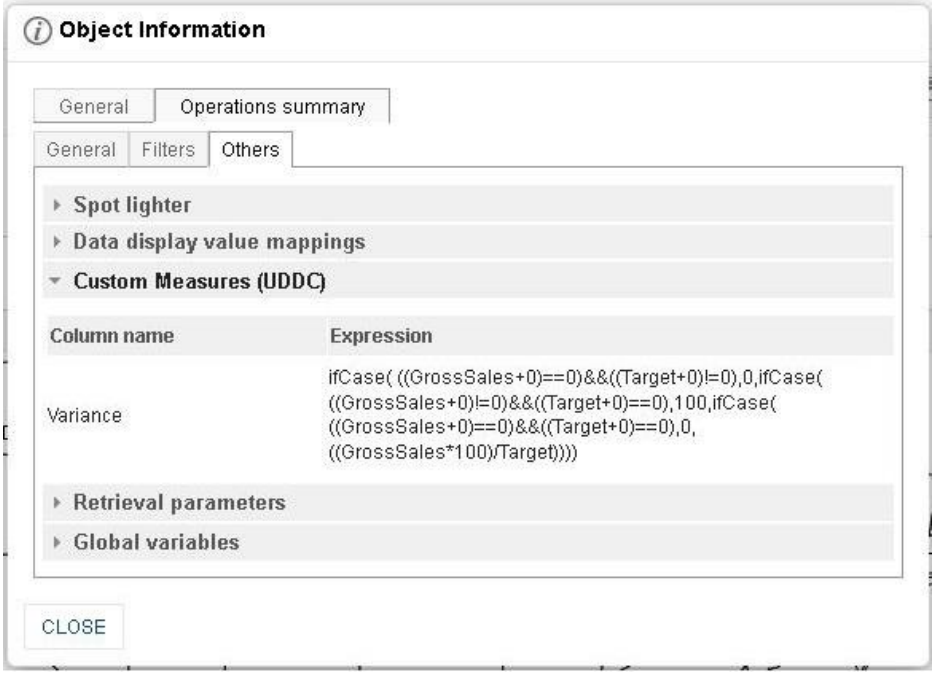
GEOMAP: OBJECT INFORMATION: GENERAL TAB



GEOMAP: OBJECT INFORMATION: OPERATIONAL SUMMARY: GENERAL TAB



GEOMAP: OBJECT INFORMATION: OPERATIONAL SUMMARY: FILTER TAB



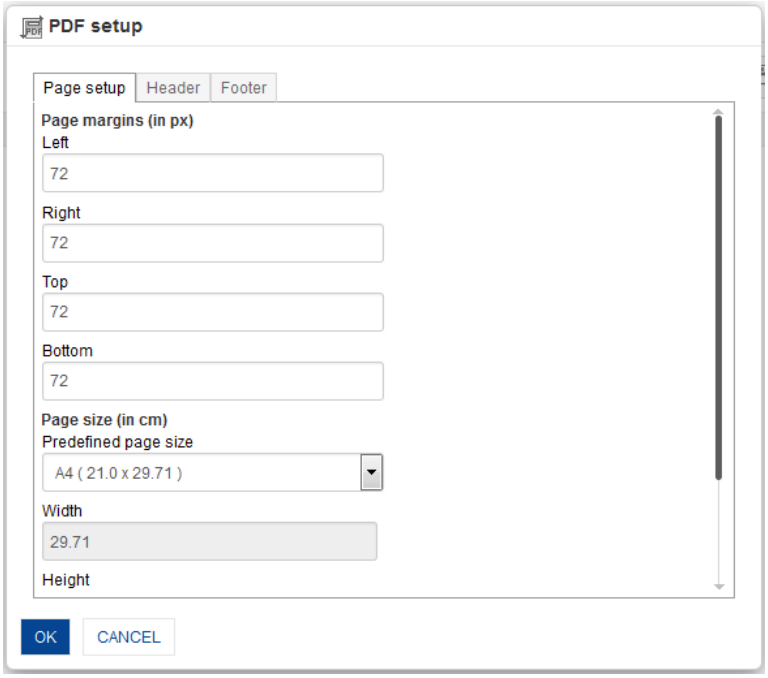
GEOMAP: OBJECT INFORMATION: OPERATIONAL SUMMARY: OTHERS TAB

3. Click **Close** after viewing the information.

6.3.19 PDF Page setup

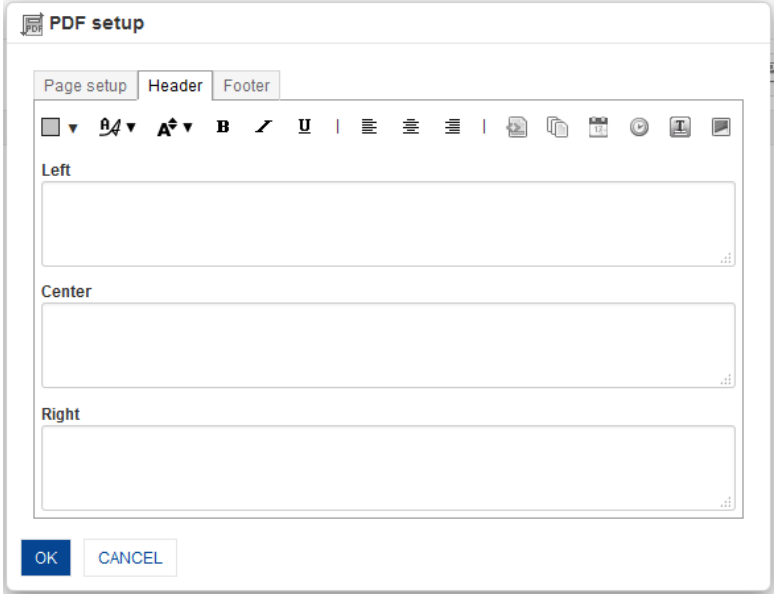
Procedure

1. In the **Repository**, open GeoMap.
   System displays the selected GeoMap.
2. In the upper right-hand corner, click **Setting.**
   System displays the Setting Toolbar.
3. Click **PDF setup.**
   System displays the **PDF setup** dialog box.



GEOMAP: PDF SETUP: PAGE SETUP

4. **Page setup:**
   - Enter **Page Margins** to set top, bottom, left, and right margins for page.
   - From the **Predefined page size** drop-down list, select size.
   - Customize the **Height** and **Width** for page
   - Select the page orientation, either **Portrait** or **Landscape.**

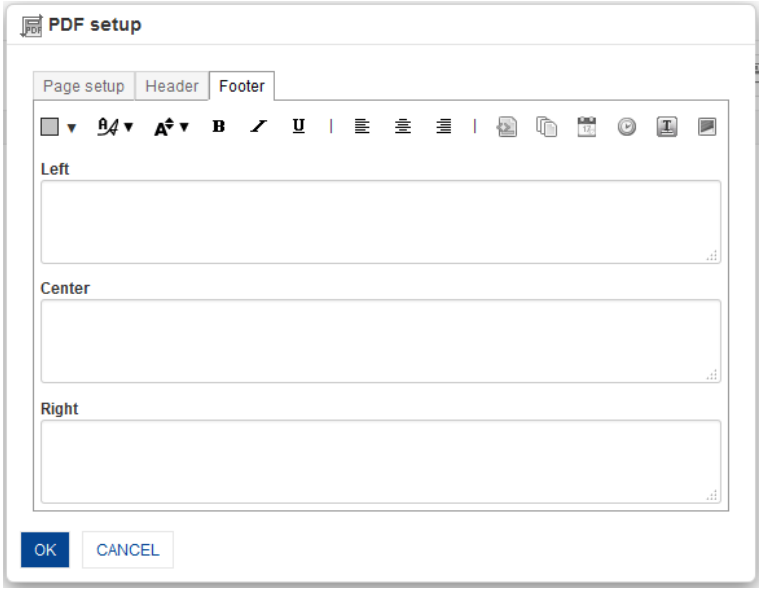


GEOMAP: PDF SETUP: HEADER

5. **Header:**
   - Enter values or variables required for left, centre and right sections of the header. You can select Page Number, Number of Pages, Date, Time, Object Title and Image as variable.

     You can also add custom text along with variables.

     Some examples:
     Report Date: $DATE$ $TIME$
     Page: $PAGE_NUMBER$ of $TOTAL_PAGES$



GEOMAP: PDF SETUP: FOOTER

6. **Footer:**
   - Enter values or variables required for left, centre and right sections of the footer.
     You can select Page Number, Number of Pages, Date, Time, Object Title and Image as variable.

     You can also add custom text along with variables.

     Some examples:
     Report Date: $DATE$ $TIME$
     Page: $PAGE_NUMBER$ of $TOTAL_PAGES$
7. Click **OK**.

Tools	Description
	Font Colour
	Font Name
	Font Size
	Bold Style
	Italic Style
	Underline
	Left Alignment
	Centre Alignment
	Right Alignment

GEOMAP: PDF SETUP TOOLBAR: FORMATTING OPTIONS

Tools		Description
	Page Number	Current Page Number
	Number of Pages	Total Number of Pages
	Date	Current Date on which object is exported
	Time	Current Time when object is exported
	Object Title	Title saved in object
	Image	Company logo or any other Image

GEOMAP: PDF SETUP TOOLBAR: HEADER/FOOTER VARIABLES

6.3.20 GeoMap Properties

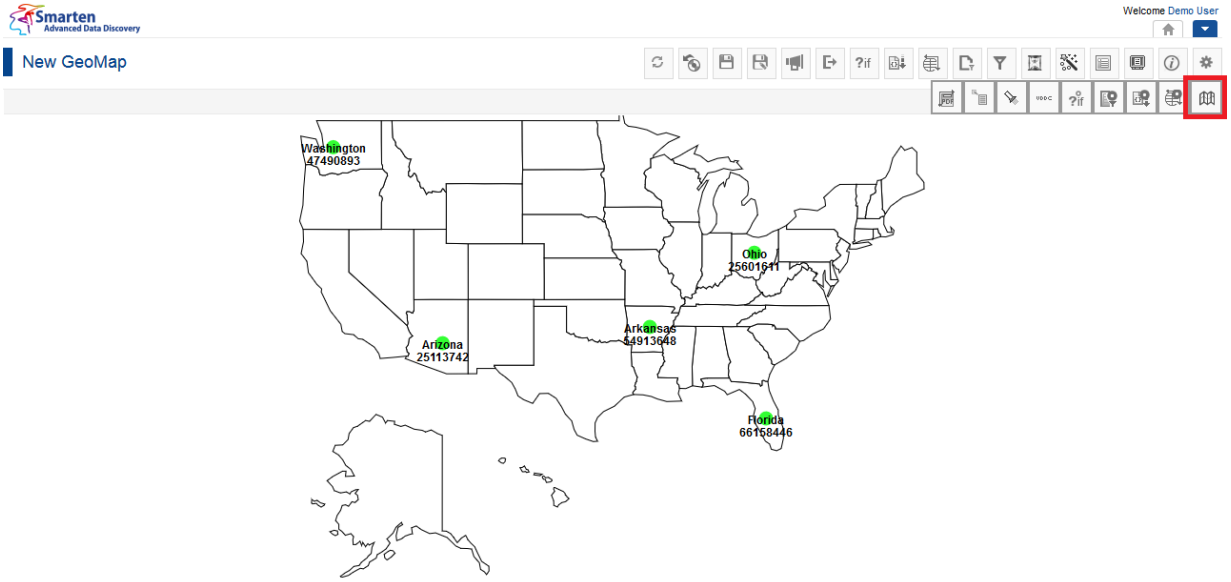
Procedure

1. In the **Repository**, open GeoMap.
   The system displays the selected GeoMap.
2. In the upper right-hand corner, click **Setting.**

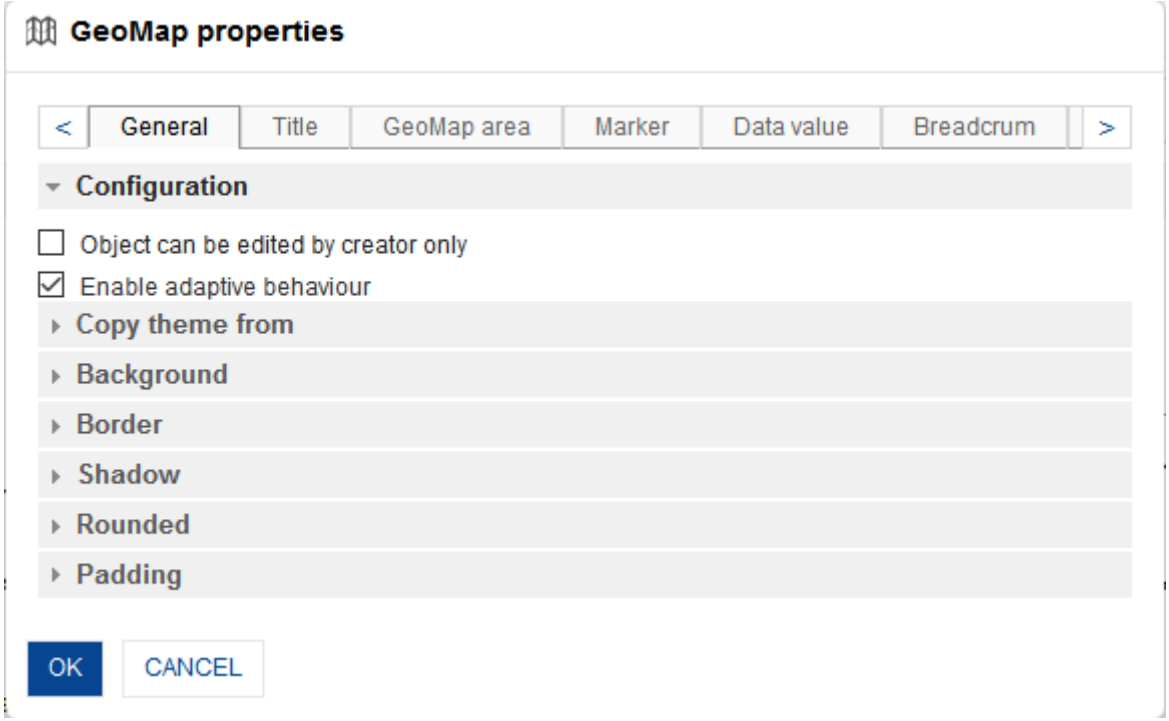
The system displays the Setting Toolbar.

3. Click **GeoMap Properties.**

   The system displays the **GeoMap Properties"** dialog box.



GEOMAP: GEOMAP PROPERTIES ICON



GEOMAP: GEOMAP PROPERTIES DIALOG

4. To configure the properties, select the tab and enter/select the values in the various fields.
5. Click **OK** or **Cancel.**

GeoMap – General properties

Property	Option	Valid values
Configuration	Object can be edited by creator only	True/False
	Enable adaptive behaviour	True/False
Background	Visible	True/False

Property	Option	Valid values
	Color	#000000 - #FFFFFF
	Transparent	True/False
	Image	.jpg, .png (image formats)
	Background repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position	Center/Left/Right/Top/Bottom
	Gradient ▪ Visible ▪ Style ▪ Angle ▪ Extent ▪ Color	 True/False Linear gradient 0 – 360 0 – 100 #000000 - #FFFFFF
Border	Visible	True/False
	All	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
	Left	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
	Right	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
	Top	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
	Bottom	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
Shadow	Left to right	-10 – 10
	Top to bottom	-10 – 10
	Fade	0 – 20
	Color	#000000 - #FFFFFF
Rounded	All	0 – 20
	Top left	0 – 20
	Top right	0 – 20
	Bottom left	0 – 20
	Bottom right	0 – 20
Padding	All	0 – 100 %
	Top	0 – 100 %
	Bottom	0 – 100 %
	Left	0 – 100 %
	Right	0 – 100 %

GEOMAP—GENERAL PROPERTIES

GeoMap – Title properties

Property	Option	Valid Values
Configuration	Visible	True/False
	Title	Any String values

Property	Option	Valid Values
	Title Panel Position Adjust width to text	 Left/Center/Right True/False
Font and text	Name	System Fonts
	Style	B, I, U
	Size	8 – 72
	Color	#000000 - #FFFFFF
	Text Transform	None/Uppercase/Lowercase/ Capitalize
	Letter spacing	-3 – 5
	Word spacing	-3 – 5
	Text alignment	Left/Center/Right/Justify
	Text shadow Visible Left to right Top to bottom Fade Color	 True/False -5 – 5 -5 – 5 0 – 5 #000000 - #FFFFFF
Background	Visible	True/False
	Color	#000000 - #FFFFFF
	Transparent	True/False
	Image	.jpg, .png (image formats)
	Background repeat	Repeat/No repeat/ Repeat X/ Repeat Y
	Background position	Center/Left/Right/Top/Bottom
	Gradient Visible Style Angle Extent Color	 True/False Linear gradient 0 – 360 0 – 100 #000000 - #FFFFFF
Border	Visible	True/False
	All	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
	Left	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
	Right	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
	Top	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
	Bottom	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
Shadow	Left to right	-10 – 10

Property	Option	Valid Values
	Top to bottom	-10 – 10
	Fade	0 – 20
	Color	#000000 - #FFFFFF
Rounded	All	0 – 20
	Top left	0 – 20
	Top right	0 – 20
	Bottom left	0 – 20
	Bottom right	0 – 20
Margin	All	0 – 100 %
	Top	0 – 100 %
	Bottom	0 – 100 %
	Left	0 – 100 %
	Right	0 – 100 %
Padding	All	0 – 100 %
	Top	0 – 100 %
	Bottom	0 – 100 %
	Left	0 – 100 %
	Right	0 – 100 %

GEOMAP—TITLE PROPERTIES

GeoMap – Area properties

Property	Option	Valid Values
Area Setting		
GeoMap area	Highlight Area	True/False
	Background color	#000000 - #FFFFFF
	Highlight color	#000000 - #FFFFFF
	Outline color	#000000 - #FFFFFF
Zoom control		
Zoom though area selection	Zoom control	True/False
	Home button	True/False
	Height	0-100 px
	Grid alpha	0-10
	Grid alpha color	#000000 - #FFFFFF
	Button color	#000000 - #FFFFFF

GEOMAP—AREA PROPERTIES

GeoMap – Marker properties

Property	Option	Valid Values
Configuration	Show as bubble	True/False
	Visible	True/False
	Type	Circle/Rectangle/Hexagon
	Color	#000000 - #FFFFFF
	Size	0-100 px

Property	Option	Valid Values
	Rollover color	#000000 - #FFFFFF
Border	Color	#000000 - #FFFFFF
	Thickness	0-10

GEOMAP—MARKER PROPERTIES

GeoMap – Data value properties

Property	Option	Valid Values
GeoMap		
Configuration	Visible	True/False
	Position	Top/Center/Bottom/Right/Left
	Angle	-360 to 360
	Format text	$Geographic_Column$ $Measure-1$ $Measure-2$, ... $Measure-N$
Font and Text	Name	System Fonts
	Style	B, I, U
	Size	8 – 72
	Color	#000000 - #FFFFFF
Number format	Comma separator	True/False
	Comma format	1, 234, 567/ 12, 34 , 567
	Digits after decimal point	0 – 5
	Negative number format	(-12340,1234)
	Adjusted Digits Show suffix	0 --- 1/100000000Bn True/False
Mouse over		
Configuration	Enable mouse over text	True/False
	Format text	$Geographic_Column$ $Measure-1$ $Measure-2$, ... $Measure-N$
Font and text	Name	System Fonts
	Style	B, I, U
	Size	8 – 72
	Color	#000000 - #FFFFFF
	Text Transform	None/Uppercase/Lowercase/ Capitalize
	Letter spacing	-3 – 5
	Word spacing	-3 – 5

Property	Option	Valid Values
	Text shadow Visible Left to right Top to bottom Fade Color	 True/False -5 – 5 -5 – 5 0 – 5 #000000 - #FFFFFF
Background	Visible	True/False
	Color	#000000 - #FFFFFF
Border	Visible	True/False
	All	Width: 0-10 Style: None, Solid, Dash, Dot Color: #000000 - #FFFFFF
Shadow	Left to right	-10 – 10
	Top to bottom	-10 – 10
	Fade	0 – 20
	Color	#000000 - #FFFFFF

GEOMAP—DATA VALUE PROPERTIES

GeoMap – Breadcrumb properties

Property	Valid Values
Font and Text	#000000 - #FFFFFF
Background Visible Color Transparent	 True/False #000000 - #FFFFFF True/False

GEOMAP—BREADCRUMB PROPERTIES

GeoMap – Column labels properties

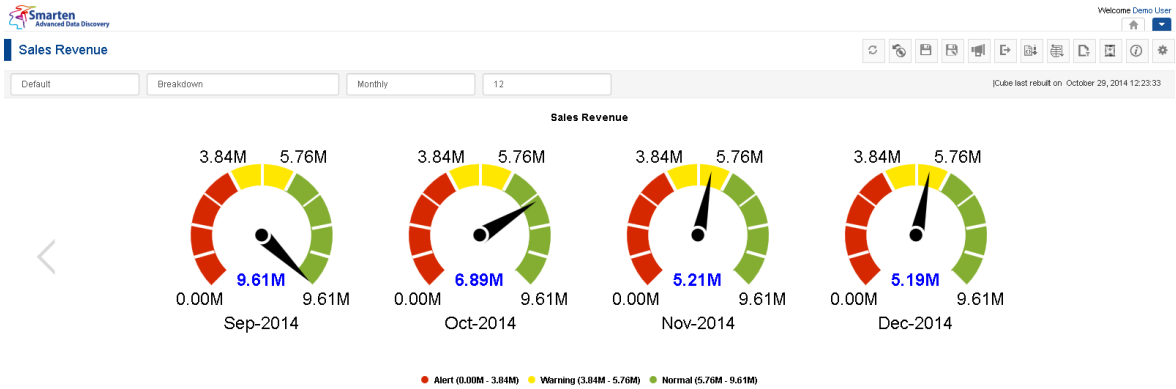
Property	Valid Values
Available Columns	List of columns selected in GeoMap
Column display name	Any string value

GEOMAP—COLUMN LABELS PROPERTIES

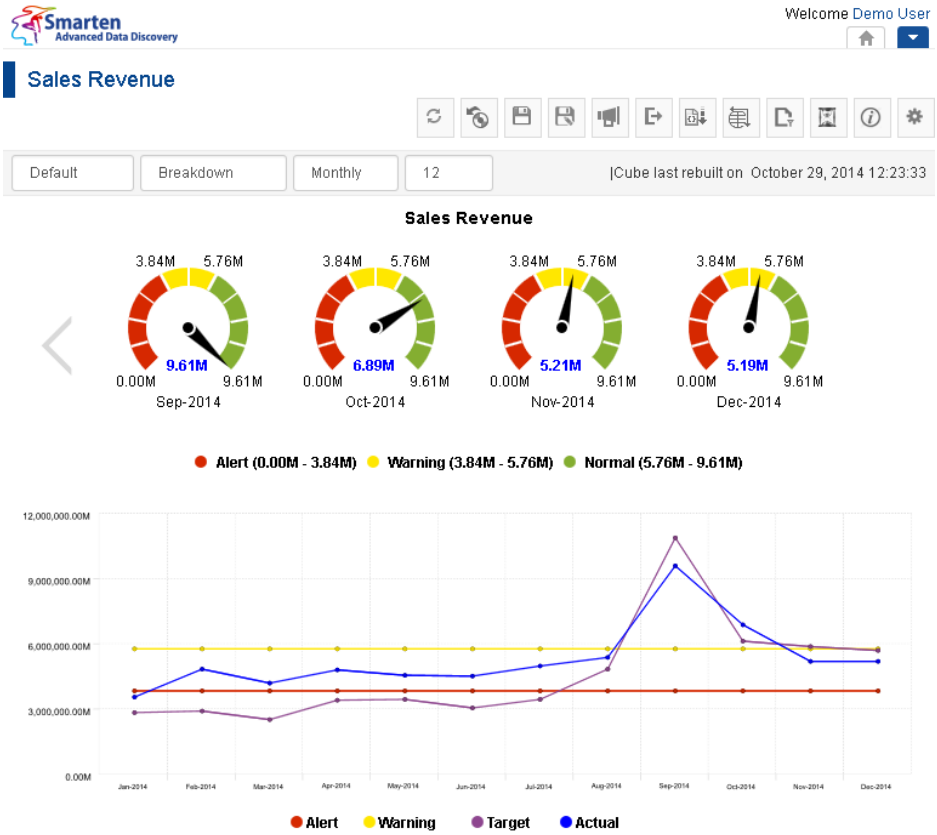
7. Working with KPI

This chapter describes the use of the KPI module. Smarten provides simplified KPI management and tracking with powerful features, formulae, and expressions as well as flexible frequency and threshold levels.

The following images demonstrate how Smarten KPI renders differently in different target devices.



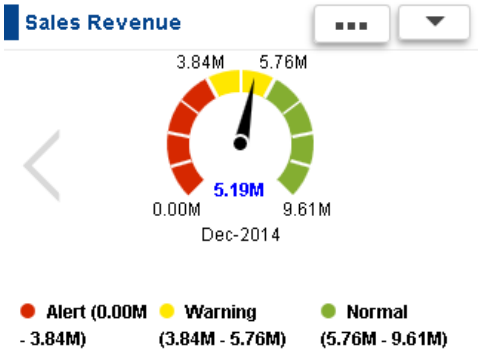
KPI—DESKTOP VIEW



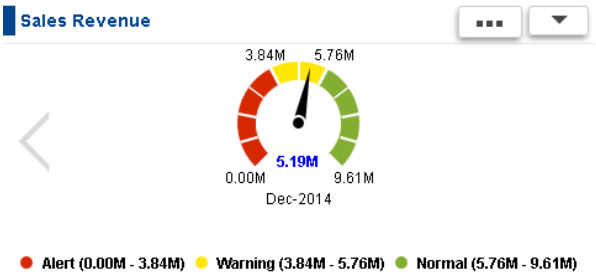
Page 1 of 1 1

Date	Actual	Target	GrossSales
Jan-2014	3.57M	2.85M	3.57M
Feb-2014	4.83M	2.91M	4.83M
Mar-2014	4.20M	2.52M	4.20M
Apr-2014	4.80M	3.41M	4.80M
May-2014	4.57M	3.46M	4.57M
Jun-2014	4.53M	3.04M	4.53M

KPI—TABLET VIEW



KPI—SMARTPHONE: PORTRAIT VIEW



KPI—SMARTPHONE: LANDSCAPE VIEW

7.1 KPI Elements & Conventions

Columns	Description	
Period	The Period based on which the KPI is calculated	
Frequency	"How often can we measure?" The frequency ranges from Yearly to Hourly time dimensions	
Polarity	If increase in value of KPI is beneficial, it is "High" polarity KPI, whereas if increase is adverse, it is "Low" polarity. For example, Sales is High polarity KPI, while Return Quantity is Low polarity KPI.	
Previous Value	Actual KPI value for the previous Period	
Actual	Actual KPI value for the current Period	
Target	Target KPI value as per definition	
Alert	Alert threshold value as per definition. Can be manual or automatic	
Warning	Warning threshold value as per definition. Can be manual or automatic	
Variance	If the polarity is high, then Variance = Actual – Target If the polarity is low, then Variance = Target – Actual	
Variance %	(Variance / Target)*100	
Performance %	If the polarity is high, then Performance % = (Actual / Target)*100 If the polarity is low, then Performance % = (Target / Actual)*100	
Performance Indicator	There are three indicators in the threshold section	
		If the Actual value is less than the Alert value
		If the Actual value is less than the Warning value and greater than the Alert value
		If the Actual value is greater than the Warning value
Trend Indicator	The direction of the arrow indicates the direction of the Performance Trend (up or down compared with previous period). The colour indicates performance for the current period with respect to the target. If the target is not defined, trend indicator will be shown without any colour.	
		Performance for the period is less than the target, and

Columns	Description	
		performance has declined compared with previous period.
	▲	Performance for the period is less than the target, and performance has improved compared with previous period.
	▼	Performance for the period is higher than the target, and performance has declined compared with previous period.
	▲	Performance for the period is higher than the target, and performance has improved compared with previous period.
	▽	Performance has declined compared with previous period and Target is not defined.
	△	Performance has improved compared with previous period and Target is not defined.

Trend indicators with example:

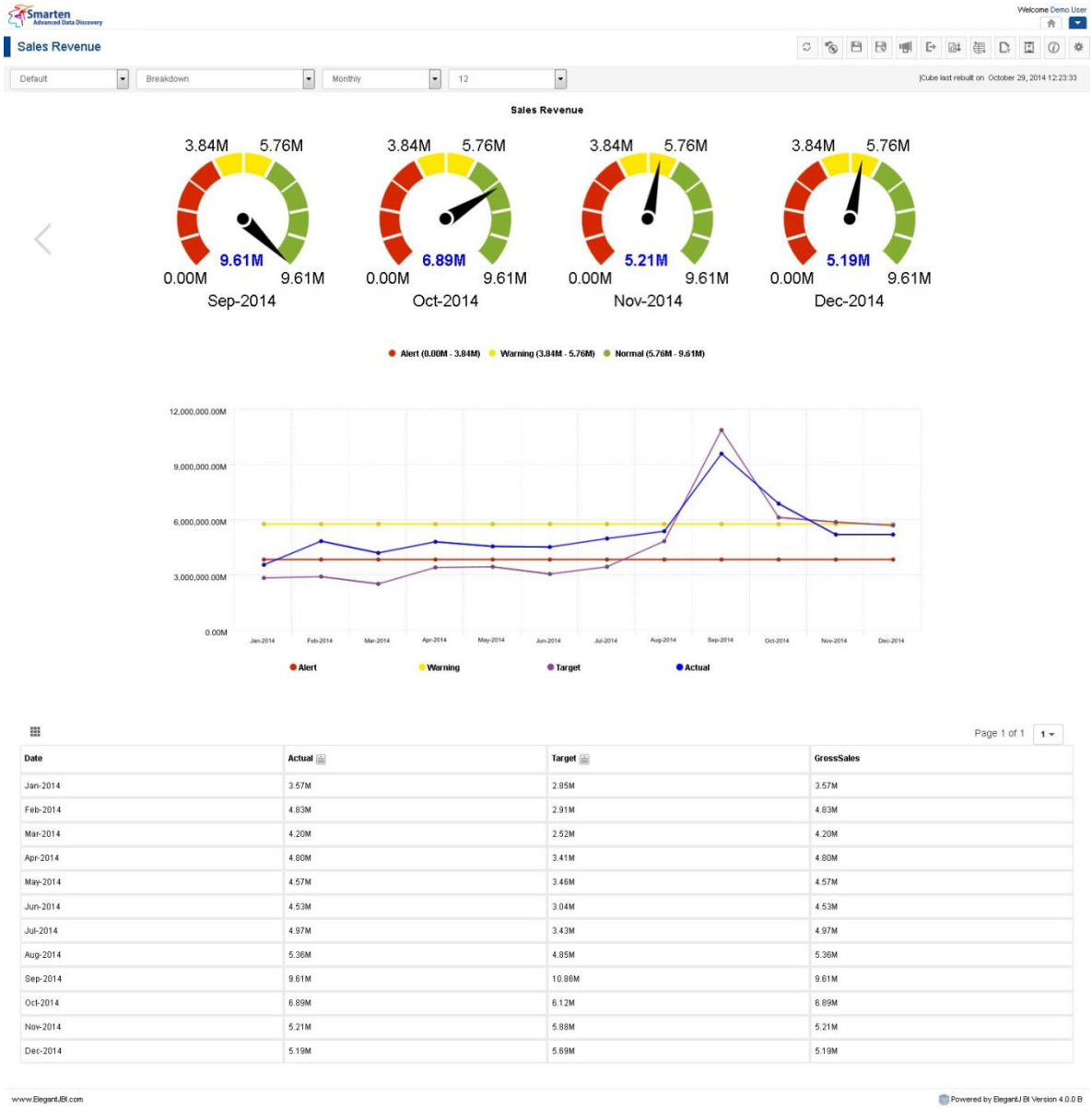
#	KPI Performance (January 2015)	KPI Performance (February 2015)	Polarity	Target	Performance for the period	Performance over previous period	Display
1	1900000	1700000	High	1800000	Low	Low	⬇
2	1900000	1700000	High	1600000	High	Low	⬇
3	1700000	1800000	High	1900000	Low	High	⬆
4	1700000	1900000	High	1800000	High	High	⬆
5	1900000	1700000	High	-	High	Low	⇩
6	1700000	1900000	High	-	High	High	⇧

7.2 KPI Types

There are two types of KPIs in Smarten: Individual KPIs and KPI Group.

7.2.1 Individual KPIs

Smarten's Individual KPIs provide gauges and trend and tabular presentation of KPIs. Detailed analysis of KPI performances and the reasons behind performance results and its inbred variances can be analysed with easy-to-use features, such as drill through, breakdown by dimension values, and different logical views. Every business user can view and display information in a way that is meaningful to him or her and in a way that will clearly demonstrate the results to be shared with others.

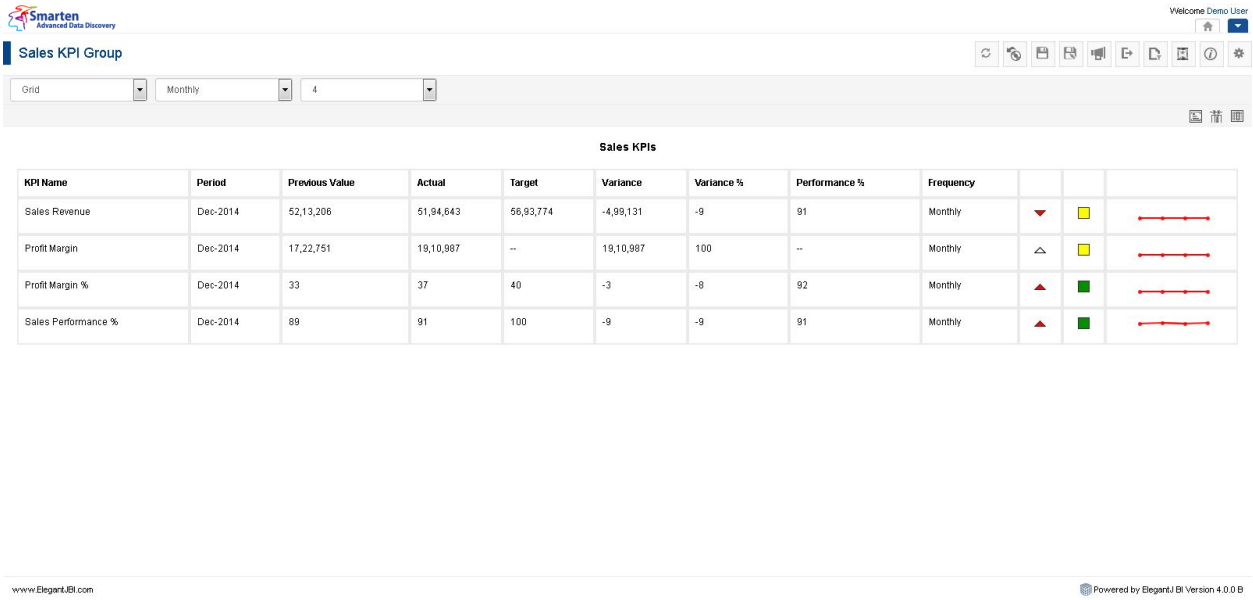


Date	Actual	Target	GrossSales
Jan-2014	3.57M	2.85M	3.57M
Feb-2014	4.83M	2.91M	4.83M
Mar-2014	4.20M	2.52M	4.20M
Apr-2014	4.80M	3.41M	4.80M
May-2014	4.57M	3.46M	4.57M
Jun-2014	4.53M	3.04M	4.53M
Jul-2014	4.97M	3.43M	4.97M
Aug-2014	5.36M	4.85M	5.36M
Sep-2014	9.61M	10.86M	9.61M
Oct-2014	6.89M	6.12M	6.89M
Nov-2014	5.21M	5.88M	5.21M
Dec-2014	5.19M	5.69M	5.19M

INDIVIDUAL KPI

7.2.2 KPI Group

KPI Group is a combined group of multiple KPIs that helps you compare the performance of a related set of KPIs in a single view. For example, you can create a KPI group with sales-related KPIs, such as Sales, Sales Growth, Gross Profit Margin, and Sales Performance.



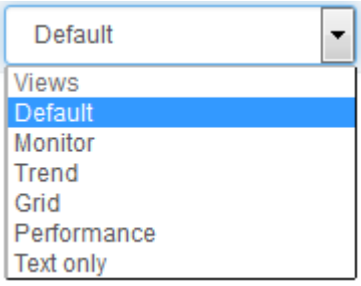
KPI Name	Period	Previous Value	Actual	Target	Variance	Variance %	Performance %	Frequency
Sales Revenue	Dec-2014	52,13,206	51,94,643	56,93,774	-4,99,131	-9	91	Monthly
Profit Margin	Dec-2014	17,22,751	19,10,987	--	19,10,987	100	--	Monthly
Profit Margin %	Dec-2014	33	37	40	-3	-8	92	Monthly
Sales Performance %	Dec-2014	89	91	100	-9	-9	91	Monthly

KPI GROUP

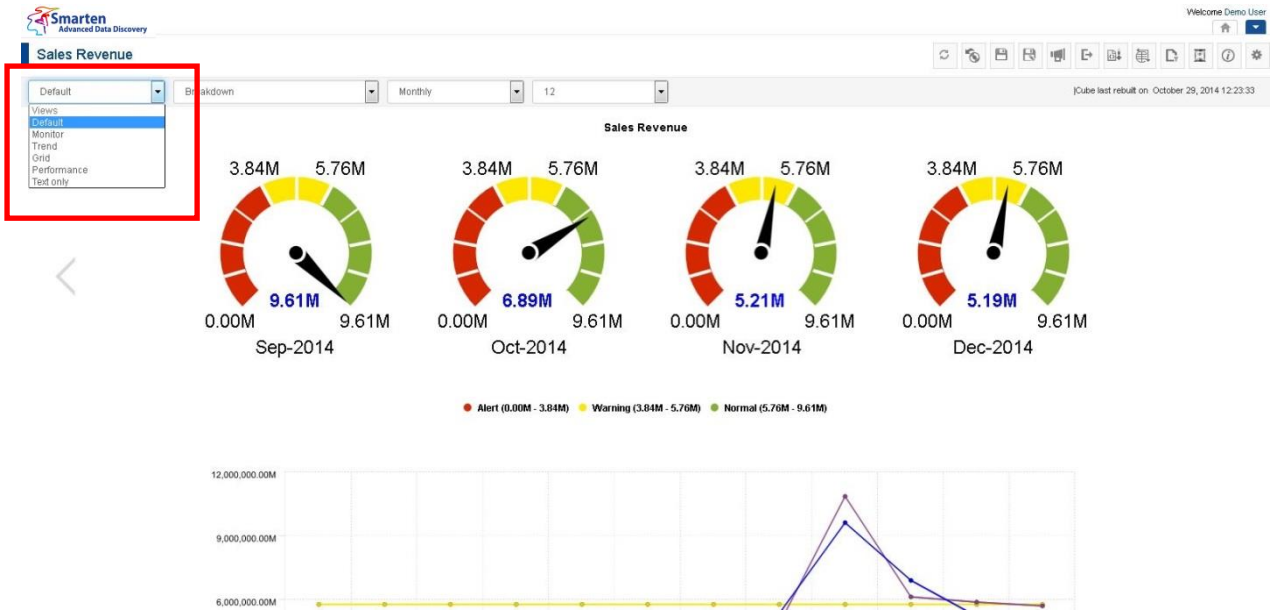
7.3 KPI Views

Smarten provides various display configurations and views for meaningful visualisation of KPIs.

KPI Views options are available in the KPI action toolbar on top. You can switch views by selecting the various options from the drop-down list.



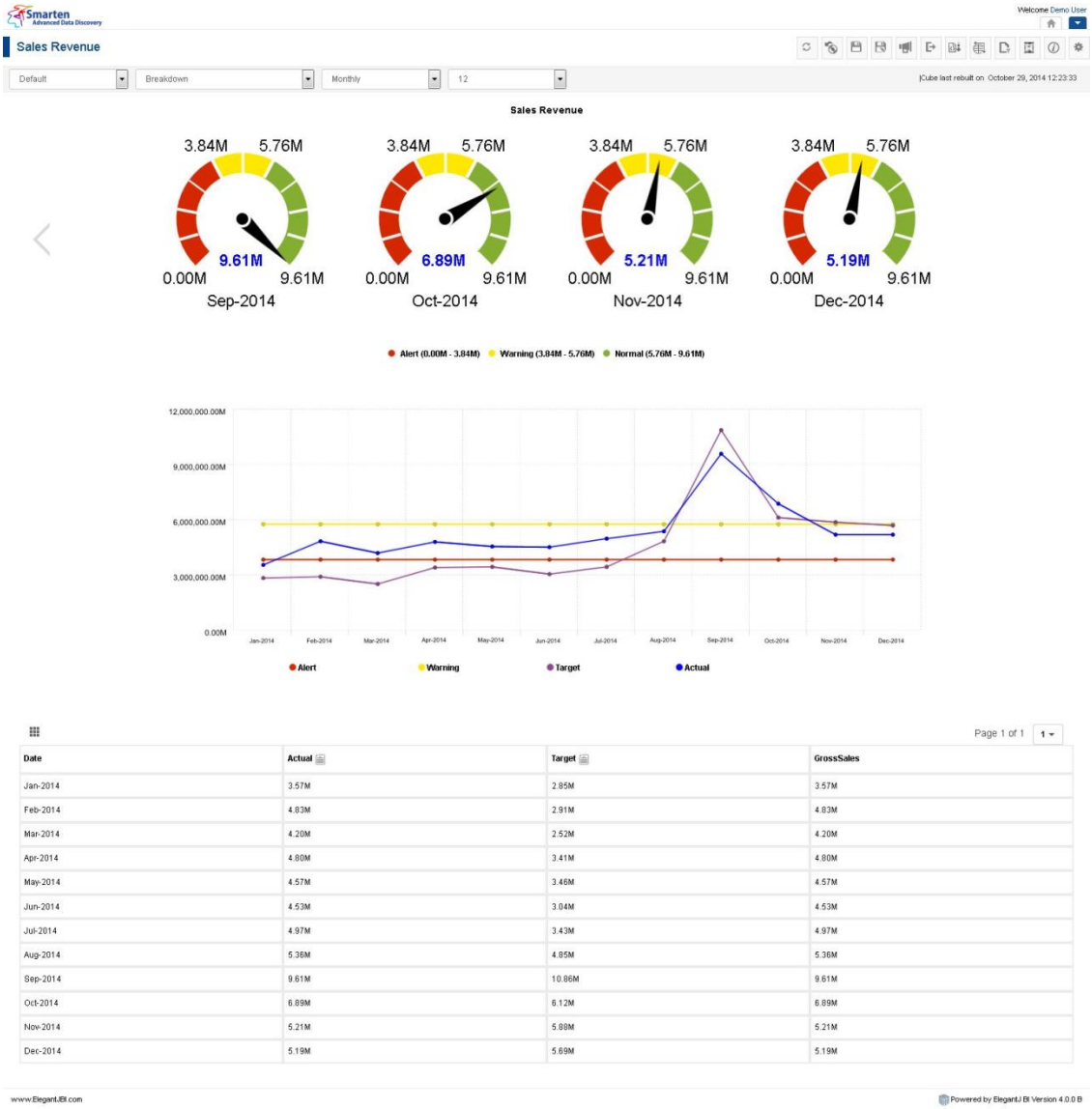
KPI VIEW OPTIONS



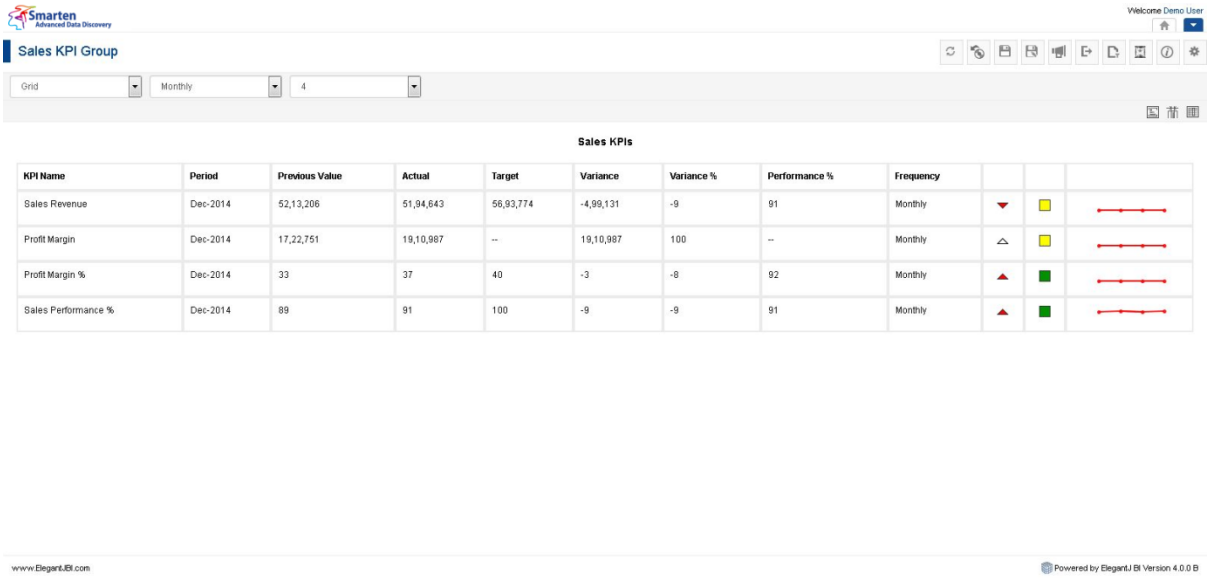
KPI VIEW OPTIONS—NAVIGATION

7.3.1 Default

By default, the KPI will be displayed in Default view where it shows the key performance in the form of Monitor, Trend, and Detailed view. The Default view helps you view the performance snapshot in one view.



KPI—DEFAULT VIEW

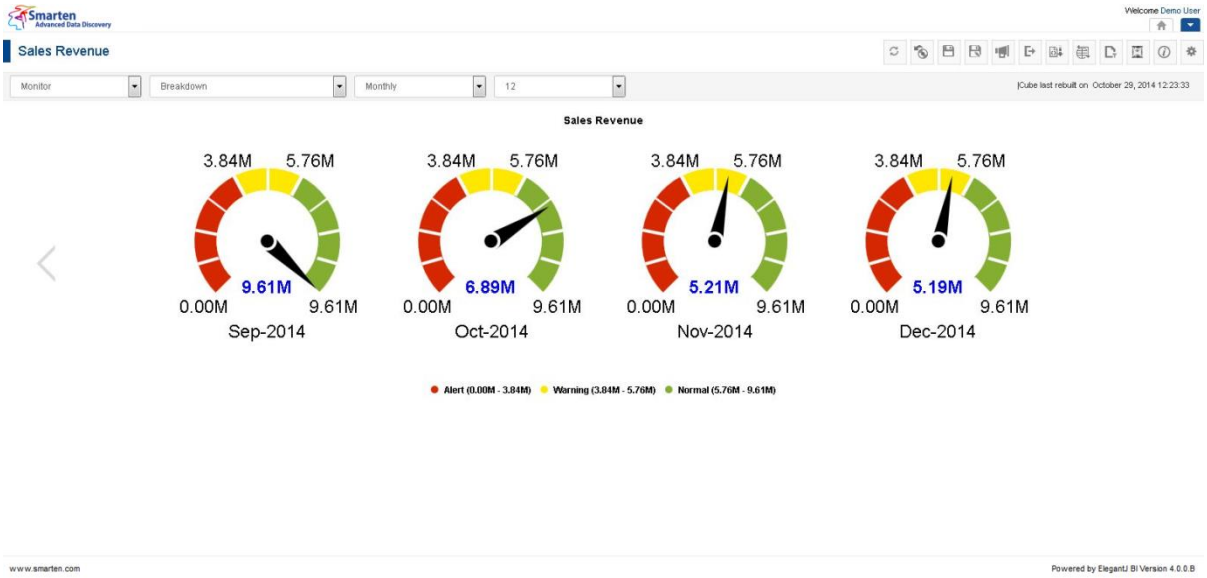


KPI Name	Period	Previous Value	Actual	Target	Variance	Variance %	Performance %	Frequency
Sales Revenue	Dec-2014	52,13,206	51,94,643	56,93,774	-4,99,131	-9	91	Monthly
Profit Margin	Dec-2014	17,22,751	19,10,987	--	19,10,987	100	--	Monthly
Profit Margin %	Dec-2014	33	37	40	-3	-8	92	Monthly
Sales Performance %	Dec-2014	89	91	100	-9	-9	91	Monthly

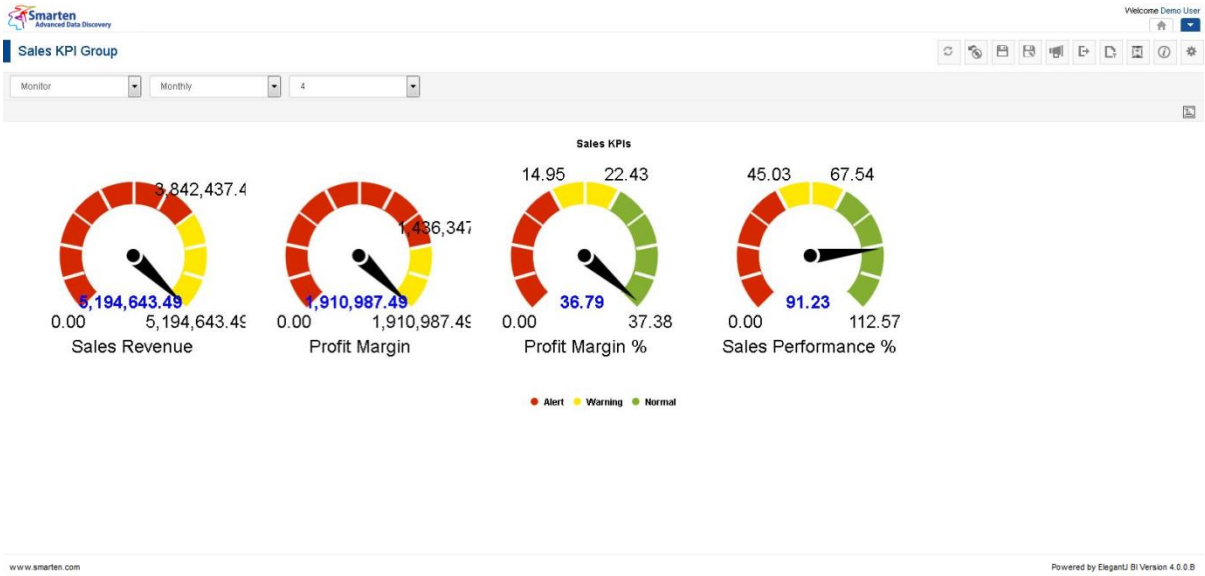
KPI GROUP—DEFAULT VIEW

7.3.2 Monitor

The Monitor view displays an individual KPI value with KPI value zones (warning, alert, target) using Gauge display.



KPI—MONITOR VIEW

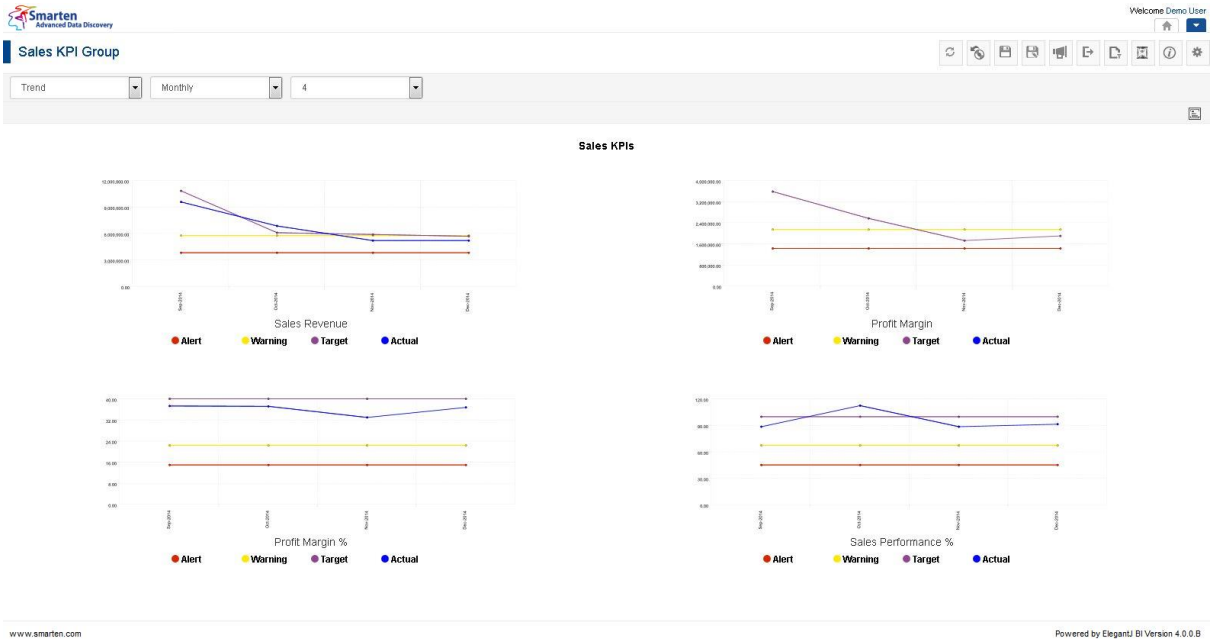


KPI GROUP—MONITOR VIEW

7.3.3 Trend

The Trend view displays performance of a KPI over a period of time, along with alert, warning, and target plotting using the line chart.

KPI—TREND VIEW



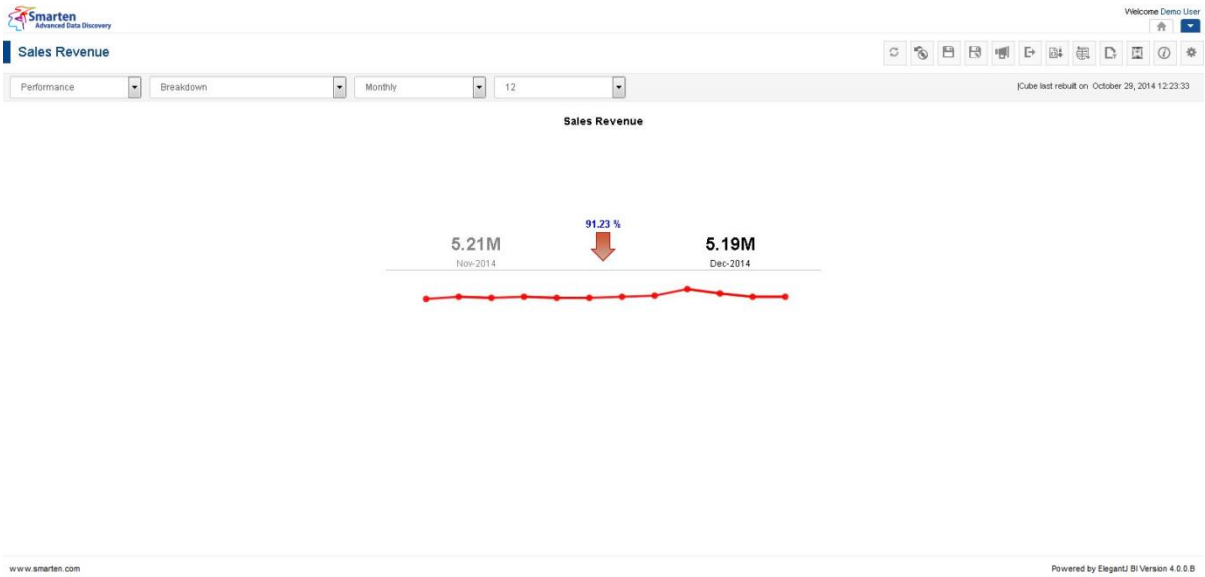
KPI GROUP—TREND VIEW

> Note:
> You can have a comparative view of all KPIs in a group from one view, using the Comparison view of KPI Group.

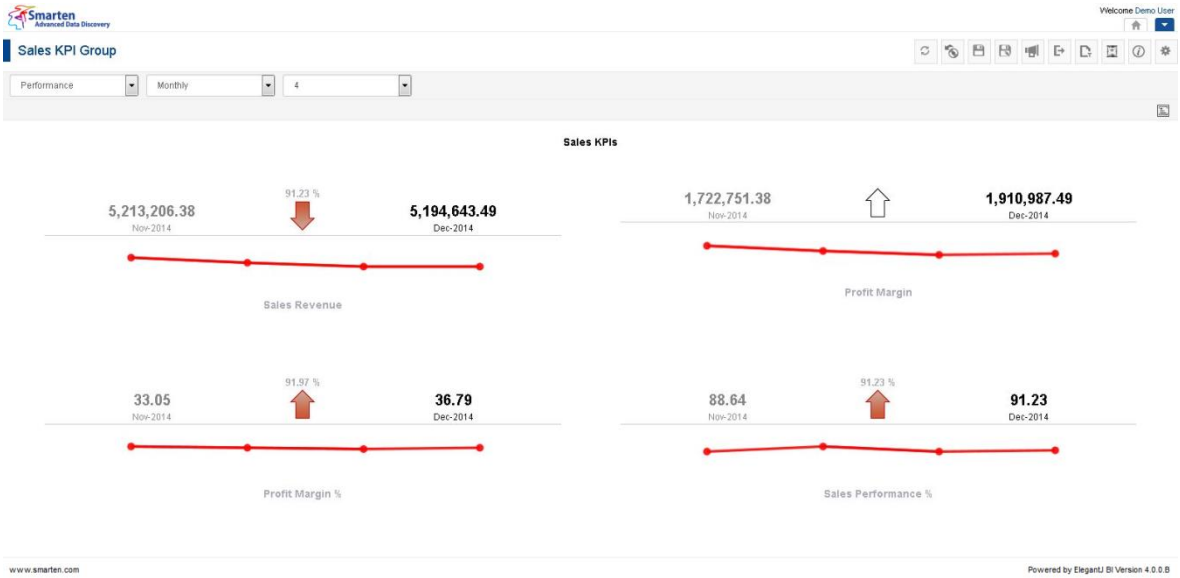
7.3.4 Performance

The Performance view displays period over period performance with performance indicator and performance trends.

Trend indicator arrow colour and direction depends on performance as well as polarity of KPI.



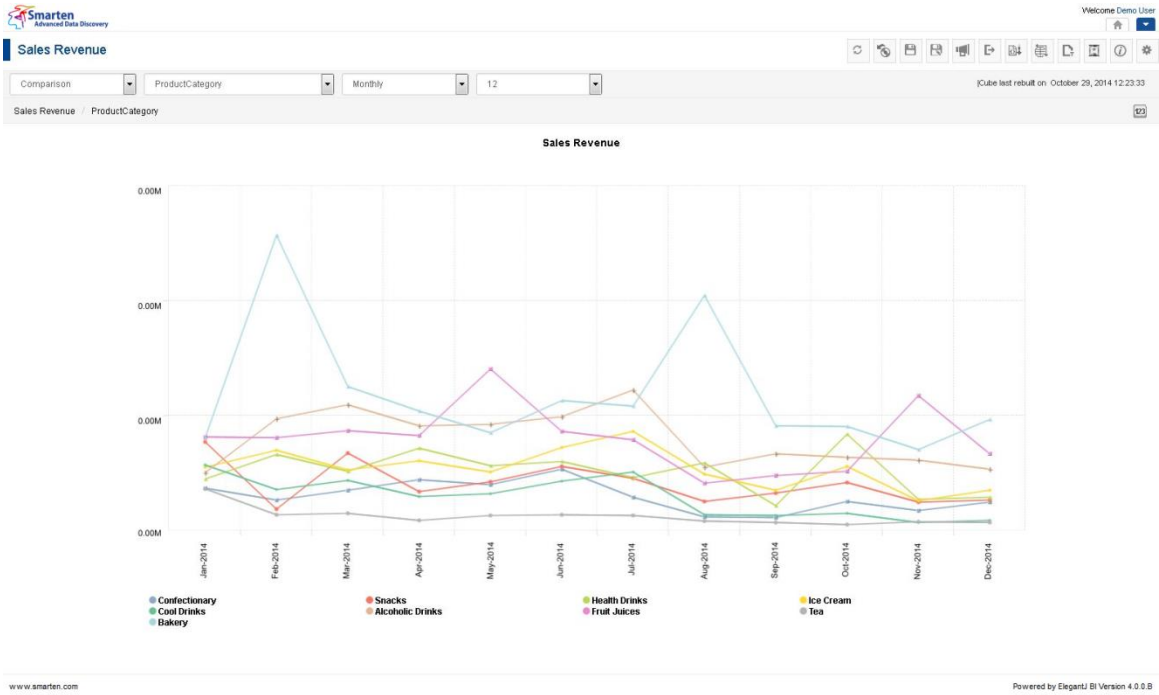
KPI—PERFORMANCE VIEW



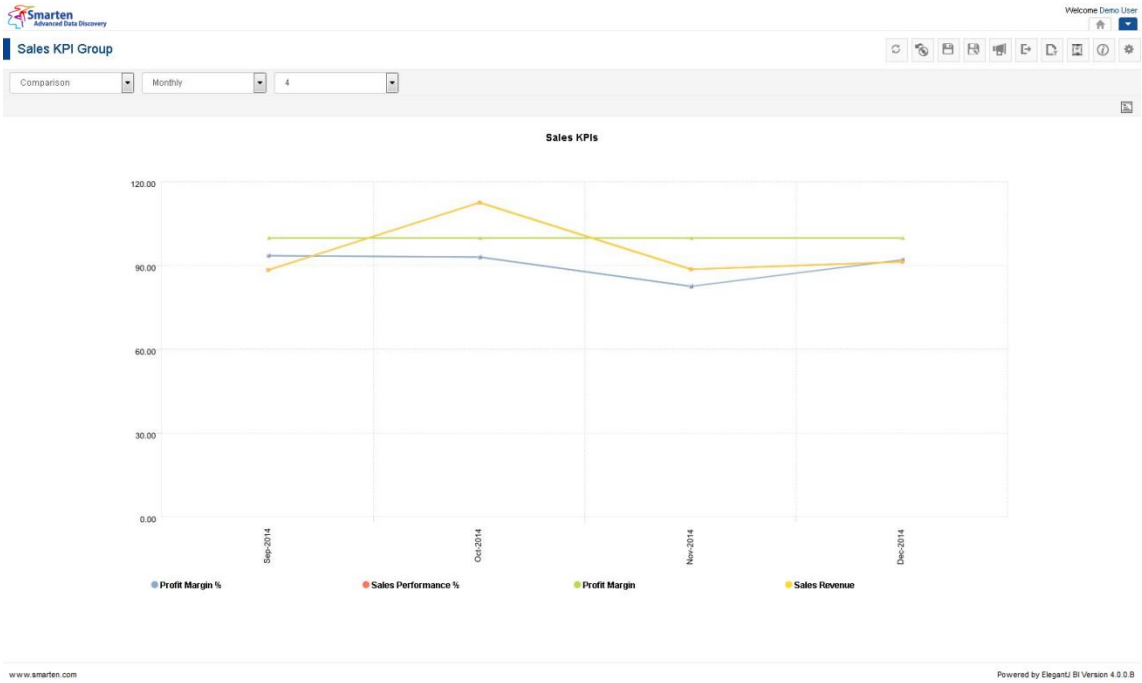
KPI GROUP—PERFORMANCE VIEW

7.3.5 Comparison

The Comparison View displays the comparative view of various KPIs within a KPI Group and individual KPI breakdown view.



KPI—COMPARISON VIEW

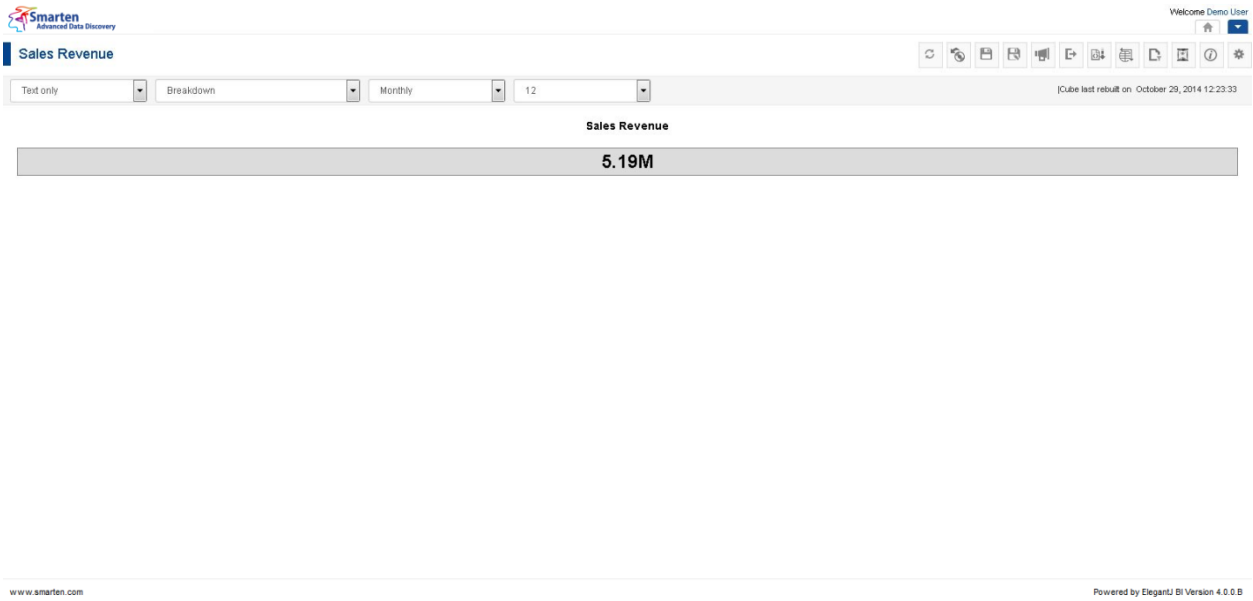


KPI GROUP—COMPARISON VIEW

> Note:
> You can have a comparative view of all KPIs in a group from one view, using the Comparison view of KPI Group.

7.3.6 Text Only

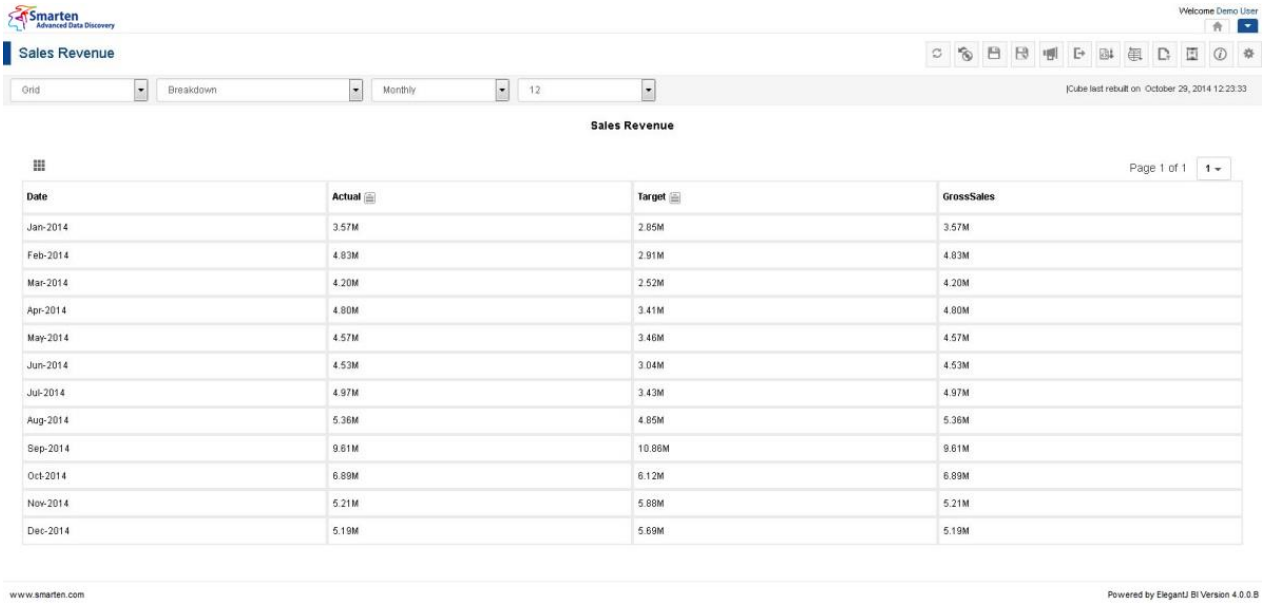
The Text Only view displays performance of a KPI in simple Text view, which you can further customise.



KPI—TEXT ONLY VIEW

7.3.7 Grid

The Grid view displays KPI in a simple tabular format, which you can further customise.



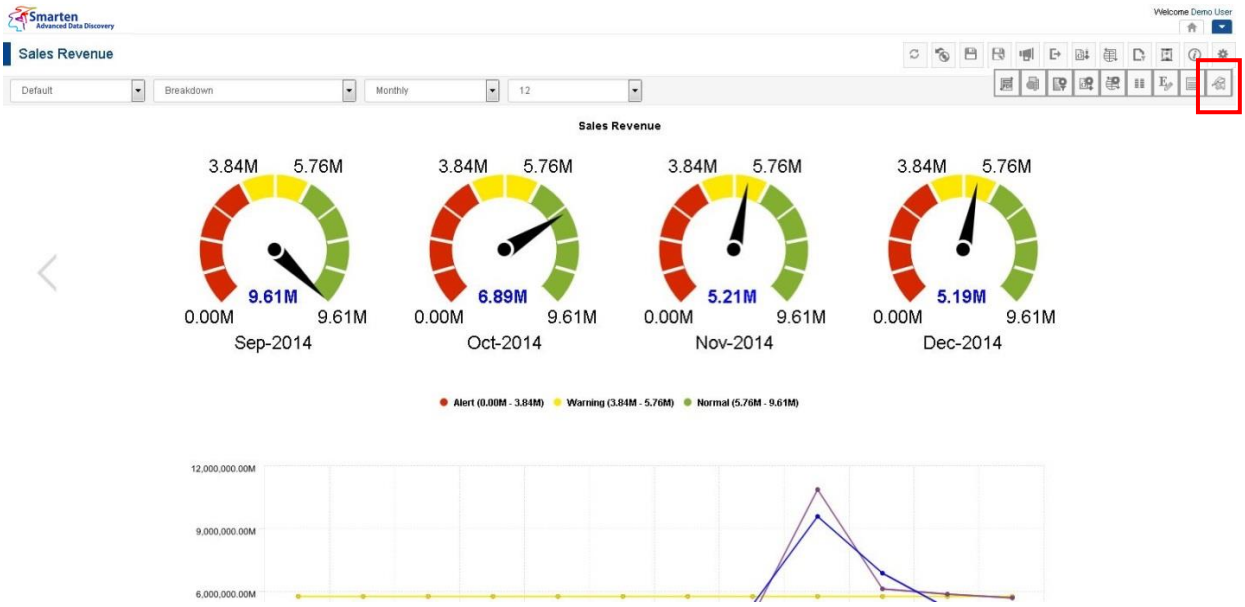
Date	Actual	Target	GrossSales
Jan-2014	3.57M	2.85M	3.57M
Feb-2014	4.83M	2.91M	4.83M
Mar-2014	4.20M	2.52M	4.20M
Apr-2014	4.80M	3.41M	4.80M
May-2014	4.57M	3.46M	4.57M
Jun-2014	4.53M	3.04M	4.53M
Jul-2014	4.97M	3.43M	4.97M
Aug-2014	5.36M	4.85M	5.36M
Sep-2014	9.61M	10.86M	9.61M
Oct-2014	6.89M	6.12M	6.89M
Nov-2014	5.21M	5.88M	5.21M
Dec-2014	5.19M	5.69M	5.19M

KPI—GRID VIEW

7.4 KPI Properties

Smarten provides a comprehensive list of properties to configure and view KPI to suit your needs.

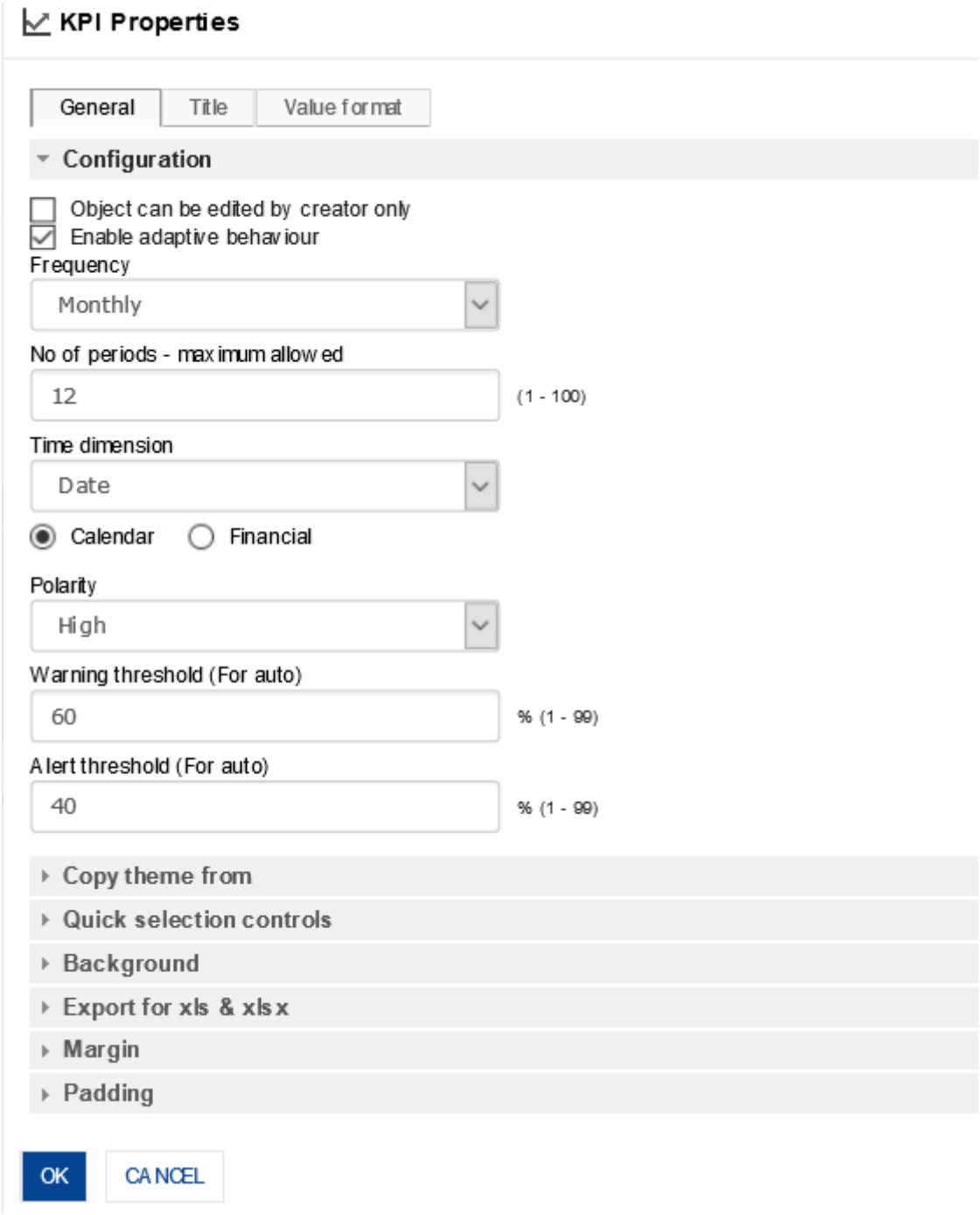
7.4.1 KPI Properties



KPI PROPERTIES—NAVIGATION

Procedure

1. In the **Repository**, open KPI.
   The system displays the selected KPI.
2. In the upper right-hand corner, click **Setting**.
   The system displays the Setting Toolbar.
3. Click **KPI Properties.**
   The system displays the **KPI Properties** dialog box.



KPI PROPERTIES—DIALOG

4. To configure the properties, select the tab and enter/select the values in the various fields.
5. Click **OK** or **Cancel**.

The following tables list all the common KPI properties.

KPI properties - General

Element	Properties	Sub Properties	Default Value	Values
Configuration	Object can be edited by creator only		TRUE/FALSE based on default access policy set by administrator	True/False

Element	Properties	Sub Properties	Default Value	Values
	Enable adaptive behaviour		TRUE	True/False
	Frequency		Monthly	Yearly/HalfYearly/ Quarterly/Monthly/ Bi-Weekly/Weekly/ Daily/Hourly
	No of periods-maximum allowed		12	1 – 100
	Time dimension			List of date dimensions of cube
	Polarity		High	High/Low
	Warning threshold (For auto)		60	1% - 99%
	Alert threshold (For auto)		40	1% - 99%
Quick selection controls	Views		TRUE	True/False
	Breakdown columns		TRUE	True/False
	Frequency		TRUE	True/False
	Periods		TRUE	True/False
Background	Visible		FALSE	True/False
	Color		#DCDCDC	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Export for xls & xlsx	Show object information		TRUE	True/False
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		1.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

KPI PROPERTIES – GENERAL

KPI properties - Title

Element	Properties	Sub Properties	Default Value	Values
Configuration	Visible		TRUE	True/False

Element	Properties	Sub Properties	Default Value	Values
	Title			Any String Value
	Title panel	Position	Center	Left/Right/Center
		Adjust width to text	FALSE	True/False
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		14	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/ Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Center	Center/Left/Right/ Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border	Visible		TRUE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot

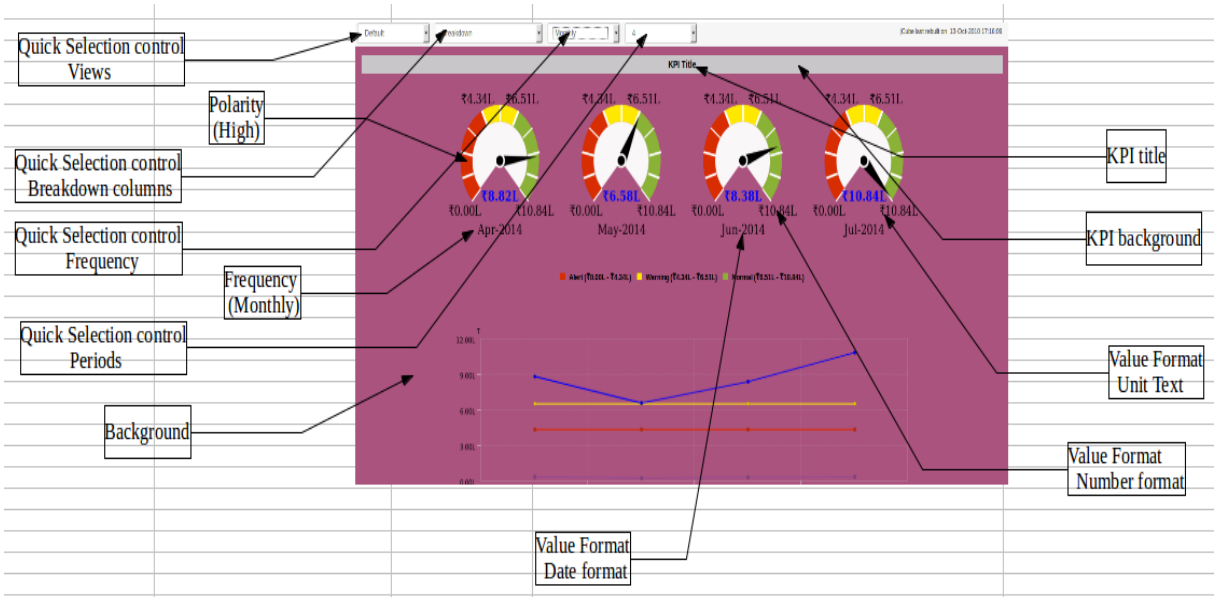
Element	Properties	Sub Properties	Default Value	Values
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.50%	0 – 100 %
	Left		0.30%	0 – 100 %
	Right		0.30%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.20%	0 – 100 %
	Left		0.50%	0 – 100 %
	Right		0.50%	0 – 100 %

KPI PROPERTIES – TITLE

KPI properties – Value format

Element	Properties	Sub Properties	Default Value	Values
Number format	Comma separator		TRUE	True/False
	Comma format		1, 234, 567	1, 234, 567/ 12, 34 , 567
	Digits after decimal point		2	0 – 5
	Adjusted digits		1/1000K	1/1000K, 1/100000L, 1/1000000M, 1/10000000Cr, 1/100000000Bn
Unit text	Text		None	Any String values
	Position		Prefix	Prefix/Suffix
Date format			As per periods	List of different date formats

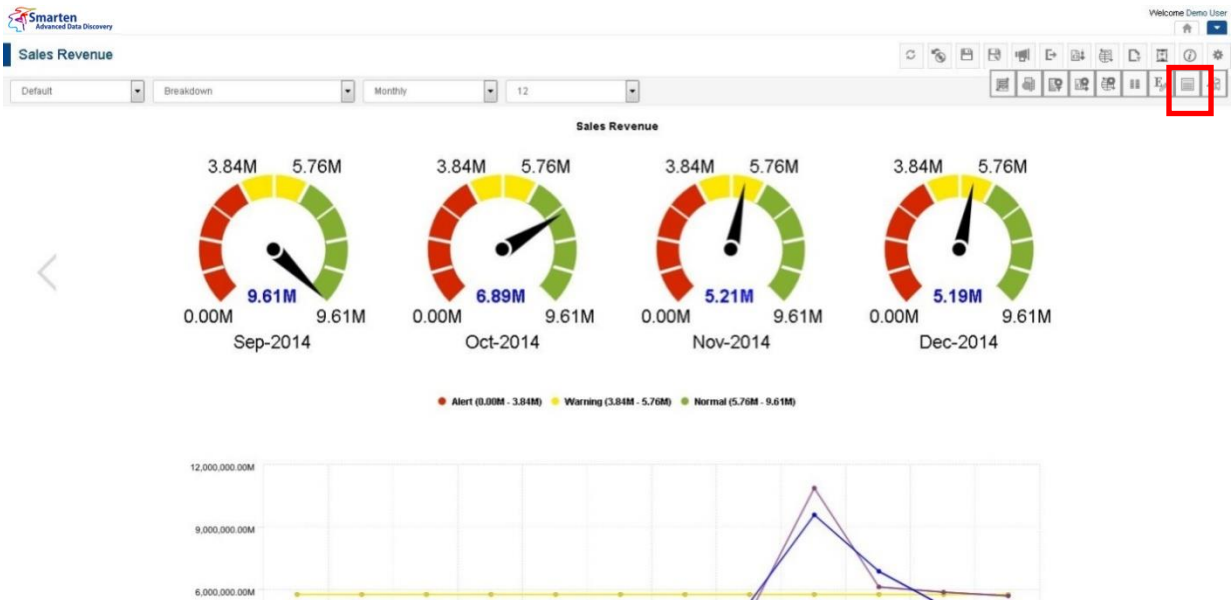
KPI PROPERTIES - VALUE FORMAT



KPI—VARIOUS ELEMENTS

7.4.2 KPI View Properties

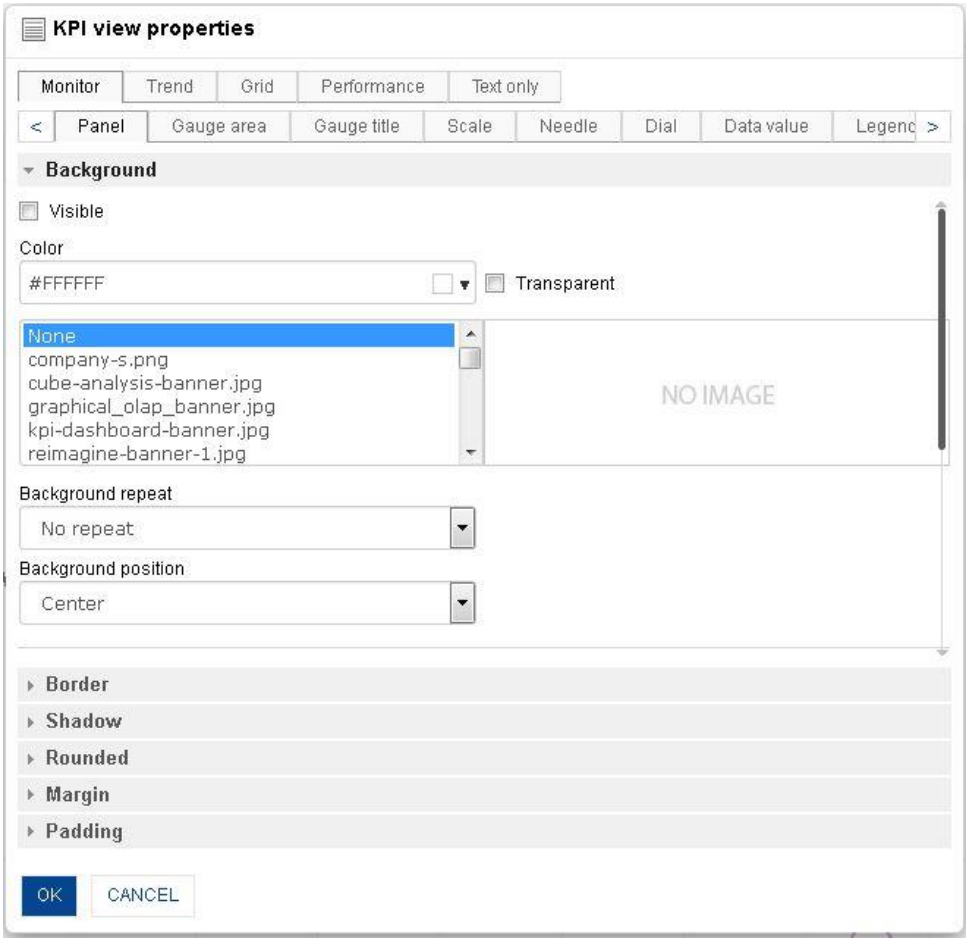
Smarten provides a comprehensive list of KPI View properties.



KPI VIEW PROPERTIES—NAVIGATION

Procedure

1. In the **Repository**, open KPI.
   The system displays the selected KPI.
2. In the upper right-hand corner, click **Setting**.
   The system displays the Setting Toolbar.
3. Click **KPI view Properties.**
   The system displays the **KPI view Properties** dialog box.



KPI VIEW PROPERTIES—DIALOG

4. To view the properties, select the tab to view the values in the various fields.
5. Click **OK** or **Cancel**.

The following tables list all the KPI view properties.

7.4.2.1 KPI View – Monitor Properties

Monitor view – Panel properties

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		FALSE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/ Bottom
	Background Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF

Element	Properties	Sub Properties	Default Value	Values
Border	Visible		FALSE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		1.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

KPI VIEW - MONITOR PROPERTIES - PANEL

Monitor view – Gauge area properties

Element	Properties	Sub Properties	Default Value	Values
	Height		80	0 – 100 %
	Number of gauges in default view		4	1/2/3/4
	Suppress when value is zero		FALSE	True/False
Background	Visible		FALSE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF

Element	Properties	Sub Properties	Default Value	Values
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/ Bottom
	Background Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border	Visible		FALSE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		20%	0 – 100 %

KPI VIEW - MONITOR PROPERTIES - GUAGE AREA

Monitor view – Gauge title properties

Element	Properties	Sub Properties	Default Value	Values
Configuration	Visible		TRUE	True/False
	Distance from center		65	Less than Gauge area width
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U

Element	Properties	Sub Properties	Default Value	Values
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/ Lowercase/Capitalize
	Text Alignment		Left	Left/Right/Center/Justi fy
	Characters limits		Auto	None/Auto/Custom

KPI VIEW - MONITOR PROPERTIES - GUAGE TITLE

Monitor view – Scale properties

Element	Properties	Sub Properties	Default Value	Values
Major tick	Visible		TRUE	True/False
	Radius (Tick position from center)		100	0-100 %
	Color		#ffffff	#000000 - #FFFFFF
	Length		15	1 – 15
	Thickness		2	1 – 20
Minor tick	Visible		FALSE	True/False
	Color		#000000	#000000 - #FFFFFF
	Length		5	1 – 10
	Thickness		1	1 – 20
Target tick	Visible		FALSE	True/False
	Color		#000000	#000000 - #FFFFFF
	Radius		15	0 – 100 %
	Thickness		1	1 – 20
Baseline circle for tick	Visible		FALSE	True/False
	Width		1	1 – 10
	Style		Solid	None/Solid
	Color		#000000	#000000 - #FFFFFF
	Transparency		None	None – 100%

KPI VIEW – MONITOR PROPERTIES - SCALE

Monitor view – Needle properties

Element	Properties	Sub Properties	Default Value	Values
Needle				
Configuration	Color		#000000	#000000 - #FFFFFF
	Radius		75	0-100 %
	Thickness		11	1 – 25
	Tail length		None	None – 25
	Transparency		None	0 – 100%
Border	Width		0	0 – 10
	Style		None	None/Solid
	Color		#FFFFFF	#000000 - #FFFFFF
Needle cap				
Configuration	Visible		TRUE	True/False

Element	Properties	Sub Properties	Default Value	Values
	Radius		7	0-100 %
	Color		#000000	#000000 - #FFFFFF
	Transparency		None	0 – 100%
Border	Width		1	1 – 10
	Style		Solid	None/Solid
	Color		#FFFFFF	#000000 - #FFFFFF

KPI VIEW – MONITOR PROPERTIES - NEEDLE

Monitor view – Dial properties

Element	Properties	Sub Properties	Default Value	Values
Zone				
Configuration	Visible		True	True/false
	Radius	From	80	Less than gauge area width
		To	100	Less than gauge area width
	Angle	Start	45	0 - 360
		End	315	0 - 360
Color	Normal		#84ae31	#000000 - #ffffff
	Warning		#ffe700	#000000 - #ffffff
	Alert		#d62800	#000000 - #ffffff
	Transparency		None	None – 100%
Background	Visible		True	True/False
	Color		#ffffff	#000000 - #ffffff
	Transparency		5	None- 100
Border	Width		0	0 – 10
	Style		None	None/solid
	Color		#ffffff	#000000 - #ffffff
Outer circle				
Configuration	Visible		False	True/false
	Radius	From	0	Less than gauge area width
		To	95	Less than gauge area width
Color	Color		#dcdcdc	#000000 - #ffffff
	Transparency		None	None – 100%
Border	Width		1	0 – 10
	Style		None	None/solid
	Color		#000000	#000000 - #ffffff
Inner circle				
Configuration	Visible		False	True/false
	Radius	From	0	Less than gauge area width
		To	15	Less than gauge area width
Color	Color		#dcdcdc	#000000 - #ffffff
	Transparency		None	None – 100%
Border	Width		1	0 – 10

Element	Properties	Sub Properties	Default Value	Values
	Style		None	None/solid
	Color		#c0c0c0	#000000 - #ffffff
Background				
Border	Width		0	0 – 10
	Style		None	None/solid
	Color		#ffffff	#000000 - #ffffff

KPI VIEW – MONITOR PROPERTIES - DIAL

Monitor view – Data value properties

Element	Properties	Sub Properties	Default Value	Values
Actual				
Configuration	Visible		TRUE	True/False
	Distance from center		35	Less than Gauge area width
Font and Text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#0000ff	#000000 - #FFFFFF
Target				
Configuration	Visible		FALSE	True/False
	Distance from center		0	Less than Gauge area width
Font and Text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#DCDCDC	#000000 - #FFFFFF
Border	Width		0	0 – 10
	Style		None	None/Solid
	Color		#000000	#000000 - #FFFFFF
Zone				
Configuration	Visible		TRUE	True/False
Font and Text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF

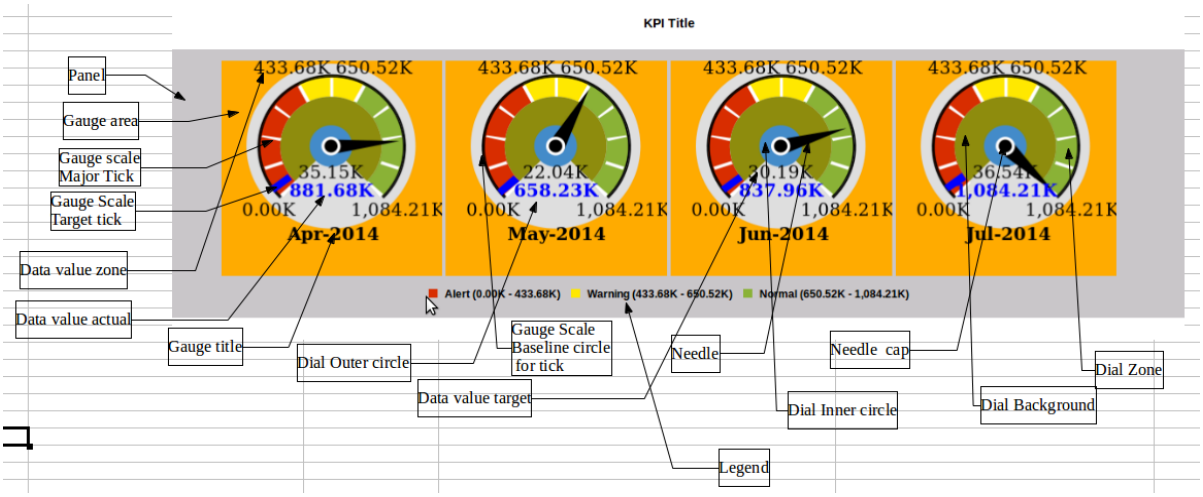
KPI VIEW - MONITOR PROPERTIES - DATA VALUE

Monitor view – Legend properties

Element	Properties	Sub Properties	Default Value	Values
Panel				
Configuration	Visible		TRUE	True/False
Background	Visible		FALSE	True/False
	Color		#DCDCDC	#000000 - #FFFFFF
Border	Visible		FALSE	True/False

Element	Properties	Sub Properties	Default Value	Values
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
value				
Font and Text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
Icon				
Configuration	Width		10	0 – 50 screen units
Shape	Select Shape		Square	Square/Circle/Horizontal line/ Vertical line
Border	Width		1	1 – 10
	Style		None	None/Solid/Dash/Dot
	Color		#000000	#000000 - #FFFFFF

KPI VIEW – MONITOR PROPERTIES - LEGEND



KPI VIEW - MONITOR PROPERTIES – VARIOUS ELEMENTS

7.4.2.2 KPI View – Trend Properties

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		FALSE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/ Bottom
	Background Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border	Visible		FALSE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		1.00%	0 – 100 %

Element	Properties	Sub Properties	Default Value	Values
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

KPI VIEW – TREND PROPERTIES – PANEL

Element	Properties	Sub Properties	Default Value	Values
General				
Configuration	Graph 3D effect	Angle	0	
		Depth 3d	0	
Background	Visible		FALSE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/ Bottom
	Background Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border	Visible		FALSE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20

Element	Properties	Sub Properties	Default Value	Values
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Background Grid				
Grid line	Visible		TRUE	True/False
	Thickness		1	1 – 10
	Style		Dash	None/Solid/Dash/Dot/ Dashdot/Dashdotdot/R aised/ Lowered
	Color		#B4B4B4	#000000 - #FFFFFF
	Minor grid	Enable	FALSE	True/False
Grid stripe	Visible		FALSE	True/False
	Odd		#000000	#000000 - #FFFFFF
	Transparency		None	None – 100 %
Zoom				
Zoom through area selection		Enable	FALSE	True/False
Scrollbar		Enable	FALSE	True/False

KPI VIEW – TREND PROPERTIES – GRAPH AREA

Element	Properties	Sub Properties	Default Value	Values
Label				
Configuration	Visible		TRUE	True/False
	Distance from axis line		0	0 – 10
	Stagger	Enable	FALSE	True/False
		Start from top		True/False
		Start from bottom		True/False
	Rotation	Angle	-89	-90 – 90
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowe rcase/Capitalize
	Characters limits		Auto	None/Auto/Custom
Line				
Configuration	Visible		TRUE	True/False
	Thickness		1	0 – 10
	Style		Solid	None/Solid/Dash/Dot/ Dashdot/Dashdotdot/ Raised/Lowered
	Color		#DCDCDC	#000000 - #FFFFFF
	Position		Bottom	None/Top/Bottom
Tick on axis	Visible		TRUE	True/False

Element	Properties	Sub Properties	Default Value	Values
	Thickness		1	1 – 10
	Length		7	1 – 10
	Distance from axis line		0	0 – 10
	Color		#DCDCDC	#000000 - #FFFFFF

KPI VIEW – TREND PROPERTIES – X AXIS

Element	Properties	Sub Properties	Default Value	Values
Label				
Configuration	Visible		TRUE	True/False
	Distance from axis line		0	0 – 10
	Stagger	Enable	FALSE	True/False
		Start from top		True/False
		Start from bottom		True/False
	Rotation	Angle	0	-90 – 90
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Characters limits		Auto	None/Auto/Custom
Number format	Comma separator		TRUE	True/False
	Comma format		1, 234, 567	1, 234, 567/ 12, 34 , 567
	Digits after decimal point		2	0 – 5
	Negative number format		-1234	
Line				
Configuration	Visible		TRUE	True/False
	Thickness		1	0 – 10
	Style		Solid	None/Solid/Dash/Dot/ Dashdot/Dashdotdot/ Raised/Lowered
	Color		#DCDCDC	#000000 - #FFFFFF
Major tick	Visible		TRUE	True/False
	Thickness		1	1 – 10
	Length		7	1 – 10
	Distance from axis line		0	0 – 10
	Color		#DCDCDC	#000000 - #FFFFFF

KPI VIEW – TREND PROPERTIES – Y AXIS

Element	Properties	Sub Properties	Default Value	Values
Panel				
Configuration	Visible		TRUE	True/False
	Position		Bottom	Top/Left/Right/Bottom
Background	Visible		FALSE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/ Bottom
	Transparency		None	None – 100%
	Background Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
		Transparent	FALSE	True/False
Border	Visible		FALSE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.20%	0 – 100 %
	Bottom		0.20%	0 – 100 %
	Left		0.50%	0 – 100 %
	Right		0.50%	0 – 100 %
Values				
Configuration	Column		4	Freeflow/1/2/3/4

Element	Properties	Sub Properties	Default Value	Values
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Characters limits		Auto	None/Auto/Custom
Icon				
Configuration	Width		10	0 – 50 screen units
Shape	Select Shape		Circle	Square/Circle/Triangle/ Diamond/Bubble
Border	Width		0	0 – 10
	Style		None	None/Solid/Dash/Dot
	Color		#000000	#000000 - #FFFFFF

KPI VIEW – TREND PROPERTIES – LEGEND

Element	Properties	Sub Properties	Default Value	Values
Configuration	Line		Alert	Alert/Warning/Target/ Actual
	Color		#ff0000	#000000 - #FFFFFF
	Style		None	None/Solid/Dash/Dot/ Dashdot/Dashdotdot/ Raised/Lowered
	Thickness		1	1 – 10
	Point	Color	#ff0000	#000000 - #FFFFFF
		Style	Square	Square/Circle/Triangle/ Diamond/Star/Plus
		Thickness	1	1 – 10
	Border	Width	1	0 – 10
		Color	#000000	#000000 - #FFFFFF

KPI VIEW – TREND PROPERTIES – LINE

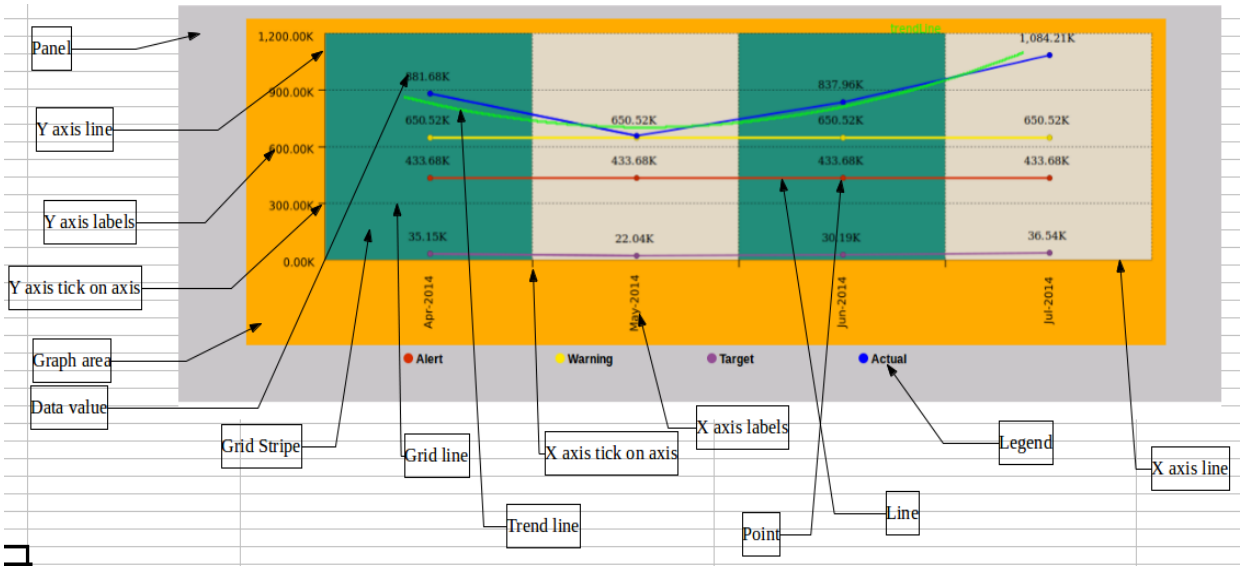
Element	Properties	Sub Properties	Default Value	Values
Point				
Configuration	Visible		FALSE	True/False
	Position		Top	Top/Center/Bottom
	Format text		$Y-AXIS_VALUE$	$Y-AXIS_VALUE$ / $X-AXIS_VALUE$ / $Z-AXIS_VALUE$
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)

Element	Properties	Sub Properties	Default Value	Values
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/ Bottom
	Transparency		None	None – 100%
	Background Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
		Transparent	FALSE	True/False
Mouse over				
Configuration	Enable mouse over text		TRUE	True/False
	Color		#DCDCDC	#000000 - #FFFFFF
	Format text		$Y-AXIS_VALUE$	$Y-AXIS_VALUE$ / $X-AXIS_VALUE$ / $Z-AXIS_VALUE$
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#ffffff	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
Background	Visible		TRUE	True/False
	Color		#000000	#000000 - #FFFFFF
Border		Visible	FALSE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF

KPI VIEW – TREND PROPERTIES – DATA VALUE

Element	Properties	Sub Properties	Default Value	Values
	Label			Any String values
	Column		Alert	Alert/Warning/Target/ Actual
	Type		Linear	Linear/Logarithmic/ Exponential/Moving Average
	Style		Solid	None/Solid/Dash/Dot
	Thickness		1	1 – 10
	Color		#000000	#000000 - #FFFFFF

KPI VIEW – TREND PROPERTIES – TRENDLINE



KPI VIEW – TREND PROPERTIES – VARIOUS ELEMENTS

7.4.2.3 KPI View – Grid Properties

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		FALSE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/ Bottom
	Background Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border	Visible		TRUE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot

Element	Properties	Sub Properties	Default Value	Values
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		1.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		1.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

KPI VIEW – GRID PROPERTIES – PANEL

Element	Properties	Sub Properties	Default Value	Values
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowe rcase/ Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Auto	None/Auto/Custom
	Text Shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#DCDCDC	#000000 - #FFFFFF
Border	Visible		TRUE	True/False
	All	Width	2	0 – 10

Element	Properties	Sub Properties	Default Value	Values
		Style	Solid	None/Solid/Dash/Dot
		Color	#ebebeb	#000000 - #FFFFFF
	Left	Width	2	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#ebebeb	#000000 - #FFFFFF
	Right	Width	2	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#ebebeb	#000000 - #FFFFFF
	Top	Width	2	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#ebebeb	#000000 - #FFFFFF
	Bottom	Width	2	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#ebebeb	#000000 - #FFFFFF

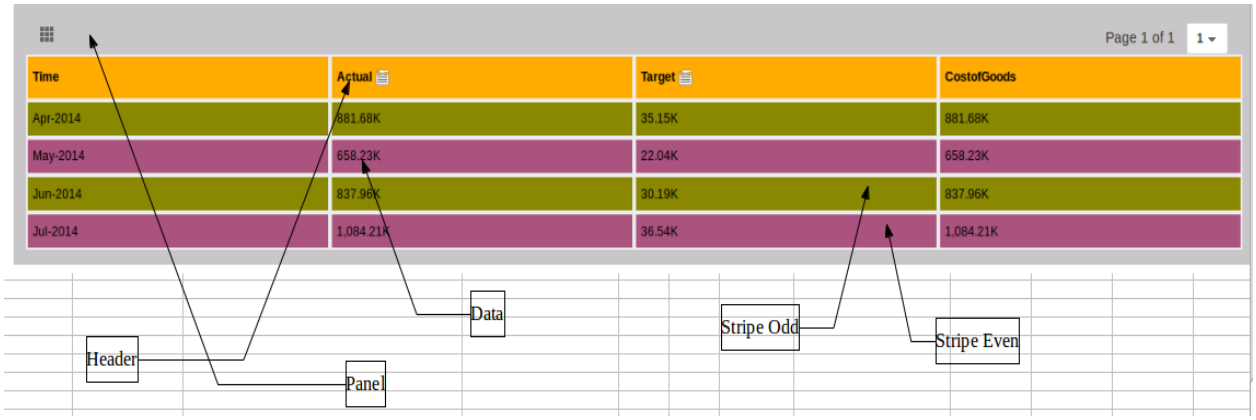
KPI VIEW – GRID PROPERTIES – HEADER

Element	Properties	Sub Properties	Default Value	Values
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowe rcase/ Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Auto	None/Auto/Custom
	Text Shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#DCDCDC	#000000 - #FFFFFF
Border	Visible		TRUE	True/False
	All	Width	2	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#ebebeb	#000000 - #FFFFFF
	Left	Width	2	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#ebebeb	#000000 - #FFFFFF
	Right	Width	2	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#ebebeb	#000000 - #FFFFFF
	Top	Width	2	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#ebebeb	#000000 - #FFFFFF
	Bottom	Width	2	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#ebebeb	#000000 - #FFFFFF

KPI VIEW – GRID PROPERTIES – DATA

Element	Properties	Sub Properties	Default Value	Values
Configuration	Enable		TRUE	True/False
	Odd		#000000	#000000 - #FFFFFF
	Even		#DCDCDC	#000000 - #FFFFFF

KPI VIEW – GRID PROPERTIES – STRIPE



KPI VIEW– GRID PRONPERTIES – VARIOUS ELEMENTS

7.4.2.4 KPI View – Performance Properties

Element	Properties	Sub Properties	Default Value	Values
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		24	8 – 72
	Color		#848284	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#DCDCDC	#000000 - #FFFFFF
Border	Visible		FALSE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

KPI VIEW – PERFORMANCE PROPERTIES – PREVIOUS VALUE

Element	Properties	Sub Properties	Default Value	Values
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#848284	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#DCDCDC	#000000 - #FFFFFF
Border	Visible		FALSE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

KPI VIEW – PERFORMANCE PROPERTIES – PREVIOUS PERIOD

Element	Properties	Sub Properties	Default Value	Values
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		24	8 – 72
	Color		#848284	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#DCDCDC	#000000 - #FFFFFF
Border	Visible		FALSE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10

Element	Properties	Sub Properties	Default Value	Values
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

KPI VIEW – PERFORMANCE PROPERTIES – CURRENT VALUE

Element	Properties	Sub Properties	Default Value	Values
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#848284	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#DCDCDC	#000000 - #FFFFFF
Border	Visible		FALSE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

KPI VIEW – PERFORMANCE PROPERTIES – CURRENT PERIOD

Element	Properties	Sub Properties	Default Value	Values
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		13	8 – 72

Element	Properties	Sub Properties	Default Value	Values
	Color		#0000ff	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#DCDCDC	#000000 - #FFFFFF
Border	Visible		FALSE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

KPI VIEW – PERFORMANCE PROPERTIES – PERFORMANCE

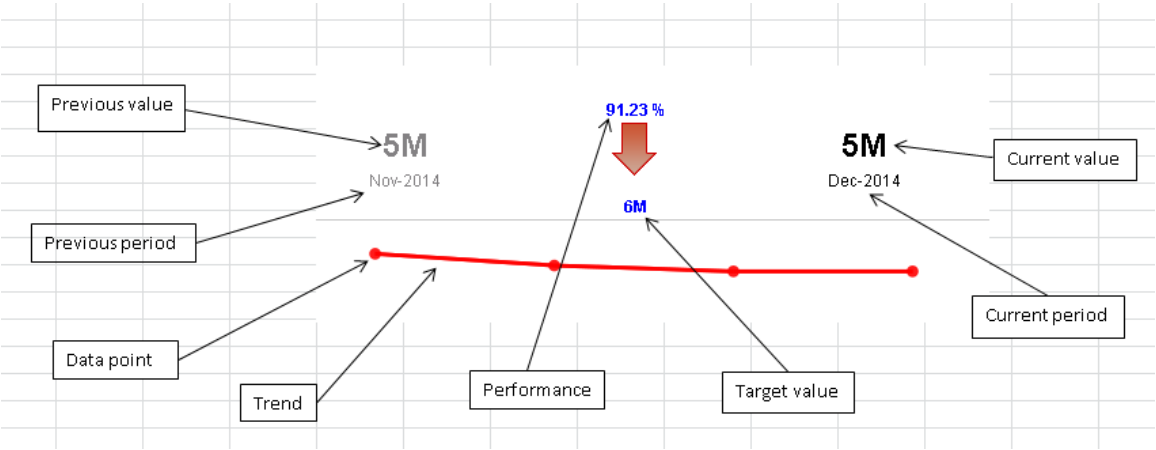
Element	Properties	Sub Properties	Default Value	Values
Configuration	Visible		TRUE	True/False
	Curve Enable		FALSE	True/False
	Data point visible		TRUE	True/False
Background	Visible		FALSE	True/False
	Color		#DCDCDC	#000000 - #FFFFFF
Line	Color		#FF0000	#000000 - #FFFFFF
	Width		1	1 – 5

KPI VIEW – PERFORMANCE PROPERTIES – TREND

Element	Properties	Sub Properties	Default Value	Values
Configuration	Visible		FALSE	True/False
	Label			Any String Value
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 25
	Color		#0000ff	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#DCDCDC	#000000 - #FFFFFF
Border	Visible	-	FALSE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot

Element	Properties	Sub Properties	Default Value	Values
		Color	#848284	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#848284	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#848284	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#848284	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#848284	#000000 - #FFFFFF
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

KPI VIEW – PERFORMANCE PROPERTIES – TARGET



KPI VIEW – PERFORMANCE PROPERTIES – VARIOUS ELEMENTS

7.4.2.5 KPI View – Text Only Properties

Element	Properties	Sub Properties	Default Value	Values
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Show text color as per zone setting		FALSE	True/False
Background	Visible		TRUE	True/False
	Color		#000000	#000000 - #FFFFFF
Border	Visible		FALSE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/ Dot
		Color	#848284	#000000 - #FFFFFF

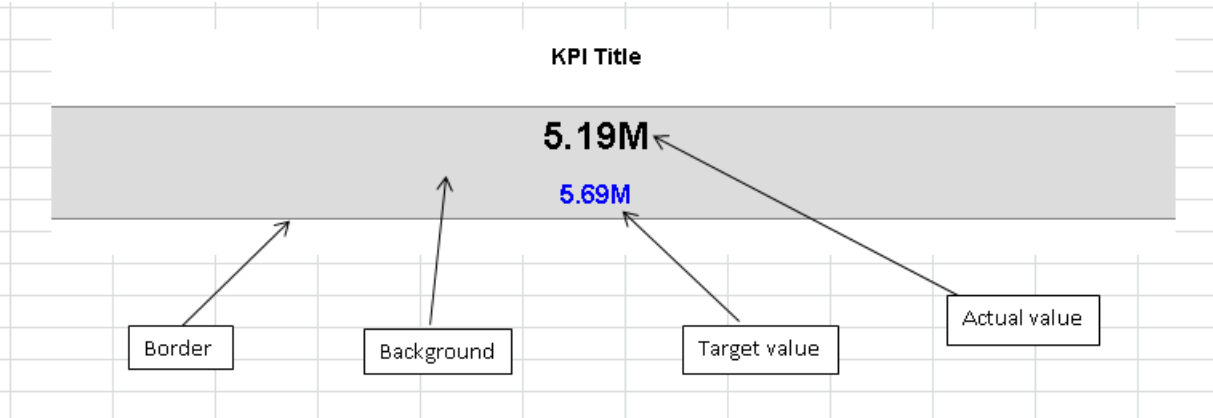
Element	Properties	Sub Properties	Default Value	Values
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/ Dot
		Color	#848284	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/ Dot
		Color	#848284	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/ Dot
		Color	#848284	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/ Dot
		Color	#848284	#000000 - #FFFFFF
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

KPI VIEW – TEXT ONLY PROPERTIES – TEXT ONLY

Element	Properties	Sub Properties	Default Value	Values
Configuration	Visible		FALSE	True/False
	Label			Any String Value
	Position	-	Bottom	Top/Bottom
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		16	8 – 25
	Color		#8a838a	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#DCDCDC	#000000 - #FFFFFF
Border	Visible	-	FALSE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/ Dot
		Color	#848284	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/ Dot
		Color	#848284	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/ Dot
		Color	#848284	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/ Dot
		Color	#848284	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10

Element	Properties	Sub Properties	Default Value	Values
		Style	Solid	None/Solid/Dash/ Dot
		Color	#848284	#000000 - #FFFFFF
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

KPI VIEW – TEXT ONLY PROPERTIES – TARGET



KPI VIEW – TEXT ONLY PROPERTIES – VARIOUS ELEMENTS

7.4.2.6 KPI View – Comparison Properties

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		FALSE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/ Bottom
	Background Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border	Visible		FALSE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10

Element	Properties	Sub Properties	Default Value	Values
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

KPI VIEW – COMPARISON PROPERTIES – PANEL

Element	Properties	Sub Properties	Default Value	Values
General				
Configuration	Graph 3D effect	Visible	FALSE	True/False
		Angle	0	
		Depth 3d	0	
Background	Visible		FALSE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/ Bottom
	Background Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border	Visible		FALSE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF

Element	Properties	Sub Properties	Default Value	Values
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		20.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Background Grid				
Grid line	Visible		TRUE	True/False
	Thickness		1	1 – 10
	Style		Dash	None/Solid/Dash/ Dot/Dashdot/Dashdotd ot/Raised/Lowered
	Color		#B4B4B4	#000000 - #FFFFFF
Grid stripe	Visible		FALSE	True/False
	Odd		#000000	#000000 - #FFFFFF
	Even		#DCDCDC	#000000 - #FFFFFF
	Transparency		None	0 – 100 %
Zoom				
Zoom through area selection		Enable	FALSE	True/False
Scrollbar		Enable	FALSE	True/False

KPI VIEW – COMPARISON PROPERTIES – GRAPH AREA

Element	Properties	Sub Properties	Default Value	Values
Label				
Configuration	Visible		TRUE	True/False

Element	Properties	Sub Properties	Default Value	Values
	Distance from axis line		0	0 – 10
	Stagger	Enable	FALSE	True/False
		Start from top		True/False
		Start from bottom		True/False
	Rotation	Angle	-89	-90 – 90
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/ Lowercase/ Capitalize
	Characters limits		Auto	None/Auto/ Custom
Line				
Configuration	Visible		TRUE	True/False
	Thickness		1	0 – 10
	Style		Solid	None/Solid/Dash/ Dot/Dashdot/Dashdotdot/Raised/ Lowered
	Color		#DCDCDC	#000000 - #FFFFFF
	Position		Bottom	None/Top/Bottom
Tick on axis	Visible		TRUE	True/False
	Thickness		1	1 – 10
	Length		7	1 – 10
	Distance from axis line		0	0 – 10
	Color		#DCDCDC	#000000 - #FFFFFF

KPI VIEW – COMPARISON PROPERTIES – X AXIS

Element	Properties	Sub Properties	Default Value	Values
Label				
Configuration	Visible		TRUE	True/False
	Distance from axis line		0	0 – 10
	Stagger	Enable	FALSE	True/False
		Start from top		True/False
		Start from bottom		True/False
	Rotation	Angle	0	-90 – 90
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
Number format	Comma separator		TRUE	True/False
	Comma format		1, 234, 567	1, 234, 567/ 12, 34 , 567

Element	Properties	Sub Properties	Default Value	Values
	Digits after decimal point		2	0 – 5
	Negative number format		-1234	
Line				
Configuration	Visible		TRUE	True/False
	Thickness		1	0 – 10
	Style		Solid	None/Solid/Dash/ Dot/Dashdot/Dashdotdot/Raised/Lowered
	Color		#DCDCDC	#000000 - #FFFFFF
Major tick	Visible		TRUE	True/False
	Thickness		1	1 – 10
	Length		7	1 – 10
	Distance from axis line		0	0 – 10
	Color		#DCDCDC	#000000 - #FFFFFF

KPI VIEW – COMPARISON PROPERTIES – Y AXIS

Element	Properties	Sub Properties	Default Value	Values
Panel				
Configuration	Visible		TRUE	True/False
	Position		Bottom	Top/Left/Right/ Bottom
Background	Visible		FALSE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/ Bottom
	Transparency		None	None – 100%
	Background Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
		Transparent	FALSE	True/False
Border	Visible		FALSE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot

Element	Properties	Sub Properties	Default Value	Values
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Values				
Configuration	Column		4	Freeflow/1/2/3/4
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/ Lowercase/ Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Characters limits		Auto	None/Auto/ Custom
Icon				
Configuration	Width		10	0 – 50 screen units
Shape	Select Shape		Circle	Square/Circle/ Triangle/Diamond/Bub ble
Border	Width		1	1 – 10
	Style		None	None/Solid/Dash/ Dot
	Color		#000000	#000000 - #FFFFFF

KPI VIEW – COMPARISON PROPERTIES – LEGEND

Element	Properties	Sub Properties	Default Value	Values
Configuration	Color		#ff0000	#000000 - #FFFFFF

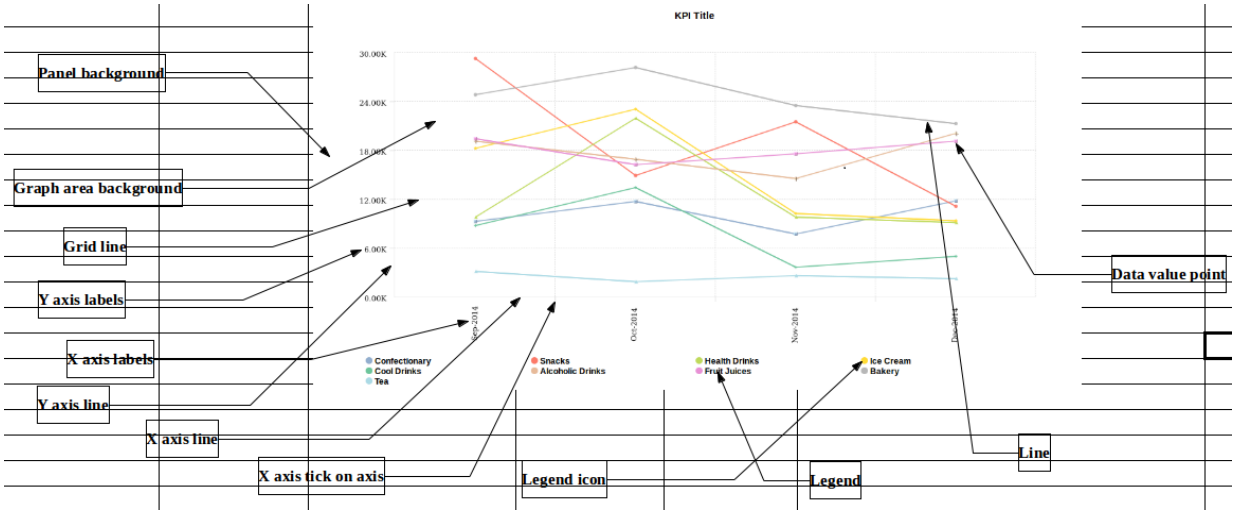
Element	Properties	Sub Properties	Default Value	Values
	Style		None	None/Solid/Dash/ Dot/Dashdot/Dashdotdot/Raised/ Lowered
	Thickness		1	1 – 10
	Point	Color	#ff0000	#000000 - #FFFFFF
		Style	Square	Square/Circle/ Triangle/Diamond/Star /Plus
		Thickness	1	1 – 10
	Border	Width	1	0 – 10
		Color	#000000	#000000 - #FFFFFF

KPI VIEW – COMPARISON PROPERTIES – LINE

Element	Properties	Sub Properties	Default Value	Values
Point				
Configuration	Visible		FALSE	True/False
	Position		Top	Top/Center/ Bottom
	Format text		$Y-AXIS_VALUE$	$Y-AXIS_VALUE$ / $X-AXIS_VALUE$ / $Z-AXIS_VALUE$
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/ Bottom
	Transparency		None	None – 100%
	Background Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
		Transparent	FALSE	True/False
Mouse over				
Configuration	Enable mouse over text		TRUE	True/False
	Color		#DCDCDC	#000000 - #FFFFFF
	Format text		$Y-AXIS_VALUE$	$Y-AXIS_VALUE$ / $X-AXIS_VALUE$ / $Z-AXIS_VALUE$
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72

Element	Properties	Sub Properties	Default Value	Values
	Color		#ffffff	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/ Lowercase/ Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
Background	Visible		TRUE	True/False
	Color		#000000	#000000 - #FFFFFF
Border	Visible		FALSE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/ Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF

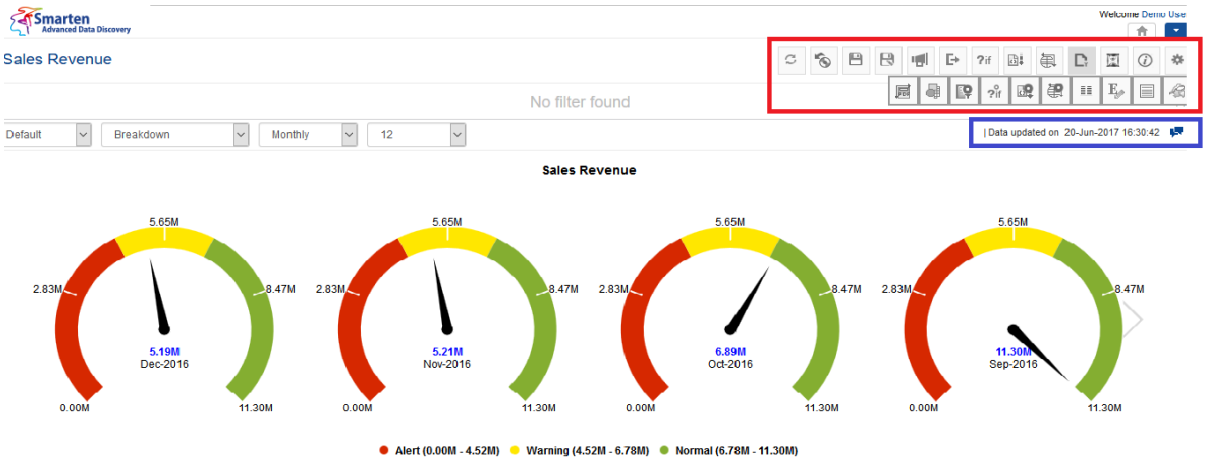
KPI VIEW – COMPARISON PROPERTIES – DATA VALUE



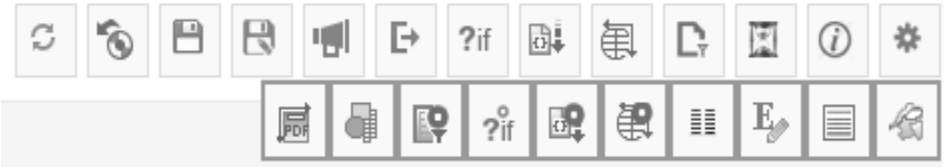
KPI VIEW – COMPARISION PROPERTIES – VARIOUS ELEMENTS

7.5 Becoming familiar with the KPI Toolbar

The KPI Menu consists of icons for various KPI views, Expressions, Formatting options, Export options, etc.



KPI TOOLBAR



KPI TOOLBAR

Icon	Icon name
	Refresh
	Restore
	Publish now
	Export
	What-if
	Retrieval parameters
	Global variables
	Page filter
	Time series
	Object information
	Setting
	PDF setup
	Manage link Object
	Manage page filters
	Select What-if variables

Icon	Icon name
	Manage retrieval parameters
	Manage global variables
	Manage breakdown columns
	KPI expressions
	KPI view properties
	KPI properties

KPI TOOLBAR OPTIONS

KPI ACTION TOOLBAR

The KPI information bar displays date & time of last data update and Comments icon.

KPI INFORMATION BAR

7.6 Creating KPIs using wizard

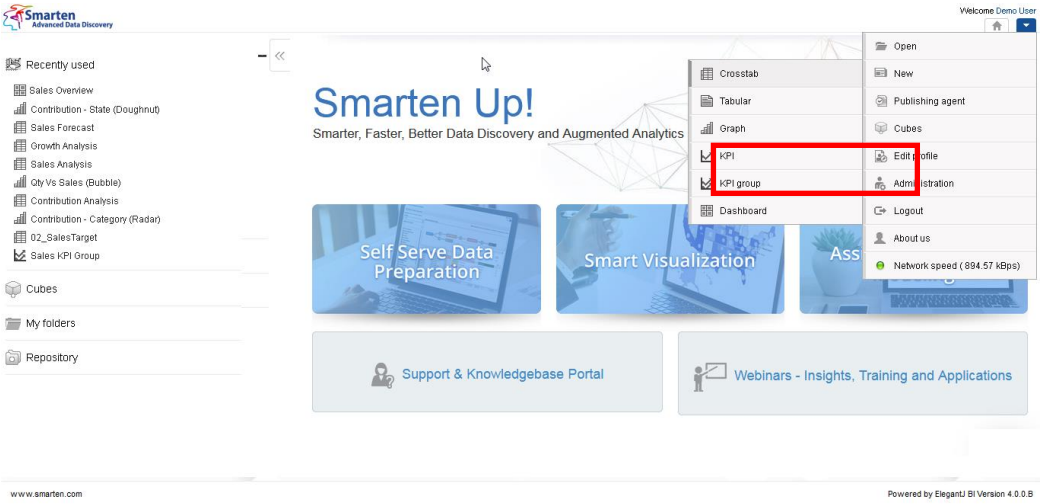
Cubes in Smarten are the main source of data extracted from various data sources indexed with multidimensional data structure and optimized for high performance, high speed, and high volume query for quick and uniform response times.

Working with the simple-to-use wizard-based interface, you can quickly define your organizational KPIs.

7.6.1 Individual KPI

Procedure

1. In the upper right-hand corner, click the **down arrow** icon.
   The system displays the Main Menu.
2. In the Main Menu, mouse over on **New**.
   The system displays the Sub Menu.



DEFINE KPIS

3. Click **KPI**.

   Creating KPI is a wizard-driven simple process with the following steps:

   - Step 1—Selecting Cube
   - Step 2—Defining Time Dimension and Polarity for KPI measurement
   - Step 3—Defining KPI Expression
     - Defining Target Expression
     - Defining Warning Threshold
     - Defining Alert Threshold
     - Defining Minimum Value
     - Defining Maximum Value

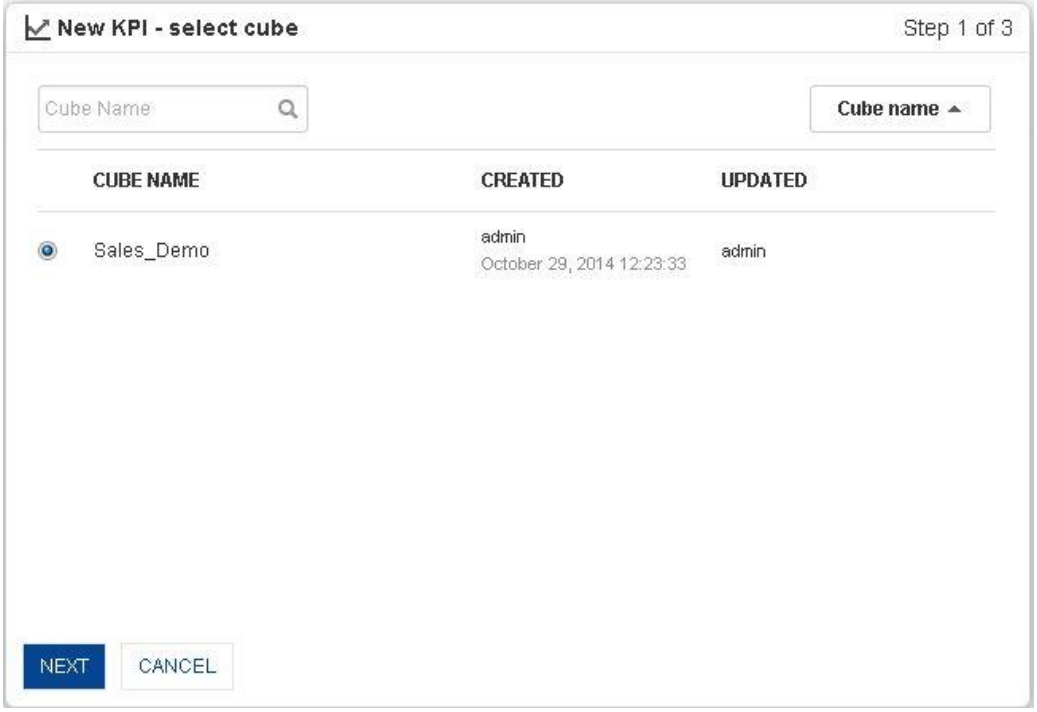
7.6.1.1 Selecting Cube

You need to select the cube from which you would like to derive the KPIs.

Procedure

1. Follow the Procedure of **Selecting Cube**.

   The system displays the **New KPI – select cube** dialog box.



SELECT CUBE

2. Click the radio button to select the cube name.
3. Click **Next**.

7.6.1.2 Defining Time Dimension and Polarity for KPI measurement

You can select a time dimension based on which KPI will be monitored. The time dimension can be the date dimension based on which the KPI has to be generated.

You can define a specific Polarity (High / Low) for the KPI. For KPIs, if the increase of the indicator is beneficial, it is referred to as "**High"** polarity, whereas if the increase of the indicator is adverse, it is referred as "**Low"** polarity. For example, the increase in value of Sales revenue is considered "High" polarity, as it is beneficial to sales. But an increase in Return Quantity is not a good sign, and thus it is considered as "Low" polarity KPI.

Procedure

1. Follow the **Procedure** of **Selecting Cube**.
   The system displays the **New KPI-select KPI properties** dialog box.

DEFINE TIME DIMENSION AND POLARITY

2. In the **Time dimension** section, select the date column and type of year (financial or calendar) from the drop-down list.
3. In the **Polarity** section, select the type of polarity (high or low) from the drop-down list.
4. Click **Next**.

Shown below is the table of auto threshold calculation based on polarity:

For High Polarity	
Threshold	**Calculation**
Warning	60% of actual max
Alert	40% of actual max
Minimum	0
Maximum	Maximum of actual
For Low Polarity	
Warning	40% of actual max
Alert	60% of actual max
Minimum	Maximum of actual
Maximum	0

AUTO CALCULATION OF THRESHOLDS BASED ON POLARITY

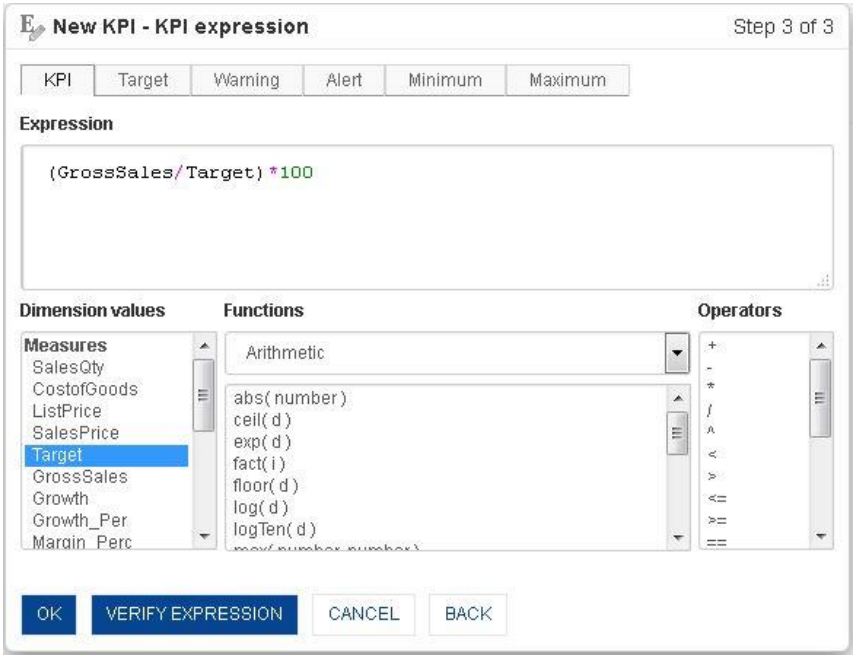
7.6.1.3 Defining KPI Expression

You can create KPI Expression with the easy-to-use expression editor. Expressions can be derived from the source columns of the cube.

For example, to create Sales Performance (Variance), you can enter the formula **(GrossSales / Target) *100**

Procedure

1. Follow the **Procedure** of **Defining Time Dimension and Polarity for KPI measurement**. The system displays the **New KPI - KPI expression** dialog box.



DEFINE KPI EXPRESSION

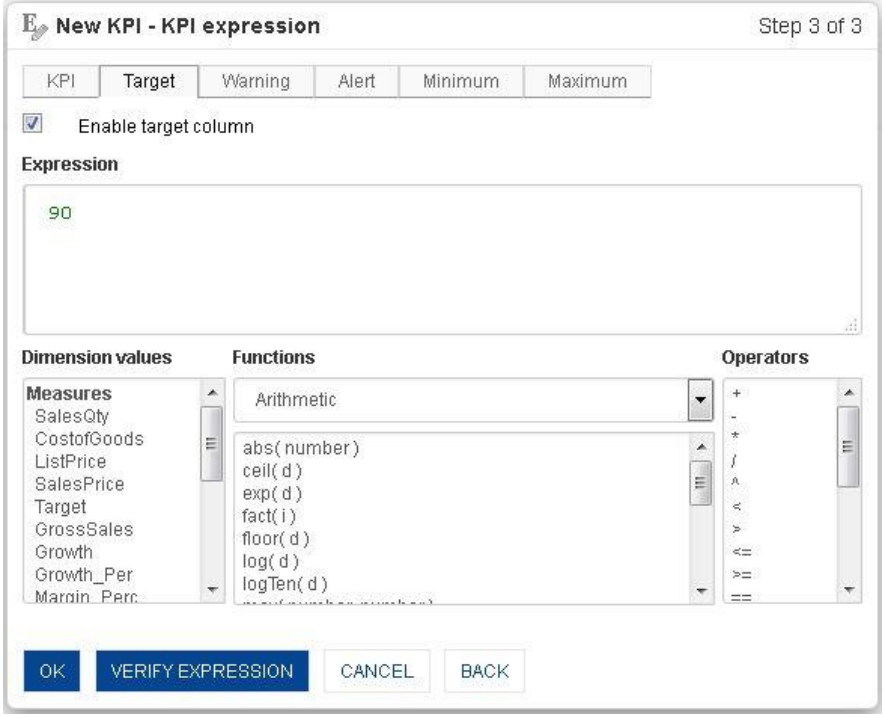
2. To configure the KPI Expression, select various tabs and enter/select the values in the various fields as displayed in sections: **Defining Target Expression, Defining Warning Threshold, Defining Alert Threshold, Defining Minimum Value,** and **Defining Maximum Value**.
3. Click **OK.**

Reference: **Concept Manual > Cube Repository Objects > Functions used in Custom Measures & Custom Dimension Values Formula**

7.6.1.4 Defining Target Expression

You can define the KPI target (budget) value to measure the performance against the actual value. This can be a constant value or user-defined expression. This is not a mandatory field.

For example, For Sales Performance, you can define the Target as 90.

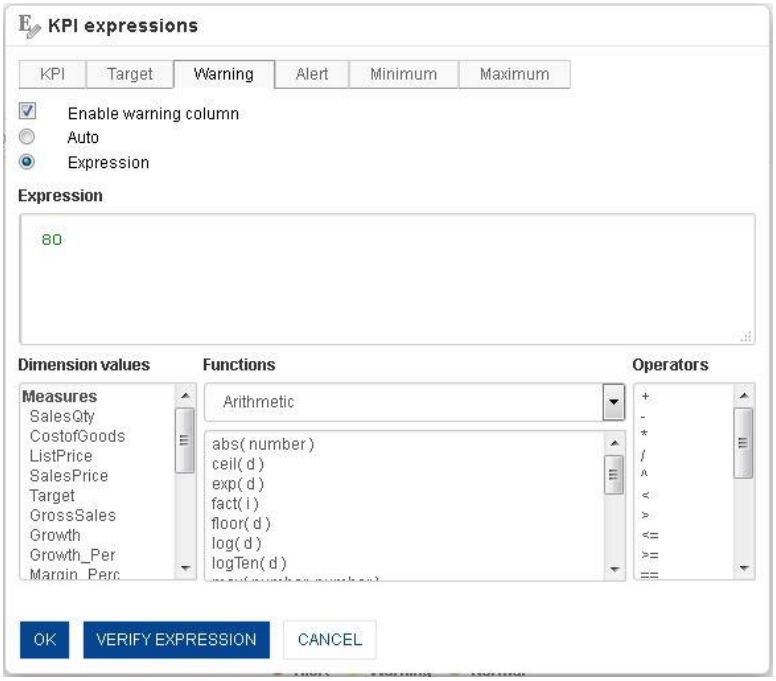


DEFINE TARGET EXPRESSION

7.6.1.5 Defining Warning Threshold

You can define the KPI warning threshold to set the warning boundary. If the actual value is going below the warning boundary, it will be displayed in the warning section. If you have chosen the "Automatic Calculation of Warning Threshold" option, then the system will automatically calculate the Actual value.

Refer to the table of **Auto Calculation of Thresholds Based on Polarity** given above.

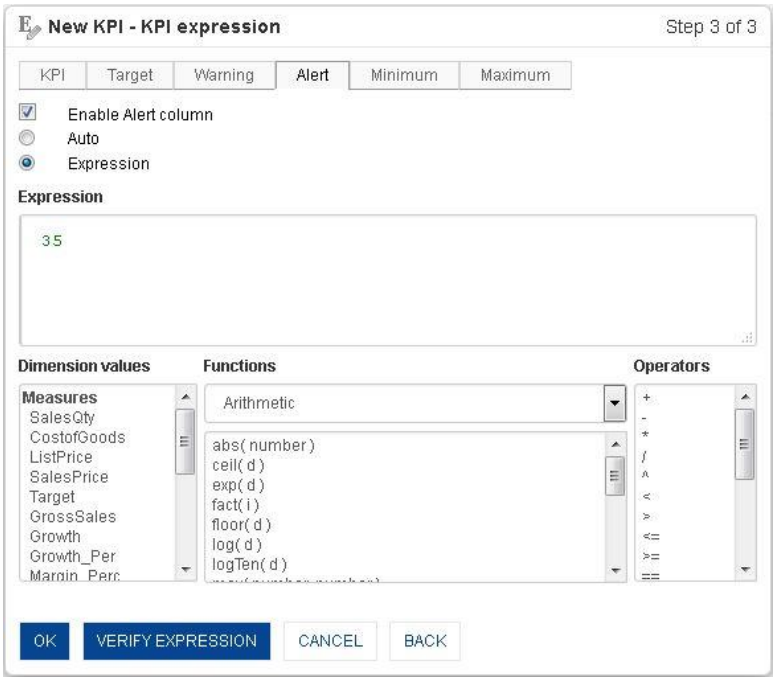


DEFINE WARNING THRESHOLD

7.6.1.6 Defining Alert Threshold

You can define a KPI alert threshold to set the alert boundary. If the actual value is going below the Alert boundary, it will be displayed in the Alert section. If you have chosen the "Automatic Calculation of Alert Threshold" option, then the system will automatically calculate the Actual value. Refer to the table of Auto Calculation of Thresholds Based on Polarity given above.

For example, for Sales Performance, the alert boundary has been kept as 35 so that if the actual performance goes less than 35, it will be plotted in the Alert section.

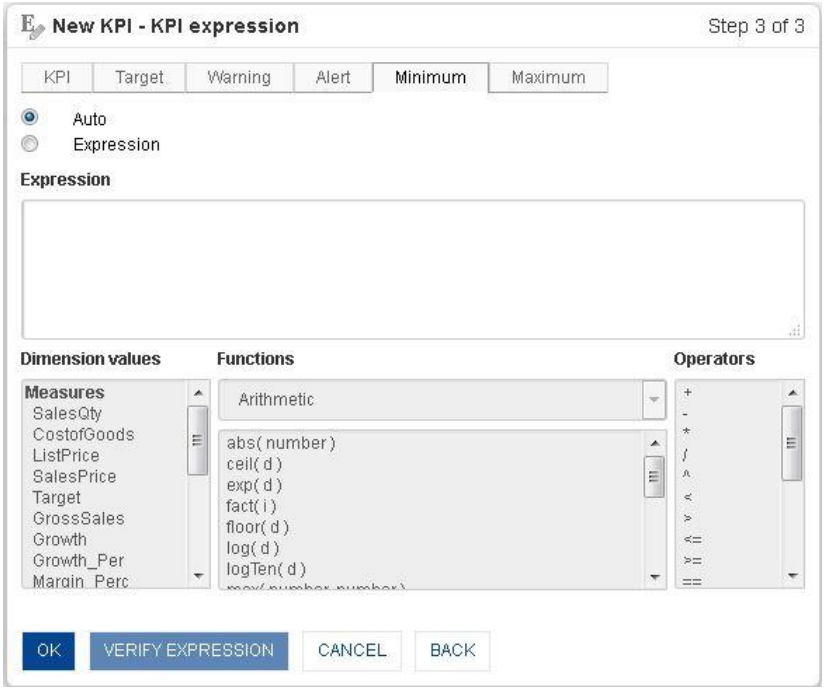


DEFINE ALERT THRESHOLD

7.6.1.7 Defining Minimum Value

You can define the KPI minimum value to set minimum value with which KPI measurement will start. If you have chosen the “Automatic Calculation of Minimum Threshold” option, then the system will automatically calculate the Actual value. Refer to the table of **Auto Calculation of Thresholds Based on Polarity** given above.

For example, for Sales Performance, you may select minimum value based on 70% of the last three years’ average sales.

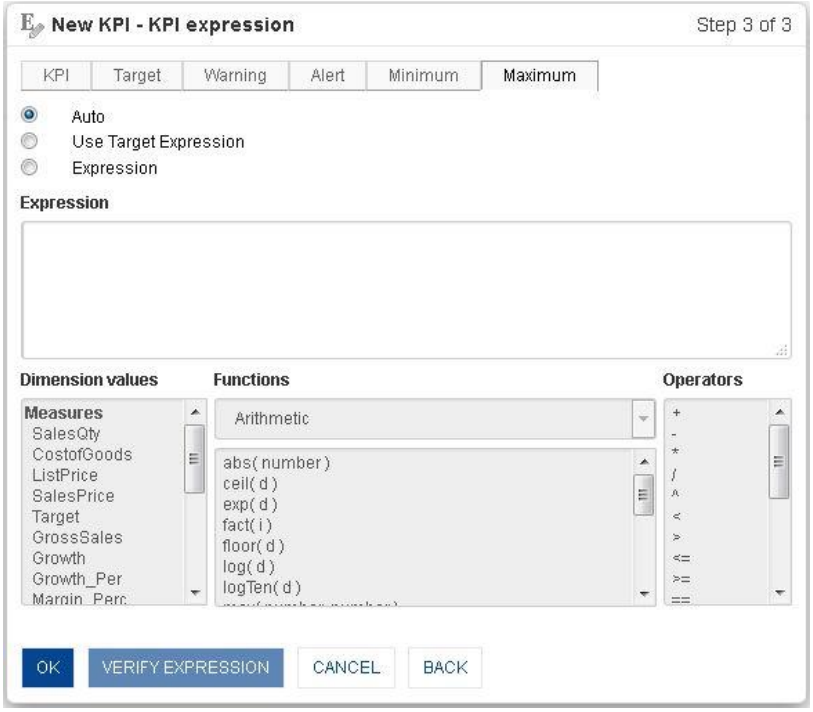


DEFINE MINIMUM VALUE

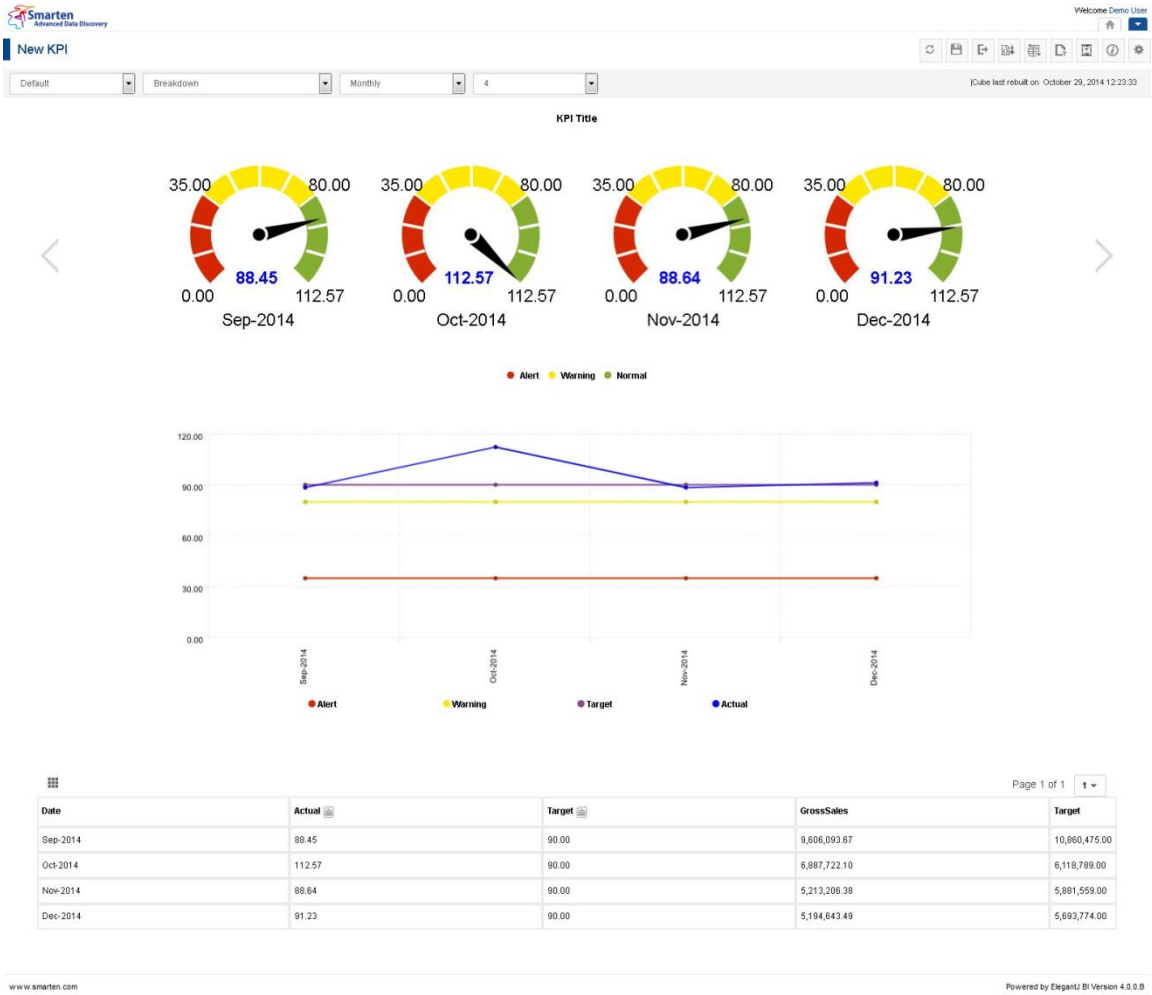
7.6.1.8 Defining Maximum Value

You can define the KPI maximum value to set maximum value to be displayed for a KPI measurement. If you have chosen the “Automatic Calculation of Maximum Threshold” option, then the system will automatically calculate the Actual value. Refer to the table of **Auto Calculation of Thresholds Based on Polarity** given above.

For example, for Sales Performance, you may select maximum value based on 150% of last year’s sales.



DEFINE MAXIMUM VALUE

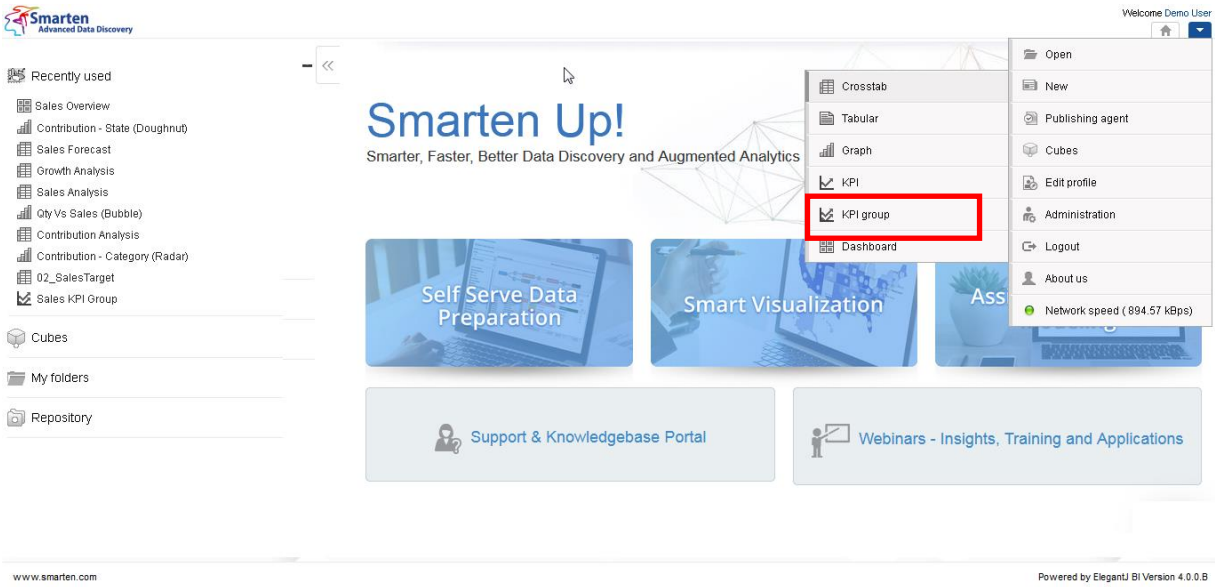


NEW GENERATED KPI

7.6.2 KPI Group

Procedure

1. In the upper right-hand corner, click the **down arrow** icon.
   The system displays the Main Menu.
2. In the Main Menu, mouse over on **New**.
   The system displays the Sub Menu.



DEFINE KPI GROUP

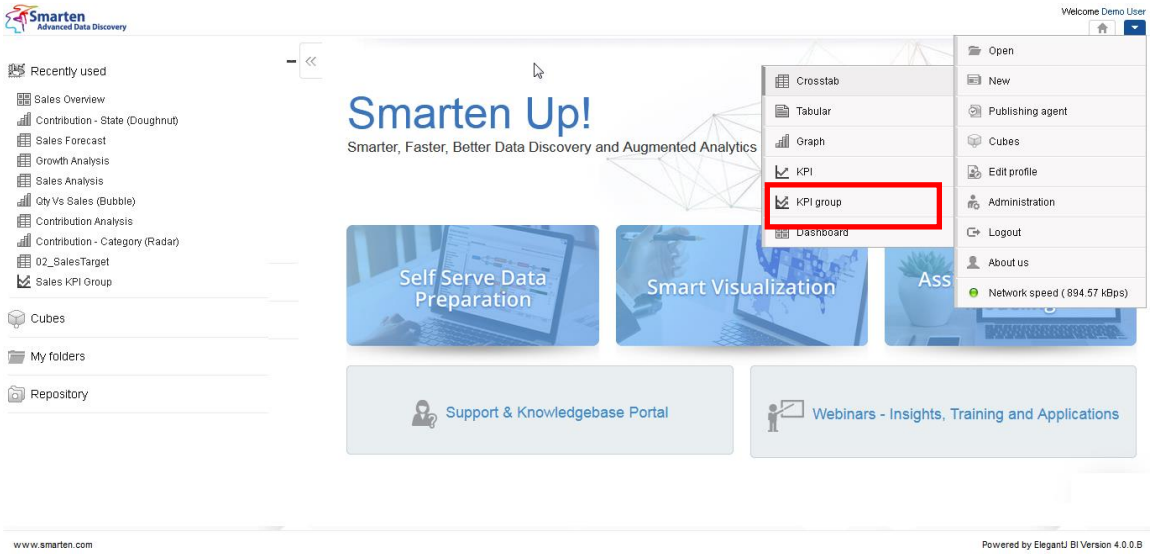
3. Click **KPI group**.

Creating a KPI Group is a wizard-driven simple process.

7.6.2.1 Selecting KPIs

Procedure

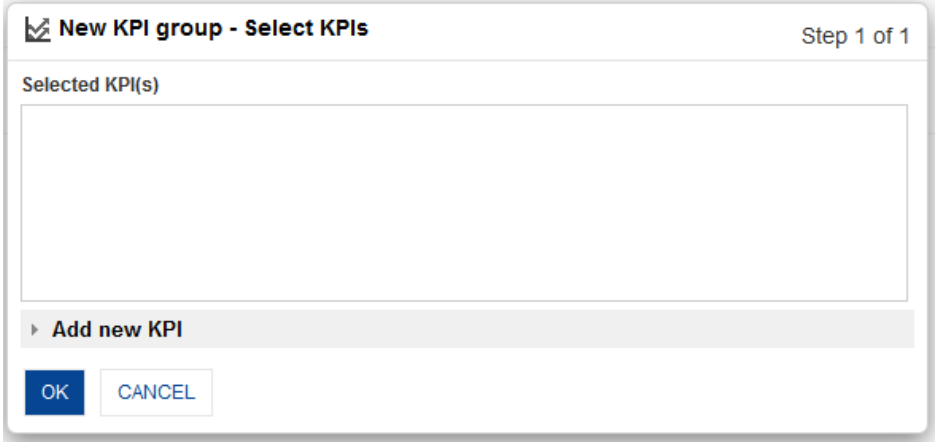
1. Follow the **Procedure** of **KPI Group** given above.



KPI GROUP

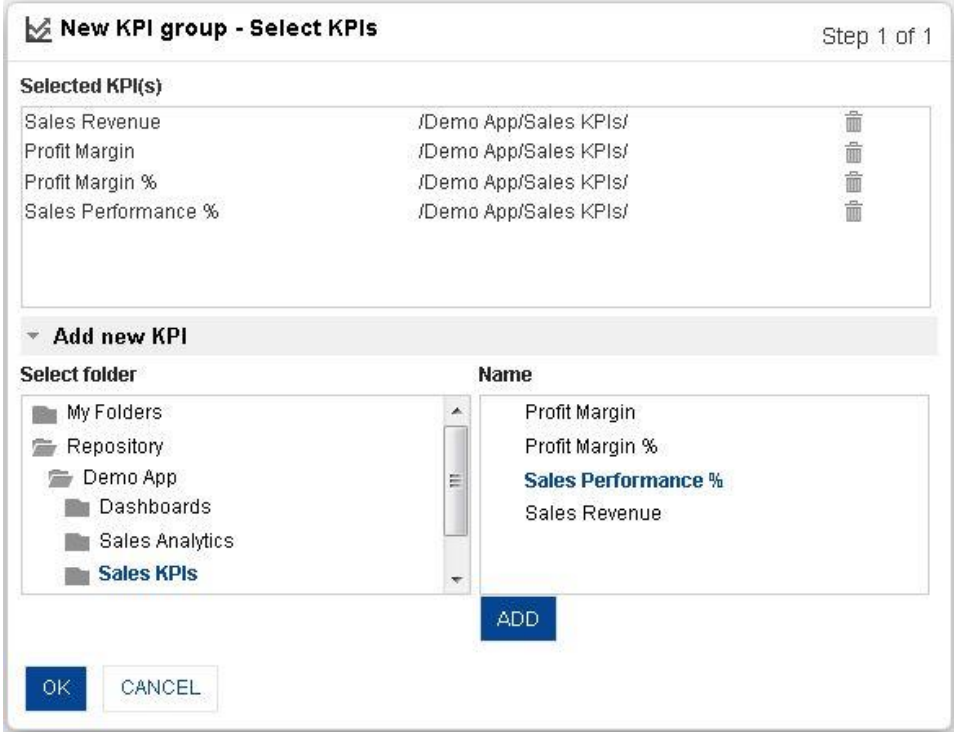
2. Click **KPI group**.

   The system displays the **New KPI group – Select KPIs** dialog box.



SELECT KPIS

3. Click **Add new KPI**.



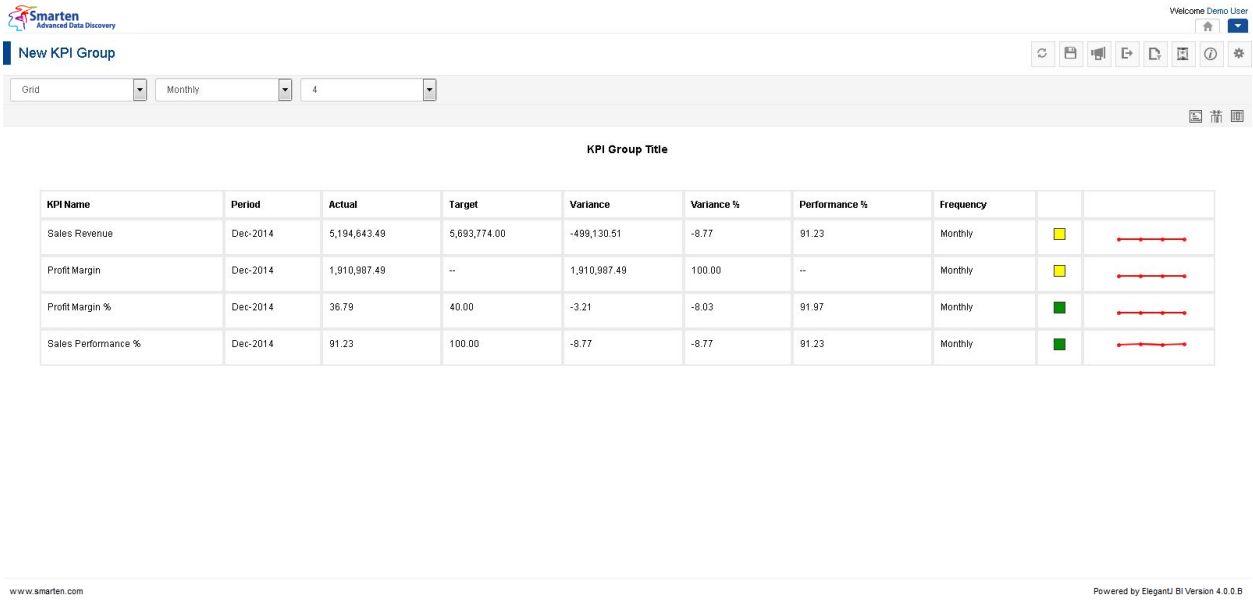
ADD NEW KPIS

4. In the **Select folder** box, choose a folder.
5. In the **Name** box, choose a name.
6. Click **Add.**

   The system displays the chosen KPIs in the **Selected KPI(s)** box.

7. To delete a selected KPI, click the delete button in the **Selected KPI(s)** box.
8. Click **OK.**

   The system displays the newly generated KPI group.



KPI Name	Period	Actual	Target	Variance	Variance %	Performance %	Frequency
Sales Revenue	Dec-2014	5,194,643.49	5,693,774.00	-499,130.51	-8.77	91.23	Monthly
Profit Margin	Dec-2014	1,910,987.49	--	1,910,987.49	100.00	--	Monthly
Profit Margin %	Dec-2014	36.79	40.00	-3.21	-8.03	91.97	Monthly
Sales Performance %	Dec-2014	91.23	100.00	-8.77	-8.77	91.23	Monthly

NEW GENERATED KPI GROUP

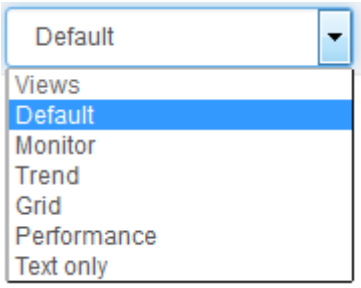
7.7 Actions on KPI

Smarten KPIs allow you to easily manage, organize, filter, and analyse KPI performance using different options.

7.7.1 Change Views

By default, the Default view of KPIs will be displayed. You can at any time switch to other views by using the “Change views” option to have different display views of performance.

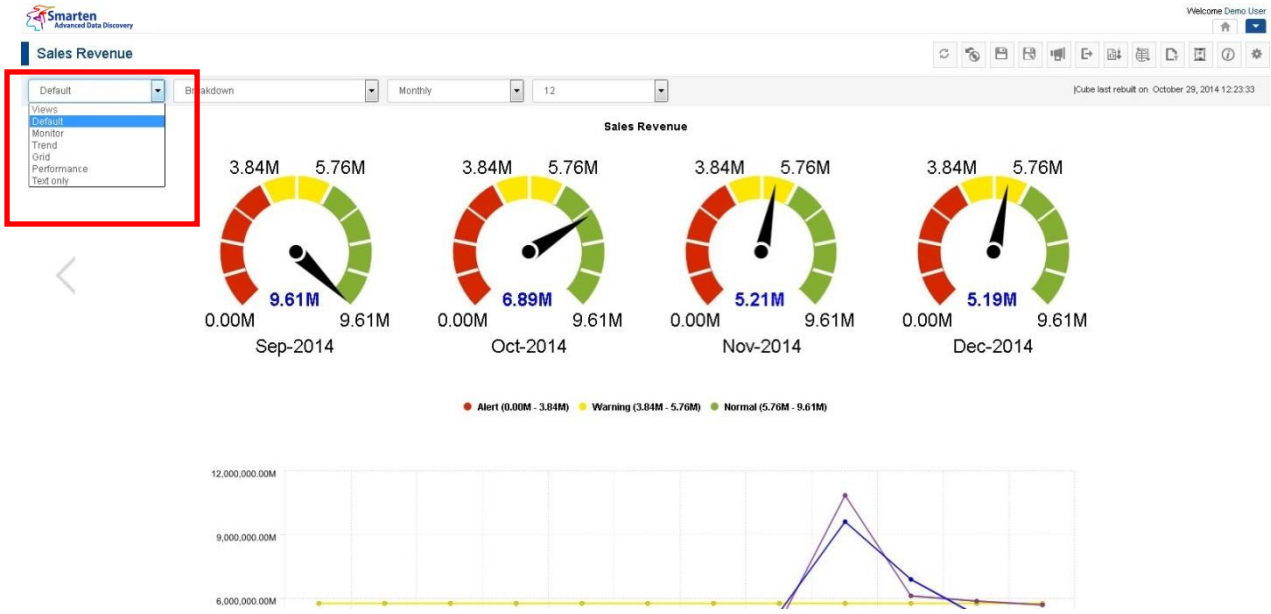
Change views options are available in the KPI action toolbar on top. You can change it by selecting the various options from the drop-down list.



CHANGE VIEWS OPTIONS

Procedure

1. In the **Repository**, open KPI.
   The system displays the selected KPI.
2. In the KPI Action Toolbar, select view.



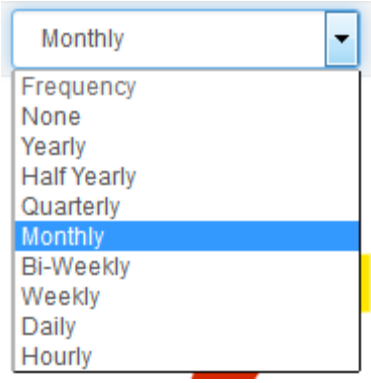
CHANGE VIEWS OPTIONS

Reference:	**User Manual > Working with KPI > KPI Views**

7.7.2 Frequency Selection

KPI frequency is a frequency for KPI performance measurement. Smarten provides options to drill-down on the data behind a KPI parameter by selecting a frequency starting from Yearly on a Macro level to Hourly on a Micro level.

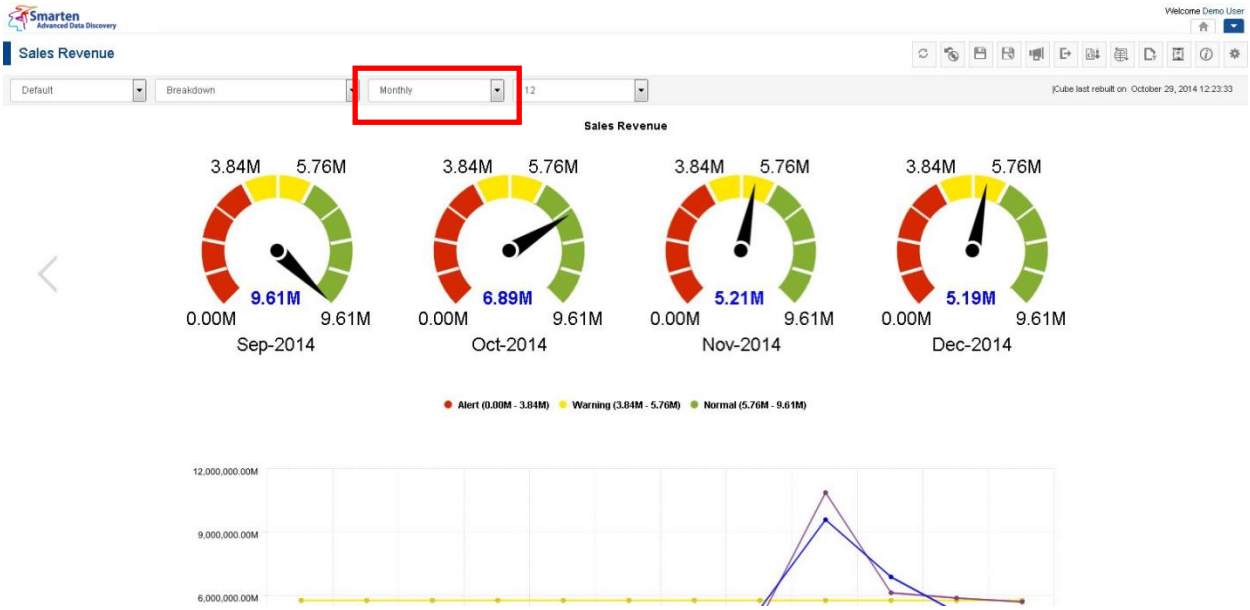
Frequency selection options are available in the KPI action toolbar on top. You can change it by selecting the various options from the drop-down list.



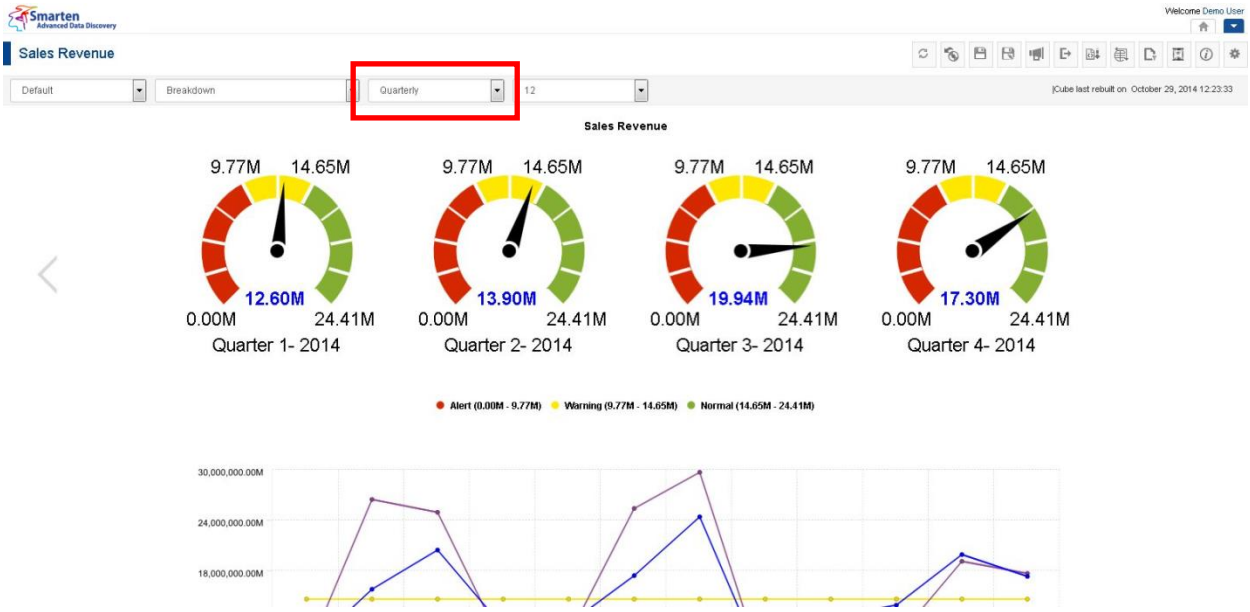
FREQUENCY SELECTION OPIONS

Procedure

1. In the **Repository**, open KPI.
   The system displays the selected KPIs.
2. In the KPI Action Toolbar, select frequency.
   Select None if you want to see total value of KPI expression for all records.



OPTION TO CHOOSE THE FREQUENCY: MONTHLY

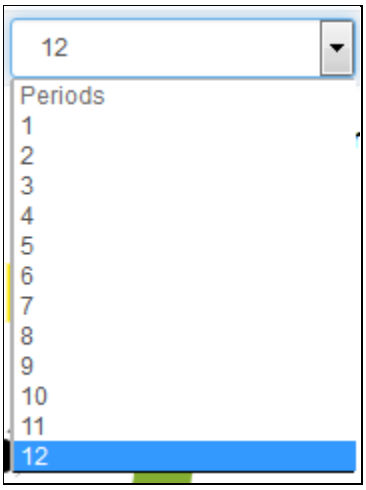


OPTION TO CHOOSE THE FREQUENCY: QUARTERLY

7.7.3 Period Selection

Periods depict the number of periods over which KPI should be generated and measured. You have the option to select periods from 1 to 12.

Period selection options are available in the KPI action toolbar on top. You can change it by selecting the various options from the drop-down list.

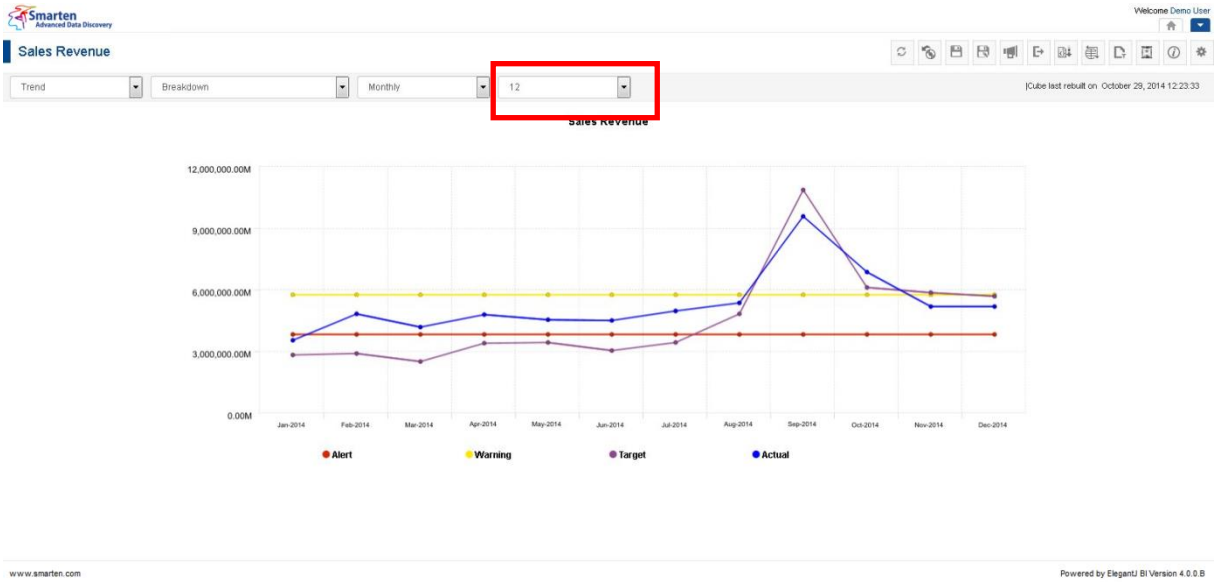


PERIOD SELECTION OPTIONS

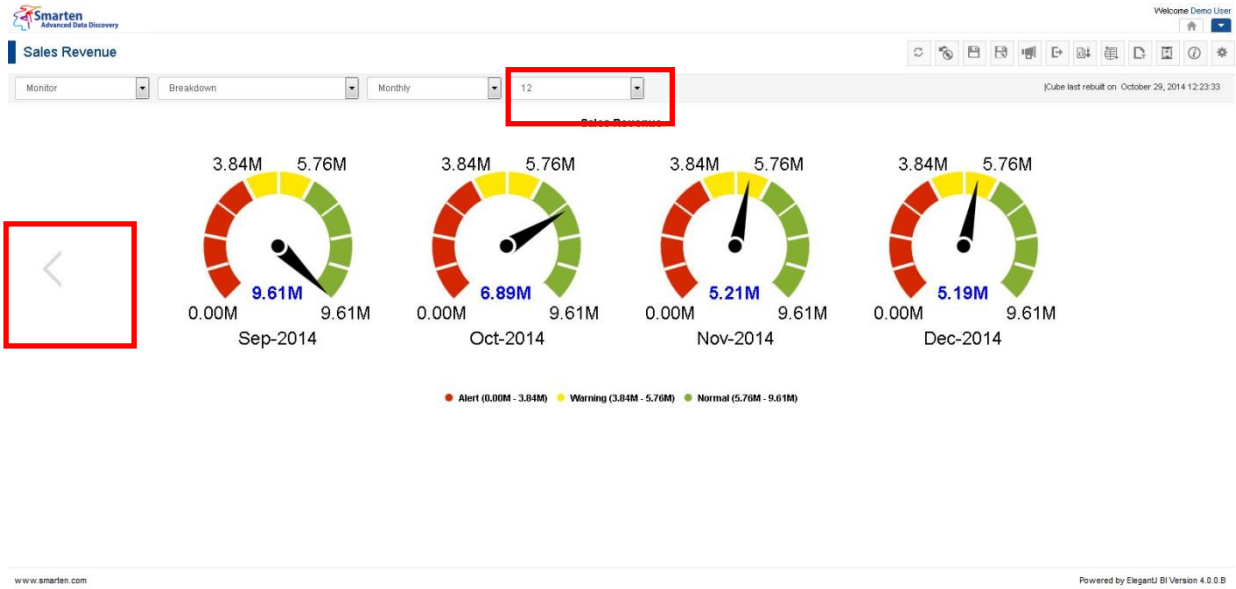
Procedure

1. In the **Repository**, open KPI.
   The system displays the selected KPIs.
2. In the KPI Action Toolbar, select period.

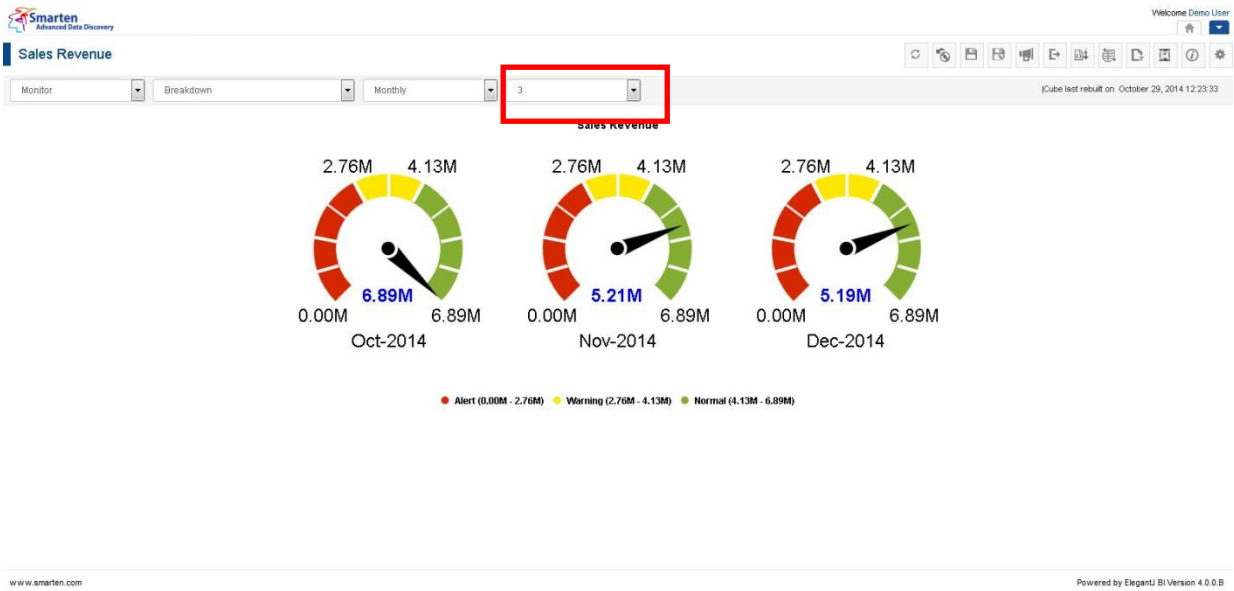
OPTION TO CHOOSE THE PERIOD IN TREND VIEW: PERIOD = 6



OPTION TO CHOOSE THE PERIOD IN TREND VIEW: PERIOD = 12



OPTION TO CHOOSE THE PERIOD IN MONITOR VIEW: PERIOD = 12



OPTION TO CHOOSE THE PERIOD IN MONITOR VIEW: PERIOD = 3

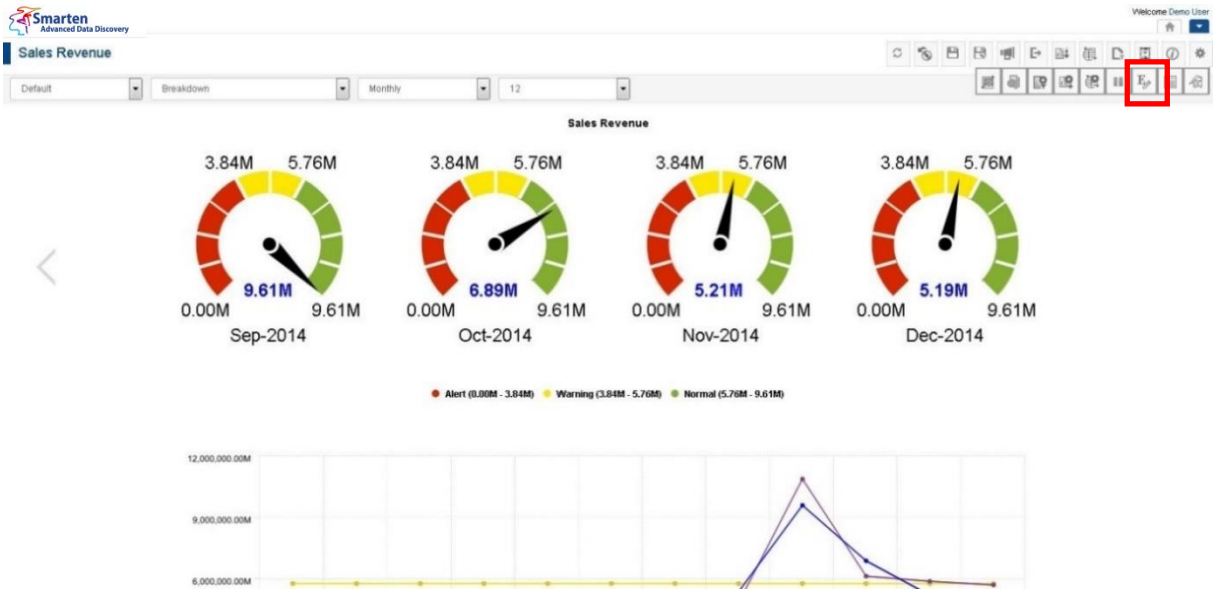
> Note:
> The number periods to be displayed here can be configured from KPI Properties.

7.7.4 Change Expression

After defining the KPIs, you have the flexibility to change the expressions of the KPI, Target, Warning, and Alert values.

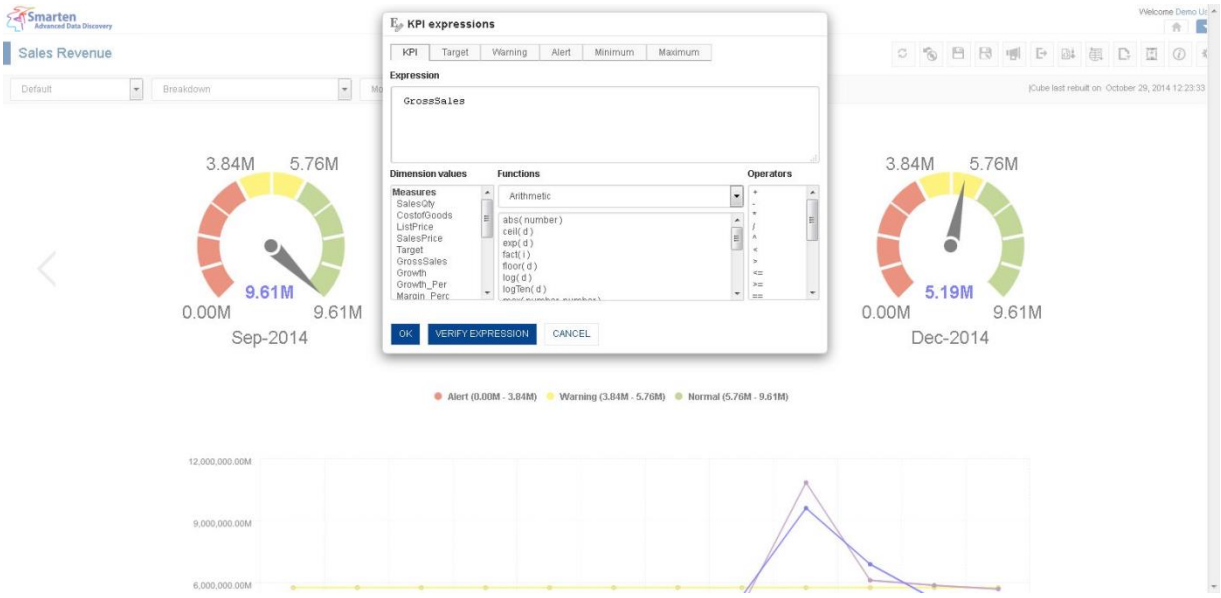
Procedure

1. In the **Repository**, open KPI.
   The system displays the selected KPI.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.



KPI EXPRESSION ICON IN TO CHANGE EXPRESSION

3. Click **KPI expressions**.
   The system displays the **KPI expressions** dialog box.



KPI: DIALOG TO CHANGE EXPRESSION

4. In the **KPI expressions** dialog box, select/enter the values in the tab and fields.
5. Click **OK.**

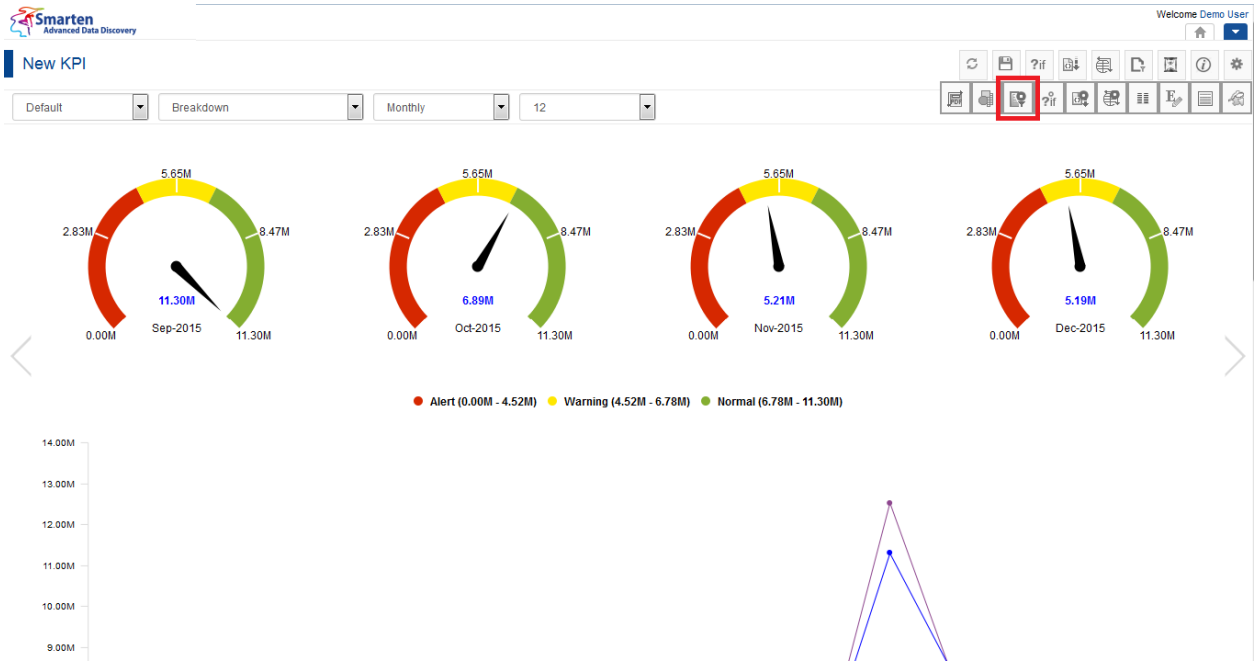
Reference: **User Manual > Working with KPI > Defining KPI Expression**

7.7.5 Page Filter

Using the Page Filter option, you can choose any dimensions as page filters for analysing KPI performance by various filters. Page filter applies to all views of KPIs, such as Default, Monitor, Trend, Performance, Comparison, and Text Only.

Procedure

1. In the **Repository**, open KPI.
   The system displays the selected KPI.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.

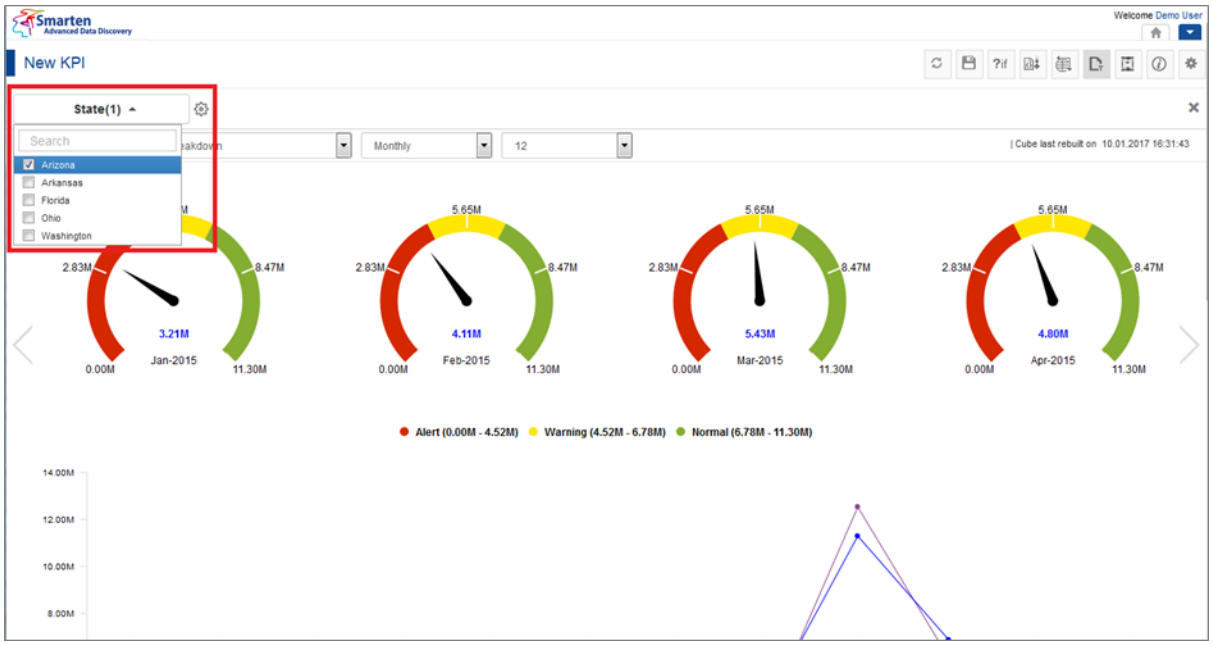


MANAGE PAGE FILTER ICON

3. Click **Manage Page Filter**.
   The system displays the **Manage page filters** dialog box.

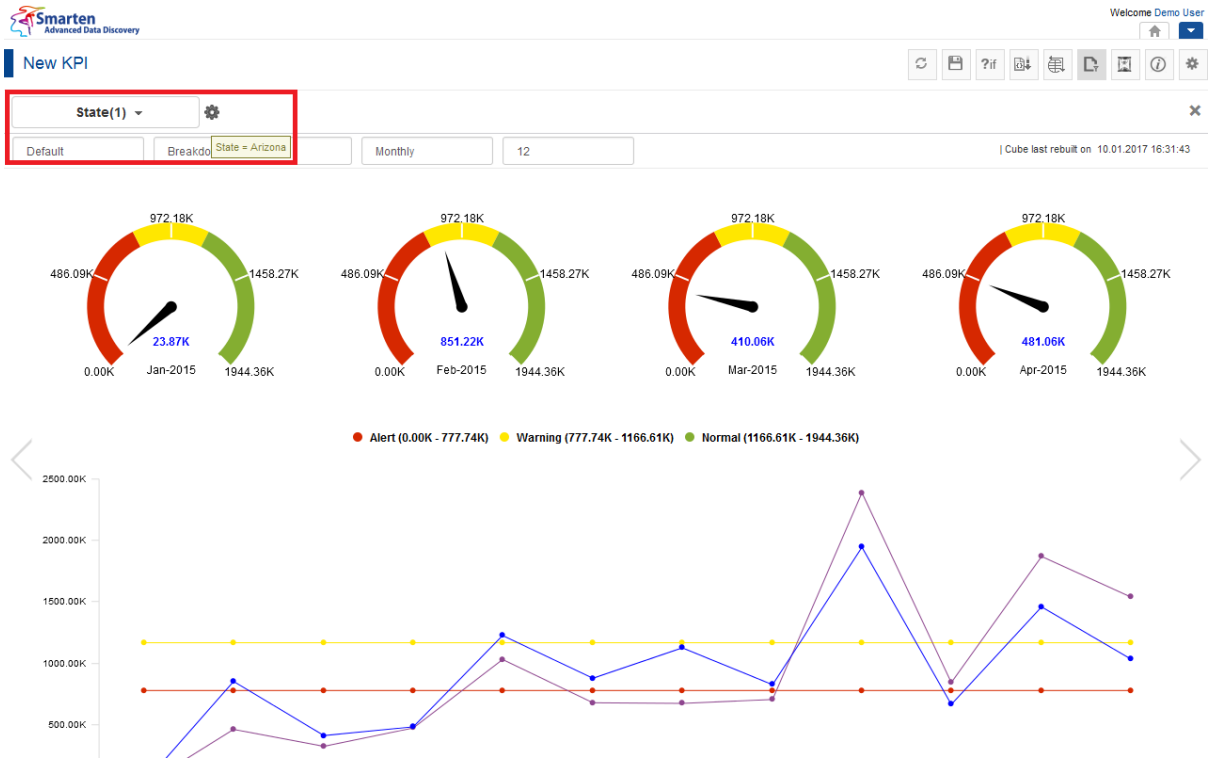
PAGE FILTER: SET PAGE FILTER COLUMN

4. In the **Select Column** field, click to select a value.
5. Click **OK.**
6. In the upper right-hand toolbar, click **Page Filter.**
   The system displays the page filter criteria field above the Action Bar.



PAGE FILTER: SELECTING FILTER CRITERIA

7. In the page filter criteria field, click to select a value.
8. Click **OK.**



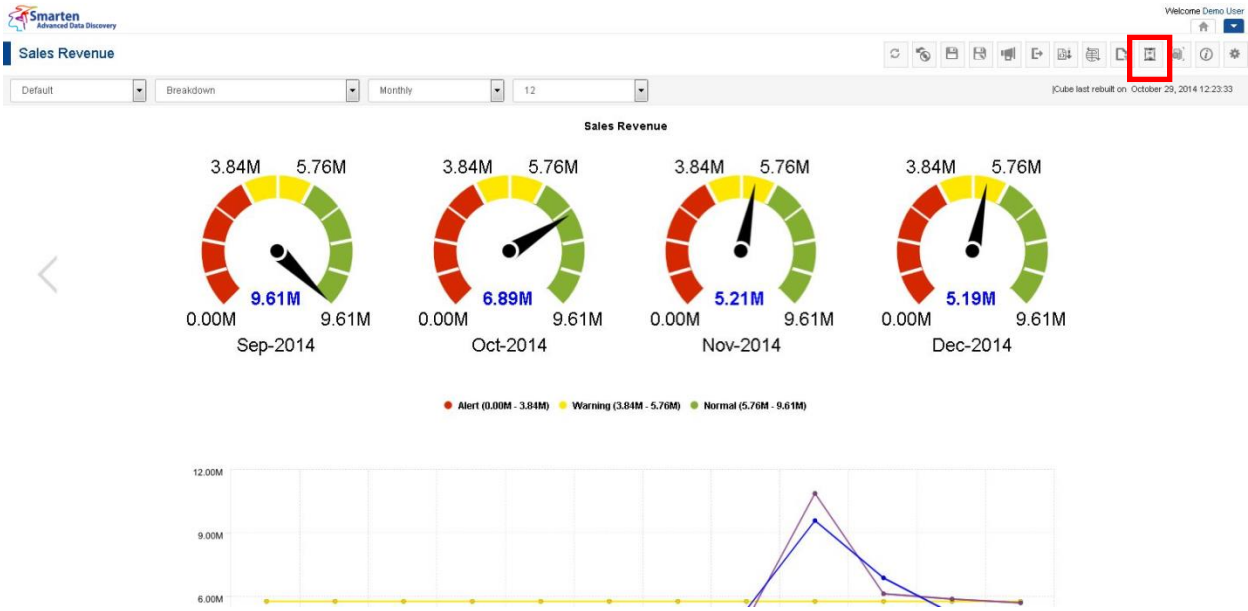
KPI AFTER APPYING THE PAGE FILTER

Reference: **User Manual > Working with Crosstab > Page Dimension Filter**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

7.7.6 Time series

Using the Time series, you can filter KPIs using predefined time series hierarchy, such as Year, Half Year, Quarter, Week, up to Day level.



KPI: TIME SERIES ICON

Procedure

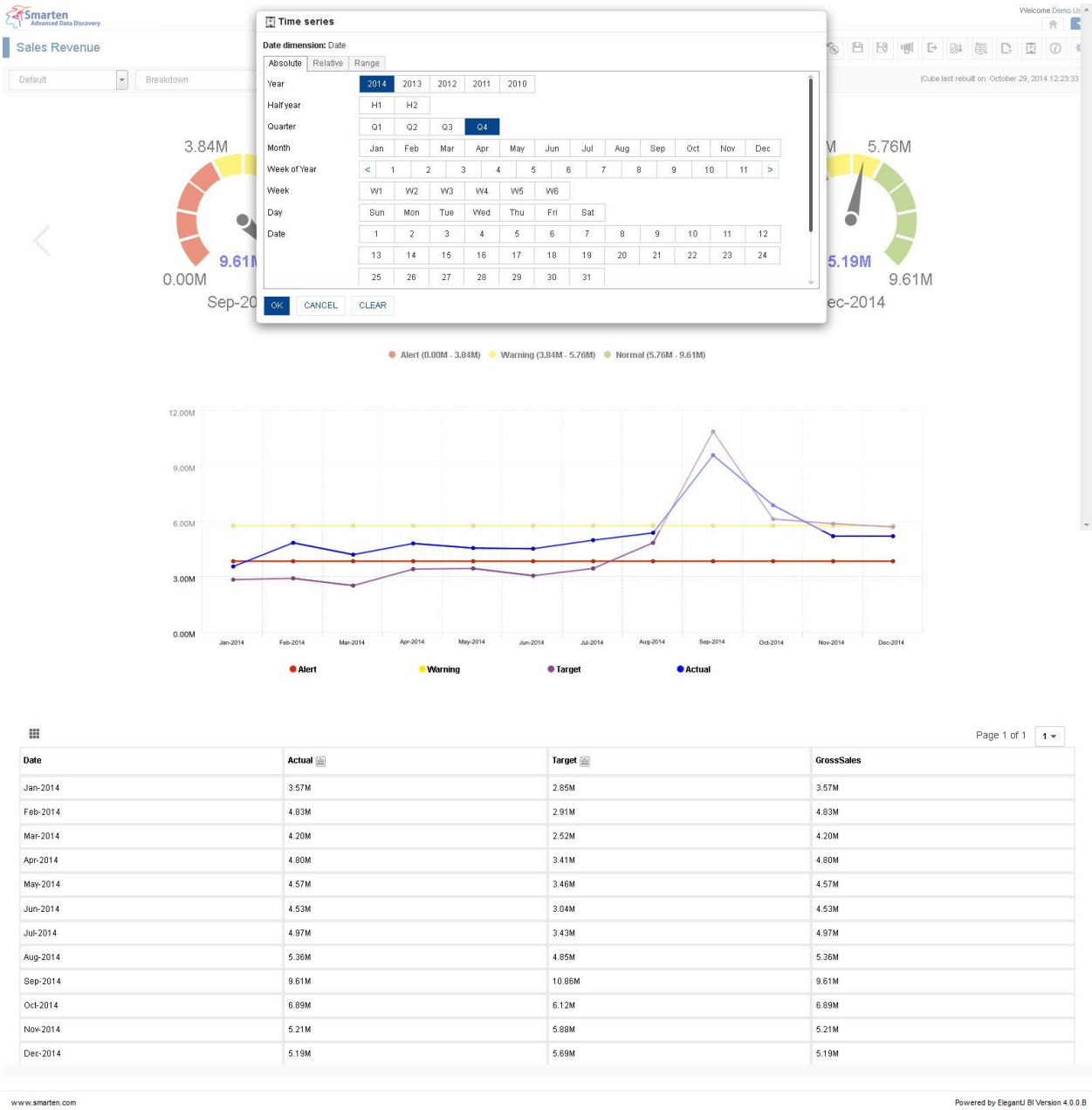
1. In the **Repository**, open KPI.
   The system displays the selected KPI.
2. In the KPI Toolbar, click **Time series.**
   The system displays the **Time series** dialog box.

TIME SERIES FILTER

7.7.6.1 Absolute Time Series Filter

Procedure

1. Follow the **Procedure** of **Time Series**.
2. In the **Time series** dialog box, click **Absolute** tab.
3. In the **Absolute** tab, select values in the fields.
4. Click **OK**.

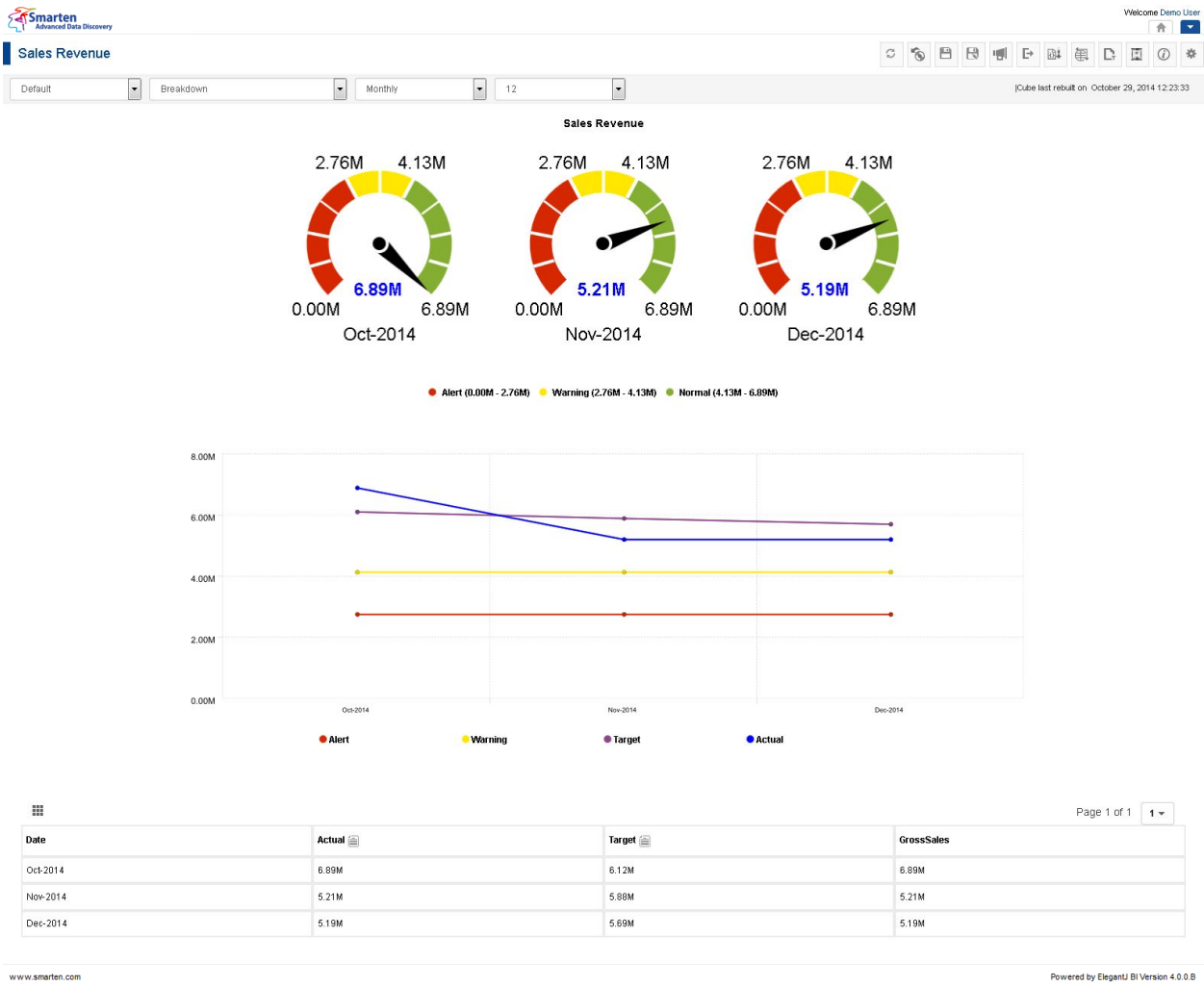


Date	Actual	Target	GrossSales
Jan-2014	3.57M	2.85M	3.57M
Feb-2014	4.83M	2.91M	4.83M
Mar-2014	4.20M	2.52M	4.20M
Apr-2014	4.80M	3.41M	4.80M
May-2014	4.57M	3.46M	4.57M
Jun-2014	4.53M	3.04M	4.53M
Jul-2014	4.97M	3.43M	4.97M
Aug-2014	5.36M	4.85M	5.36M
Sep-2014	9.61M	10.86M	9.61M
Oct-2014	6.89M	6.12M	6.89M
Nov-2014	5.21M	5.88M	5.21M
Dec-2014	5.19M	5.69M	5.19M

KPI: TIME SERIES: ABSOLUTE FILTER

Field	Description
Date dimension	Date dimension selected for Time Dimension in KPI
Filter Type	Absolute Filters value at a particular period
	Year
	Half year
	Quarter
	Month
	Week or Year
	Week
	Day
	Date
	Day of Year

ABSOLUTE TIME SERIES SETTINGS



KPI: AFTER APPLYING ABSOLUTE TIME SERIES FILTER

Example 1: Full Data for years 2013, 2014

	On 30 November 2014
Selected Fields	Result
Year: 2013, 2014	Data for 2013
	Data for 2014

Example 2: 1st Half Year for 2014

	On 30 November 2014
Selected Fields	Result

Year: 2014 Half Year: H1	Data for Jan 2014
	Data for Feb 2014
	Data for Mar 2014
	Data for Apr 2014
	Data for May 2014
	Data for Jun 2014

Example 3: 3rd week of month for year 2014

	On 30 November 2014
Selected Fields	Result
Year: 2014 Week: W3	Data for 3rd week of every month for 2014

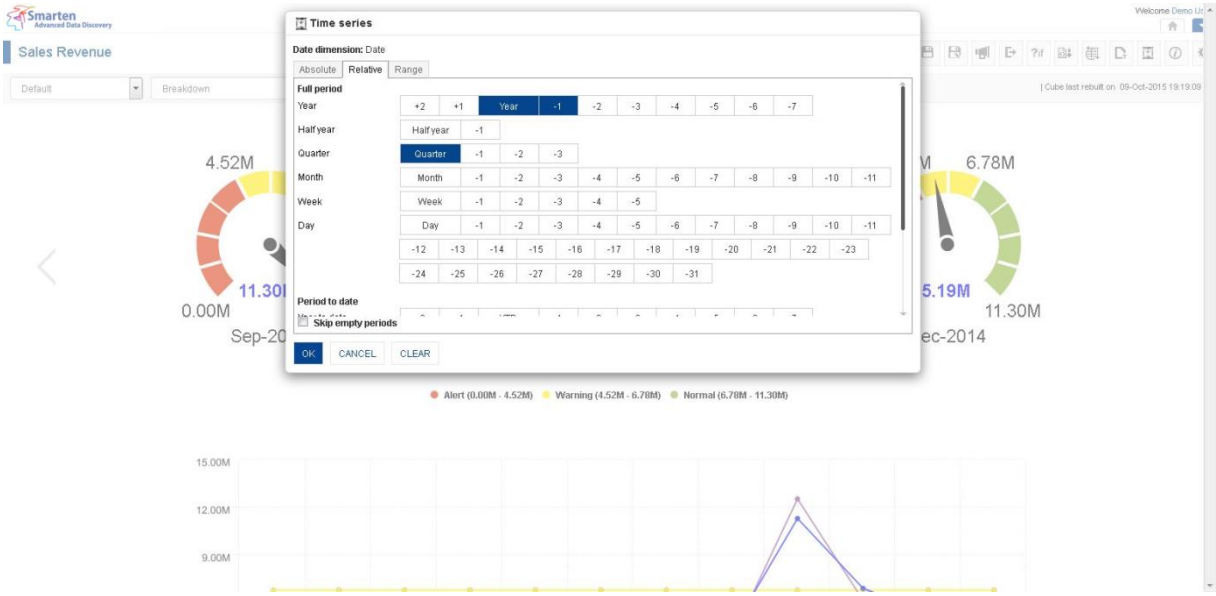
Example 4: Thursday in month June for 2014

	On 30 November 2014
Selected Fields	Result
Year: 2014 Month: Jun Day: Thu	Data for 5 June 2014
	Data for 12 June 2014
	Data for 19 June 2014
	Data for 26 June 2014

7.7.6.2 Relative Time Series Filter (Full Period)

Procedure

1. Follow the **Procedure** of **Time Series**.
2. In the **Time series** dialog box, click **Relative** tab.
3. In the **Relative** tab, select values in the **Full Period** section.
4. Click **OK**.

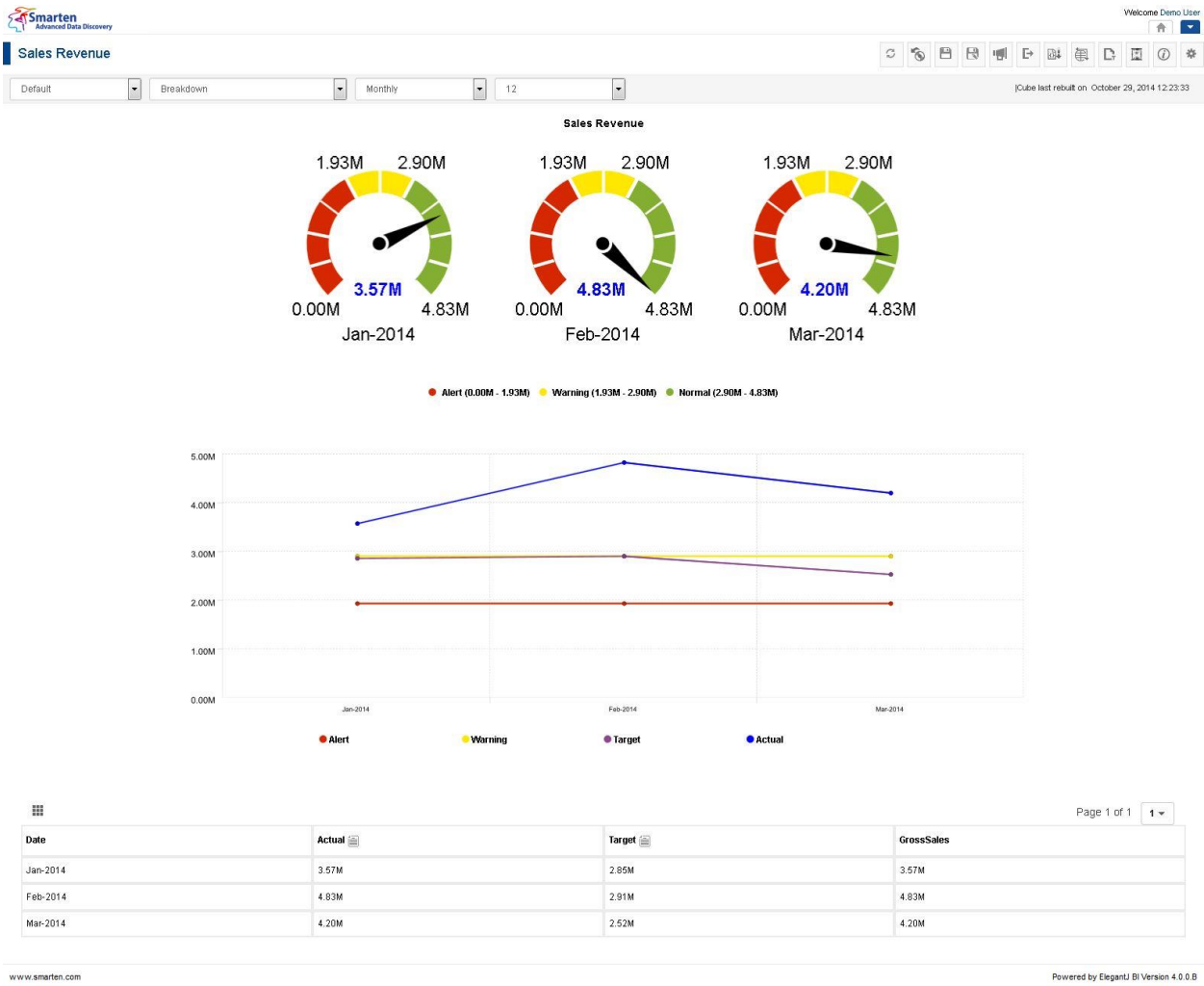


KPI: TIME SERIES: RELATIVE FILTERING

Field	Description
Date dimension	Date selected for Time Dimension in KPI
Filter Type	Relative (Full Period) Filter the value at a particular period relative to current date
	Year

	Half year
	Quarter
	Month
	Week or Year
	Week
	Day
	Date
	Day of Year

RELATIVE (FULL PERIOD) TIME SERIES SETTINGS



KPI AFTER APPLYING RELATIVE TIME SERIES FILTER USING FULL PERIOD

Examples (without skip empty periods):

Example 1: Full Data for current year and previous year

Selected Fields	Result on 31 July 2013	Result on 15 July 2012
Year: Year, Year -1	Data for 2013	Data for 2012
	Data for 2012	Data for 2011

Example 2: This week and previous week of current month for current year

Selected Fields	Result on 31 July 2013	Result on 15 July 2013
Year: Year, Month: Month Week: Week, Week -1	Data for 5th week of July 2013	Data for 3rd week of July 2013
	Data for 4th week of July 2013	Data for 2nd week of July 2013

Example 3: This week of current month of this year and previous year

Selected Fields	Result on 31 July 2013	Result on 15 July 2013
Year: Year, Year -1 Month: Month Week: Week	Data for 5th week of July 2012	Data for 3rd week of July 2012
	Data for 5th week of July 2013	Data for 3rd week of July 2013

Example 4: Today and yesterday of current month of this year

Selected Fields	Result on 31 July 2013	Result on 15 July 2013
Day: Day, Day -1	Data for 31 July 2013 Data for 30 July 2013	Data for 15 July 2013 Data for 14 July 2013

Example 5: current half year for current year

Selected Fields	Result on 31 July 2014	Result on 15 April 2014
Year: Year Half Year: Half Year	Data for July 2014	Data for Jan 2014 Data for Feb 2014 Data for Mar 2014 Data for April 2014

Example 6: current half year for current year and previous year

Selected Fields	Result on 31 July 2014	Result on 15 April 2014
Year: Year, Year -1 Half Year: Half Year	Data for July 2013 Data for July 2014	Data for Jan 2013 Data for Feb 2013 Data for Mar 2013 Data for April 2013 Data for Jan 2014 Data for Feb 2014 Data for Mar 2014 Data for April 2014

Example 7: previous half year for current year

Selected Fields	Result on 31 July 2014	Result on 15 June 2014
Year: Year Half Year: Half Year -1	Data from Jan 2014 to Jun 2014	Data from July 2013 to Dec 2013

Example 8: current month and previous month for current year

Selected Fields	Result on 31 July 2014	Result on 15 July 2013
Year: Year, Month: Month, Month -1	Data for June 2014 Data for July 2014	Data for June 2013 Data for July 2013

Example 9: current month for current year and previous year

Selected Fields	Result on 31 July 2014	Result on 15 July 2013
Year: Year, Year -1 Month: Month	Data for July 2013 Data for July 2014	Data for July 2012 Data for July 2013

Example 10: current quarter and previous quarter for current year

Selected Fields	Result on 31 July 2014	Result on 15 July 2013
Year: Year Quarter: Quarter, Quarter -1	Data for April 2014 Data for May 2014 Data for June 2014 Data for July 2014	Data for April 2013 Data for May 2013 Data for June 2013 Data for July 2013

Example 11: current quarter for current year and previous year

Selected Fields	Result on 31 July 2014	Result on 15 July 2013
Year: Year, Year -1 Month: Quarter	Data for July 2013 Data for July 2014	Data for July 2012 Data for July 2013

Example 12: 20th week for current year and previous year

Selected Fields	Result on 31 July 2014	Result on 15 July 2013
Year: Year, Year -1 Week (Year): 20	Data for 3rd Week of May 2014 Data for 3rd Week of May 2013	Data for 3rd Week of May 2012 Data for 3rd Week of May 2013

Examples (with skip empty periods):

Example 1: Full Data for current year and previous year (When data for previous year is not present)

Selected Fields	Result on 31 July 2013	Result on 15 July 2012
Year: Year, Year -1	Data for 2013	Data for 2012
	Data for 2011	Data for 2010

Example 2: This month and previous month for current year (When data for previous month is not present)

Selected Fields	Result on 31 July 2013	Result on 15 July 2013
Year: Year Month: Month, Month -1	Data for July 2013	Data for July 2013
	Data for May 2013	Data for May 2013

Example 3: This week and previous week of current month for current year (When data for previous week is not present)

Selected Fields	Result on 31 July 2013	Result on 15 July 2013
Year: Year Month: Month Week: Week, Week -1	Data for 5th week of July 2013	Data for 3rd week of July 2013
	Data for 3th week of July 2013	Data for 1nd week of July 2013

Example 4: Today and yesterday (When data for yesterday is not available)

Selected Fields	Result on 31 July 2013	Result on 15 July 2013
Day: Day, Day -1	Data for 31 July 2013 Data for 29 July 2013	Data for 15 July 2013 Data for 13 July 2013

Examples (without Skip to previous higher level period):

Example 1: Data for current Quarter and previous Quarter (when current Quarter is Quarter 1)

Selected Fields	Result on 15 Mar 2015
Year: Year Quarter: Quarter,Quarter-1	Data for Quarter 1 of 2015

Example 2: Data for current Month and previous Month (when current Month is January)

Selected Fields	Result on 31 Jan 2015
Year: Year Month: Month, Month-1	Data for Jan 2015

Example 3: Data for Week and previous Week of current Month for current Year (when Current week is 1st Week)

Selected Fields	Result on 6 Mar 2015
Year: Year Month: Month Week: Week, Week -1	Data for 1st week of Mar 2015

Examples (with Skip to previous higher level period):

Example 1: Data for current Quarter and previous Quarter (when current Quarter is Quarter 1)

Selected Fields	Result on 15 Mar 2015
Year: Year Quarter: Quarter,Quarter-1	Data for Quarter 1 of 2015 Data for Quarter 4 of 2014

Example 2: Data for current Month and previous Month (when current Month is January)

Selected Fields	Result on 31 Jan 2015
Year: Year Month: Month, Month-1	Data for Jan 2015 Data for Dec 2014

Example 3: Data for Week and previous Week of current Month for current Year (when Current week is 1st Week)

Selected Fields	Result on 6 Mar 2015
Year: Year Month: Month Week: Week, Week -1	Data for 1st week of Mar 2015 Data for 4th week of Feb 2015

Reference: **Concept Manual > Filters and Expressions > Time Series**

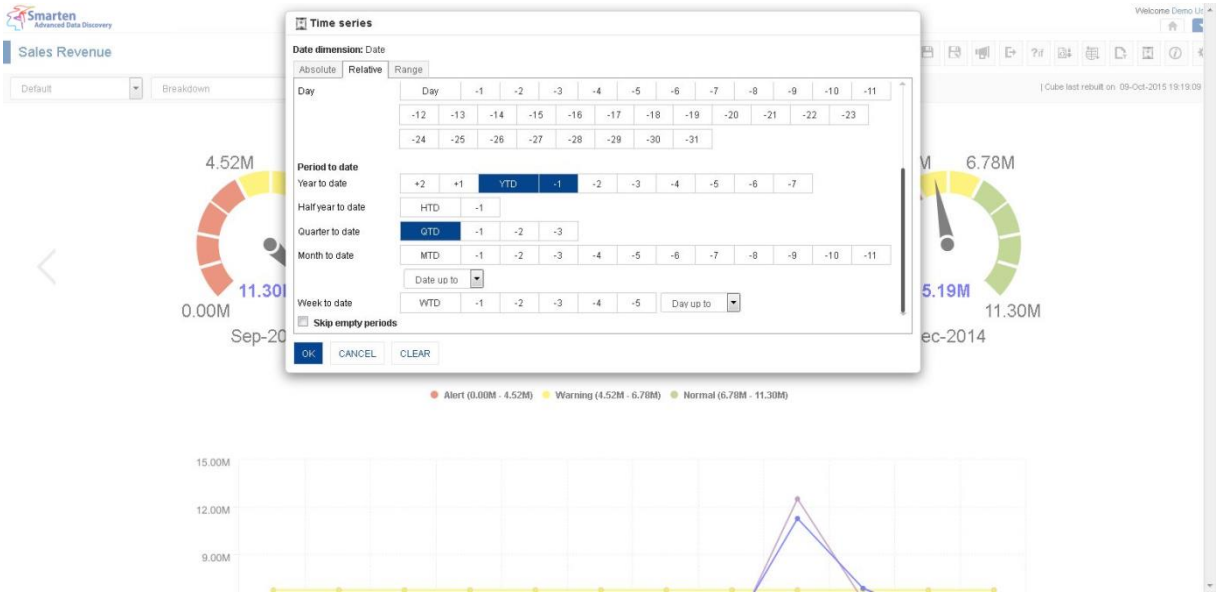
Reference: **User Manual > Working with Crosstab > Time Series > Relative Time Series Filter (Full Period)**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

7.7.6.3 Relative Time Series Filter (Period to Date)

Procedure

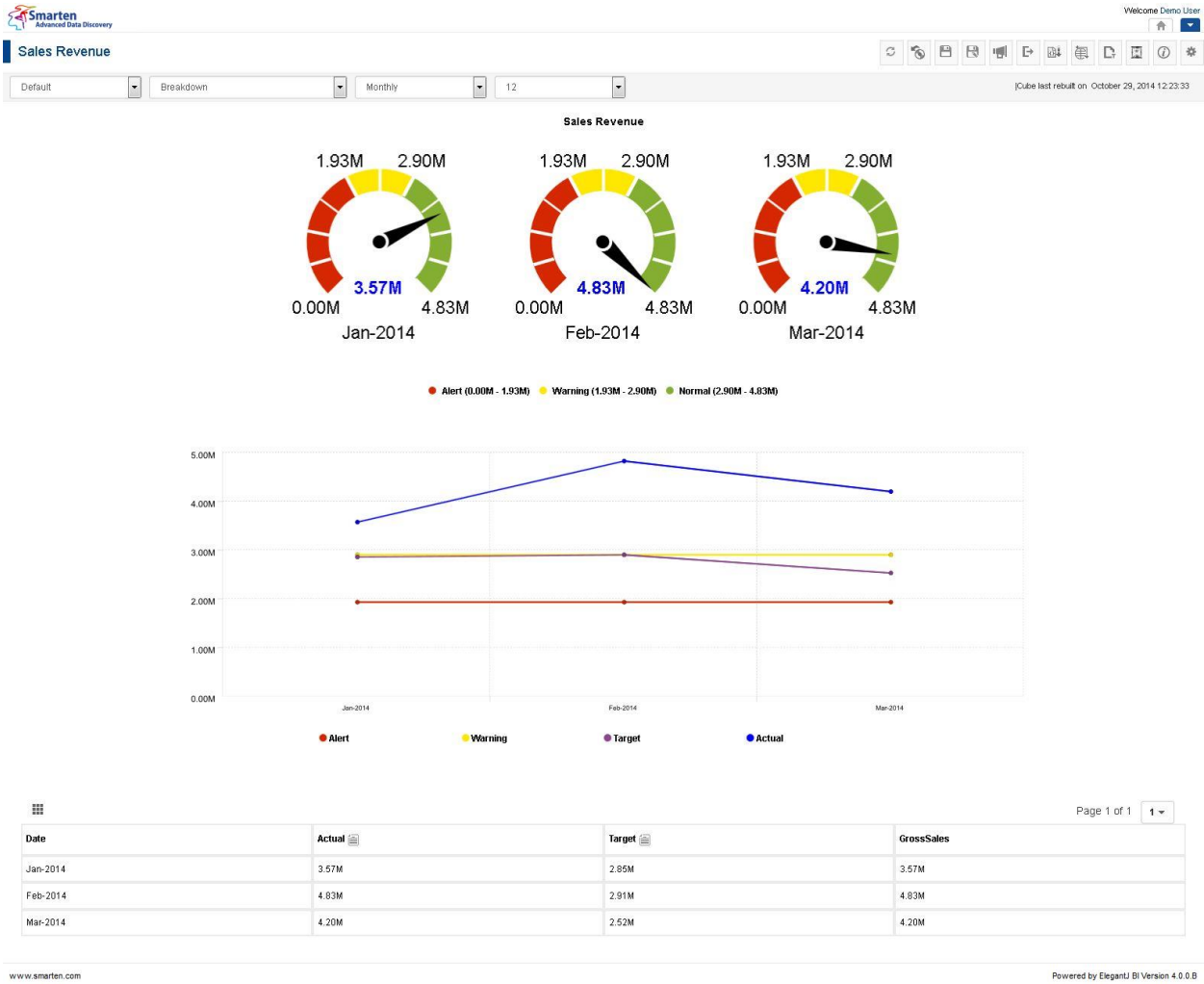
1. Follow the **Procedure** of **Time Series**.
2. In the **Time series** dialog box, click **Relative** tab.
3. In the **Relative** tab, select values in the **Period to date** section.
4. Click **OK**.



KPI: TIME SERIES: RELATIVE FILTERING: PERIOD TO DATE

Field	Description
Date dimension	Date select as Time Dimension for KPI
Filter Type	Relative (Period To Date) Filter the value at a particular period relative to current date
	Year to date
	Half year to date
	Quarter to date
	Month to date
	Week to date

RELATIVE (PERIOD TO DATE) TIME SERIES SETTINGS



KIPI AFTER APPLYING RELATIVE TIME SERIES FILTER USING PERIOD TO DATE

Examples (without skip empty periods):

Example 1: Year to date data for current year and previous year

Selected Fields	Result on 31 July 2014	Result on 15 July 2014
YTD: YTD, YTD -1	Data for 1 Jan to 31 July 2013 Data for 1 Jan to 31 July 2014	Data for 1 Jan to 15 July 2013 Data for 1 Jan to 15 July 2014

Example 2: Half year to date data for current half year and current year

Selected Fields	Result on 31 July 2014	Result on 15 April 2014
YTD: YTD HTD: HTD	Data for 1 July 2014 to 31 July 2014	Data for 1 Jan 2014 to 15 April 2014

Example 3: Quarter to date data for previous quarter and current year

Selected Fields	Result on 31 July 2014	Result on 15 July 2014
YTD: YTD QTD: QTD -1	Data for 1 Apr 2014 to 30 Apr 2014	Data for 1 Apr 2014 to 15 Apr 2014
YTD: YTD QTD: QTD -1 MTD date up to 20th	Data for 1 Apr 2014 to 20 Apr 2014	Data for 1 Apr 2014 to 20 Apr 2014

Example 4: Month to date data for current quarter and current year

Selected Fields	Result on 31 July 2014	Result on 15 July 2014
YTD: YTD QTD: QTD Month: MTD MTD date up to Current Date	Data for 1 July to 31 July 2014	Data for 1 July to 15 July 2014
MTD date up to 20th	Data for 1 July to 20 July 2014	Data for 1 July to 20 July 2014

Example 5: Month to date data for current year and previous year

Selected Fields	Result on 31 July 2014	Result on 15 July 2014
YTD: YTD, YTD -1 QTD: QTD MTD: MTD MTD date up to Current Date	Data for 1 July to 31 July 2013 Data for 1 July to 31 July2014	Data for 1 July to 15 July 2013 Data for 1 July to 15 July 2014
MTD date up to 20 July	Data for 1 July to 20 July 2013 Data for 1 July to 20 July 2014	Data for 1 July to 20 July 2013 Data for 1 July to 15 July 2014

Example 6: Month to date data for current month and previous month for current year

Selected Fields	Result on 31 July 2014	Result on 15 July 2013
YTD: YTD MTD: MTD, MTD -1 MTD date up to Current Date	Data for 1 June to 30 June 2014 Data for 1 July to 31 July 2014	Data for 1 June to 15 June 2013 Data for 1 July to 15 July 2013
MTD date up to 20 July	Data for 1 June to 20 June 2014 Data for 1 July to 20 July 2014	Data for 1 June to 20 June 2013 Data for 1 July to 15 July 2014

Example 7: Quarter to date data for previous quarter and current quarter of current year

Selected Fields	Result on 31 March 2014	Result on 31 March 2013
YTD: YTD QTD: QTD, QTD -1	Data for 1st Qtr 2014 Data for 4th Qtr 2013	Data for 1st Qtr 2013 Data for 4th Qtr 2012

Examples (with skip empty periods):

Example 1: Year to date data for current year and previous year (When data for previous year is not present)

Selected Fields	Result on 31 July 2014	Result on 15 July 2014
YTD: YTD, YTD -1	Data for 1 Jan to 31 July 2014 Data for 1 Jan to 31 July 2013	Data for 1 Jan to 15 July 2014 Data for 1 Jan to 15 July 2013

Example 2: Quarter to date data for current quarter and previous quarter for current year (When data for previous quarter is not present)

Selected Fields	Result on 31 July 2014	Result on 15 April 2014
YTD: YTD QTD: QTD, QTD -1	Data for 1 July 2014 to 31 July 2014 Data for 1 January 2014 to 31 January 2014	Data for 1 April 2014 to 15 April 2014 Data for 1 October 2013 to 15 October 2013

Example 3: Month to date data for current month and previous month of current year (When data for previous month is not present)

Selected Fields	Result on 31 July 2014	Result on 15 July 2014
YTD: YTD Month: MTD, MTD-1	Data for 1 July to 31 July 2014 Data for 1 May to 31 May 2014	Data for 1 July to 15 July 2014 Data for 1 May to 15 May 2014

Examples (without Skip to previous higher level period):

Example 1: Quarter to date Data for current Quarter and previous Quarter (when current Quarter is Quarter 1)

Selected Fields	Result on 15 Mar 2015
Year: YTD Quarter: QTD,QTD-1	Data for 1 January 2015 to 15 March 2015

Example 2: Month to date Data for current Month and previous Month (when current Month is January)

Selected Fields	Result on 15 Jan 2015
Year: YTD Month: MTD, MTD-1	Data for 1 January 2015 to 15 January 2015

Example 3: Week to date Data for Week and previous Week of current Month for current Year (when Current week is 1st Week)

Selected Fields	Result on 6 Mar 2015
Year: YTD Month: MTD Week: WTD, WTD -1	Data for 1st March to 6th March 2015

Examples (with Skip to previous higher level period):

Example 1: Quarter to date Data for current Quarter and previous Quarter (when current Quarter is Quarter 1)

Selected Fields	Result on 15 Mar 2015
Year: YTD Quarter: QTD,QTD-1	Data for 1 January 2015 to 15 March 2015 Data for 1 October 2014 to 15 December 2014

Example 2: Month to date Data for current Month and previous Month (when current Month is January)

Selected Fields	Result on 15 Jan 2015
Year: YTD Month: MTD, MTD-1	Data for 1 January 2015 to 15 January 2015 Data for 1 December 2014 to 15 December 2014

Example 3: Week to date Data for Week and previous Week of current Month for current Year (when Current week is 1st Week)

Selected Fields	Result on 6 Mar 2015
Year: YTD Month: MTD Week: WTD, WTD -1	Data for 1st March 2015 to 6th March 2015 Data for 22nd February 2015 to 27th February 2015

Reference: **Concept Manual > Filters and Expressions > Time Series**

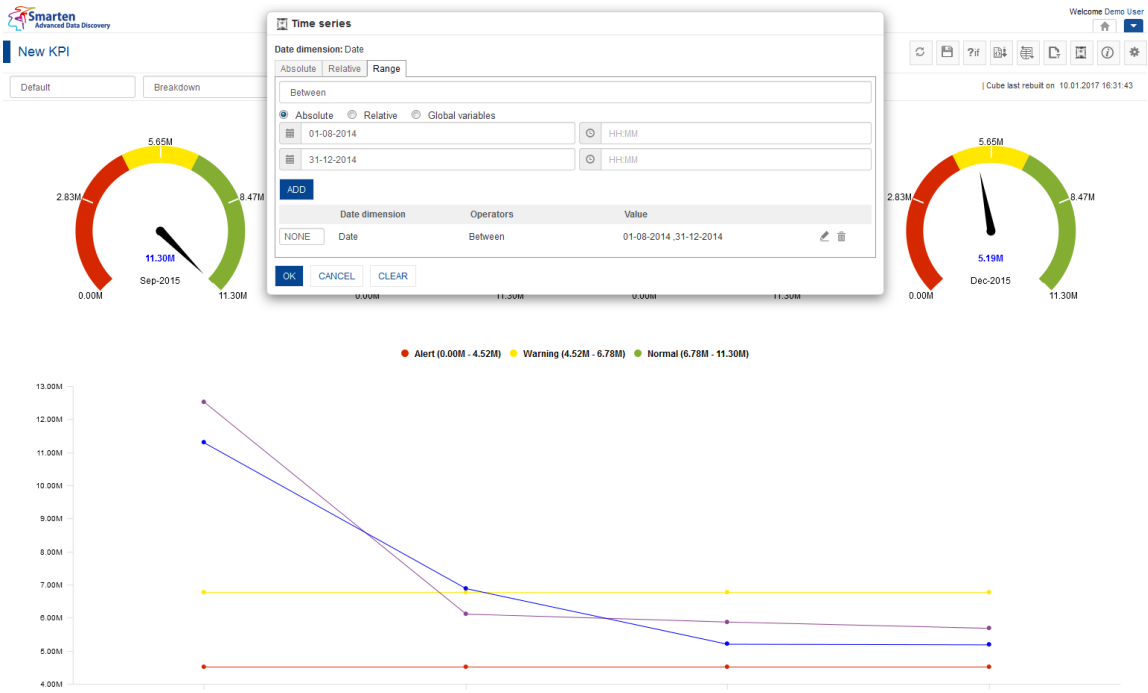
Reference: **User Manual > Working with Crosstab > Time Series > Relative Time Series Filter (Period to Date)**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

7.7.6.4 Range Time Series Filter

Procedure

1. Follow the **Procedure** of **Time Series**.
2. In the **Time series** dialog box, click **Range** tab.
3. In the Value drop-down list, select a value.
4. In the Date field, select a date.
5. In the Time field, select a time.
6. Click **Add**.
   From the drop-down list, select a logical operator (either AND or OR) to join two conditions.
   Select NONE if you do not want to add any other condition.
   You can edit the added condition by clicking **Edit** icon.
   You can also delete the added condition by clicking **Delete** icon.
7. Click **OK.**

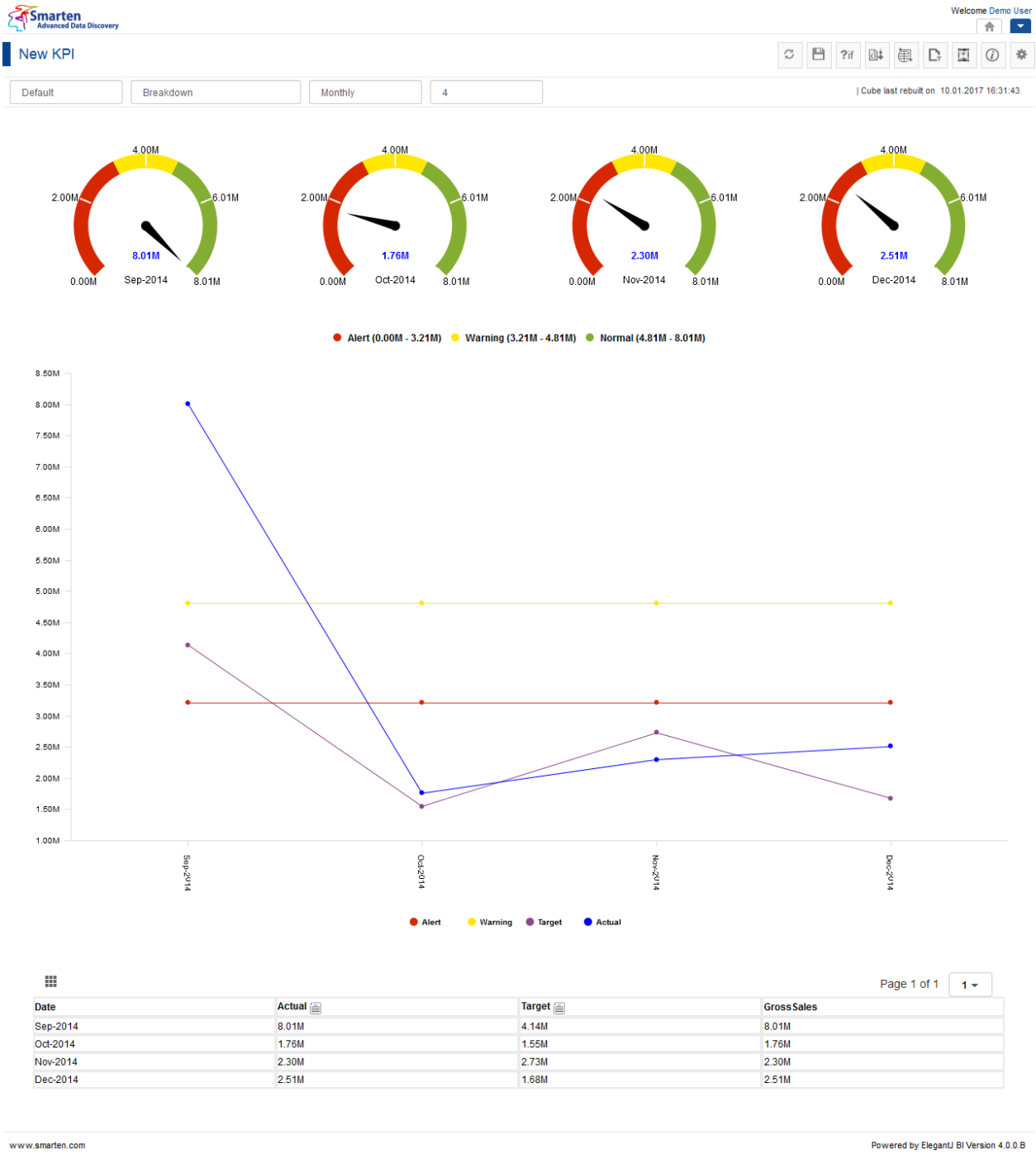


KPI: TIME SERIES: RANGE FILTERING

Field	Description
Date dimension	Date selected as Time Dimension for KPI
Filter Type	Range Filter the value based on range and custom periods

	Value
	Before
	After
	Between
	Not Between

RANGE TIME SERIES SETTINGS



KPI AFTER APPLYING RANGE TIME SERIES FILTER

Examples:

Selected Fields	Options	On 30 November 2014
		Result
Value	1 Nov 2014	Data for only 1 Nov 2014
Before	1 Nov 2014	Date up to 31 Oct 2014

After	1 Apr 2014	Data from 1 Apr 2014 to 30 Nov 2014
Between	1 Apr 2014 to 20 Aug 2014	Data from 1 Apr 2014 to 20 Aug 2014
Not Between	1 Apr 2014 to 20 Aug 2014	Data up to 31 Mar 2014 and Data from 21 Aug 2014 to 30 Nov 2014

Reference: **Concept Manual > Filters and Expressions > Time Series**

Reference: **User Manual > Working with Crosstab > Time Series > Range Time Series Filter**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

7.7.7 Retrieval Parameters

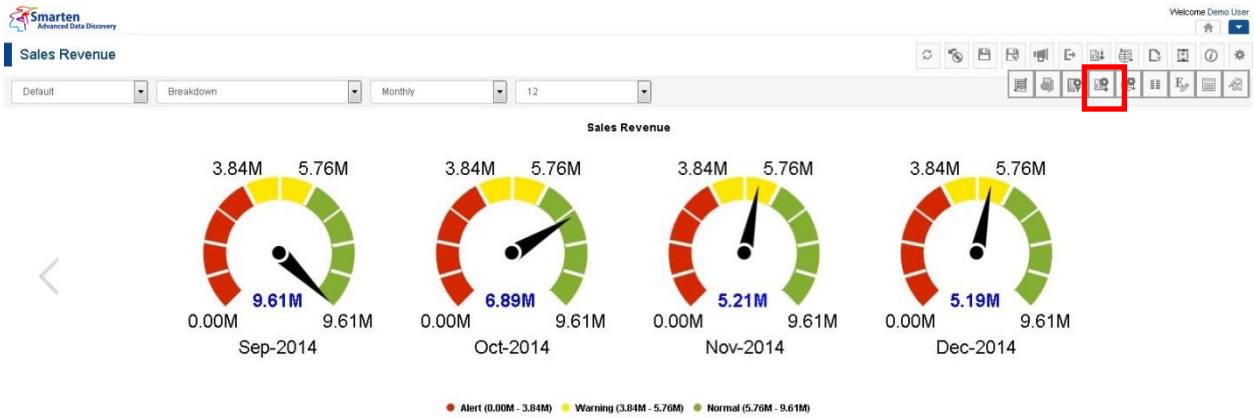
Retrieval parameters are back-end filters applied at the cube level. By default, Smarten KPIs are loaded with full data from the cube. To see KPI objects with filtered views, retrieval parameters are required. These are run-time parameters for analyzing the objects.

7.7.7.1 Creating Retrieval Parameters

To set Retrieval Parameters for Dimension:

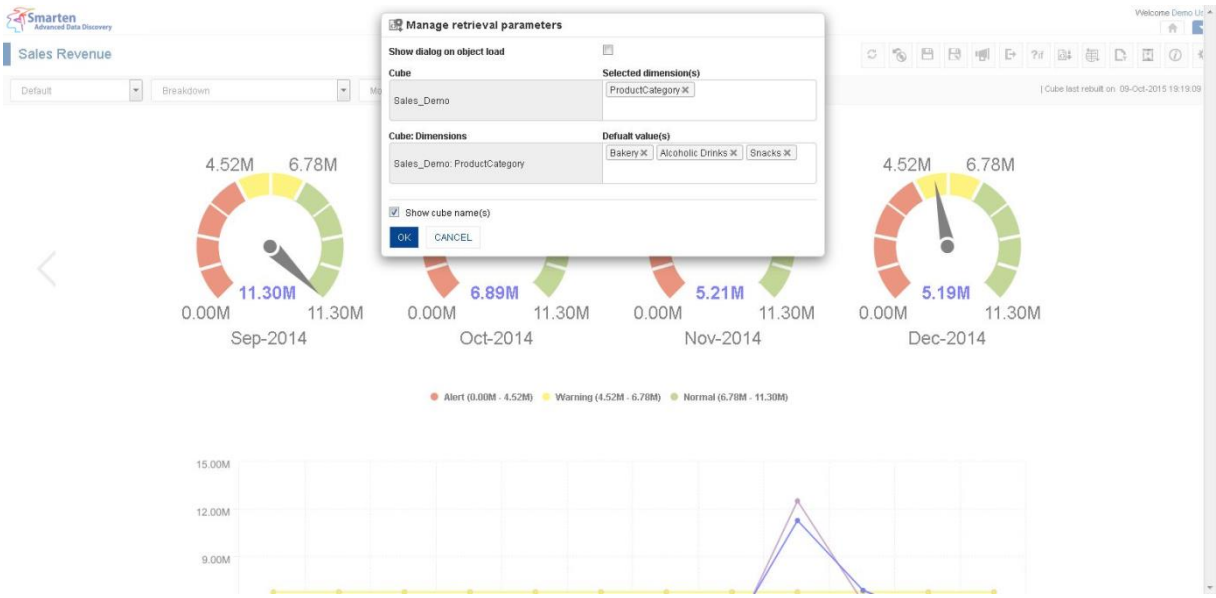
Procedure

1. In the **Repository**, open KPI.
   The system displays the selected KPI.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.



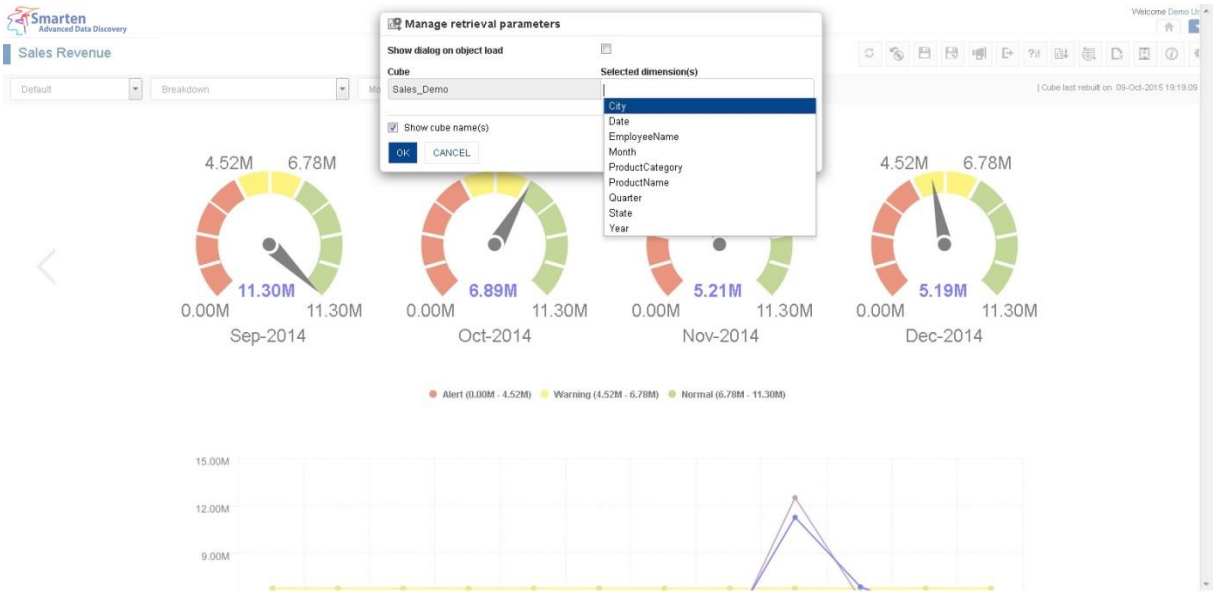
MANAGE RETRIEVAL PARAMETERS ICON

3. Click **Manage retrieval parameters**.
   The system displays the **Manage retrieval parameters** dialog box.



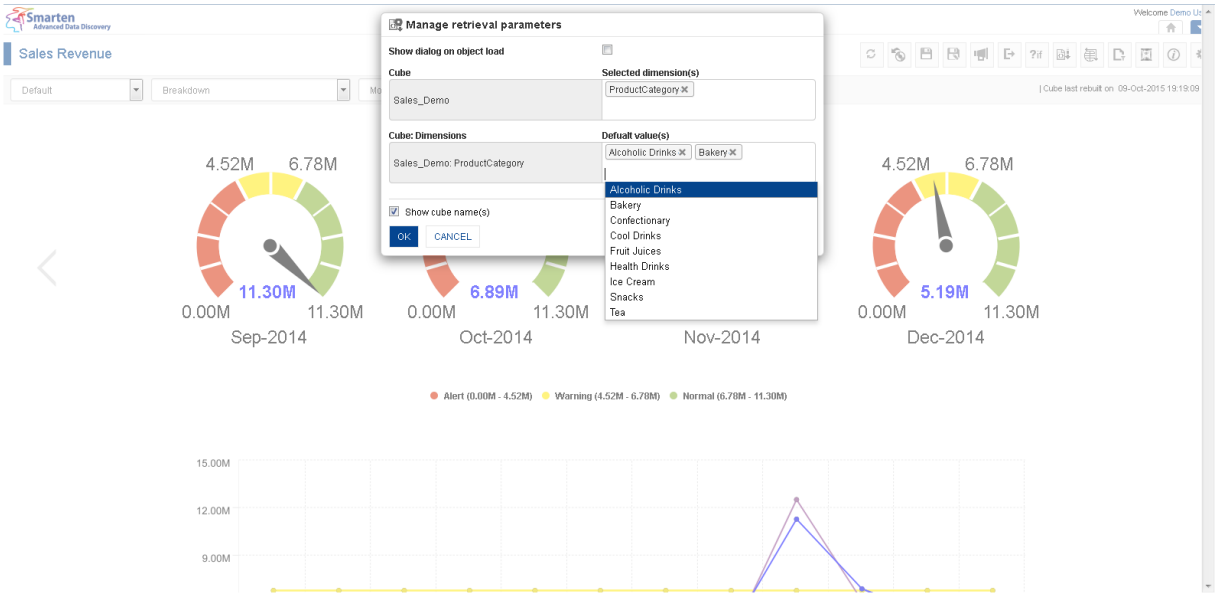
KPI: MANAGE RETRIEVAL PARAMETERS

4. In the **Show dialog on object load** field, check the checkbox to display retrieval parameters dialog on object load
5. In the **Selected Dimension(s)** field, click to select dimension(s) for retrieval parameters.



KPI: RETRIEVAL PARAMETERS—SELECT DIMENSION

6. In the **Default value(s)** field, click to select dimension value(s).



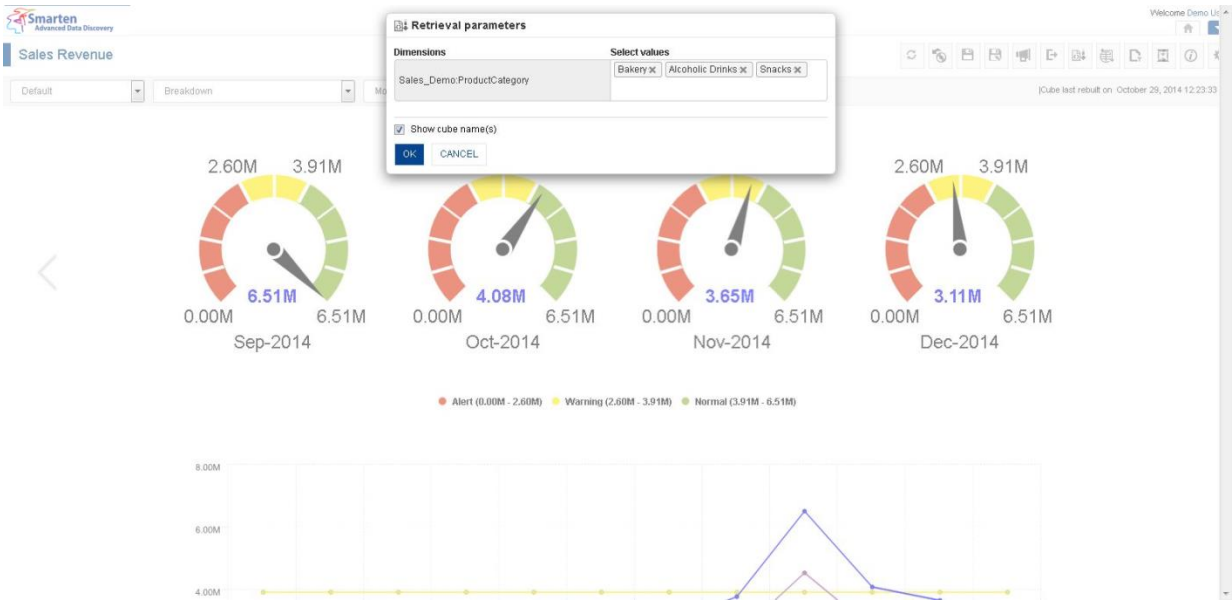
SET DEFAULT VALUE FOR RETRIEVAL PARAMETERS

7. Click **OK.**

7.7.7.2 Applying Retrieval Parameters

Procedure

1. Follow the **Procedure** of **Creating Retrieval Parameter** if you need to create Retrieval Parameter
2. In the upper right-hand corner, click **Retrieval parameters.**
   The system displays the **Retrieval parameters** dialog box.



KPI AFTER APPLYING RETRIEVAL PARAMETERS

3. Click **OK**.

Reference: **Concept Manual > Filters and Expressions > Retrieval Parameters**

7.7.8 Global Variables

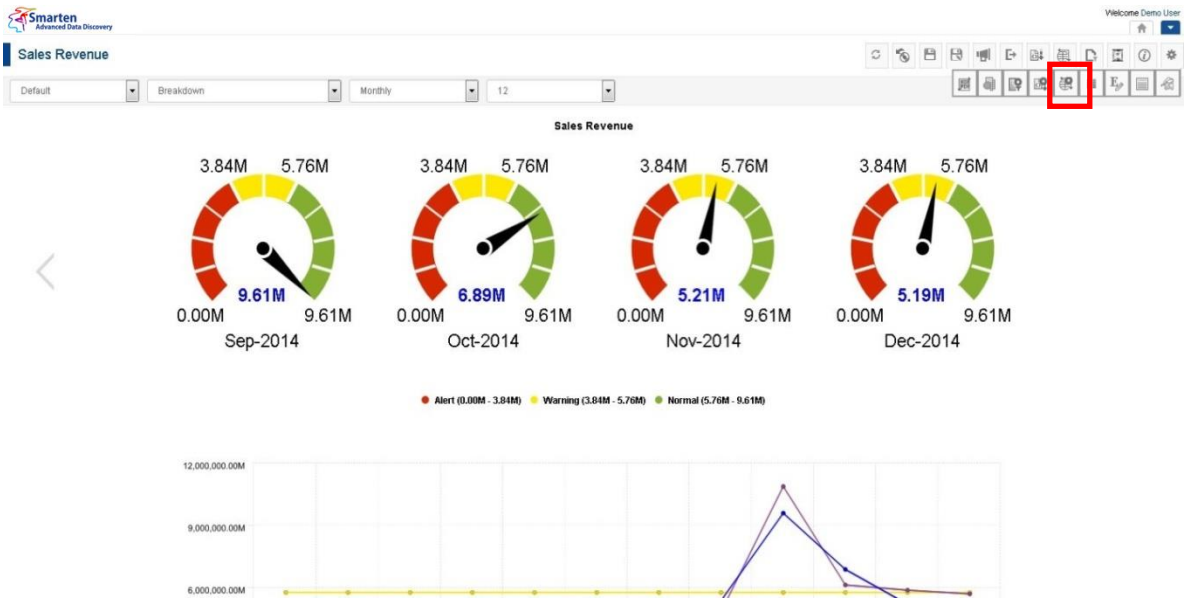
Variables that can be accessed globally with various expressions and filters for BI objects within Smarten are known as Global Variables.

7.7.8.1 Creating Global Variables

To Add Global Variable:

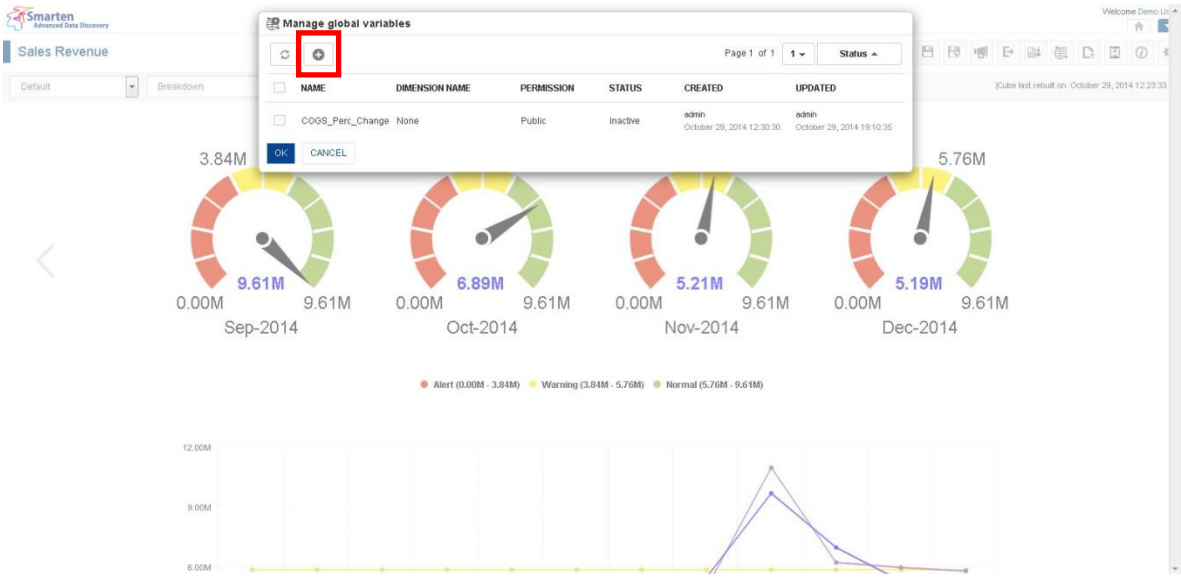
Procedure

1. In the **Repository**, open KPI.
   The system displays the selected KPI.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.



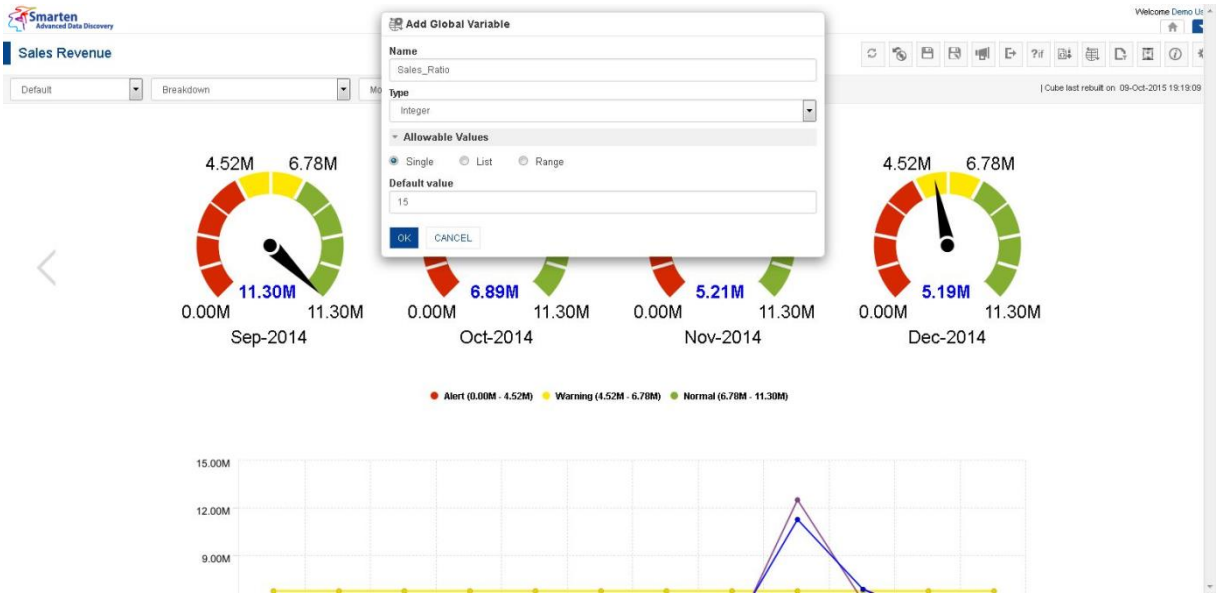
MANAGE GLOBAL VARIABLES ICON

3. Click Manage global variables.
   The system displays the **Manage global variables** dialog box.



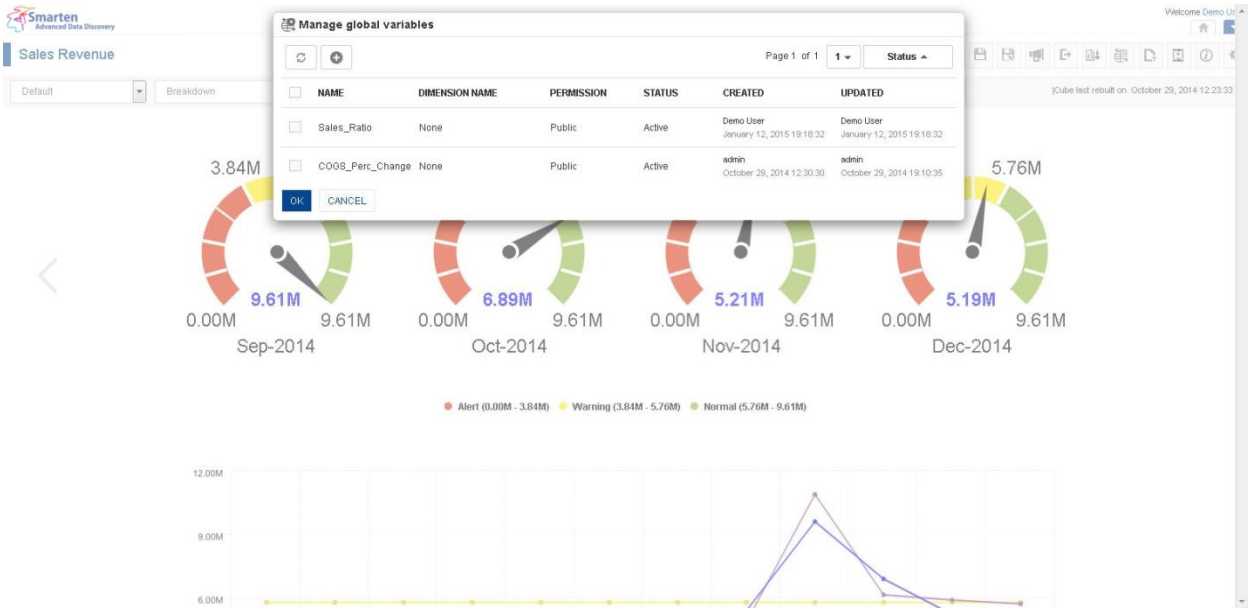
MANAGE GLOBAL VARIABLES DIALOG: ADD BUTTON

4. In the **Manage global variables** dialog box, click Add icon.
   The system displays the **Add global variable** dialog box.



GLOBAL VARIABLE—ADD NEW GLOBAL VARIABLE

5. In the **Name** field, enter the name.
6. In the **Type** field, select a type from the drop-down list.
7. In the **Allowable Values** field, select **Single** radio button option
8. In the **Default value** field, enter a value.
9. Click **OK.**
   The system displays the **Manage global variables list** with all the global variables created.
10. Click **OK.**



GLOBAL VARIABLES LIST

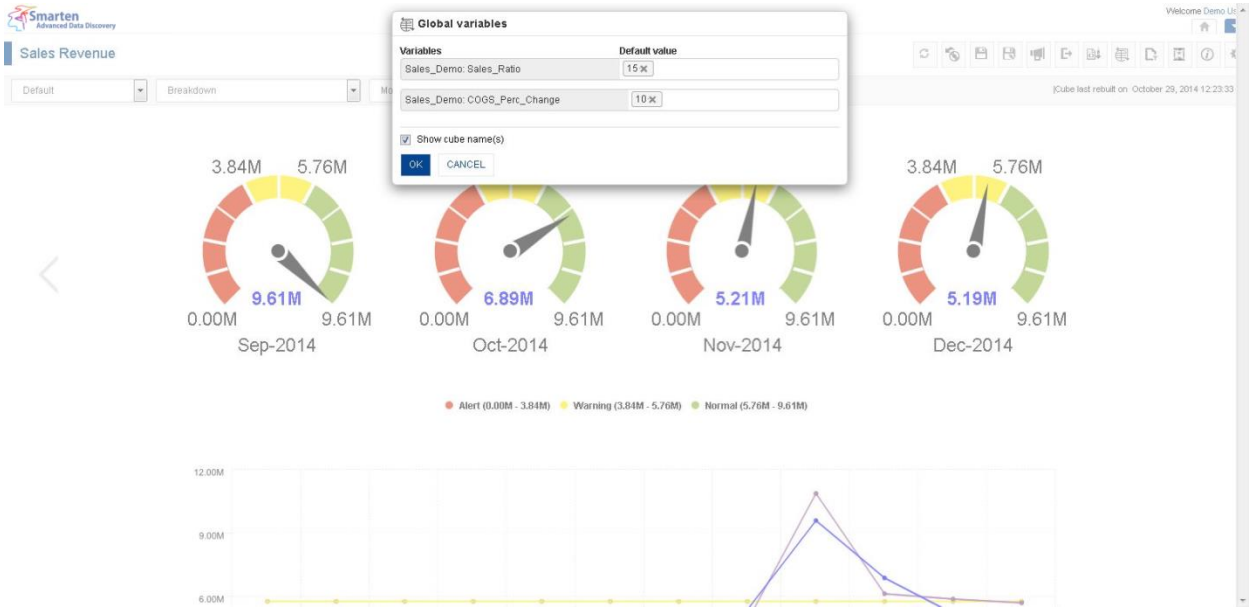
Reference: **User Manual > Working with Crosstab > Global Variables**

> Note:
> Templates can be edited or deleted only by creator of the template or the administrator.

7.7.8.2 Applying Global Variables

Procedure

1. Follow the **Procedure** of **Creating global variable** if you need to create a global variable.
2. In the upper right-hand corner, click **Global variables.**
   The system displays the **Global variables** dialog box.
3. Click **OK.**



KPI AFTER APPLYING GLOBAL VARIABLE

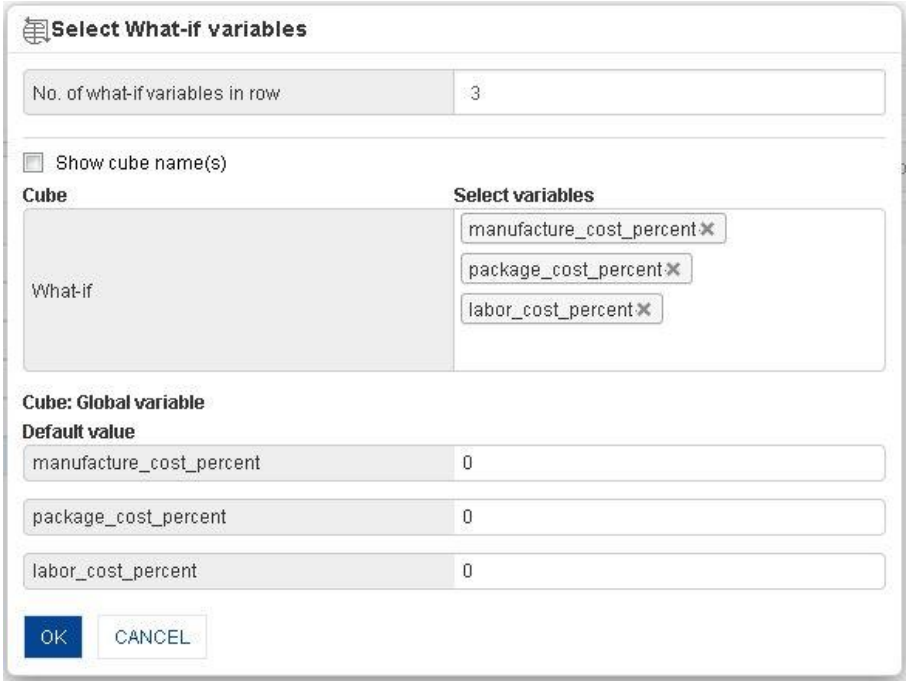
Reference: **Concept Manual > Filters and Expressions > Global Variables**

7.7.9 What-if Variables

Global variables used in Custom measures can be selected as what-if variables as per analysis or reporting requirements

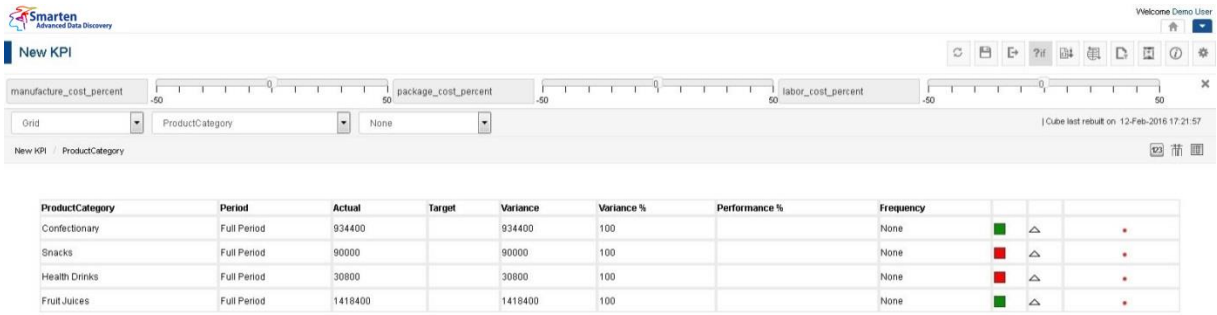
Procedure

1. In the **Repository**, open KPI.
   The system displays the selected KPI.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Select What-if variables.**
   The system displays the **Select What-if variables** dialog box.
4. In the **No. of what-if variables in row** field, enter a value

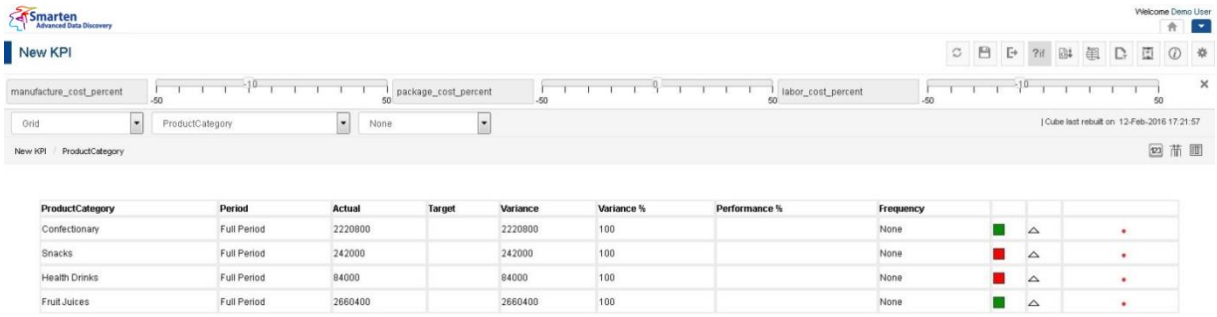


KPI: MANAGE WHAT-IF VARIABLES: SELECTING WHAT-IF VARIABLES

5. In the **Select What-if variables** dialog box, select variables from list of value. The system displays selected global variables with default value.



KPI BEFORE CHANGEING WHAT-IF VARIABLE VALUE



KPI AFTER CHANGEING WHAT-IF VARIABLE VALUE

Reference: **Concept Manual > Analytic Functions > What-if Analysis**

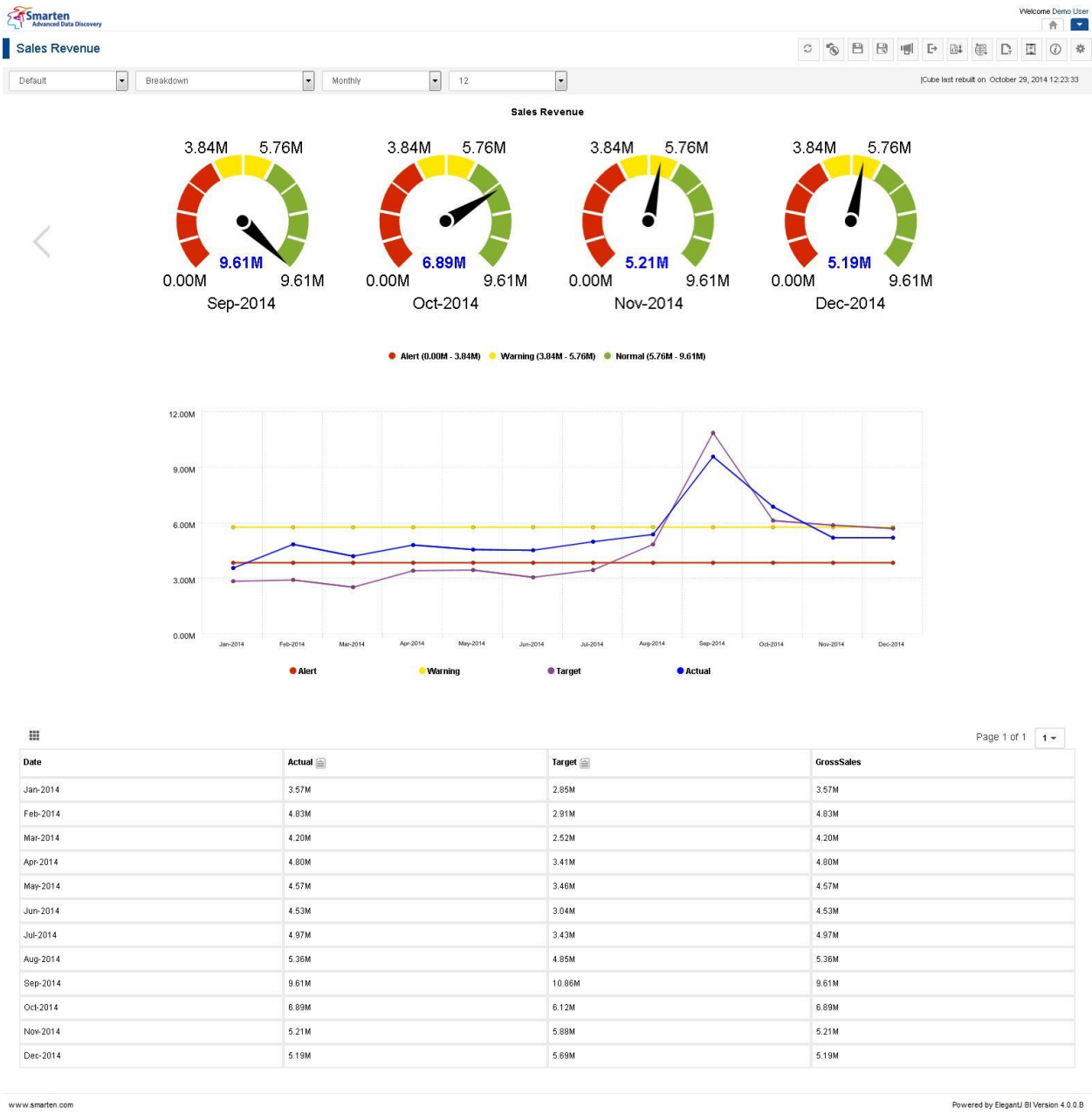
Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

7.7.10 KPI Breakdown on Dimension

Breakdowns are also known as drill-downs, allowing you to analyze KPI performance by dimension values. You can also drill down to different dimensions, to access specific information.

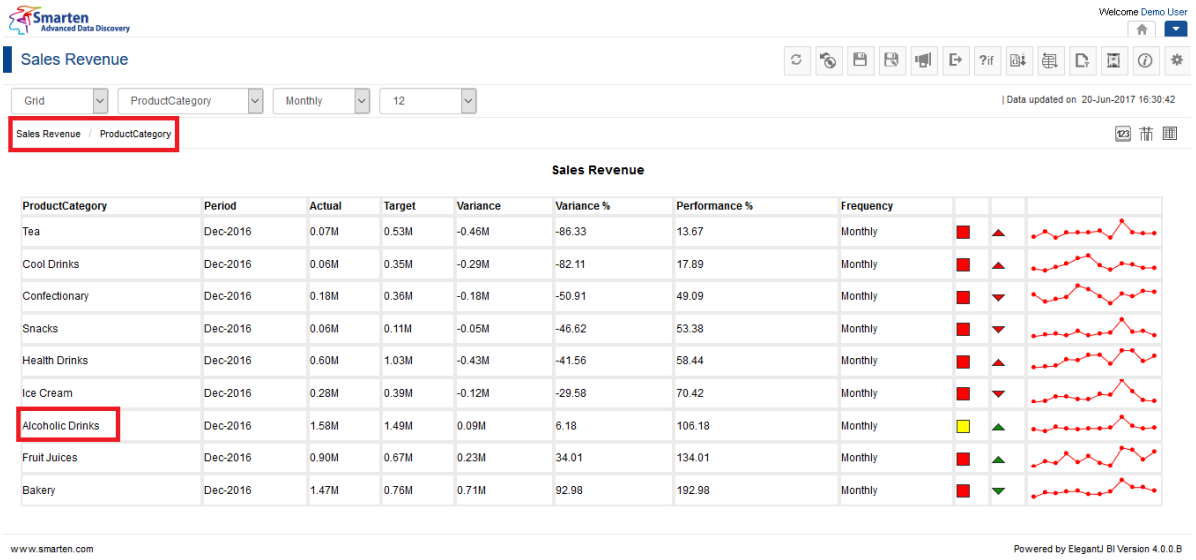
For example, you can analyse Sales KPI performance by drilling down the Product Category to Product Name, which can then be further drilled down to City and so on until the last dimension is reached. Moreover, if you have selected a particular dimension value, Smarten will drill down data related to that value only. So, if the user has selected “Alcoholic Drinks” under Product Category, Smarten will drill down to only all product names under the “Alcoholic Drinks” product category.

Shown below is the Sales KPI performance over different periods and their breakdown.



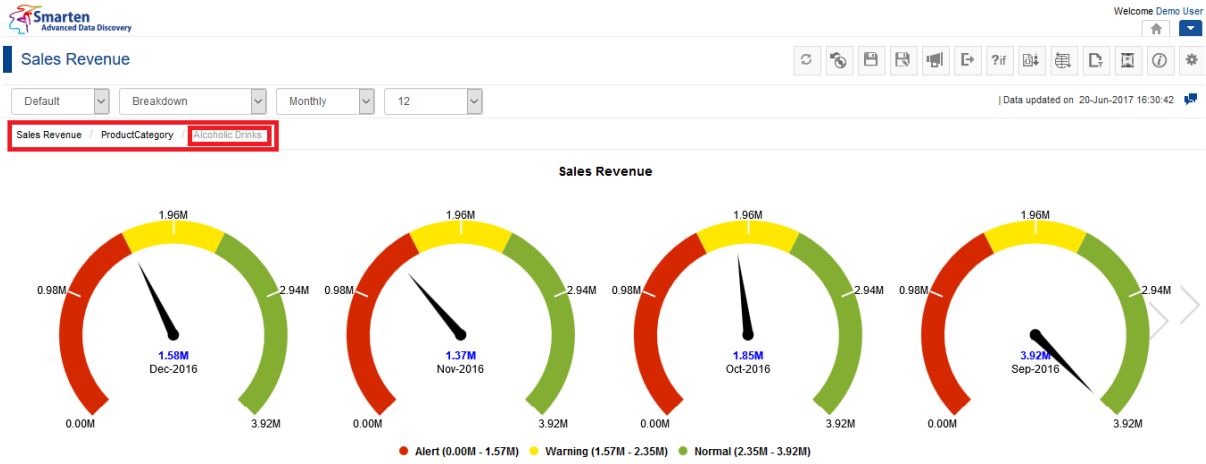
Date	Actual	Target	GrossSales
Jan-2014	3.57M	2.85M	3.57M
Feb-2014	4.83M	2.91M	4.83M
Mar-2014	4.20M	2.52M	4.20M
Apr-2014	4.80M	3.41M	4.80M
May-2014	4.57M	3.46M	4.57M
Jun-2014	4.53M	3.04M	4.53M
Jul-2014	4.97M	3.43M	4.97M
Aug-2014	5.36M	4.85M	5.36M
Sep-2014	9.61M	10.86M	9.61M
Oct-2014	6.89M	6.12M	6.89M
Nov-2014	5.21M	5.88M	5.21M
Dec-2014	5.19M	5.69M	5.19M

SALES REVENUE KPI WITHOUT BREAKDOWN

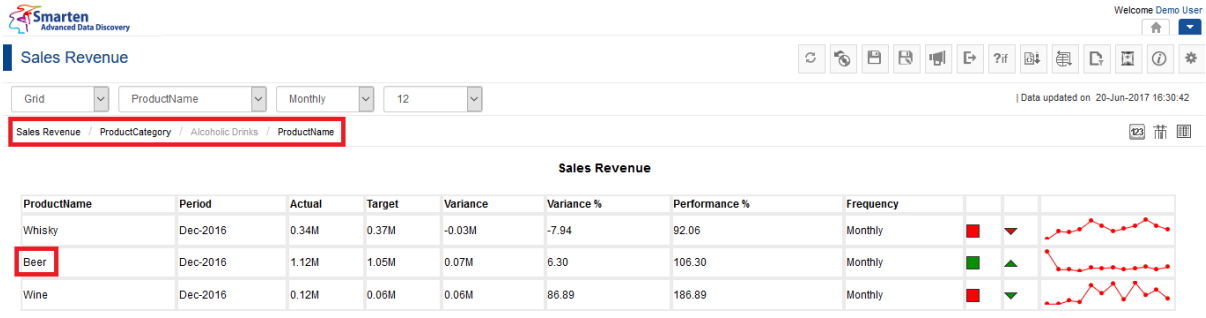


ProductCategory	Period	Actual	Target	Variance	Variance %	Performance %	Frequency
Tea	Dec-2016	0.07M	0.53M	-0.46M	-86.33	13.67	Monthly
Cool Drinks	Dec-2016	0.06M	0.35M	-0.29M	-82.11	17.89	Monthly
Confectionary	Dec-2016	0.18M	0.36M	-0.18M	-50.91	49.09	Monthly
Snacks	Dec-2016	0.06M	0.11M	-0.05M	-46.62	53.38	Monthly
Health Drinks	Dec-2016	0.60M	1.03M	-0.43M	-41.56	58.44	Monthly
Ice Cream	Dec-2016	0.28M	0.39M	-0.12M	-29.58	70.42	Monthly
Alcoholic Drinks	Dec-2016	1.58M	1.49M	0.09M	6.18	106.18	Monthly
Fruit Juices	Dec-2016	0.90M	0.67M	0.23M	34.01	134.01	Monthly
Bakery	Dec-2016	1.47M	0.76M	0.71M	92.98	192.98	Monthly

KPI BREAKDOWN—PRODUCT CATEGORY WISE

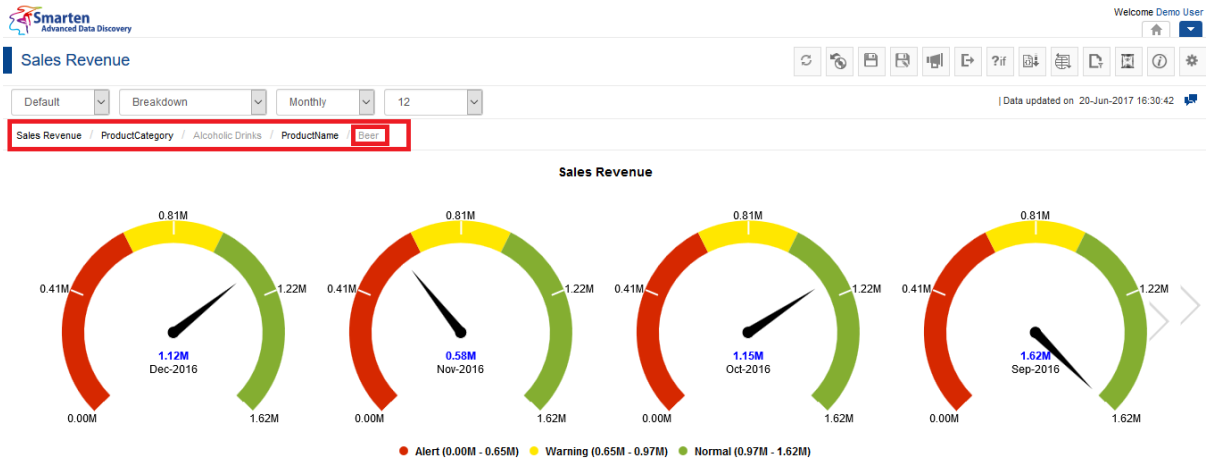


KPI BREAKDOWN—"ALCOHOLIC DRINKS" UNDER PRODUCT CATEGORY

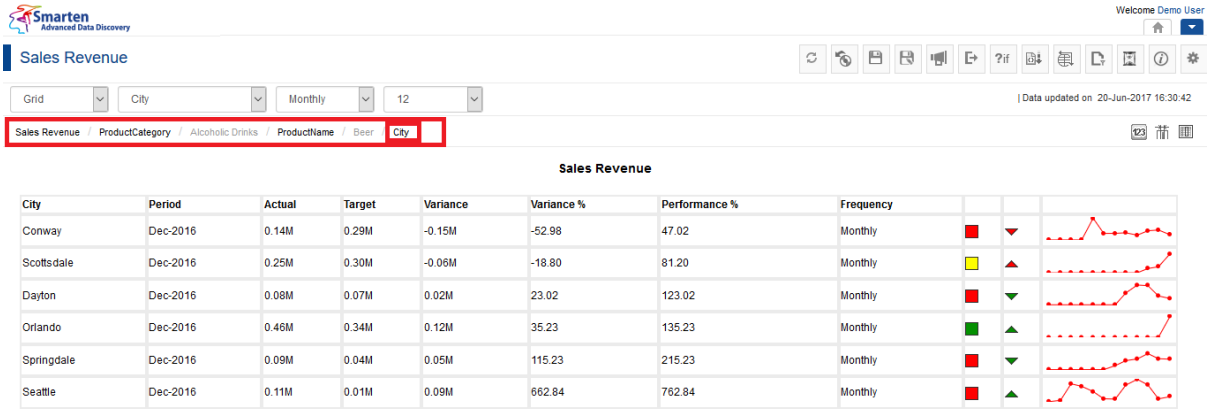


ProductName	Period	Actual	Target	Variance	Variance %	Performance %	Frequency
Whisky	Dec-2016	0.34M	0.37M	-0.03M	-7.94	92.06	Monthly
Beer	Dec-2016	1.12M	1.05M	0.07M	6.30	106.30	Monthly
Wine	Dec-2016	0.12M	0.06M	0.06M	86.89	186.89	Monthly

KPI BREAKDOWN—PRODUCT NAME WISE DRILL DOWN FOR "ALCOHOLIC DRINKS"



KPI BREAKDOWN—"BEER" UNDER PRODUCT NAME



City	Period	Actual	Target	Variance	Variance %	Performance %	Frequency
Conway	Dec-2016	0.14M	0.29M	-0.15M	-52.98	47.02	Monthly
Scottsdale	Dec-2016	0.25M	0.30M	-0.06M	-18.80	81.20	Monthly
Dayton	Dec-2016	0.08M	0.07M	0.02M	23.02	123.02	Monthly
Orlando	Dec-2016	0.46M	0.34M	0.12M	35.23	135.23	Monthly
Springdale	Dec-2016	0.09M	0.04M	0.05M	115.23	215.23	Monthly
Seattle	Dec-2016	0.11M	0.01M	0.09M	662.84	762.84	Monthly

KPI BREAKDOWN—STATE WISE DRILL DOWN FOR "BEER"

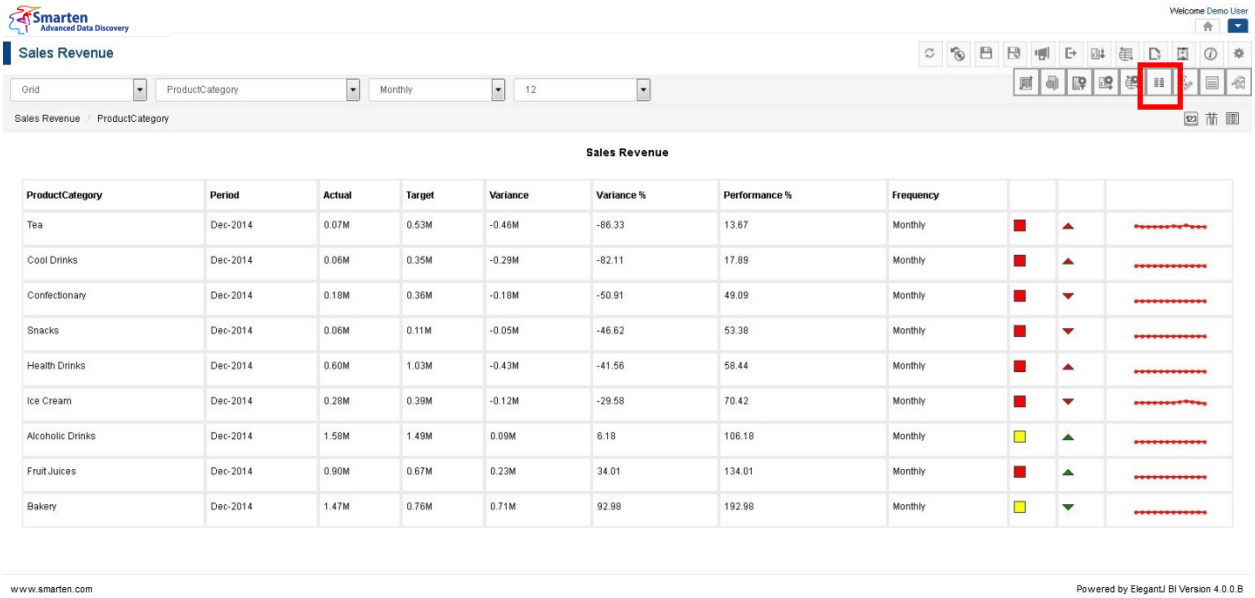
7.7.11 Customize KPI Breakdowns / KPI Group

7.7.11.1 Manage Breakdown Dimension Columns

By default, all dimensions available in the cube will be displayed as breakdown columns. You can select dimensions that are available as breakdown columns.

Procedure

1. In the **Repository**, open KPI.
   The system displays the selected KPI.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.



MANAGE BREAKDOWN DIMENSION COLUMNS ICON

3. Click **Manage breakdown columns**.
   The system displays the **Manage breakdown columns** dialog box.

MANAGE BREAKDOWN DIMENSION COLUMNS DIALOG

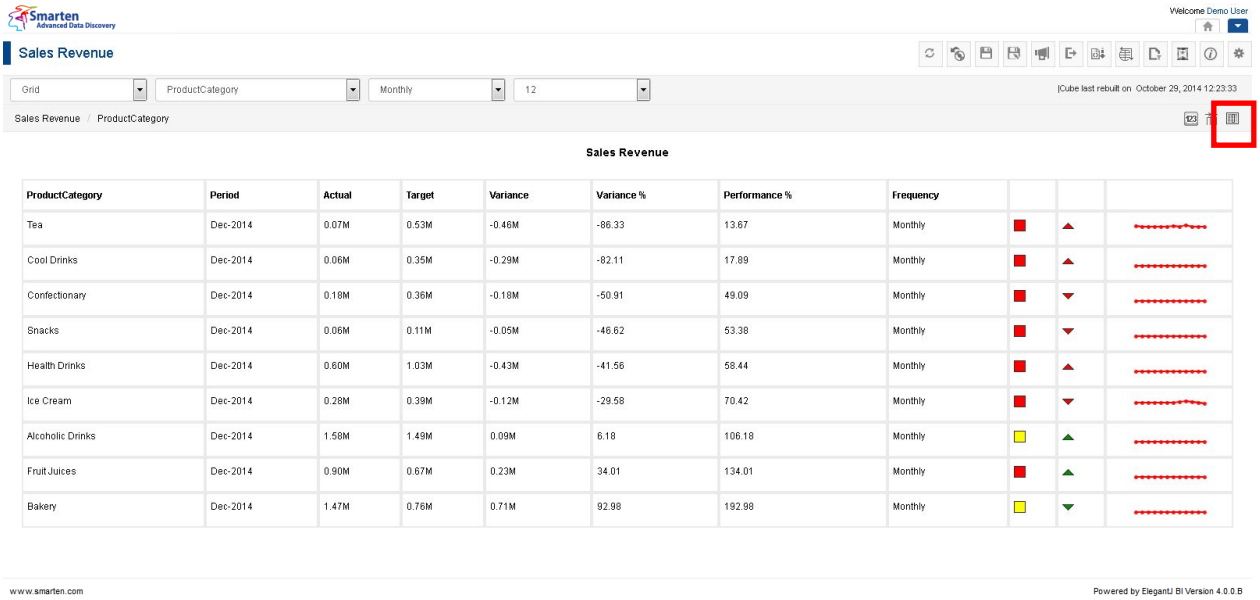
4. From the **Available columns**, select the values.
   The system displays the chosen values in the **Selected columns.**
5. Click **OK.**

7.7.11.2 Managing KPI Breakdown View Columns

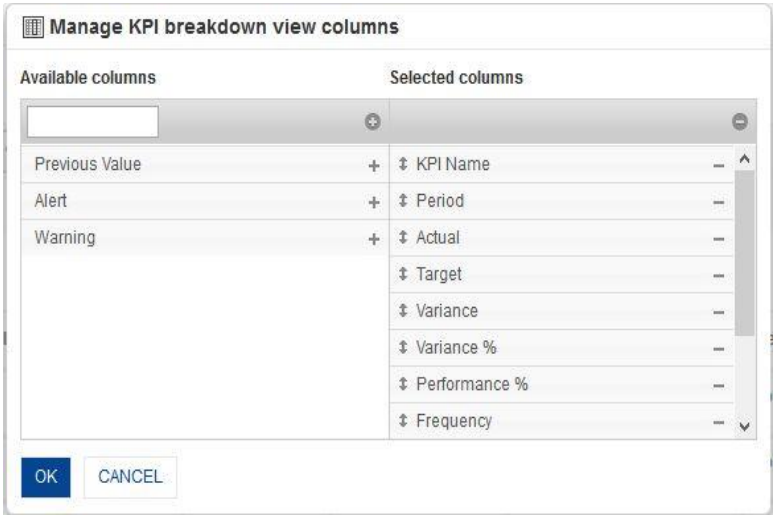
By default, all the columns in KPI breakdown view will be available. You can select columns that are available as KPI breakdown view columns from here.

Procedure

1. In the **Repository**, open KPI.
   The system displays the selected KPI.
2. In the upper right-hand corner, click **Manage KPI breakdown view columns.**
   The system displays the **Manage KPI breakdown view columns** dialog box.



MANAGE KPI BREAKDOWN VIEW COLUMNS ICON



MANAGE KPI BREAKDOWN VIEW COLUMNS DIALOG

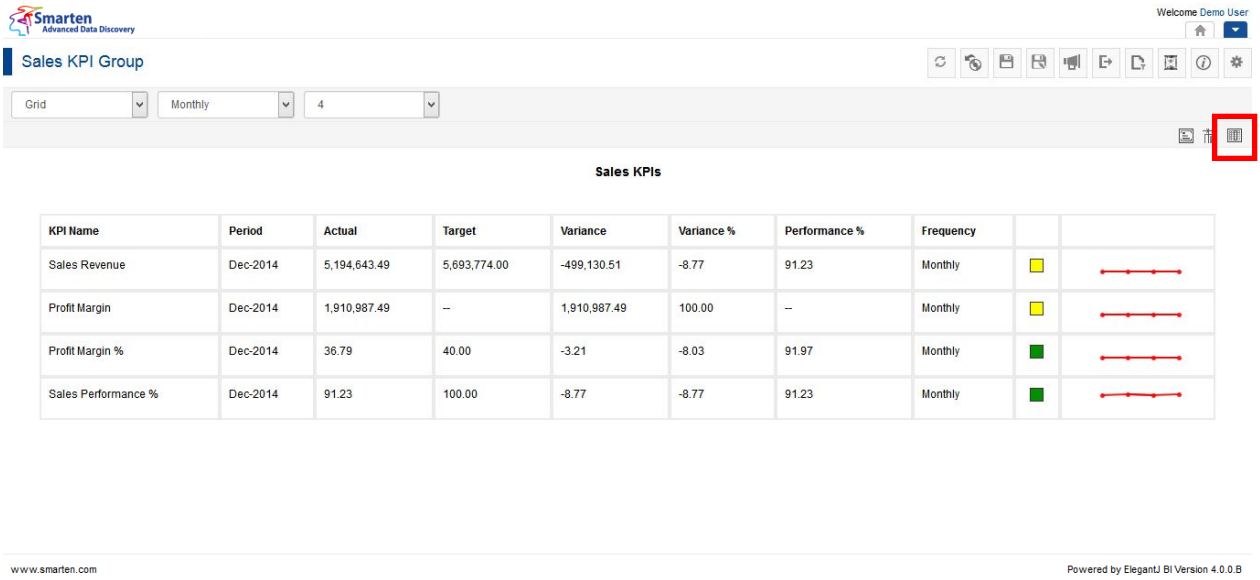
3. From the **Available columns**, select the values.
   The system displays the chosen values in the **Selected columns.**
4. Click **OK.**

7.7.11.3 Managing KPI Group View Columns

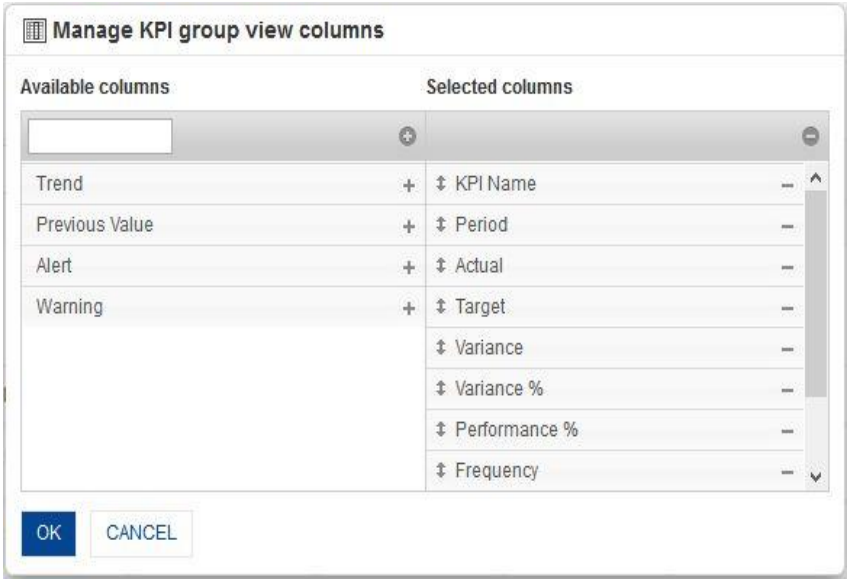
By default, all the columns in KPI Group view will be available. You can select columns that are available as KPI Group view from here.

Procedure

1. In the **Repository**, open KPI Group.
   The system displays the selected KPI Group.
2. In the upper right-hand corner, click **Manage KPI group view column.**
   The system displays the **Manage KPI group view column** dialog box.



MANAGE KPI GROUP VIEW COLUMNS ICON



MANAGE KPI GROUP VIEW COLUMNS DIALOG

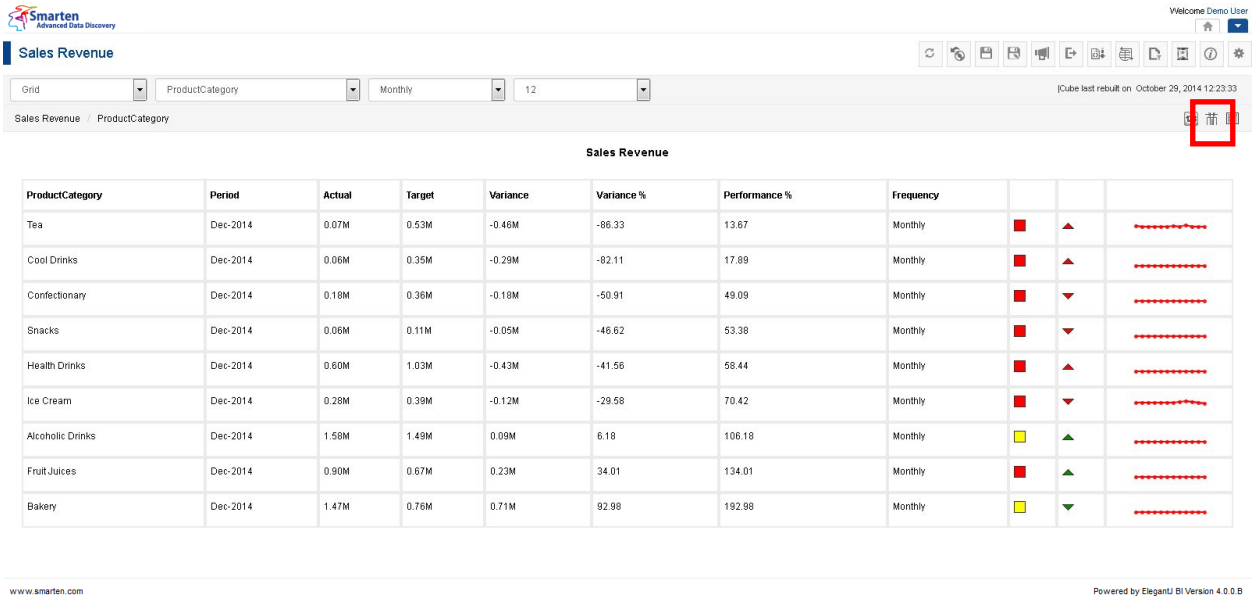
3. From the **Available columns**, select the values.
   The system displays the chosen values in the **Selected columns.**
4. Click **OK.**

7.7.11.4 Managing KPI Breakdown user-defined data columns

You can define custom data columns based on aggregation and time series filters to enhance KPI views. For example, you can add a custom column that is based on the average of actual value of KPI for Q1 of 2014.

Procedure

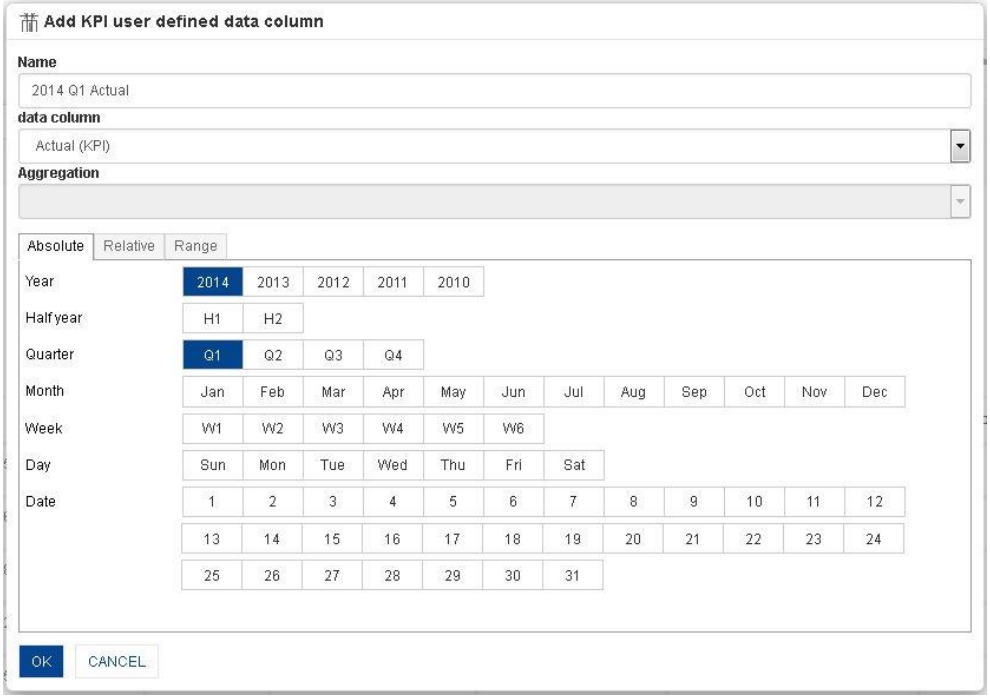
1. In the **Repository**, open KPI.
   The system displays the selected KPI.
2. In the upper right-hand corner, click **Manage KPI breakdown user-defined data columns.**
   The system displays the **Manage KPI breakdown user-defined data columns** dialog box.



ProductCategory	Period	Actual	Target	Variance	Variance %	Performance %	Frequency
Tea	Dec-2014	0.07M	0.53M	-0.46M	-86.33	13.67	Monthly
Cool Drinks	Dec-2014	0.06M	0.35M	-0.29M	-82.11	17.89	Monthly
Confectionary	Dec-2014	0.18M	0.36M	-0.18M	-50.91	49.09	Monthly
Snacks	Dec-2014	0.06M	0.11M	-0.05M	-46.62	53.38	Monthly
Health Drinks	Dec-2014	0.60M	1.03M	-0.43M	-41.56	58.44	Monthly
Ice Cream	Dec-2014	0.28M	0.39M	-0.12M	-29.58	70.42	Monthly
Alcoholic Drinks	Dec-2014	1.58M	1.49M	0.09M	6.18	106.18	Monthly
Fruit Juices	Dec-2014	0.90M	0.67M	0.23M	34.01	134.01	Monthly
Bakery	Dec-2014	1.47M	0.76M	0.71M	92.98	192.98	Monthly

MANAGE KPI BREAKDOWN USER-DEFINED DATA COLUMNS ICON

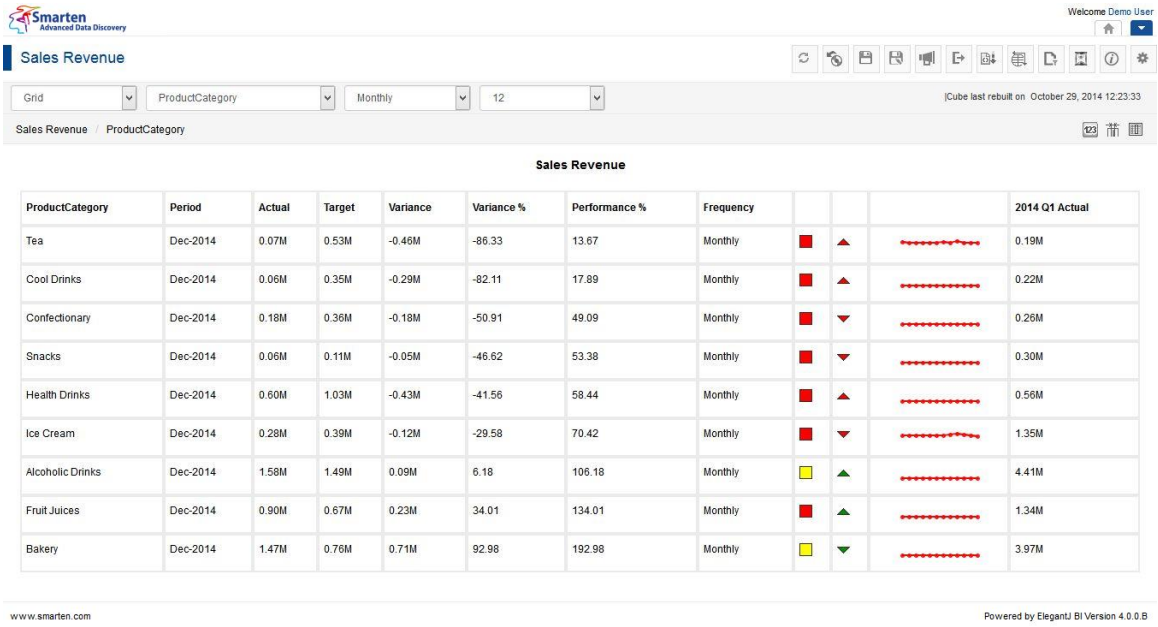
3. In the Manage KPI breakdown user-defined data columns dialog box, click Add icon. The system displays the **Add KPI user-defined data column** dialog box.



ADD KPI BREAKDOWN USER-DEFINED DATA COLUMN

4. In the **Add KPI user-defined data column** dialog box, enter / select the values in fields. Select the name, data column on which you want to create user-defined column, and aggregation operation.
5. Click **OK.**

CREATE & MANAGE KPI BREAKDOWN USER-DEFINED DATA COLUMNS



ProductCategory	Period	Actual	Target	Variance	Variance %	Performance %	Frequency				2014 Q1 Actual
Tea	Dec-2014	0.07M	0.53M	-0.46M	-86.33	13.67	Monthly				0.19M
Cool Drinks	Dec-2014	0.06M	0.35M	-0.29M	-82.11	17.89	Monthly				0.22M
Confectionary	Dec-2014	0.18M	0.36M	-0.18M	-50.91	49.09	Monthly				0.26M
Snacks	Dec-2014	0.06M	0.11M	-0.05M	-46.62	53.38	Monthly				0.30M
Health Drinks	Dec-2014	0.60M	1.03M	-0.43M	-41.56	58.44	Monthly				0.56M
Ice Cream	Dec-2014	0.28M	0.39M	-0.12M	-29.58	70.42	Monthly				1.35M
Alcoholic Drinks	Dec-2014	1.58M	1.49M	0.09M	6.18	106.18	Monthly				4.41M
Fruit Juices	Dec-2014	0.90M	0.67M	0.23M	34.01	134.01	Monthly				1.34M
Bakery	Dec-2014	1.47M	0.76M	0.71M	92.98	192.98	Monthly				3.97M

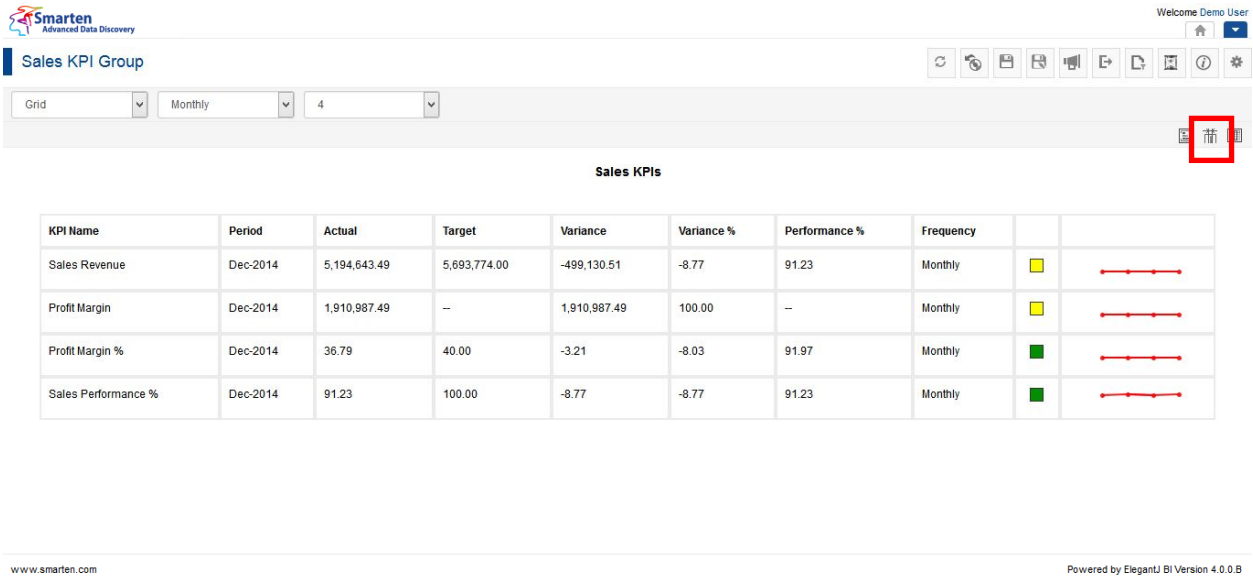
BREAKDOWN KPI WITH USER-DEFINED DATA COLUMNS

7.7.11.5 Managing KPI Group user-defined data columns

You can define custom data columns based on aggregation and time series filters to enhance KPI Group views. For example, you can add a custom column that is based on the average of actual value of KPI for Q1 of 2014, and that will be applied to all KPIs in a KPI Group.

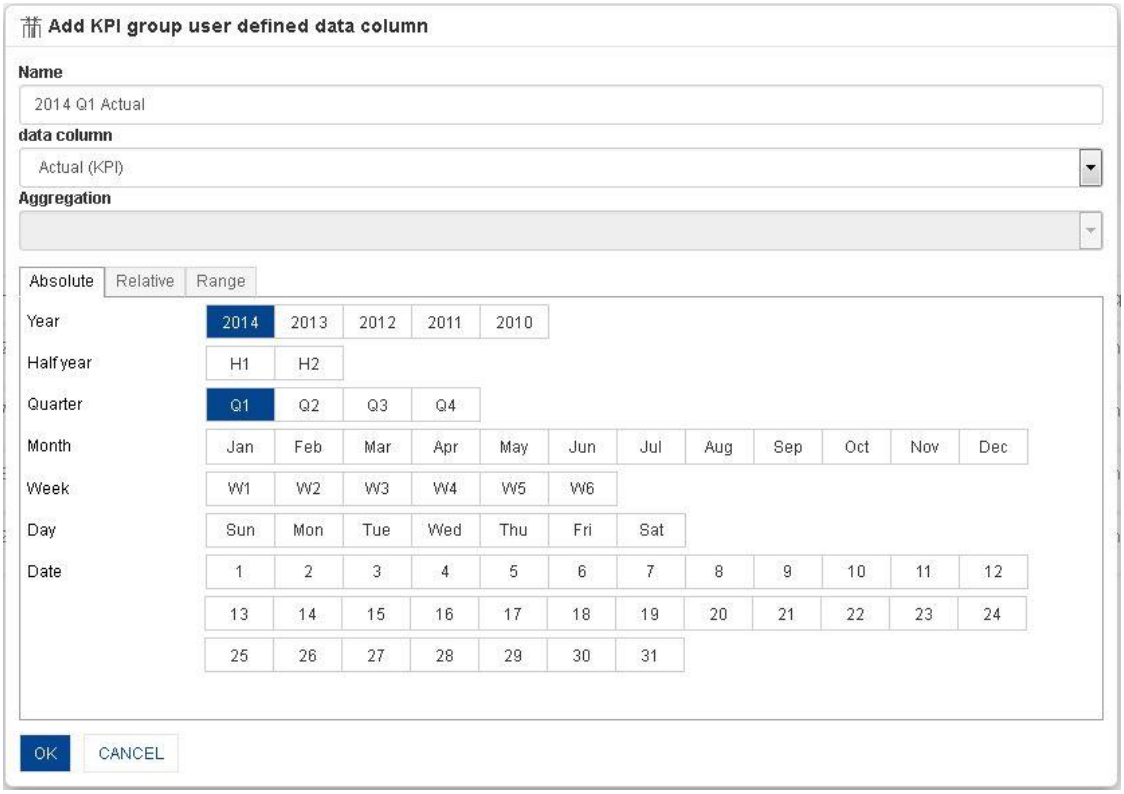
Procedure

1. In the **Repository**, open KPI Group.
   The system displays the selected KPI Group.
2. In the upper right-hand corner, click **Manage KPI Group user-defined data columns.**
   The system displays the **Manage KPI Group user-defined data columns** dialog box.



MANAGE KPI GROUP USER-DEFINED DATA COLUMNS ICON

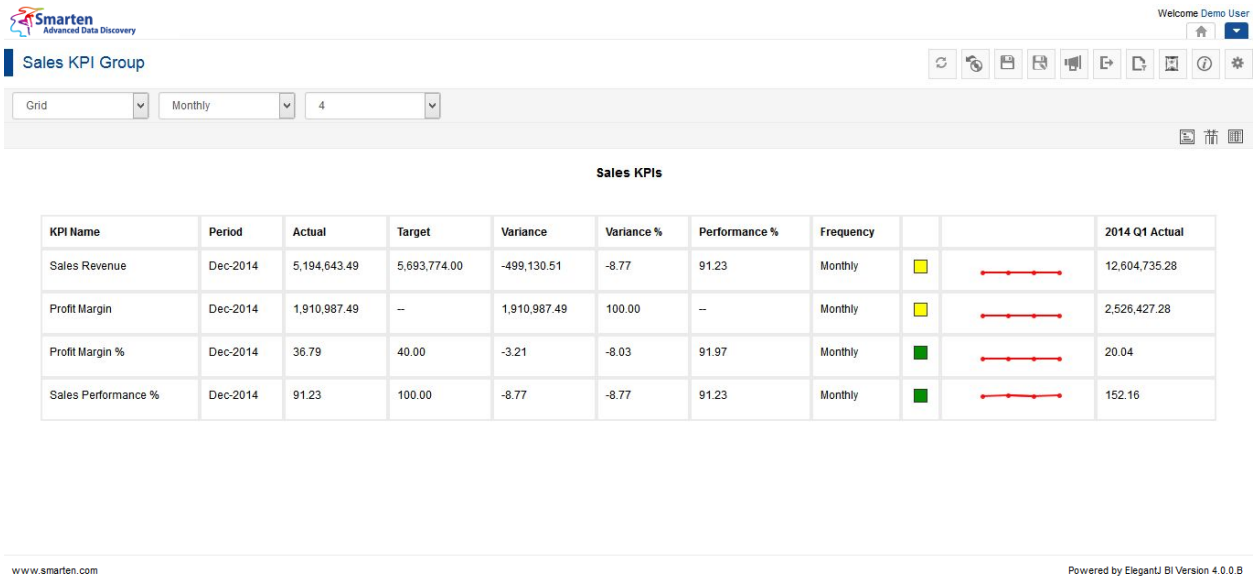
3. In the **Manage KPI Group user-defined data columns** dialog box, click Add icon. The system displays the **Add KPI group user-defined data column** dialog box.



ADD KPI GROUP USER-DEFINED DATA COLUMNS

4. In the **Add KPI group user-defined data column** dialog box, enter / select the values in fields.
5. Select the name, data column on which you want to create user-defined column, and aggregation operation.
6. Click **OK.**

CREATE & MANAGE KPI GROUP USER-DEFINED DATA COLUMNS

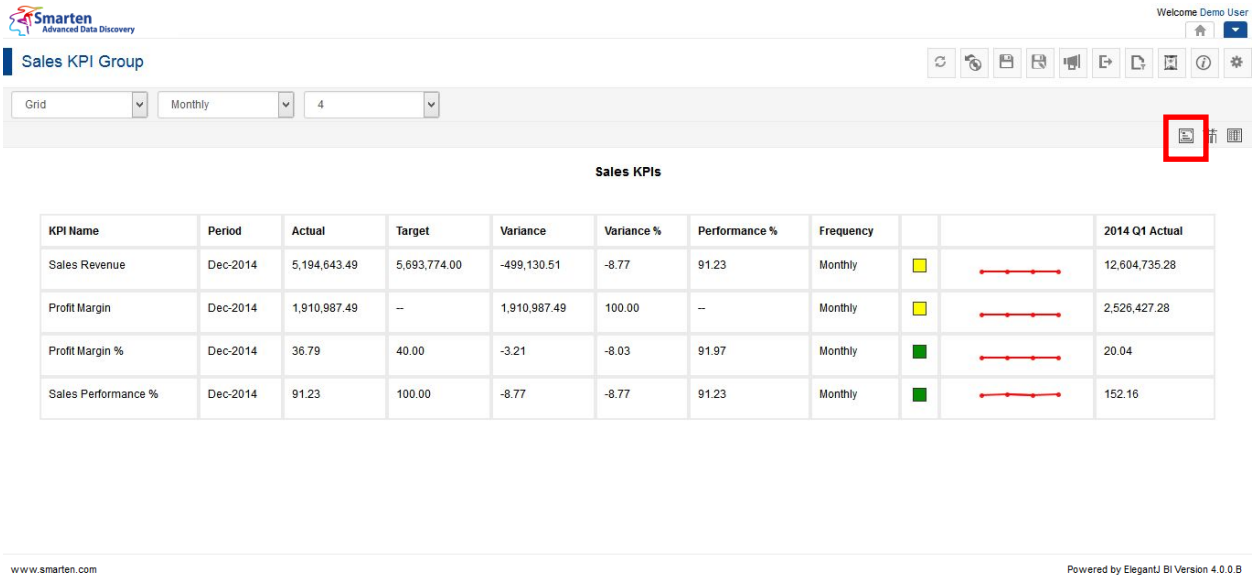


KPI GROUP WITH USER-DEFINED DATA COLUMNS

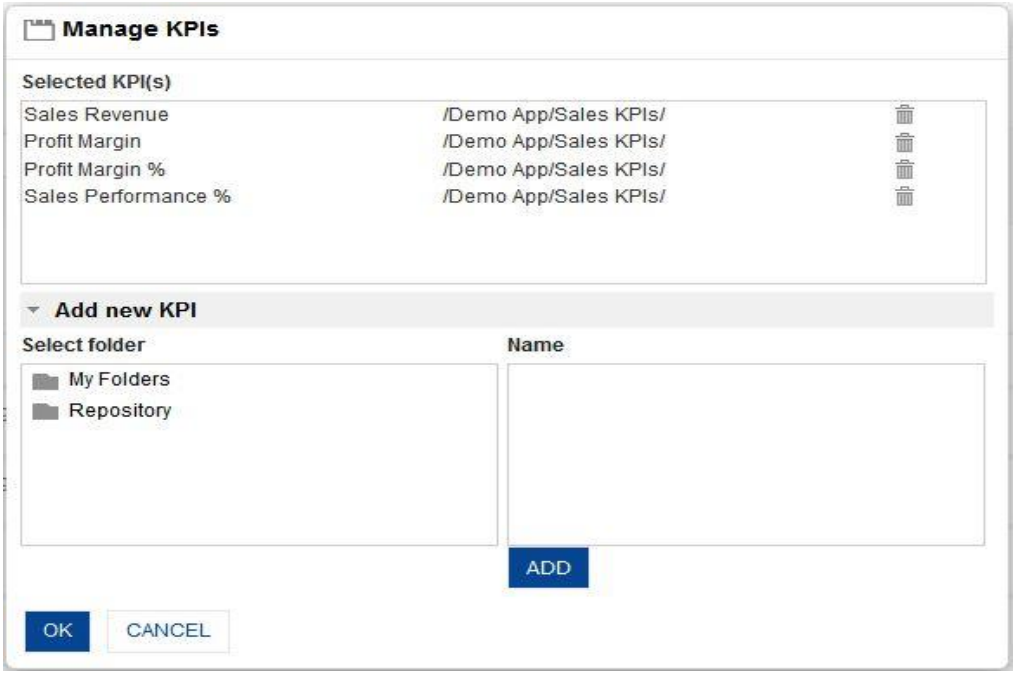
7.7.11.6 Managing KPIs in KPI Group

Procedure

1. In the **Repository**, open KPI Group.
   The system displays the selected KPI Group.
2. In the upper right-hand corner, click **Manage KPIs.**
   The system displays the **Manage KPIs** dialog box.



MANAGE KPIS ICON



MANAGE KPIS DIALOG

1. In the **Manage KPIs** dialog box, click **Add new KPI.**
2. In the **Select folder** box, select a folder.
3. In the **Name** box, select a name.
4. Click **ADD.**
5. To delete a selected KPI, click **Delete** icon in the **Selected KPI(s)** box on top.
6. Click **OK.**

7.7.11.7 Ranking KPI Breakdown

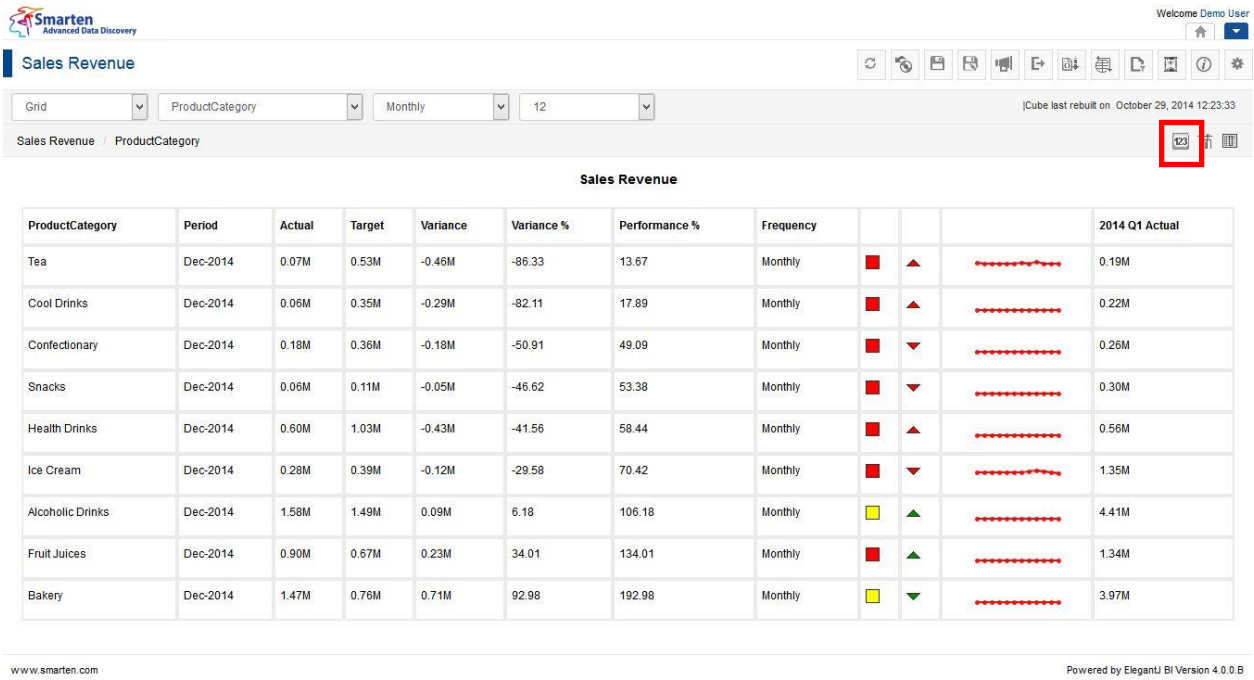
You can rank KPI breakdown views by top or bottom based on the values for Performance%, Actual, Target, Variance, or Variance%.

Procedure

1. In the **Repository**, open KPI.
   The system displays the selected KPI.

Select breakdown dimension and system will show KPI breakdown view.

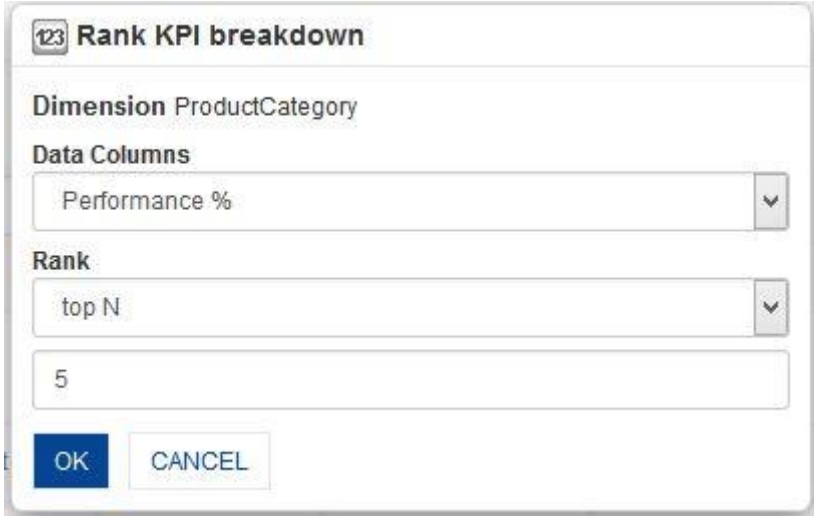
2. In the upper right-hand corner, click **Rank KPI breakdown.**
   The system displays the **Rank KPI breakdown** dialog box.



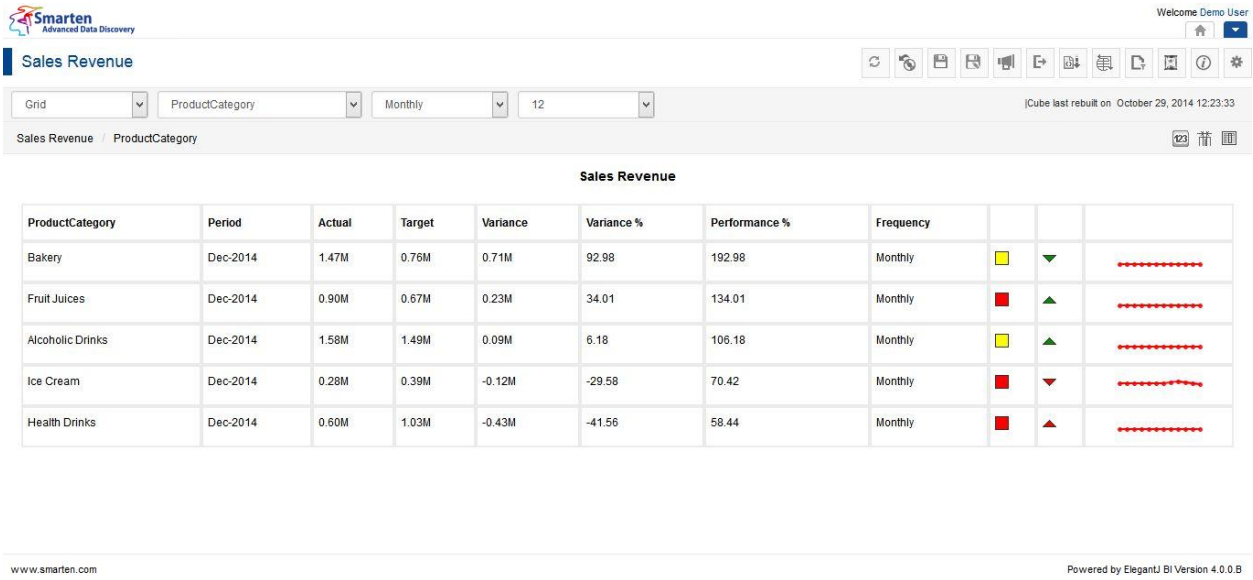
ProductCategory	Period	Actual	Target	Variance	Variance %	Performance %	Frequency				2014 Q1 Actual
Tea	Dec-2014	0.07M	0.53M	-0.46M	-86.33	13.67	Monthly				0.19M
Cool Drinks	Dec-2014	0.06M	0.35M	-0.29M	-82.11	17.89	Monthly				0.22M
Confectionary	Dec-2014	0.18M	0.36M	-0.18M	-50.91	49.09	Monthly				0.26M
Snacks	Dec-2014	0.06M	0.11M	-0.05M	-46.62	53.38	Monthly				0.30M
Health Drinks	Dec-2014	0.60M	1.03M	-0.43M	-41.56	58.44	Monthly				0.56M
Ice Cream	Dec-2014	0.28M	0.39M	-0.12M	-29.58	70.42	Monthly				1.35M
Alcoholic Drinks	Dec-2014	1.58M	1.49M	0.09M	6.18	106.18	Monthly				4.41M
Fruit Juices	Dec-2014	0.90M	0.67M	0.23M	34.01	134.01	Monthly				1.34M
Bakery	Dec-2014	1.47M	0.76M	0.71M	92.98	192.98	Monthly				3.97M

RANK KPI BREAKDOWN ICON

3. In the **Data Columns field,** select a column (either Performance%, Actual, Target, Variance, or Variance%).
4. In the **Rank** field, select rank (either top N or bottom N) and enter a value in the field.
5. Click **OK**.



RANK KPI BREAKDOWN SETTINGS



ProductCategory	Period	Actual	Target	Variance	Variance %	Performance %	Frequency
Bakery	Dec-2014	1.47M	0.76M	0.71M	92.98	192.98	Monthly
Fruit Juices	Dec-2014	0.90M	0.67M	0.23M	34.01	134.01	Monthly
Alcoholic Drinks	Dec-2014	1.58M	1.49M	0.09M	6.18	106.18	Monthly
Ice Cream	Dec-2014	0.28M	0.39M	-0.12M	-29.58	70.42	Monthly
Health Drinks	Dec-2014	0.60M	1.03M	-0.43M	-41.56	58.44	Monthly

KPI BREAKDOWN AFTER RANK

7.7.12 Link Object

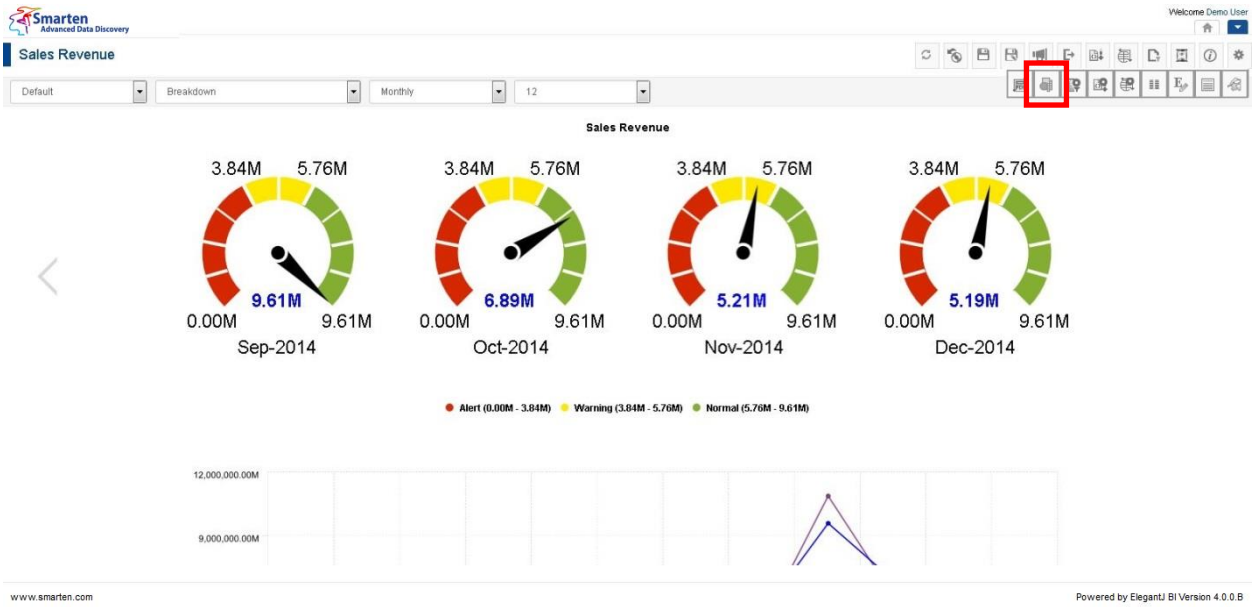
Objects such as **Crosstab**, **Graphs, Tabular,** or **URL** (external websites or other internal web URLs) can be linked with specific KPIs.

For example, detailed **Sales Report** for the performance of each salesperson can be linked to the **Sales Performance** KPI.

7.7.12.1 Managing Link Object

Procedure

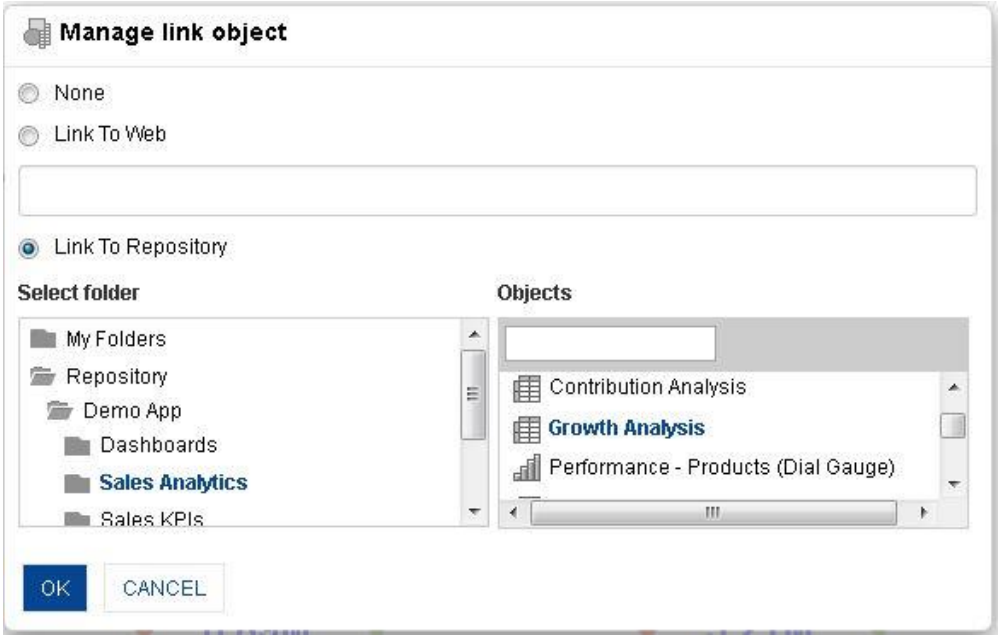
1. In the **Repository**, open KPI.
   The system displays the selected KPI.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.



KPI: MANAGE LINK OBJECT ICON

3. Click **Manage Link Object**.

The system displays the **Manage Link Object** dialog box.

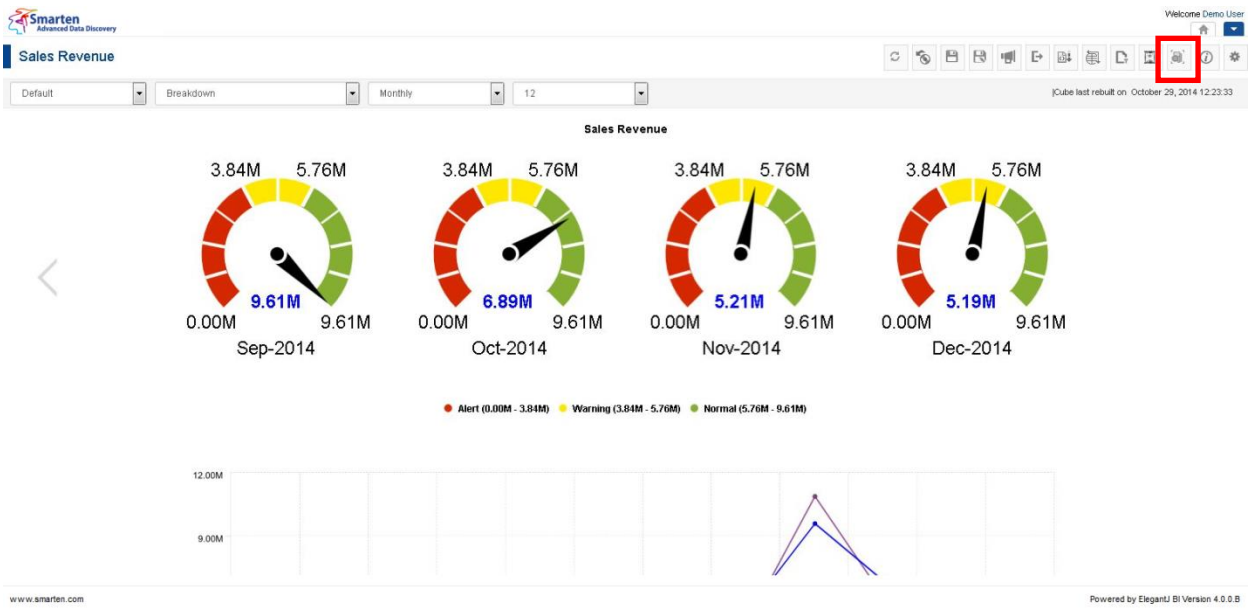


LINK OBJECT SETTING

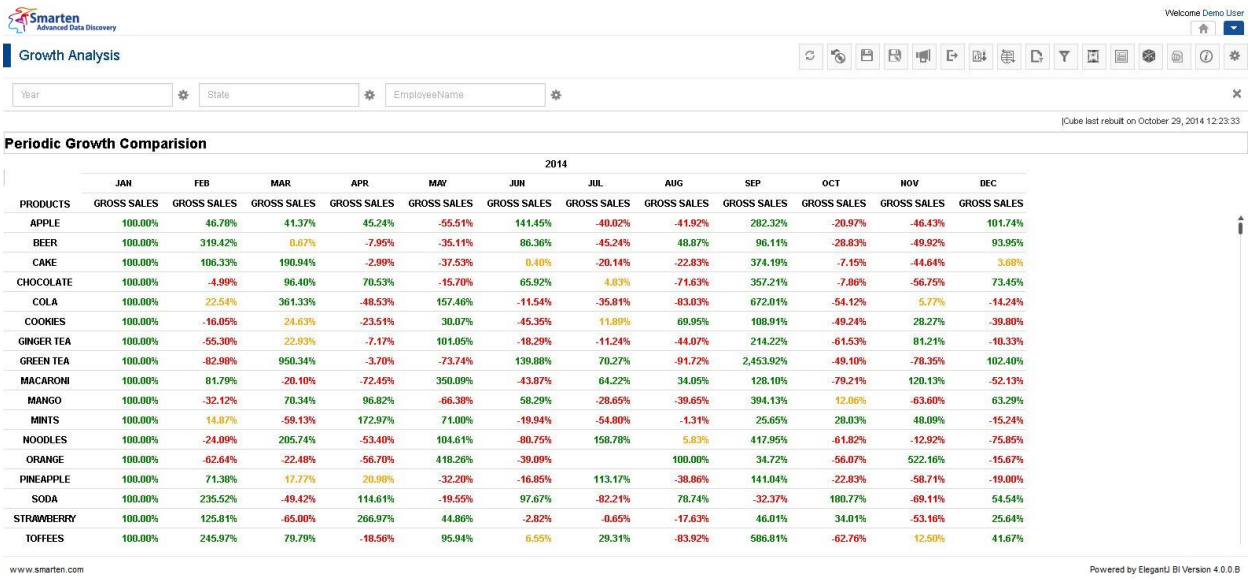
4. Select the **Link To Repository** radio button.
5. In the **Select folder** box, select a folder.
6. In the **Objects** box, select a value.
7. Click **OK**.

7.7.12.2 Opening Link Object

1. Follow the **Procedure** of **Managing Link Object**.
2. In the upper right-hand corner, click **Open link object**.
   The system displays the linked crosstab object.



KPI: OPEN LINK OBJECT ICON



Growth Analysis

Periodic Growth Comparision

	2014											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
PRODUCTS	GROSS SALES	GROSS SALES	GROSS SALES	GROSS SALES	GROSS SALES	GROSS SALES	GROSS SALES	GROSS SALES	GROSS SALES	GROSS SALES	GROSS SALES	GROSS SALES
APPLE	100.00%	46.78%	41.37%	45.24%	-55.51%	141.45%	-40.02%	-41.92%	282.32%	-20.97%	-46.43%	101.74%
BEER	100.00%	319.42%	0.67%	-7.95%	-35.11%	86.36%	-45.24%	48.87%	96.11%	-28.83%	-49.92%	93.95%
CAKE	100.00%	106.33%	190.94%	-2.99%	-37.53%	0.40%	-20.14%	-22.83%	374.19%	-7.15%	-44.64%	3.68%
CHOCOLATE	100.00%	-4.99%	96.40%	70.53%	-15.70%	65.92%	4.83%	-71.63%	357.21%	-7.86%	-56.75%	73.45%
COLA	100.00%	22.54%	361.33%	-48.53%	157.46%	-11.54%	-35.81%	-83.03%	672.01%	-54.12%	5.77%	-14.24%
COOKIES	100.00%	-16.05%	24.63%	-23.51%	30.07%	-45.35%	11.89%	69.95%	108.91%	-49.24%	28.27%	-39.80%
GINGER TEA	100.00%	-55.30%	22.93%	-7.17%	101.05%	-18.29%	-11.24%	-44.07%	214.22%	-61.53%	81.21%	-10.33%
GREEN TEA	100.00%	-82.98%	950.34%	-3.70%	-73.74%	139.88%	70.27%	-91.72%	2,453.92%	-49.10%	-78.35%	102.40%
MACARONI	100.00%	81.79%	-20.10%	-72.45%	350.09%	-43.87%	64.22%	34.05%	128.10%	-79.21%	120.13%	-52.13%
MANGO	100.00%	-32.12%	70.34%	96.82%	-66.38%	58.29%	-28.65%	-39.65%	394.13%	12.06%	-63.60%	63.29%
MINTS	100.00%	14.87%	-59.13%	172.97%	71.00%	-19.94%	-54.80%	-1.31%	25.65%	28.03%	48.09%	-15.24%
NOODLES	100.00%	-24.09%	205.74%	-53.40%	104.61%	-80.75%	158.78%	5.83%	417.95%	-61.82%	-12.92%	-75.85%
ORANGE	100.00%	-62.64%	-22.48%	-56.70%	418.26%	-39.09%		100.00%	34.72%	-56.07%	522.16%	-15.67%
PINEAPPLE	100.00%	71.38%	17.77%	20.98%	-32.20%	-16.85%	113.17%	-38.86%	141.04%	-22.83%	-58.71%	-19.00%
SODA	100.00%	235.52%	-49.42%	114.61%	-19.55%	97.67%	-82.21%	78.74%	-32.37%	180.77%	-69.11%	54.54%
STRAWBERRY	100.00%	125.81%	-65.00%	266.97%	44.86%	-2.82%	-0.65%	-17.63%	46.01%	34.01%	-53.16%	25.64%
TOFFEES	100.00%	245.97%	79.79%	-18.56%	95.94%	6.55%	29.31%	-83.92%	586.81%	-62.76%	12.50%	41.67%

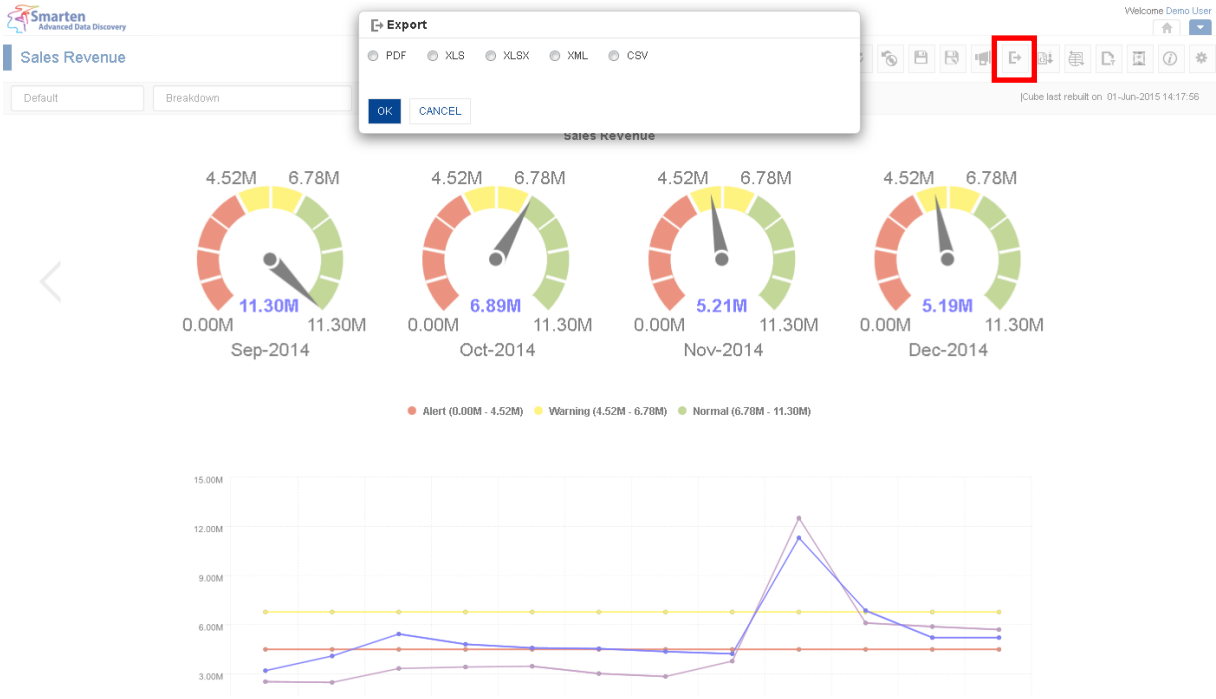
LINKED CROSSTAB OBJECT

7.7.13 Export KPI

KPIs should be transformed and formatted in such a way that they can be further used by other applications. For optimal interoperability with other business applications, KPI and KPI Groups can be exported to PDF, XLS, XLSX, XML, or CSV.

Procedure

1. In the **Repository**, open KPI.
   The system displays the selected KPI.
2. In the KPI toolbar, click **Export.**
   The system displays the **Export** dialog box.
3. Select the desired radio button (PDF, XLS, XLSX, XML, or CSV).
4. Click **OK.**



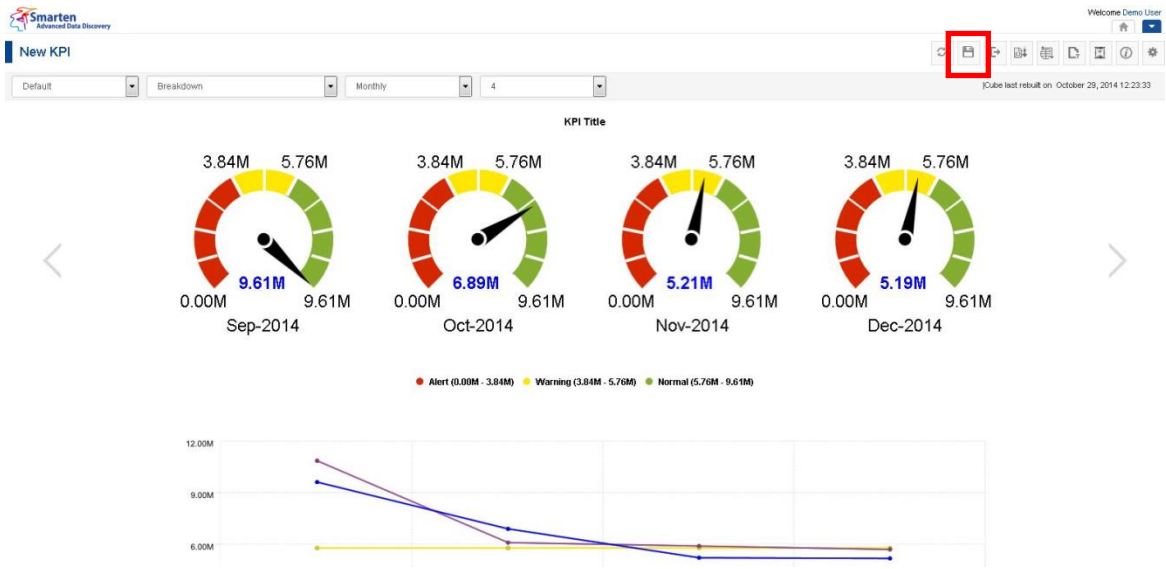
KPI: EXPORT ICON & DIALOG

> Note:
> While exporting report to XLS, the applied colour format might not match since Excel supports limited colours.

7.7.14 Save KPIs

You have the following functions to Save KPIs / KPI Groups:

- Save
- Save As



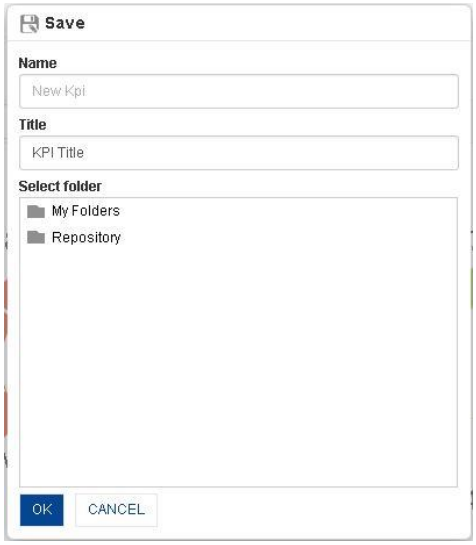
KPI: SAVE ICON

7.7.14.1 Save

You can either create and save a new KPI or modify and save an existing KPI.

Procedure

1. Follow the 3 steps of creating KPI. Refer to section *Individual KPI* or open any KPI from the Repository.
2. In the KPI toolbar, click **Save.**
   The system displays the **Save** dialog box.



KPI: SAVE DIALOG

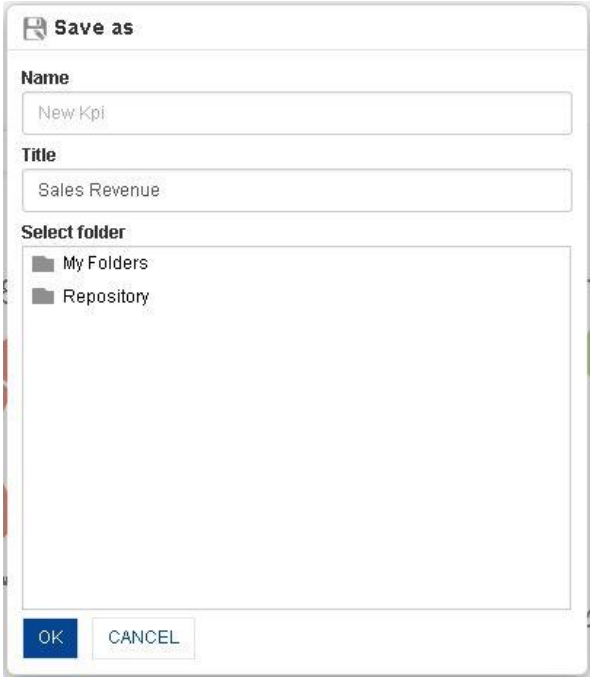
3. In the **Name** field, enter a name.
4. In the **Title** field, enter a title.
5. In the **Select Folder** box, choose a folder.
6. Click **OK**.
   The system displays the newly saved KPI.

7.7.14.2 Save As

You can use this option to save a copy of an existing KPI with a new name.

Procedure

1. Follow the **Procedure** of **Save** given above.
2. In the KPI toolbar, click **Save as.**
   The system displays the **Save as** dialog box.



KPI: SAVE AS DIALOG

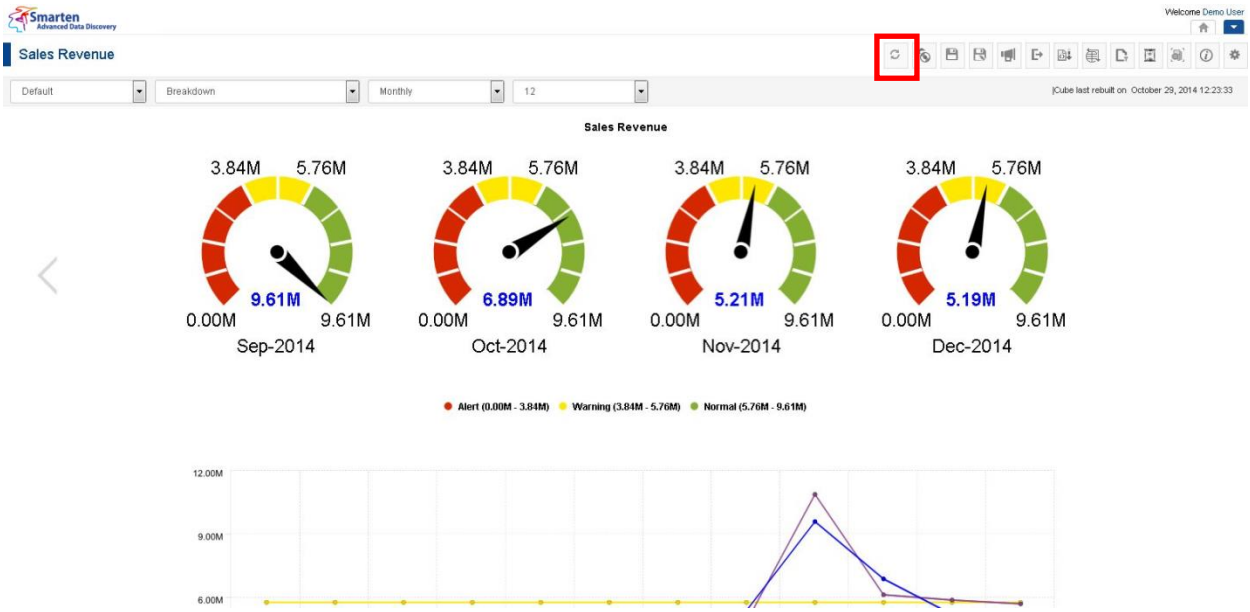
1. In the **Name** field, enter a name.
2. In the **Title** field, enter a title.
   The system displays the **Save as** dialog box.
3. In the **Select Folder** box, choose a folder.
4. Click **OK.**
   The system displays a copy of an existing KPI with a new name.

7.7.15 Refresh KPIs

You can use this option to update/refresh KPI and KPI Group objects in Smarten from the cube. If you need to reload fresh data from cube, this feature would be helpful.

Procedure

1. In the **Repository**, open KPI.
   The system displays the selected KPI.
2. In the KPI toolbar, click **Refresh.**



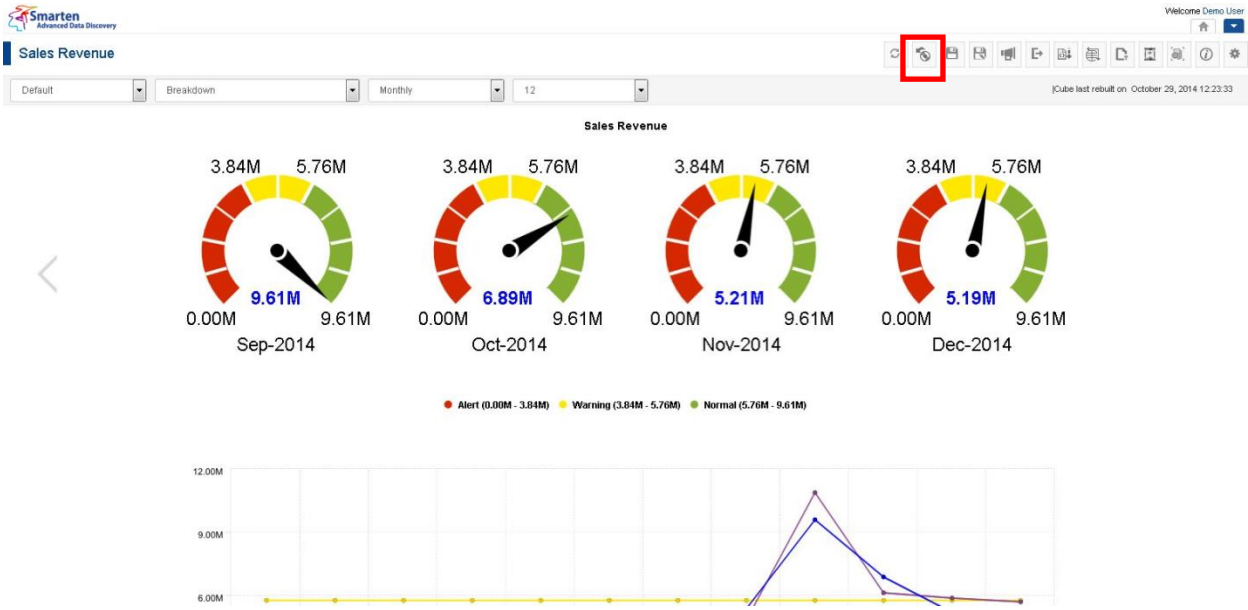
KPI: REFRESH ICON

7.7.16 Restore KPIs

You can use this option to restore the last saved version of KPI without loading fresh data from the cube version.

Procedure

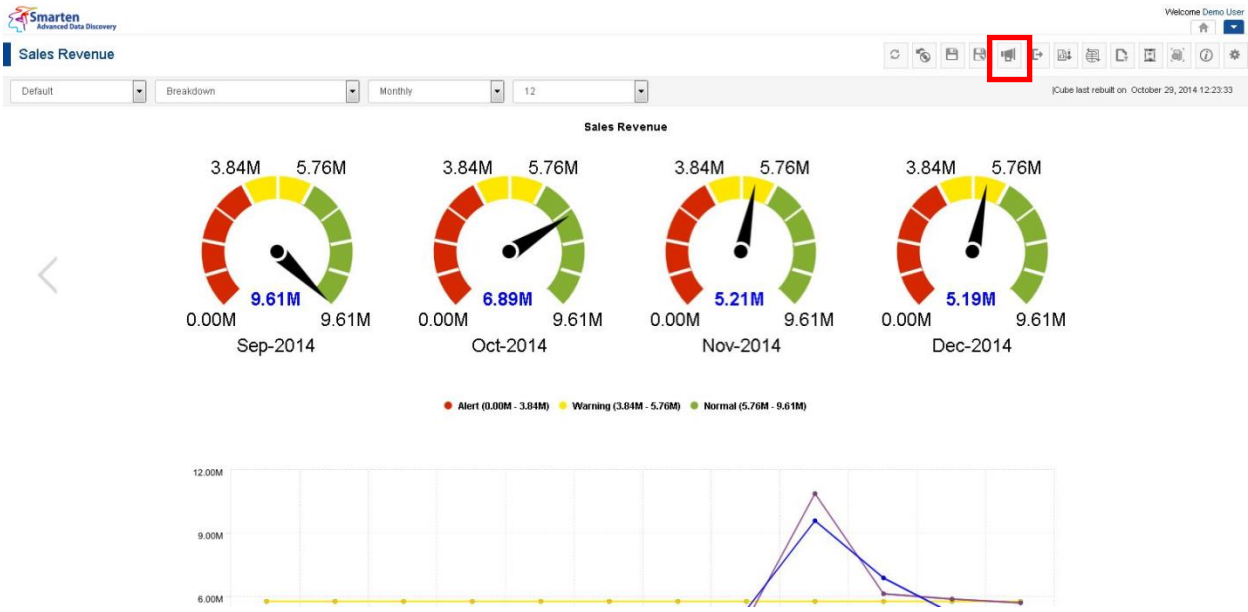
1. In the **Repository**, open KPI.
   The system displays the selected KPI.
2. In the KPI toolbar, click **Restore.**



KPI: RESTORE ICON

7.7.17 Publish now

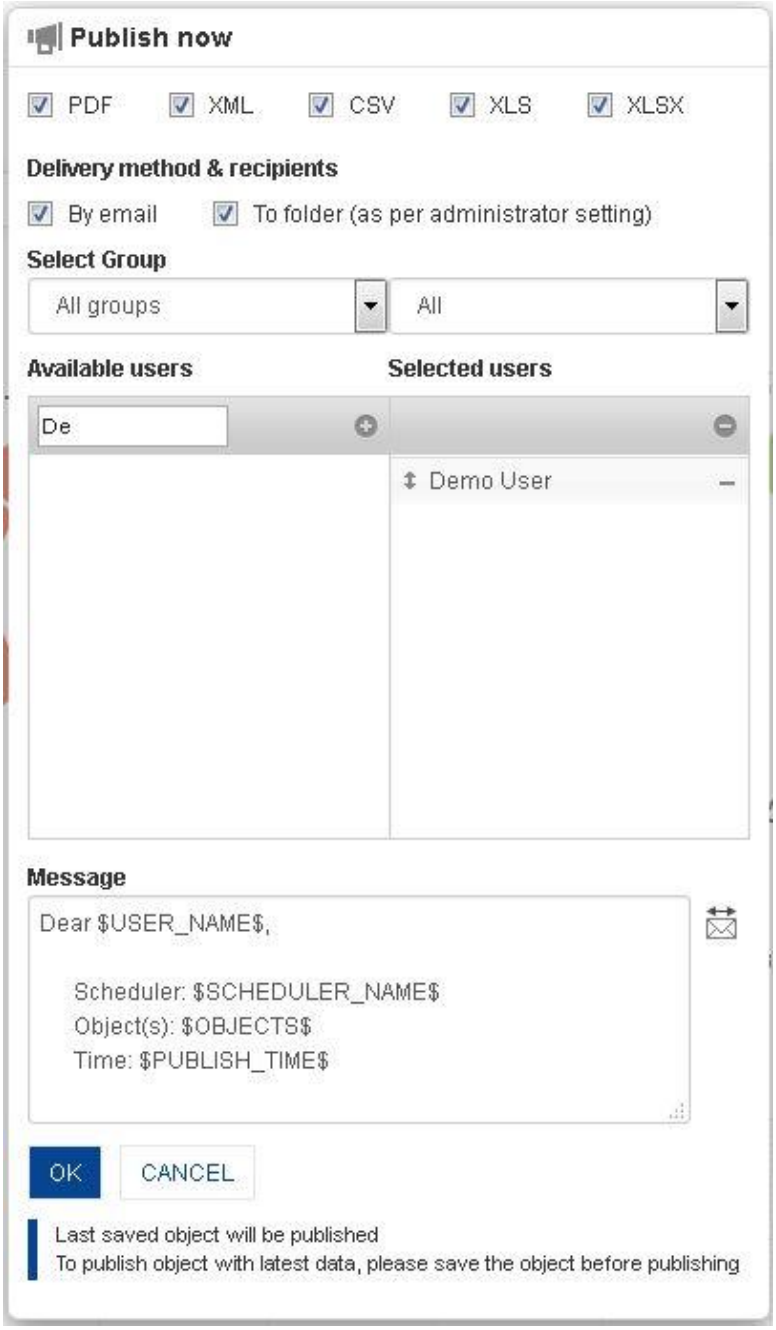
The Publish now tool can automatically query the cubes, update KPIs, and deliver exported KPIs in **PDF**, **JPG,** and **XLS** and KPI Sets in **CSV**, **XML**, **PDF**, **JPG,** and **XLS** formats to you via folders and email. So you can now have ready and convenient access to critical business information anytime, anywhere.



KPI: PUBLISH NOW ICON

Procedure

1. In the **Repository**, open KPI.
   The system displays the selected KPI.
2. In the KPI toolbar, click **Publish now.**
   The system displays the **Publish now** dialog box.

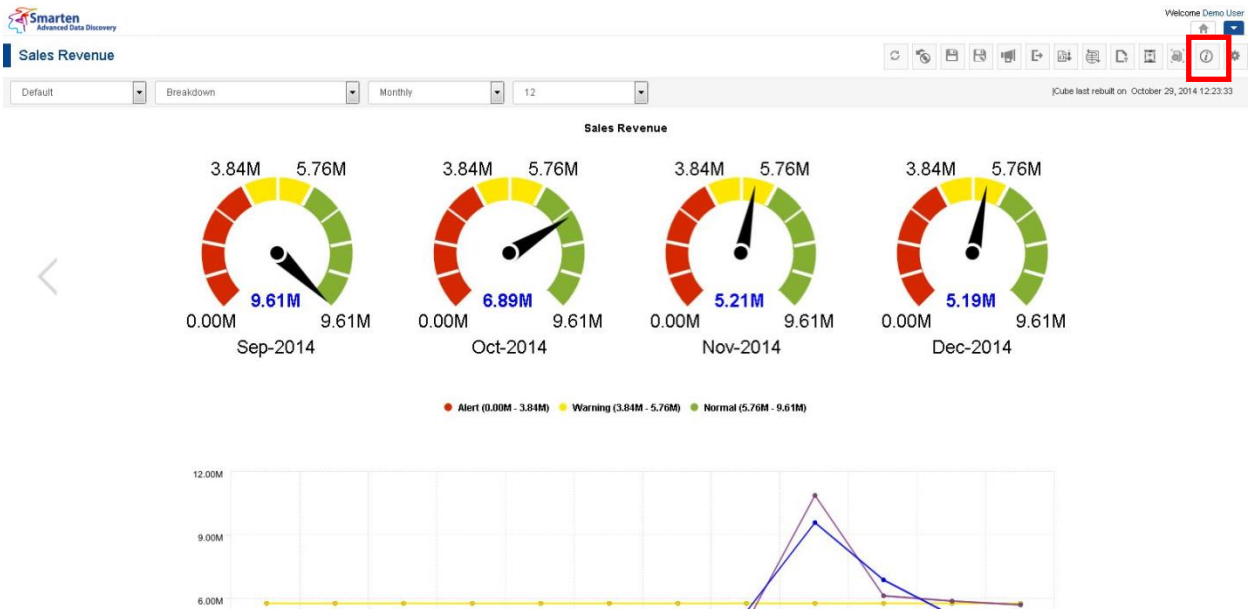


KPI: PUBLISH NOW SETTINGS

3. In the **Publish now** dialog box, select the checkbox to choose the output type (PDF, CSV, XML, XLS, or XLXS).
4. In the **Delivery method & recipients** section, select the checkbox(es) (by email and to folder).
5. In the **Select group** section, select the group from the drop-down list.
   The system displays the list of users in the **Available users** column according to the group selected.
6. In the **Available users** column, select the users. System displays list of users as per access rights policy defined by Administrator.
   The system displays the selected users in the **Selected users** column.
7. In the **Message** box, enter the message.
8. Click **OK.**

7.7.18 Object information

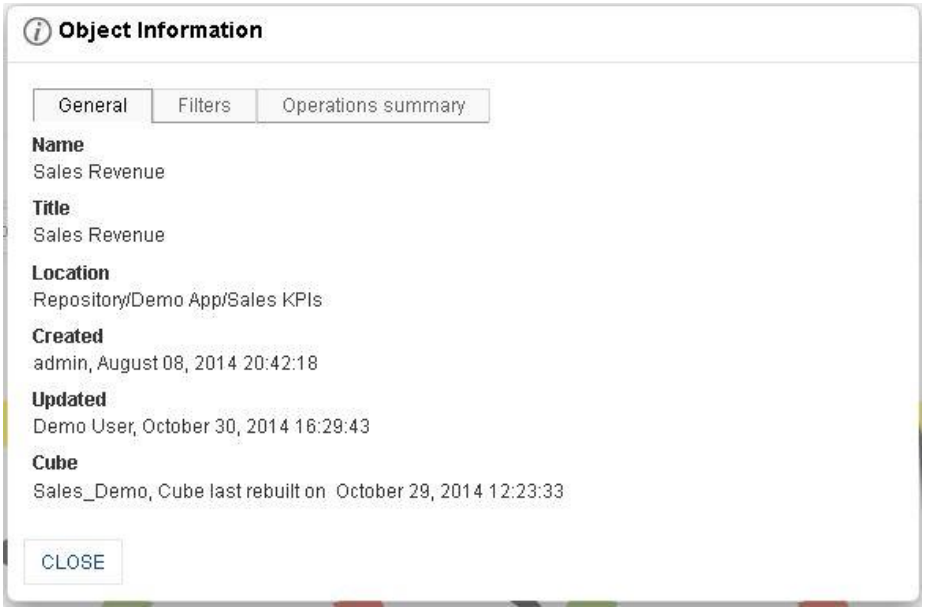
Object information displays meta information along with filters, operations, and cubes columns usage within an object.



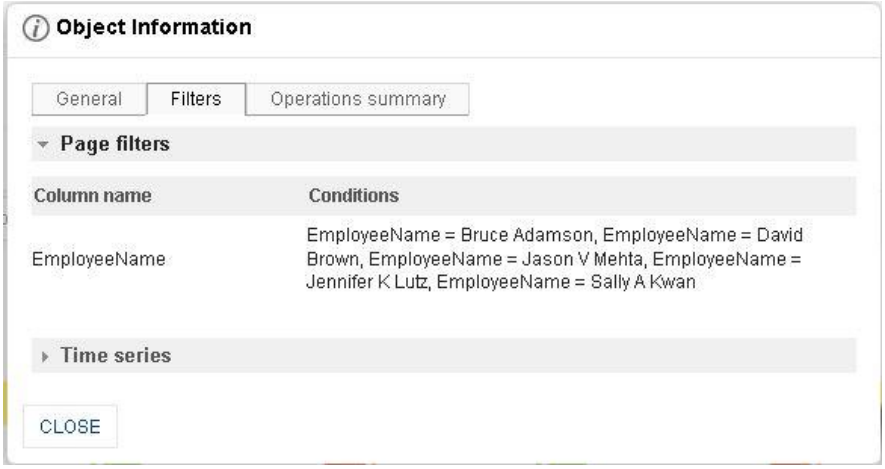
KPI: OBJECT INFORMATION ICON

Procedure

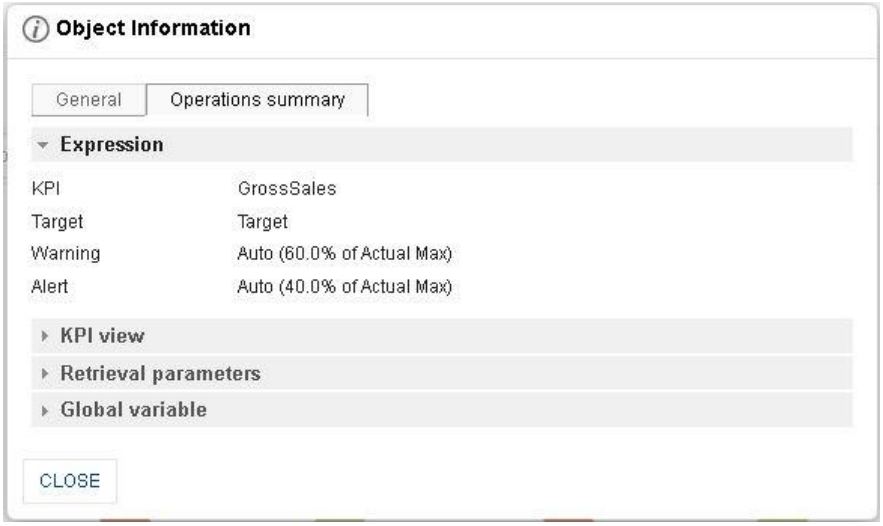
1. In the **Repository**, open KPI.
   The system displays the selected KPI.
2. In the KPI toolbar, click **Object information.**
   The system displays the **Object information** dialog box with various information displayed in the three tabs, namely General, Filters, and Operations summary, as shown below.



OBJECT INFORMATION: GENERAL TAB



OBJECT INFORMATION: FILTER TAB



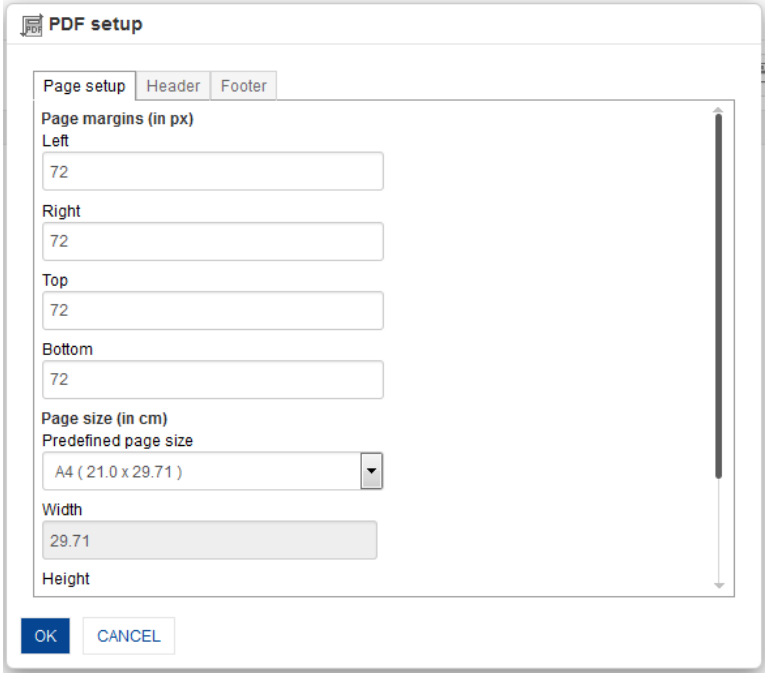
OBJECT INFORMATION: OPERATIONS SUMMARY TAB

3. Click **Close** after viewing the information.

7.7.19 PDF Page setup

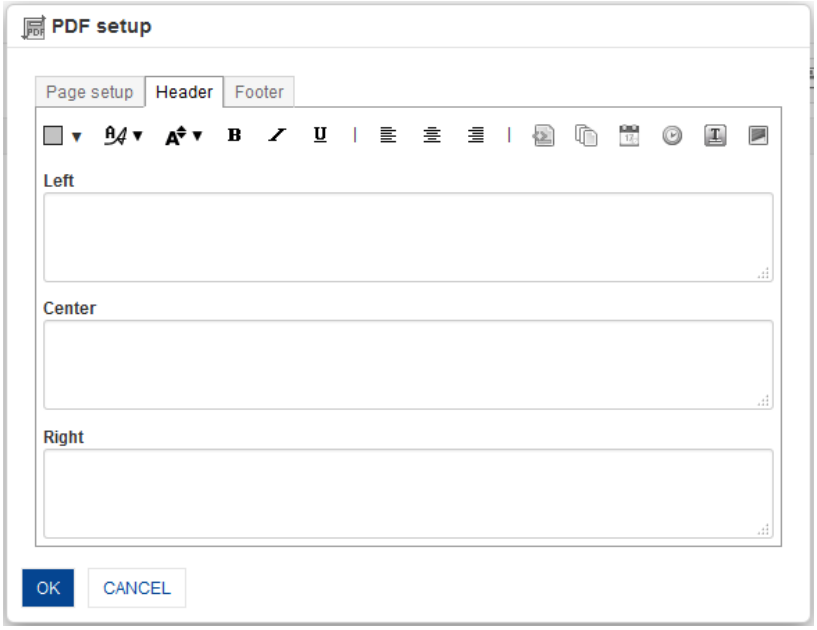
Procedure

1. In the **Repository**, open KPI.
   System displays the selected KPI.
2. In the upper right-hand corner, click **Setting.**
   System displays the Setting Toolbar.
3. Click **PDF setup.**
   System displays the **PDF setup** dialog box.



PDF SETUP: PAGE SETUP

4. **Page setup:**
   - Enter **Page Margins** to set top, bottom, left, and right margins for page.
   - From the **Predefined page size** drop-down list, select size.
   - Customize the **Height** and **Width** for page
   - Select the page orientation, either **Portrait** or **Landscape.**

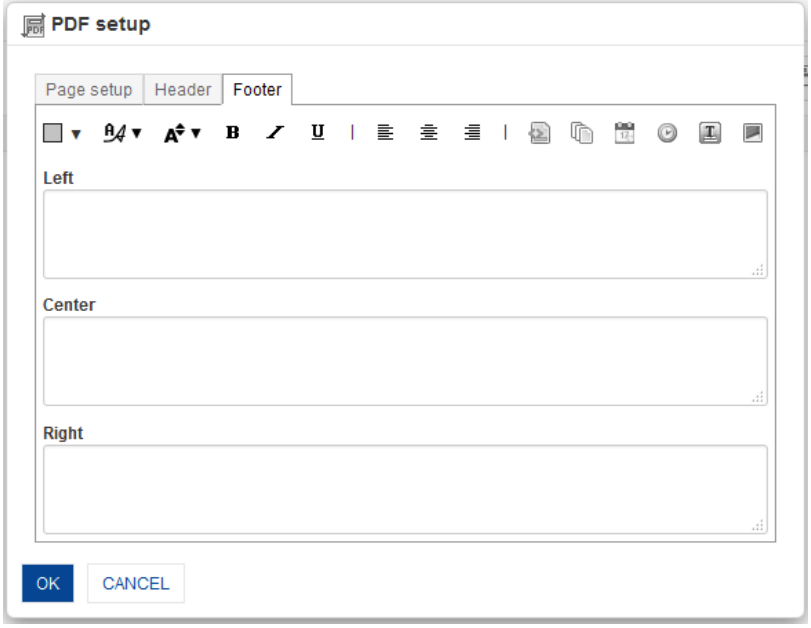


PDF SETUP: HEADER

5. **Header:**
   - Enter values or variables required for left, centre and right sections of the header.
     You can select Page Number, Number of Pages, Date, Time, Object Title and Image as variable.
     You can also add custom text along with variables.

     Some examples:

Report Date: $DATE$ $TIME$
Page: $PAGE_NUMBER$ of $TOTAL_PAGES$



PDF SETUP: FOOTER

6. **Footer:**
   - Enter values or variables required for left, centre and right sections of the footer.
     You can select Page Number, Number of Pages, Date, Time, Object Title and Image as variable.
     You can also add custom text along with variables.

     Some examples:
     Report Date: $DATE$ $TIME$
     Page: $PAGE_NUMBER$ of $TOTAL_PAGES$
7. Click **OK**.

Tools	Description
	Font Colour
	Font Name
	Font Size
	Bold Style
	Italic Style
	Underline
	Left Alignment
	Centre Alignment
	Right Alignment

PDF SETUP TOOLBAR: FORMATTING OPTIONS

Tools		Description
	Page Number	Current Page Number
	Number of Pages	Total Number of Pages

	Date	Current Date on which object is exported
	Time	Current Time when object is exported
	Object Title	Title saved in object
	Image	Company logo or any other Image

PDF SETUP TOOLBAR: HEADER/FOOTER VARIABLES

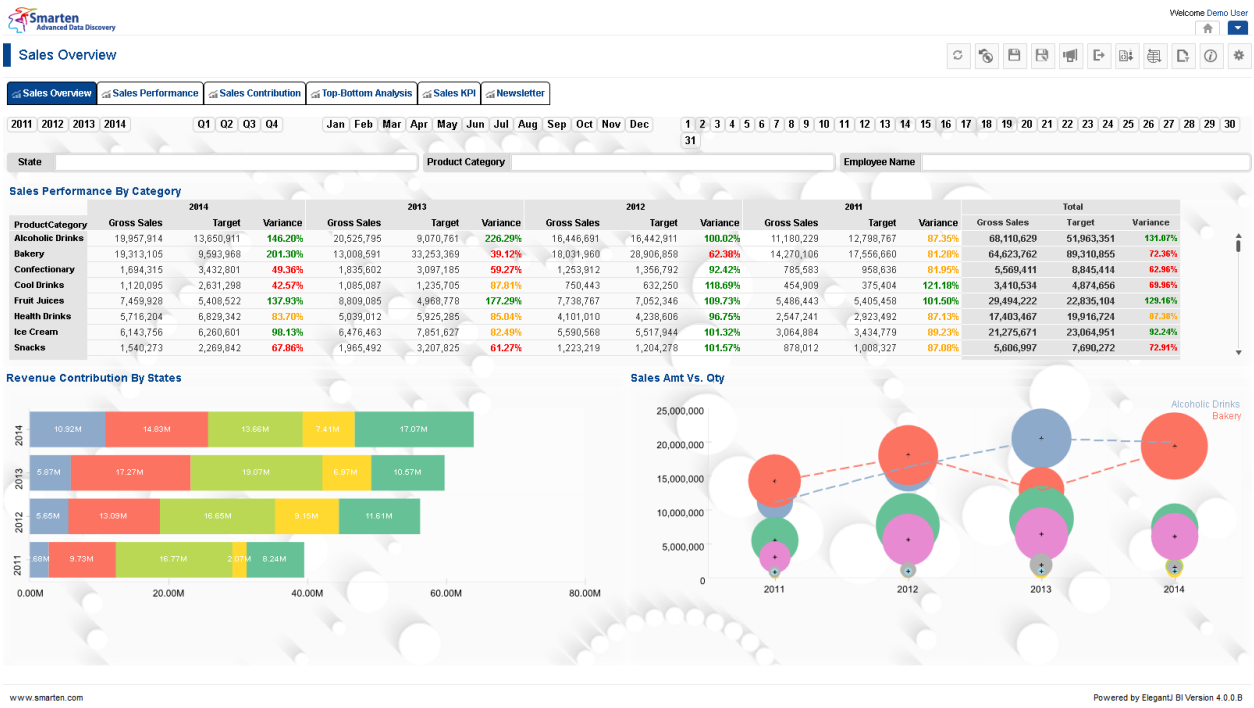
8. Working with Dashboard

This chapter describes how to design and use dashboards. Smarten Dashboards provide an interactive snapshot view of data using cross-tabs, tabular, graphs, GeoMap, KPIs, and various filters. These dashboards are rendered with responsive and fixed-size design concept.

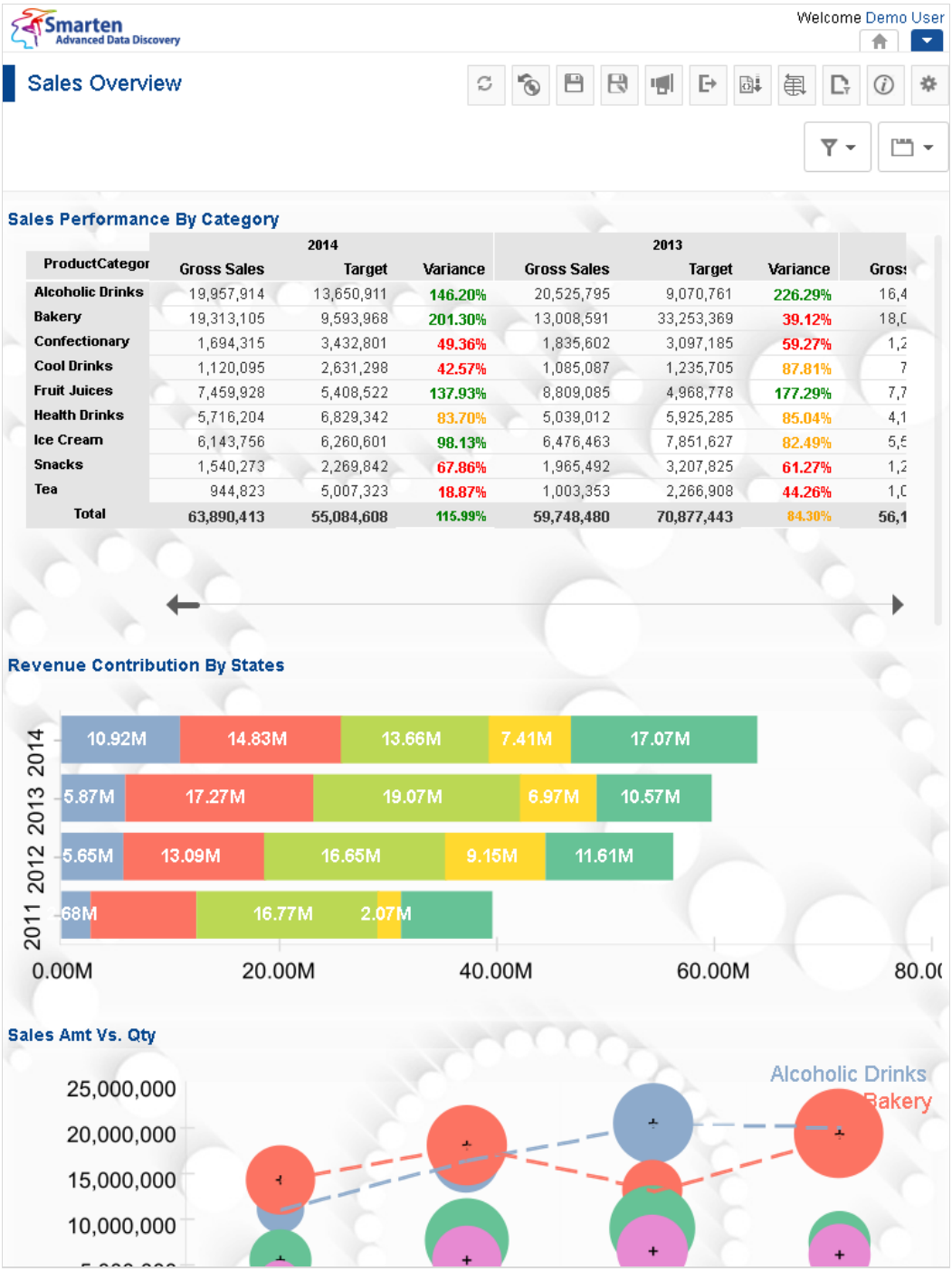
Responsive dashboard design

Responsive design concept provide a “Design once, Use anywhere” theme in the true sense. Designers do not need to design different dashboards for different devices. You just design it once and the system will generate dashboards based on target device for seamless user experience across devices.

The following images demonstrate how Smarten responsive dashboard renders differently in different target devices.

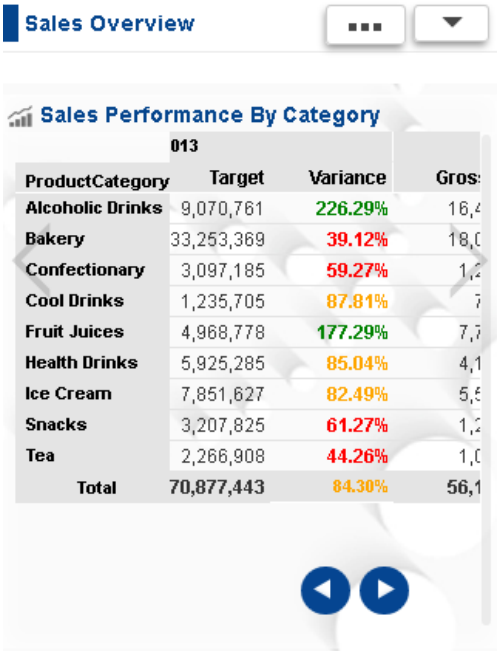


DASHBOARD—DESKTOP VIEW

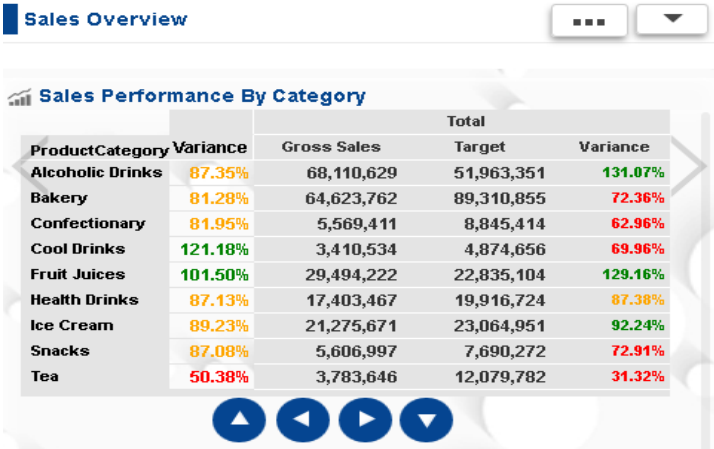


ProductCategor	2014 Gross Sales	2014 Target	2014 Variance	2013 Gross Sales	2013 Target	2013 Variance	Gross
Alcoholic Drinks	19,957,914	13,650,911	146.20%	20,525,795	9,070,761	226.29%	16,4
Bakery	19,313,105	9,593,968	201.30%	13,008,591	33,253,369	39.12%	18,0
Confectionary	1,694,315	3,432,801	49.36%	1,835,602	3,097,185	59.27%	1,2
Cool Drinks	1,120,095	2,631,298	42.57%	1,085,087	1,235,705	87.81%	7
Fruit Juices	7,459,928	5,408,522	137.93%	8,809,085	4,968,778	177.29%	7,7
Health Drinks	5,716,204	6,829,342	83.70%	5,039,012	5,925,285	85.04%	4,1
Ice Cream	6,143,756	6,260,601	98.13%	6,476,463	7,851,627	82.49%	5,5
Snacks	1,540,273	2,269,842	67.86%	1,965,492	3,207,825	61.27%	1,2
Tea	944,823	5,007,323	18.87%	1,003,353	2,266,908	44.26%	1,0
Total	63,890,413	55,084,608	115.99%	59,748,480	70,877,443	84.30%	56,1

DASHBOARD—TABLET VIEW



DASHBOARD—SMARTPHONE: PORTRAIT VIEW



DASHBOARD—SMARTPHONE: LANDSCAPE VIEW

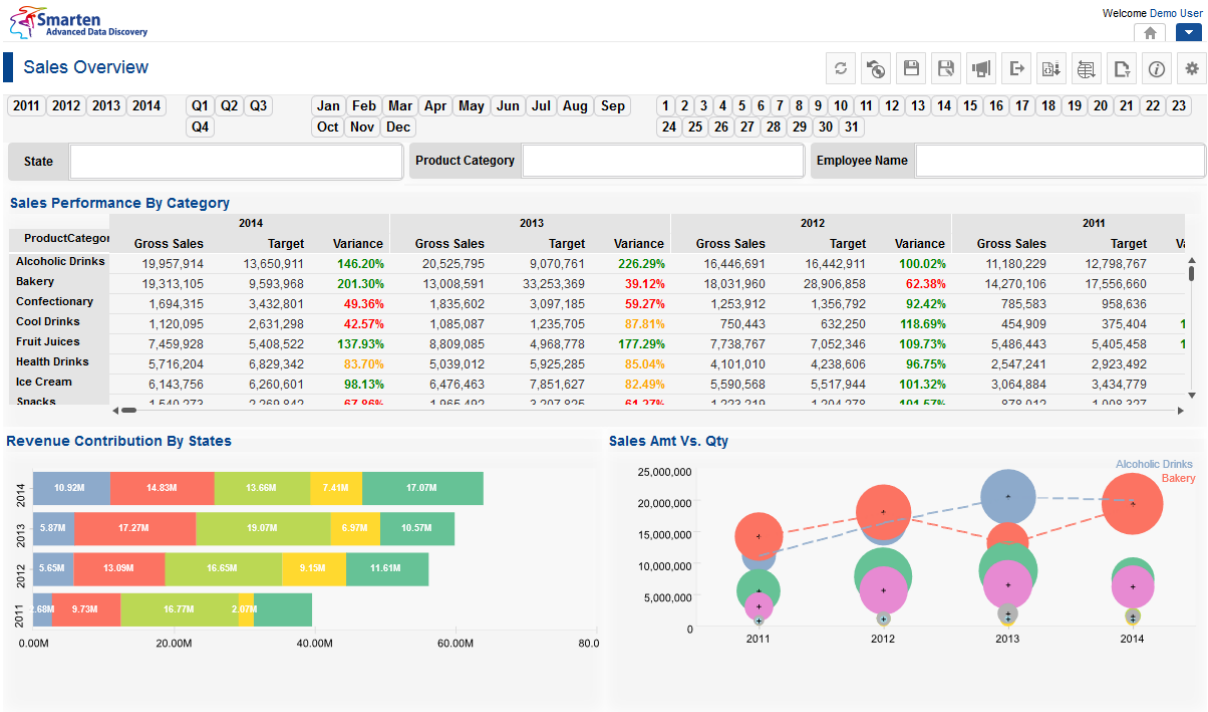
For more details on responsive design concept and guidelines:

Reference: **Responsive Design Concept Manual**

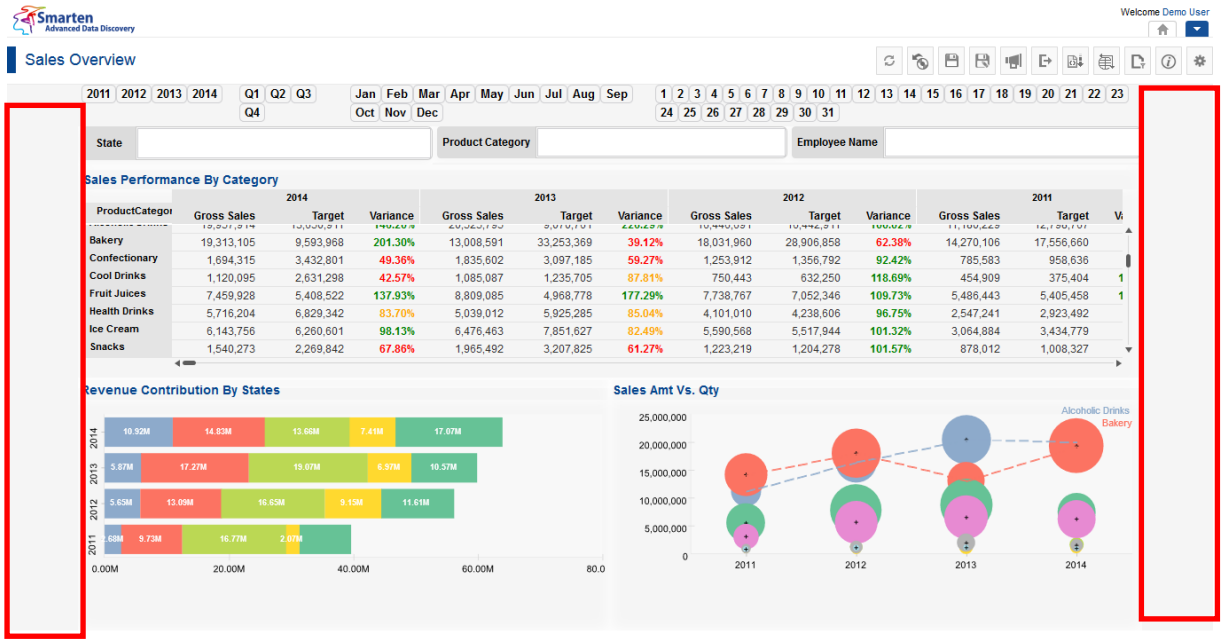
Fixed-size dashboard design

Fixed-size dashboards (fixed width and height in pixels) will be rendered in fixed width and height without any changes in section / object size and positions.

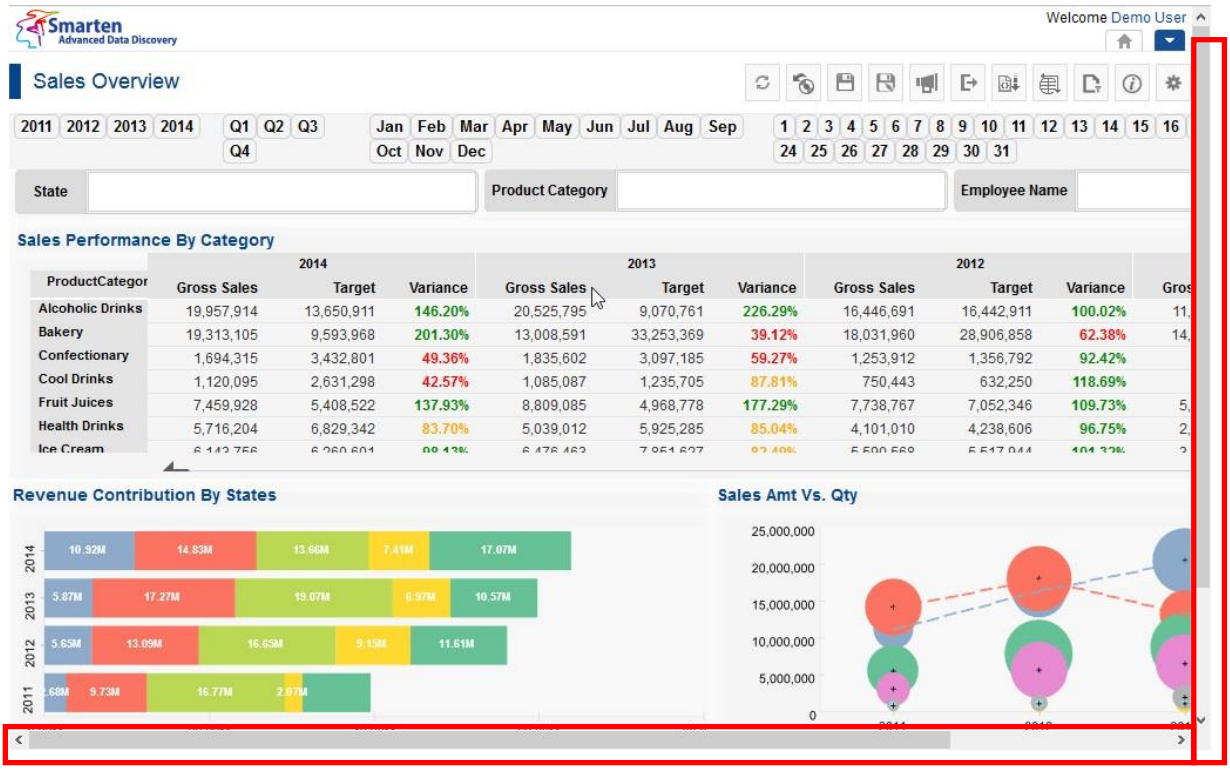
The following images demonstrate how Smarten fixed-size dashboard created with size 1200px (width) x 800px (height) renders in different screen resolution and different target devices.



FIXED-SIZE DASHBOARD—DASHBOARD SIZE 1200 X 800 PIXELS, DISPLAY SCREEN SIZE 1200 X 800 PIXELS



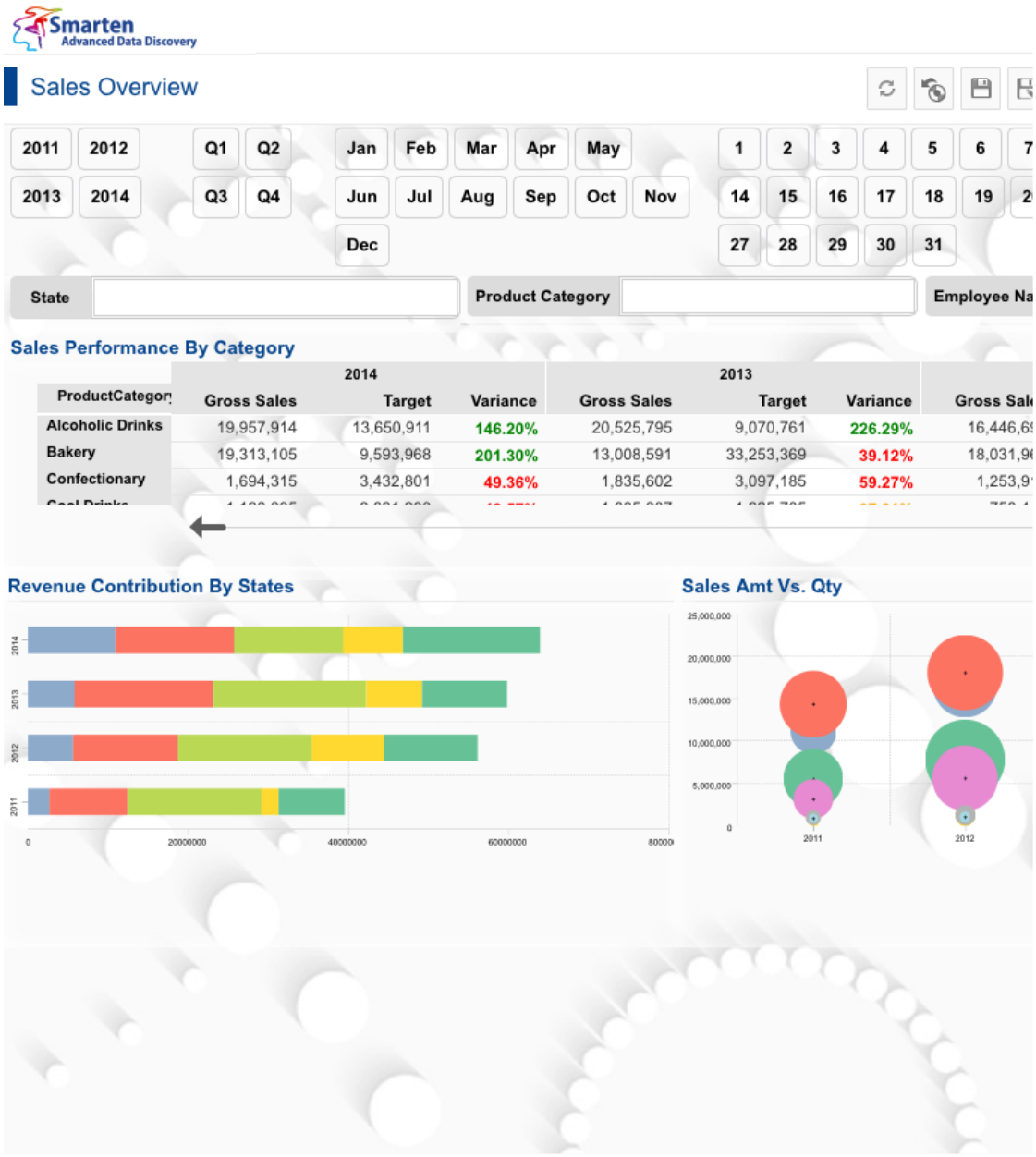
FIXED-SIZE DASHBOARD—DASHBOARD SIZE 1200 X 800 PIXELS, DISPLAY SCREEN SIZE 1300 X 900 PIXELS



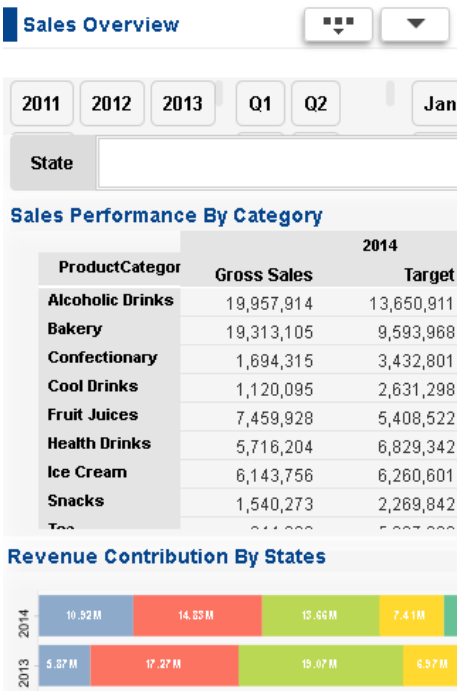
ProductCategor	2014 Gross Sales	2014 Target	2014 Variance	2013 Gross Sales	2013 Target	2013 Variance	2012 Gross Sales	2012 Target	2012 Variance
Alcoholic Drinks	19,957,914	13,650,911	146.20%	20,525,795	9,070,761	226.29%	16,446,691	16,442,911	100.02%
Bakery	19,313,105	9,593,968	201.30%	13,008,591	33,253,369	39.12%	18,031,960	28,906,858	62.38%
Confectionary	1,694,315	3,432,801	49.36%	1,835,602	3,097,185	59.27%	1,253,912	1,356,792	92.42%
Cool Drinks	1,120,095	2,631,298	42.57%	1,085,087	1,235,705	87.81%	750,443	632,250	118.69%
Fruit Juices	7,459,928	5,408,522	137.93%	8,809,085	4,968,778	177.29%	7,738,767	7,052,346	109.73%
Health Drinks	5,716,204	6,829,342	83.70%	5,039,012	5,925,285	85.04%	4,101,010	4,238,606	96.75%
Ice Cream	6,143,756	6,260,601	98.13%	6,476,463	7,951,627	82.40%	5,590,568	5,517,044	101.33%

FIXED-SIZE DASHBOARD—DASHBOARD SIZE 1200 X 800 PIXELS, DISPLAY SCREEN SIZE 1027 X 768 PIXELS

Users also have the option to render these fixed-size dashboards as per responsive layout in tablet and smartphones.



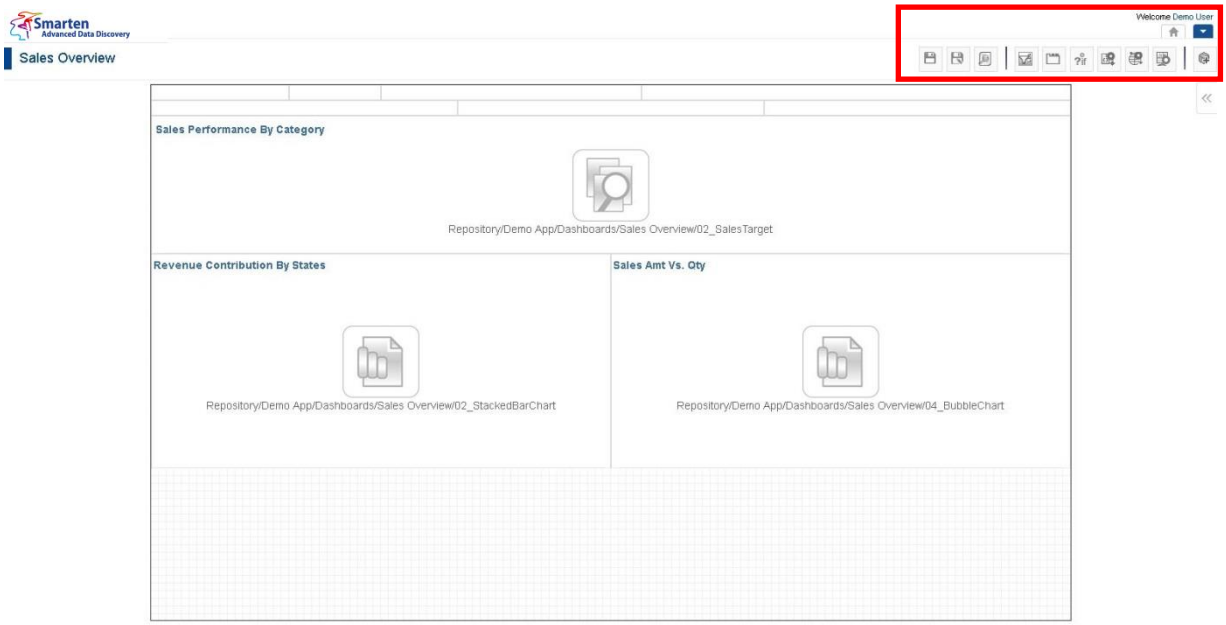
FIXED-SIZE DASHBOARD IN TABLET WITH FIXED-SIZE VIEW



FIXED-SIZE DASHBOARD IN MOBILE WITH FIXED-SIZE VIEW

8.1 Becoming Familiar with Dashboard Toolbar

The Dashboard Menu consists of icons for various operations in design and preview mode for dashboards.

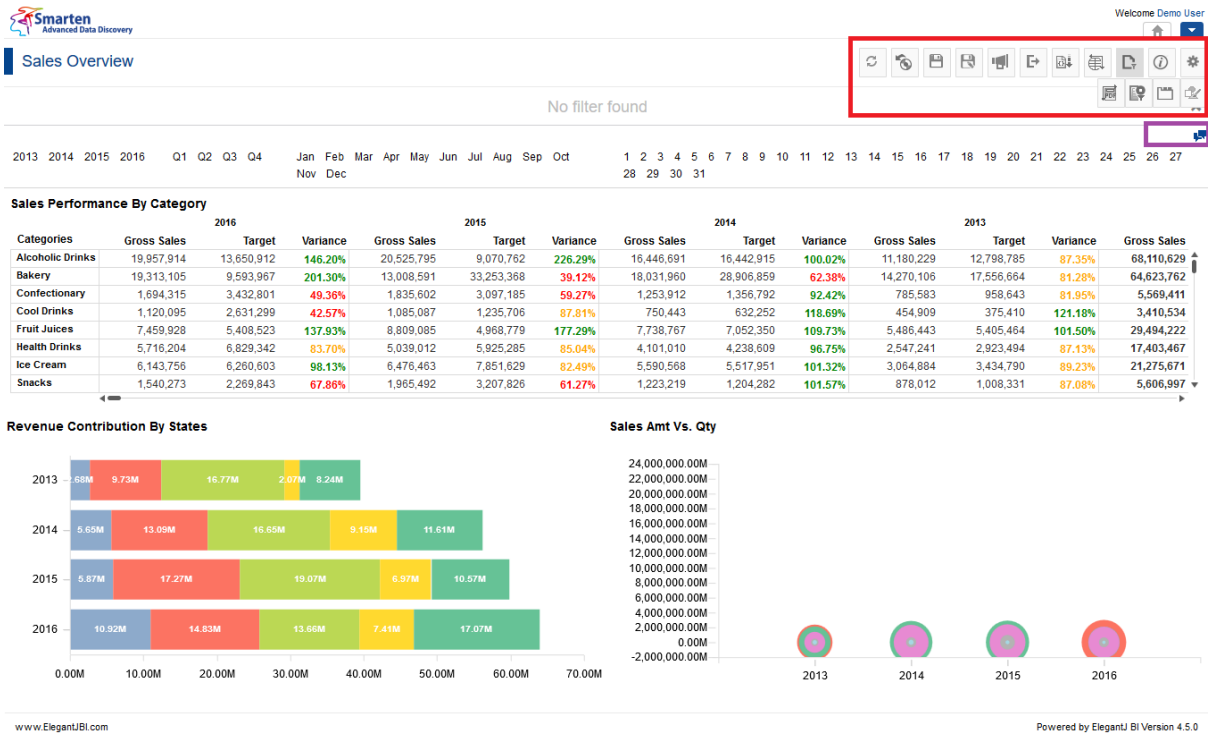


DASHBOARD TOOLBAR—DESIGN MODE

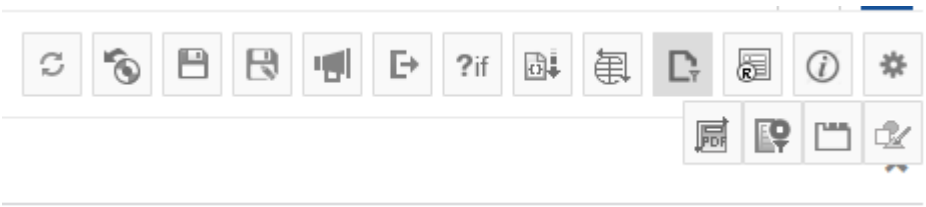
DASHBOARD TOOLBAR – DESIGN MODE

Icon	Icon name
	Save
	Save as
	Preview
	Manage filter associations
	Manage tabs
	Select What-if variables
	Manage retrieval parameters
	Manage global variables
	Dashboard properties
	Add section

DASHBOARD TOOLBAR—DESIGN MODE OPTIONS



DASHBOARD TOOLBAR—PREVIEW MODE



DASHBOARD TOOLBAR—PREVIEW MODE

Icon	Icon name
	Refresh
	Restore
	Save
	Save as
	Publish now
	Export
?if	What-if
	Retrieval Parameters
	Global variables
	Page filter
	R script parameters
	Object information
	Setting
	Manage page filters
	Manage tabs
	Design mode

DASHBOARD TOOLBAR—PREVIEW MODE OPTIONS

The dashboard information bar displays the comments icon.

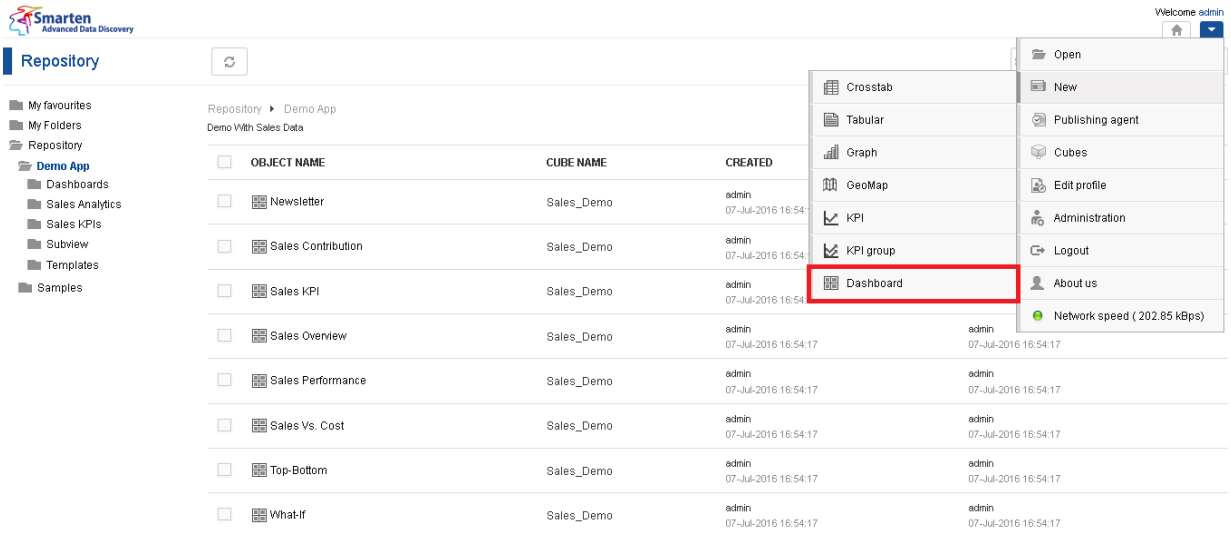
DASHBOARD INFORMATION BAR

8.2 Creating New Dashboard

You can design new dashboards with easy-to-use, drag-and-drop interface. You do not need to design dashboards for different target devices. You just design it once and then the system will automatically render dashboards based on target devices for optimum user experience across devices—that is “Design once, Use anywhere” theme in the true sense.

Procedure

1. In the upper right-hand corner, click the **down arrow** icon.
2. The system displays the Main Menu.
3. In the Main Menu, mouse over on **New**.
4. The system displays the Submenu.



CREATE DASHBOARD

5. Click **Dashboard**.

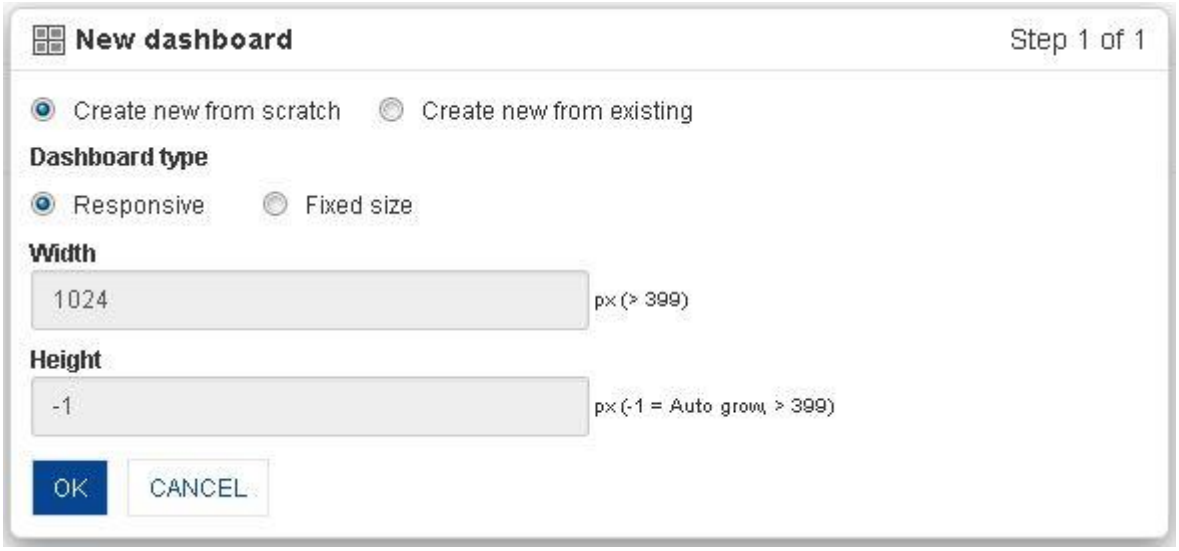
New dashboard can be designed from scratch or based on theme of any existing dashboard.

8.2.1 Creating new from scratch

Create new from scratch with responsive option

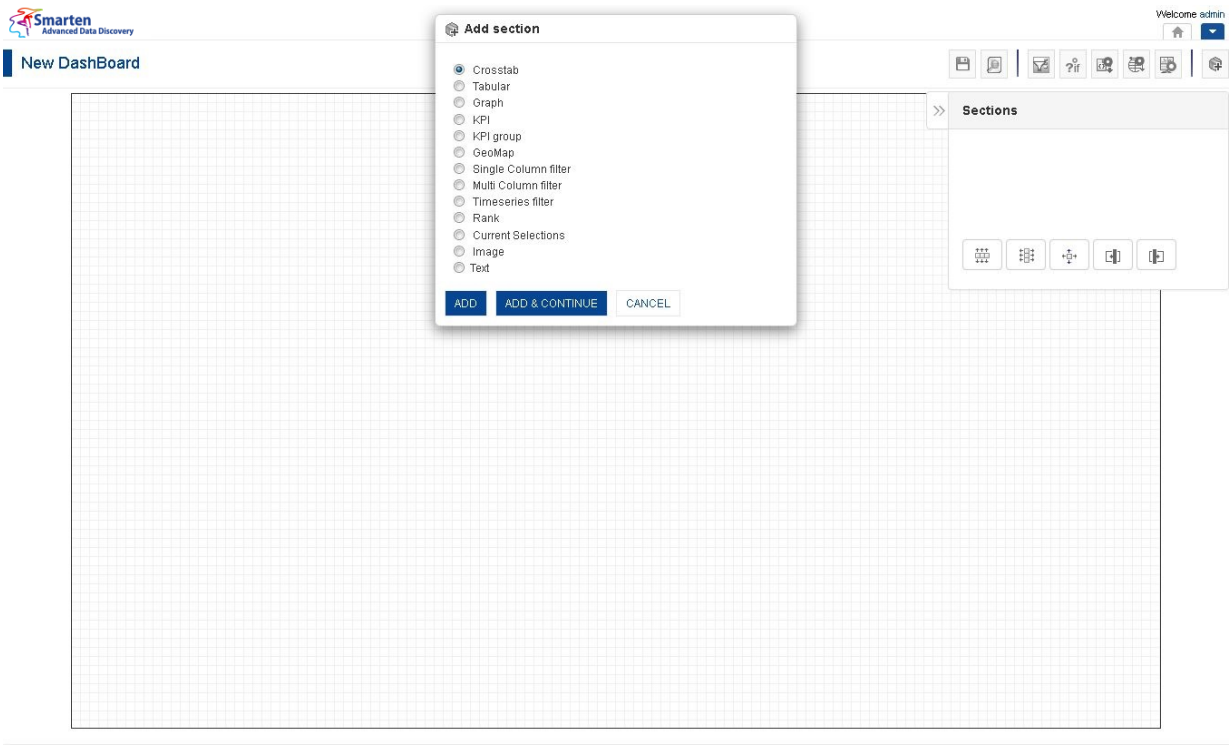
Procedure

1. Follow the **Procedure** of **Creating dashboard**.
   The system displays the **New dashboard** dialog box.



DASHBOARD: CREATE NEW FROM SCRATCH WITH RESPONSIVE OPTION

2. Click **Create new from scratch** radio button.
3. In the **Dashboard type** field, select **Responsive** radio option.
4. Click **OK**.
   The system displays the **Add section** dialog box.



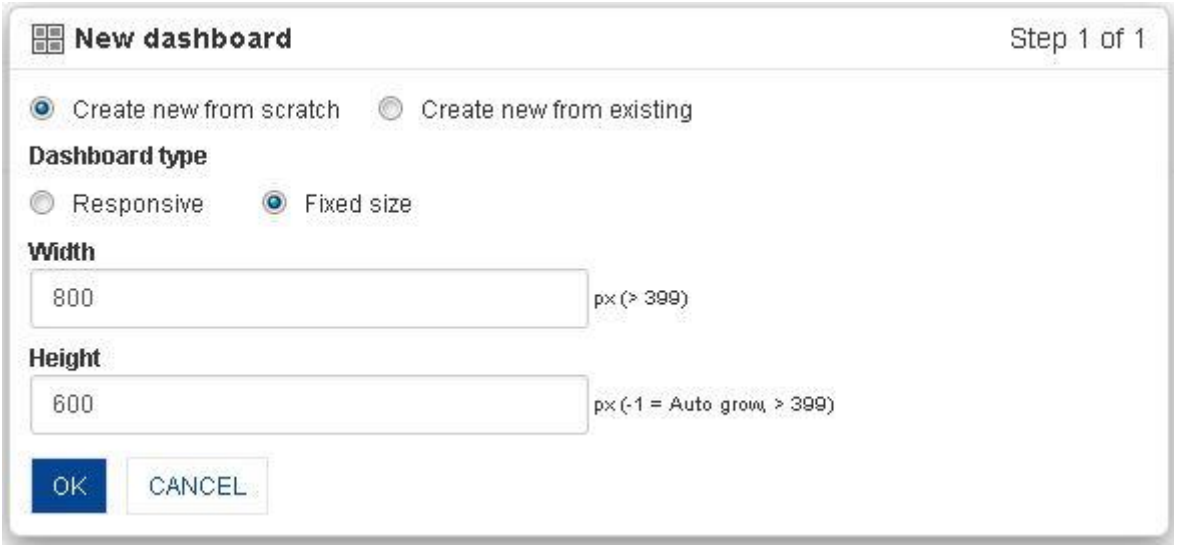
DASHBOARD: WORK AREA

5. Click the required radio button from the available options (Crosstab, Tabular, Graph, GeoMap, KPI, KPI group, Single Column filter, Multicolumn filter, Time series Filter, Rank, Current Selections, Image, and Text).
6. Click **ADD & CONTINUE** to add another section to the dashboard.
7. Click **ADD**.
8. The system displays the selected sections in the dashboard with default layout.

Create new from scratch with fixed size option

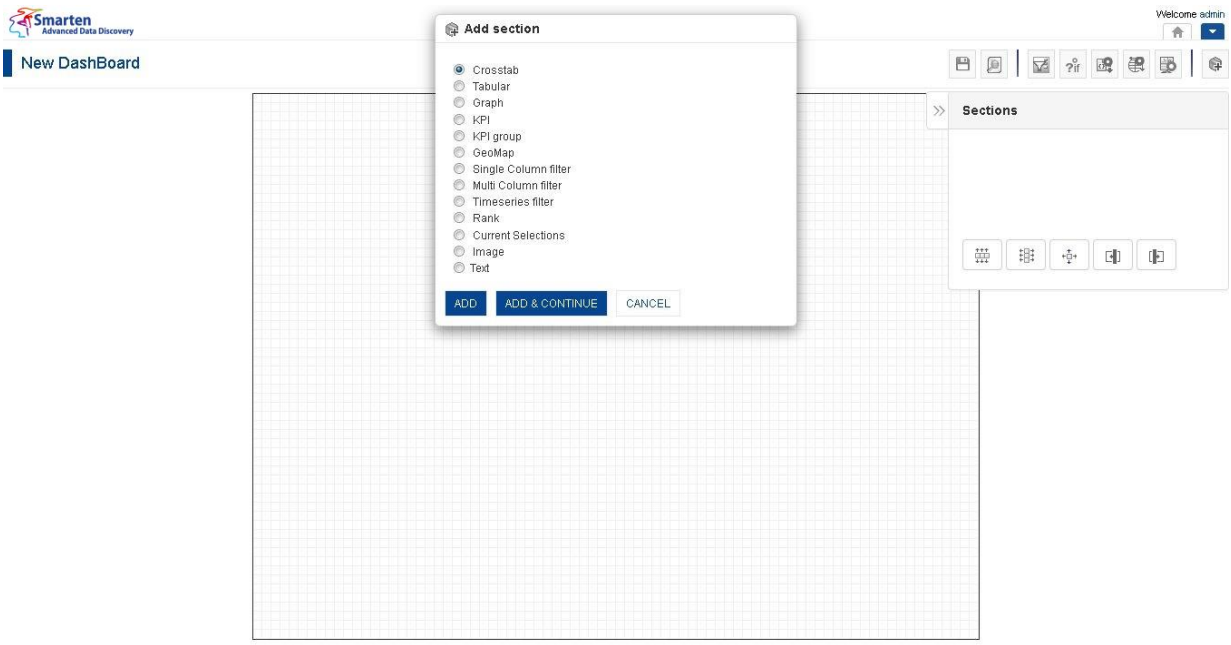
Procedure

1. Follow the **Procedure** of **Creating dashboard**.
   The system displays the **New dashboard** dialog box.



DASHBOARD: CREATE NEW FROM SCRATCH WITH FIXED SIZE OPTION

2. Click **Create new from scratch** radio button.
3. In the **Dashboard type** field, select **Fixed size** radio option.
4. In the **Width** field, enter a value.
5. In the **Height** field, enter a value.
6. Click **OK**.
   The system displays the **Add section** dialog box.



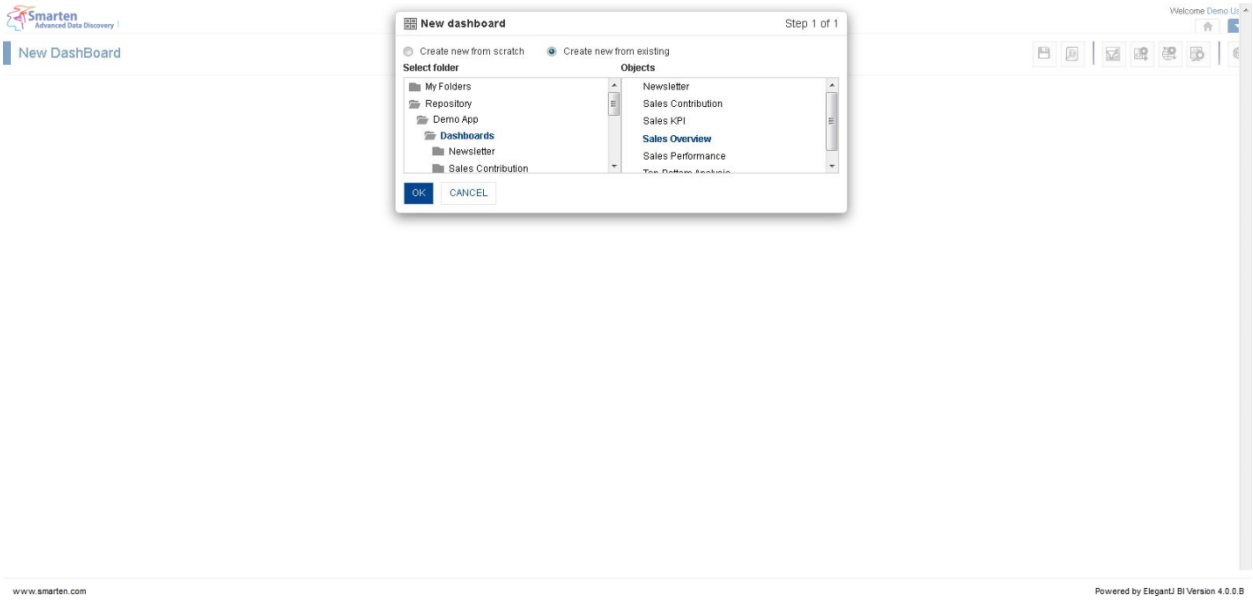
DASHBOARD: WORK AREA

7. Click the required radio button from the available options (Crosstab, Tabular, Graph, GeoMap, KPI, KPI group, Single Column filter, Multicolumn filter, Time series Filter, Rank, Current Selections, Image, and Text).
8. Click **ADD & CONTINUE** to add another section to the dashboard.
9. Click **ADD**.
10. The system displays the selected sections in the dashboard with default layout.

8.2.2 Creating new from existing

Procedure

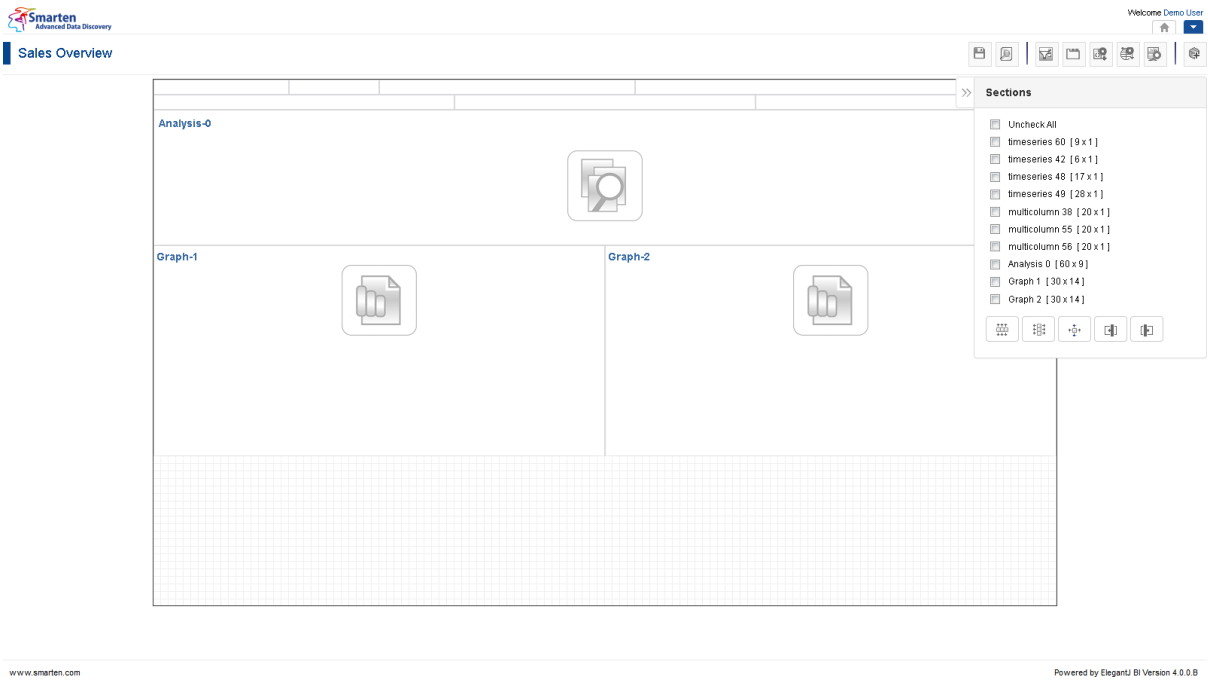
1. Follow the **Procedure** of **Creating dashboard**.
   The system displays the New dashboard dialog box.
2. Click **Create new from existing** radio button.
   The system displays the **Select folder** and **Object** boxes.



DASHBOARD: CREATE NEW FROM EXISTING OPTION

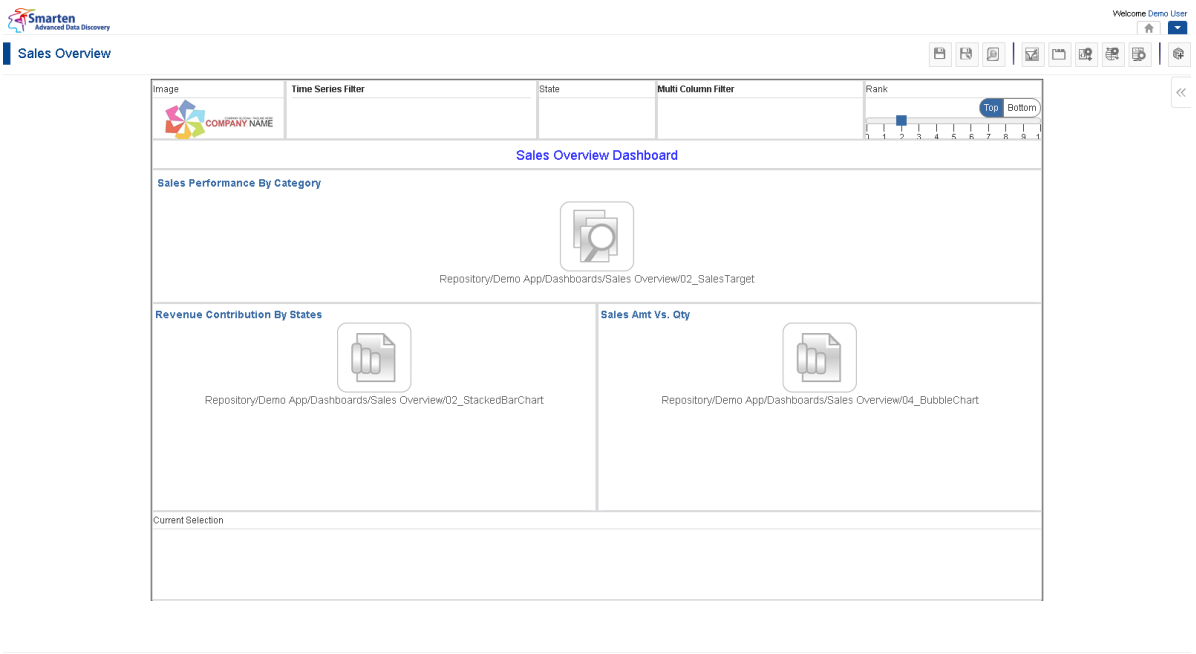
3. In the **Select folder** box, select a folder.
4. In the **Objects** box, select an object.
5. Click **OK.**

   The system displays the template of selected dashboard in this dashboard design view.

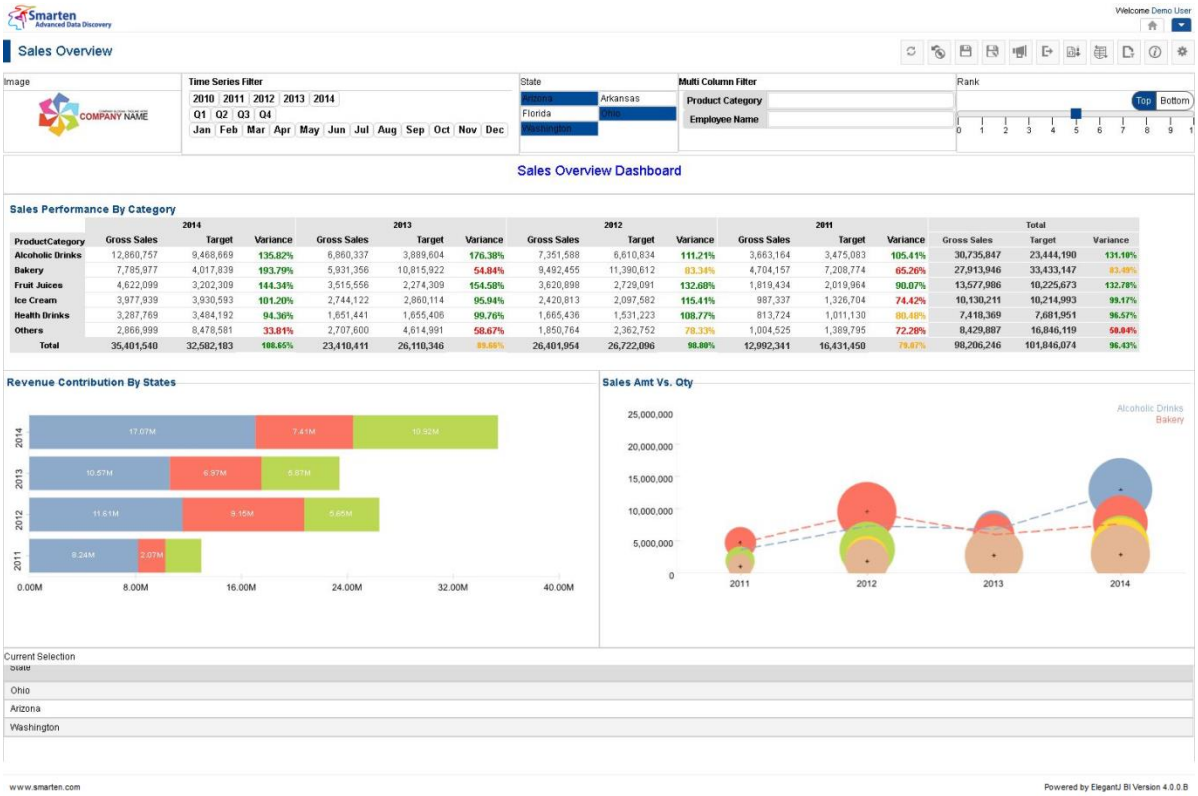


DASHBOARD: WORK AREA (SELECTED DASHBOARD TEMPLATE)

8.3 Design & Layout



DASHBOARD SECTIONS & COMPONENTS (DESIGN MODE)



DASHBOARD SECTIONS & COMPONENTS (PREVIEW MODE)

8.3.1 Adding Dashboard Components

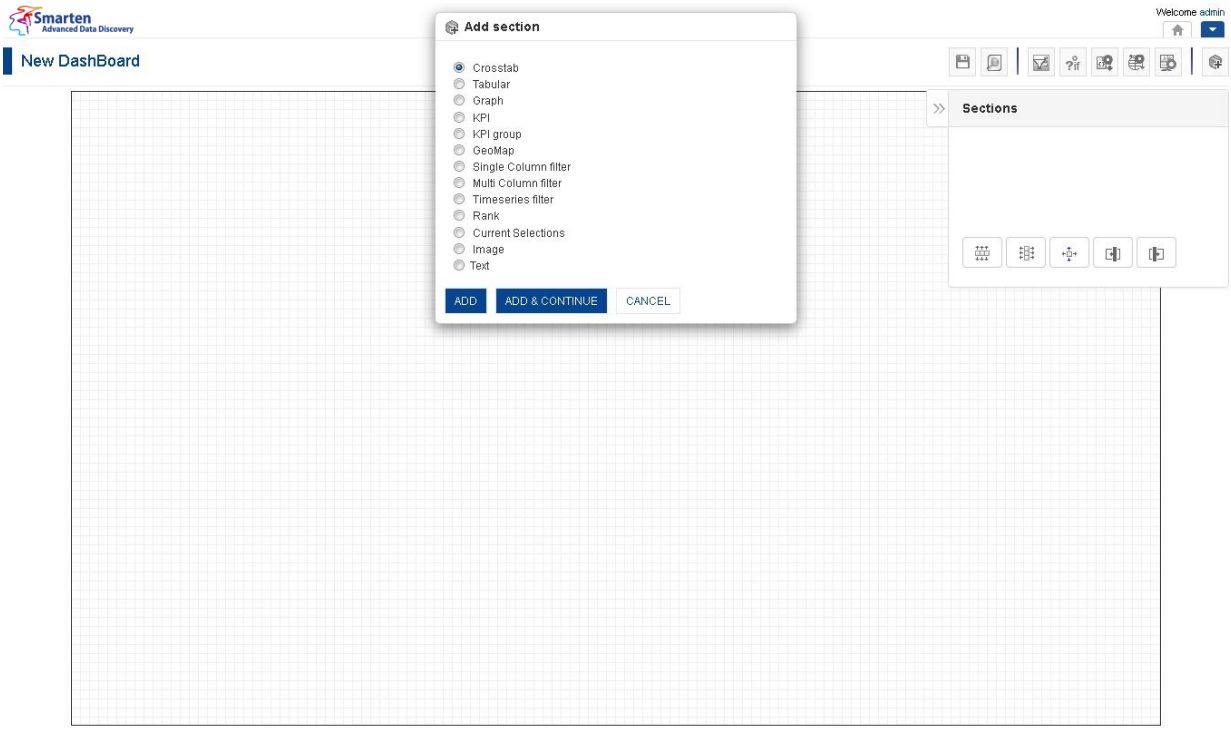
After selecting the dashboard template, you can drag and drop various dashboard components to the template and configure properties. The dashboard may have components from different cubes. The Dashboard Components include dashboard **Sections**, **Current Selections**, **Filter Controls (Single Column, Multicolumn, Time Series)**, **Text, and Image.**

For example, you can create a ““**Sales Growth**” dashboard by adding components, such as Crosstab object (**Employee Performance)**, Tabular object (**Sales Report**), Graph object (**Bubble** chart of **ProductCategory**), Single column filter (**Employee Name**), Multi column filter (**ProductCategory**, **EmployeeName**, **Date** and **ProductName**), Rank (**EmployeeName**), Current Selections, Time Series, Image, and Text Component.

8.3.1.1 Crosstab

Procedure

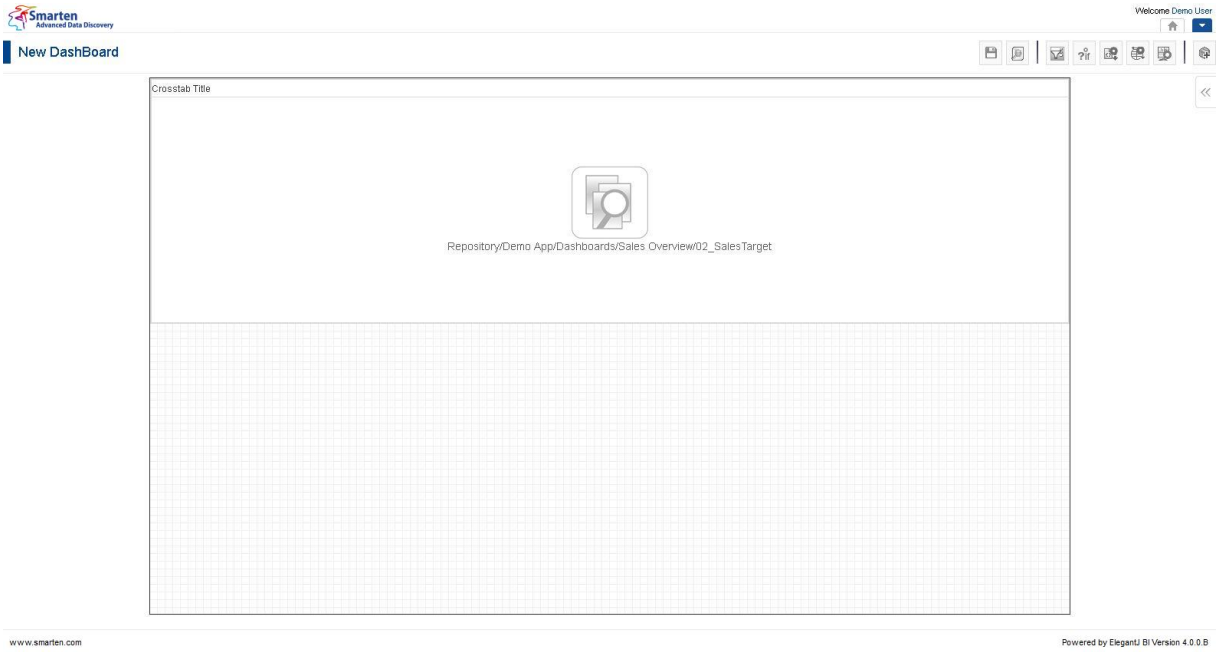
1. Follow the **Procedure** of **Create new from scratch** or **Create new from existing**.
2. In the Add **section** dialog box, select **Crosstab**.



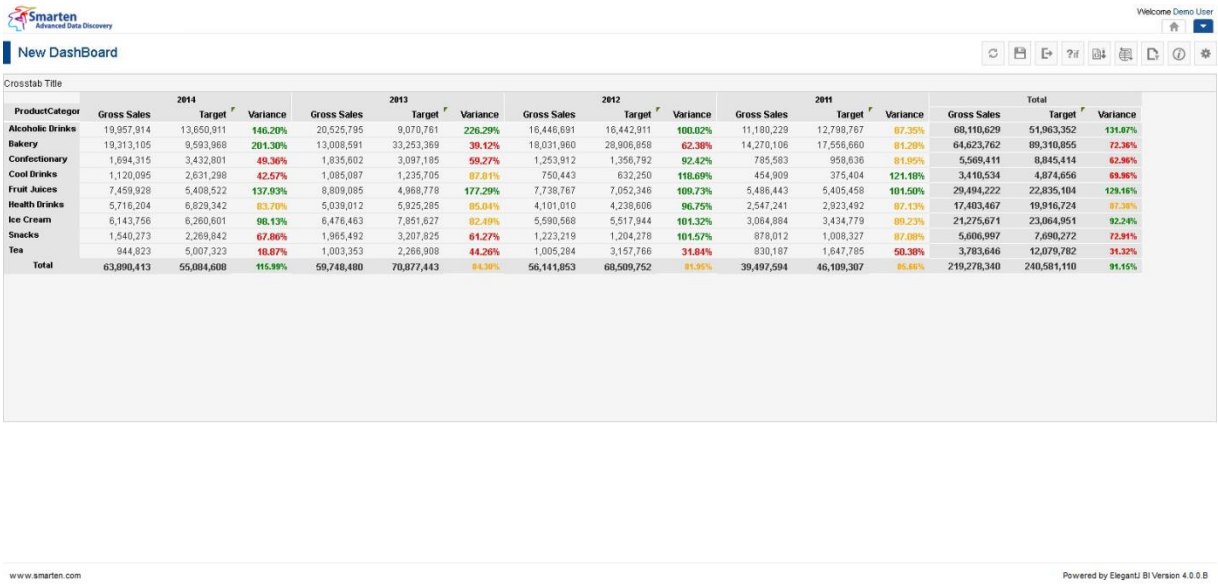
DASHBOARD: ADD CROSSTAB SECTION

3. Click **Add.**

The system displays the selected **Crosstab** section in the dashboard.

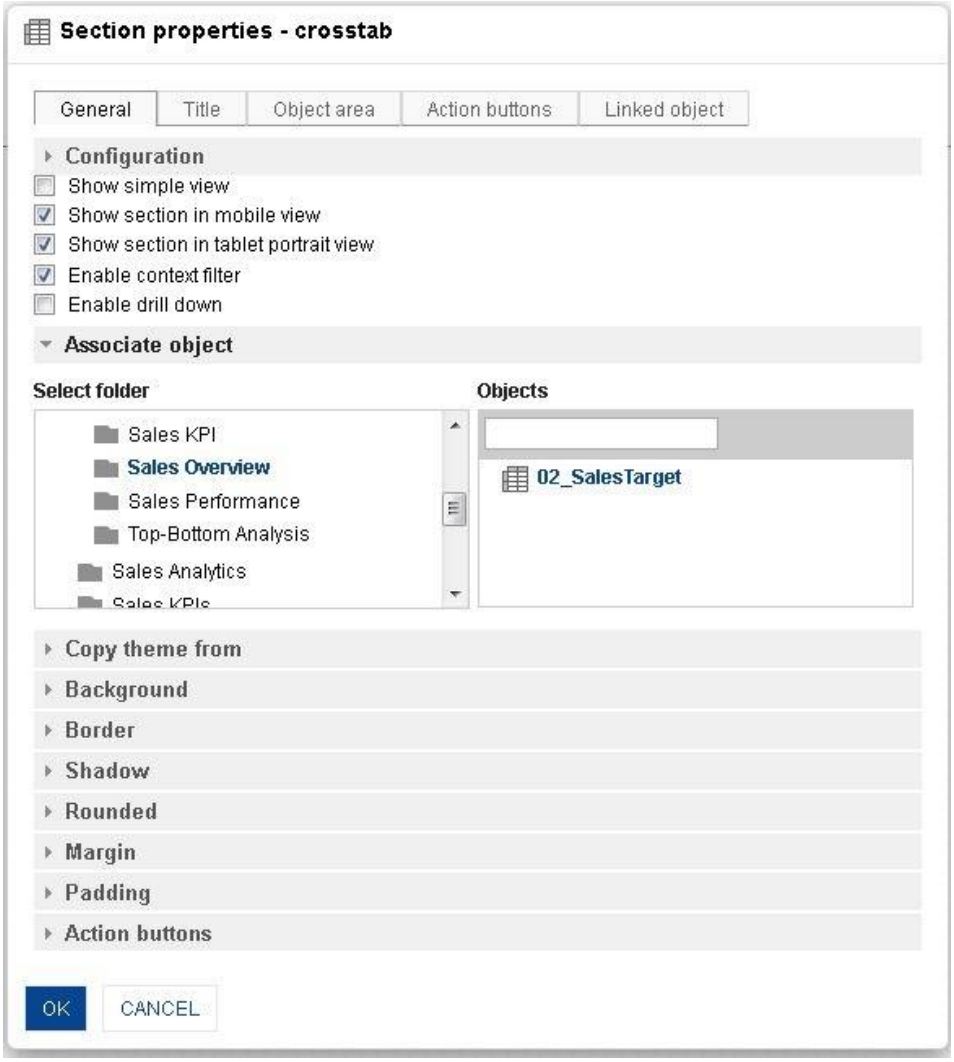


DASHBOARD: CROSSTAB SECTION—DESIGN



	2014			2013			2012			2011			Total		
ProductCategor	Gross Sales	Target	Variance	Gross Sales	Target	Variance	Gross Sales	Target	Variance	Gross Sales	Target	Variance	Gross Sales	Target	Variance
Alcoholic Drinks	19,957,914	13,650,911	146.20%	20,525,795	9,070,761	226.29%	16,446,691	16,442,911	100.02%	11,180,229	12,798,767	87.35%	68,110,629	51,963,352	131.07%
Bakery	19,313,105	9,593,968	201.30%	13,008,591	33,253,369	39.12%	18,031,960	28,906,858	62.38%	14,270,106	17,556,660	81.28%	64,623,762	89,310,855	72.36%
Confectionary	1,694,315	3,432,801	49.36%	1,835,602	3,097,185	59.27%	1,253,912	1,356,792	92.42%	785,583	958,636	81.95%	5,569,411	8,845,414	62.96%
Cool Drinks	1,120,095	2,631,298	42.57%	1,085,087	1,235,705	87.81%	750,443	632,250	118.69%	454,909	375,404	121.18%	3,410,534	4,874,656	69.96%
Fruit Juices	7,459,928	5,408,522	137.93%	8,809,085	4,968,778	177.29%	7,738,767	7,052,346	109.73%	5,486,443	5,405,458	101.50%	29,494,222	22,835,104	129.16%
Health Drinks	5,716,204	6,829,342	83.70%	5,039,012	5,925,285	85.04%	4,101,010	4,238,606	96.75%	2,547,241	2,923,492	87.13%	17,403,467	19,916,724	87.38%
Ice Cream	6,143,756	6,260,601	98.13%	6,476,463	7,851,627	82.49%	5,590,568	5,517,944	101.32%	3,064,884	3,434,779	89.23%	21,275,671	23,064,951	92.24%
Snacks	1,540,273	2,269,842	67.86%	1,965,492	3,207,825	61.27%	1,223,219	1,204,278	101.57%	878,012	1,008,327	87.08%	5,606,997	7,690,272	72.91%
Tea	944,823	5,007,323	18.87%	1,003,353	2,266,908	44.26%	1,005,284	3,157,766	31.84%	830,187	1,647,785	50.38%	3,783,646	12,079,782	31.32%
Total	63,890,413	55,084,608	115.99%	59,748,480	70,877,443	84.30%	56,141,853	68,509,752	81.95%	39,497,594	46,109,307	85.66%	219,278,340	240,581,110	91.15%

DASHBOARD: CROSTAB SECTION—PREVIEW



DASHBOARD: SECTION PROPERTIES—CROSSTAB

4. In the **Crosstab** section, click the **Setting** icon.
5. The system displays the **Section properties – "Section"** dialog box, in this case **Section properties – crosstab** dialog box.
6. To configure the properties, select the tab and enter/select the values in the various fields.
7. Click the **Delete** icon in the **Crosstab** section to delete section from the dashboard.
8. Click **OK.**

> Note:
> You can place objects created from different cube types (Cache cube, Real-time cube and MDX cube) in dashboard. For example, it is possible to use one crosstab created from cache cube, one tabular created from real-time cube and one graph created from MDX cube in a dashboard

The following tables list all the Crosstab section properties.

Element	Properties	Sub Properties	Default Value	Values
Configuration	Id		Id name	Any string value
	Show simple view		FALSE	True/False
	Show section in mobile view		TRUE	True/False

Element	Properties	Sub Properties	Default Value	Values
	Show section in tablet portrait view		TRUE	True/False
	Enable context filter		TRUE	True/False
	Enable drill down		FALSE	True/False
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0	0 – 100 %
	Top		0	0 – 100 %

Element	Properties	Sub Properties	Default Value	Values
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %
Padding	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %
Action buttons	Visible			
	Link		TRUE	True/False
	Open		TRUE	True/False

SECTION PROPERTIES—CROSSTAB: GENERAL

Element	Properties	Sub Properties	Default Value	Values
Configuration	Visible		TRUE	True/False
	Title			Any String Value
	Title panel	Position	Top	Left/Right/Center
		Adjust width to text	FALSE	True/False
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/ Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Just ify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100

Element	Properties	Sub Properties	Default Value	Values
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D0D0D3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %
Padding	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %

SECTION PROPERTIES—CROSSTSB: TITLE

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y

Element	Properties	Sub Properties	Default Value	Values
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	FALSE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %
Padding	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %

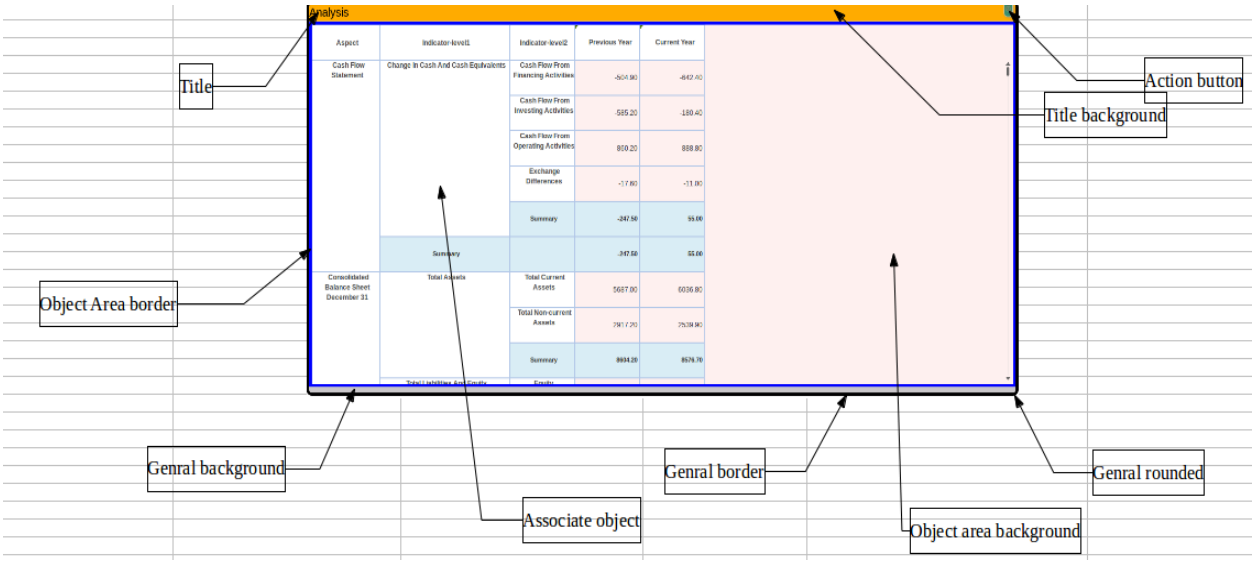
SECTION PROPERTIES—CROSSTAB: OBJECT AREA

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		TRUE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	FALSE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		7	0 – 20
	Bottom right		7	0 – 20
Margin	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %
Padding	All		0.004	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %

SECTION PROPERTIES—CROSSTAB: ACTION BUTTONS

Element	Properties	Sub Properties	Default Value	Values
	None		TRUE	True/False
	Link to web		FALSE	True/False
	Link to repository		FALSE	True/False
	Apply dashboard section filter		FALSE	True/False

SECTION PROPERTIES—CROSSTAB: LINKED OBJECT SETTING

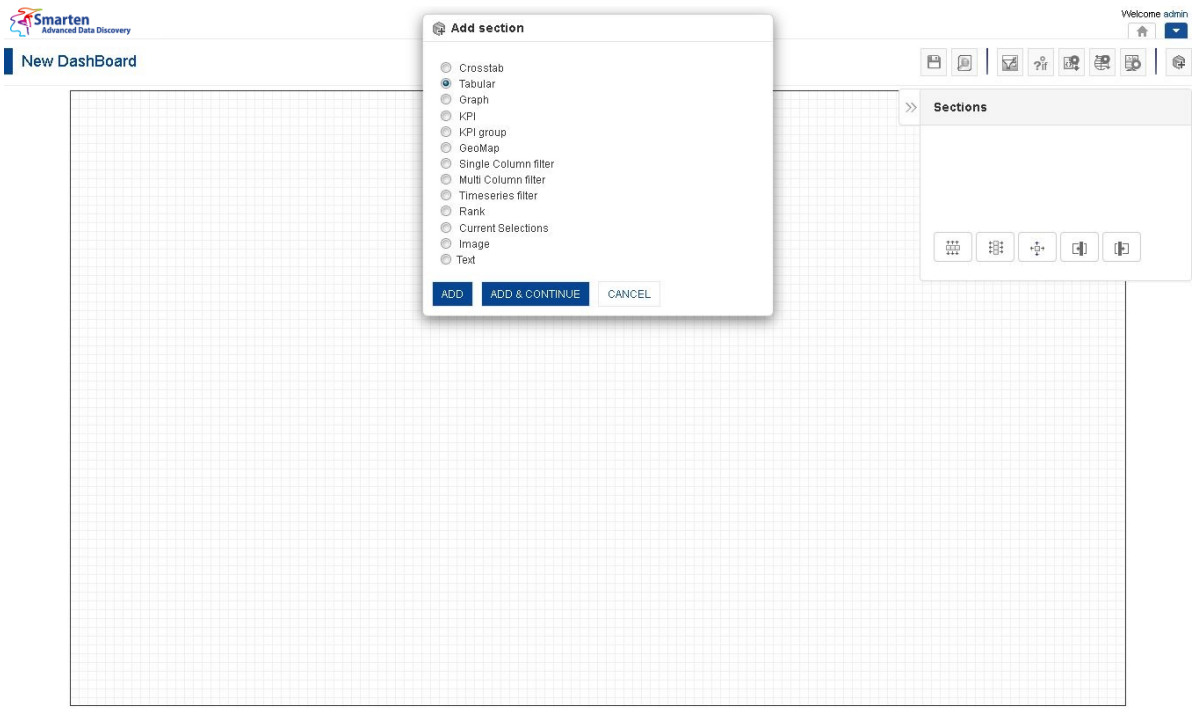


SECTION PROPERTIES—CROSSTAB: VARIOUS ELEMENTS

8.3.1.2 Tabular

Procedure

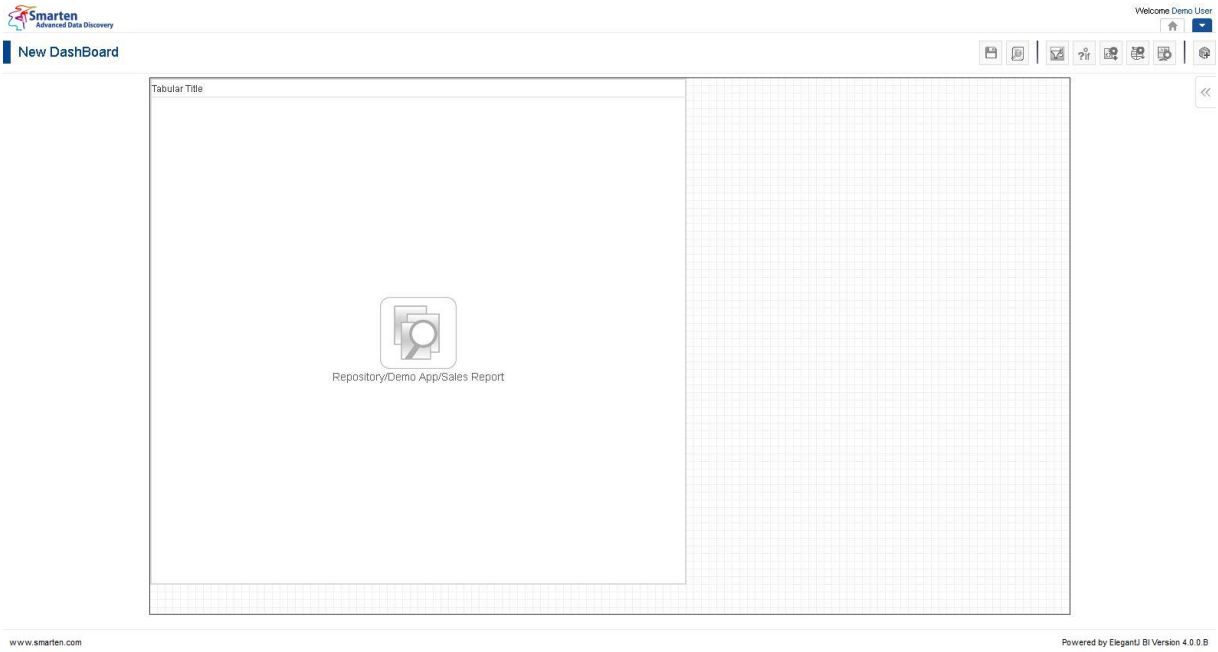
1. Follow the **Procedure** of **Create new from scratch** or **Create new from existing**.
2. In the Add **section** dialog box, select **Tabular**.



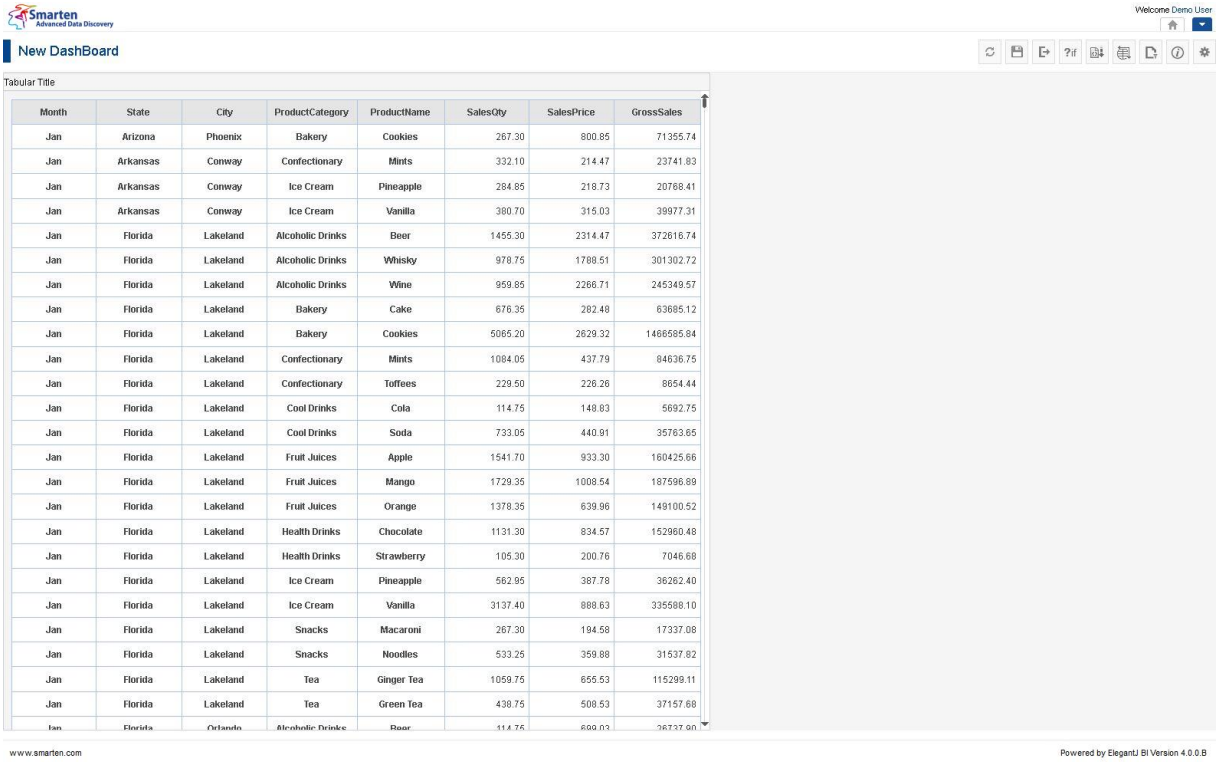
DASHBOARD: ADD TABULAR SECTION

3. Click **Add.**

The system displays the selected **Tabular** section in the dashboard.

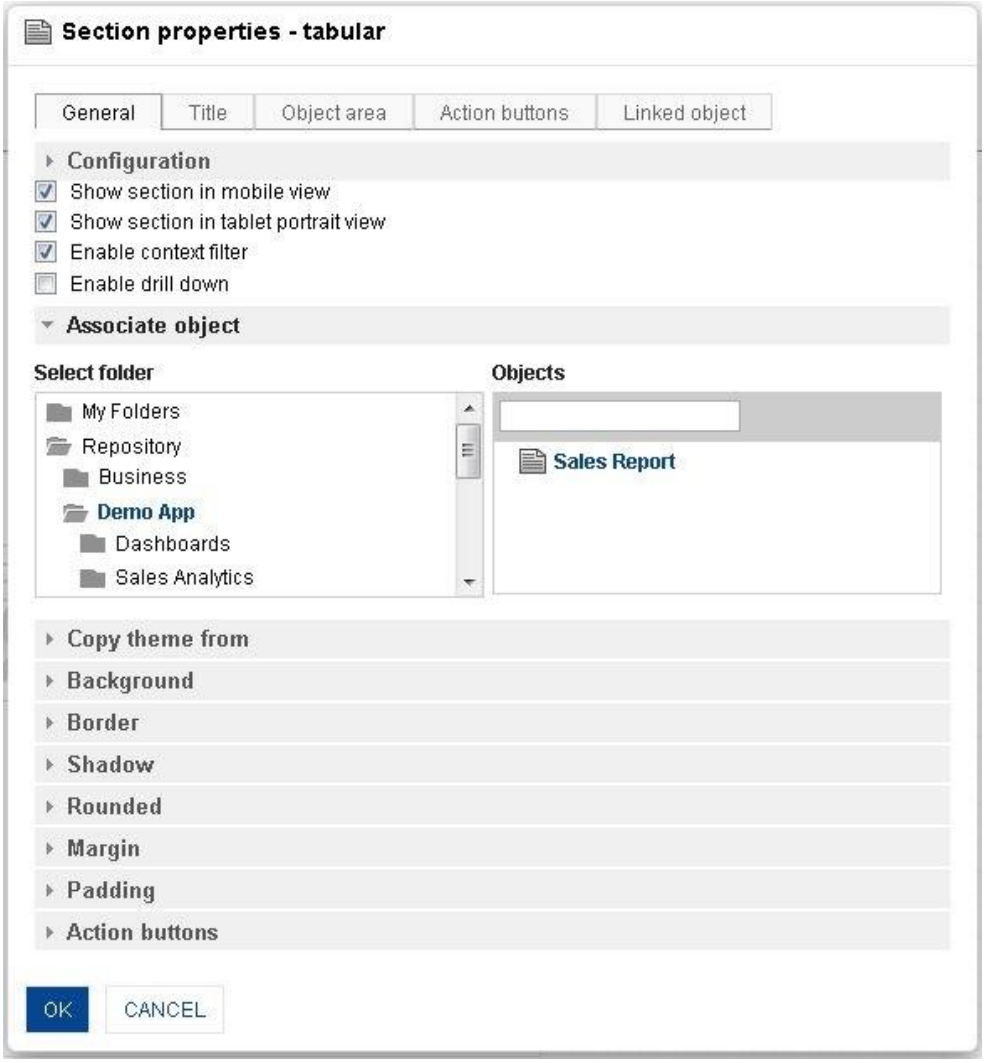


DASHBOARD: TABULAR SECTION—DESIGN



Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
Jan	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2268.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68
Jan	Florida	Lakeland	Ice Cream	Pineapple	562.95	387.78	36262.40
Jan	Florida	Lakeland	Ice Cream	Vanilla	3137.40	888.63	335588.10
Jan	Florida	Lakeland	Snacks	Macaroni	267.30	194.58	17337.08
Jan	Florida	Lakeland	Snacks	Noodles	533.25	359.88	31537.82
Jan	Florida	Lakeland	Tea	Ginger Tea	1059.75	655.53	115299.11
Jan	Florida	Lakeland	Tea	Green Tea	438.75	508.53	37157.68
Jan	Florida	Orlando	Alcoholic Drinks	Beer	114.75	899.03	26737.90

DASHBOARD: TABULAR SECTION—PREVIEW



DASHBOARD: SECTION PROPERTIES—TABULAR

4. In the **Tabular** section, click the **Setting** icon.
5. The system displays the **Section properties – "Section"** dialog box, in this case **Section properties – tabular** dialog box.
6. To configure the properties, select the tab and enter/select the values in the various fields.
7. Click the **Delete** icon in the **Tabular** section to delete section from the dashboard.
8. Click **OK.**

> Note:
> You can place objects created from different cube types (Cache cube, Real-time cube and MDX cube) in dashboard. For example, it is possible to use one crosstab created from cache cube, one tabular created from real-time cube and one graph created from MDX cube in a dashboard

The following tables list all the Tabular section properties.

Element	Properties	Sub Properties	Default Value	Values
Configuration	Id		Id name	Any string value
	Show section in mobile view		TRUE	True/False
	Show section in tablet portrait view		TRUE	True/False

Element	Properties	Sub Properties	Default Value	Values
	Enable context filter		TRUE	True/False
	Enable drill down		FALSE	True/False
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %
Padding	All		0	0 – 100 %

Element	Properties	Sub Properties	Default Value	Values
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %
Action buttons	Visible			
	Link		TRUE	True/False
	Open		TRUE	True/False

SECTION PROPERTIES—TABULAR: GENERAL

Element	Properties	Sub Properties	Default Value	Values
Configuration	Visible		TRUE	True/False
	Title			Any String Value
	Title panel	Position	Top	Left/Right/Center
		Adjust width to text	FALSE	True/False
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/ Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot

Element	Properties	Sub Properties	Default Value	Values
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D0D0D3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %
Padding	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %

SECTION PROPERTIES—TABULAR: TITLE

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360

Element	Properties	Sub Properties	Default Value	Values
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	FALSE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %
Padding	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %

SECTION PROPERTIES—TABULAR: OBJECT AREA

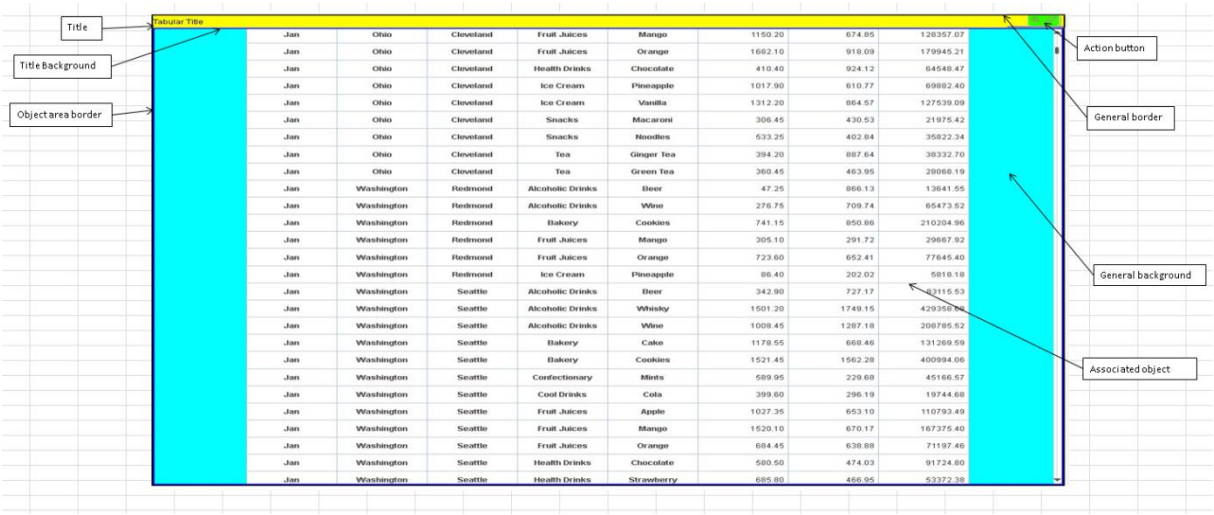
Element	Properties	Sub Properties	Default Value	Values
Background	Visible		TRUE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	FALSE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot

Element	Properties	Sub Properties	Default Value	Values
		Color	#D3D3D3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		7	0 – 20
	Bottom right		7	0 – 20
Margin	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %
Padding	All		0.004	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %

SECTION PROPERTIES—TABULAR: ACTION BUTTONS

Element	Properties	Sub Properties	Default Value	Values
	None		TRUE	True/False
	Link to web		FALSE	True/False
	Link to repository		FALSE	True/False
	Apply dashboard section filter		FALSE	True/False

SECTION PROPERTIES—TABULAR: LINKED OBJECT SETTING

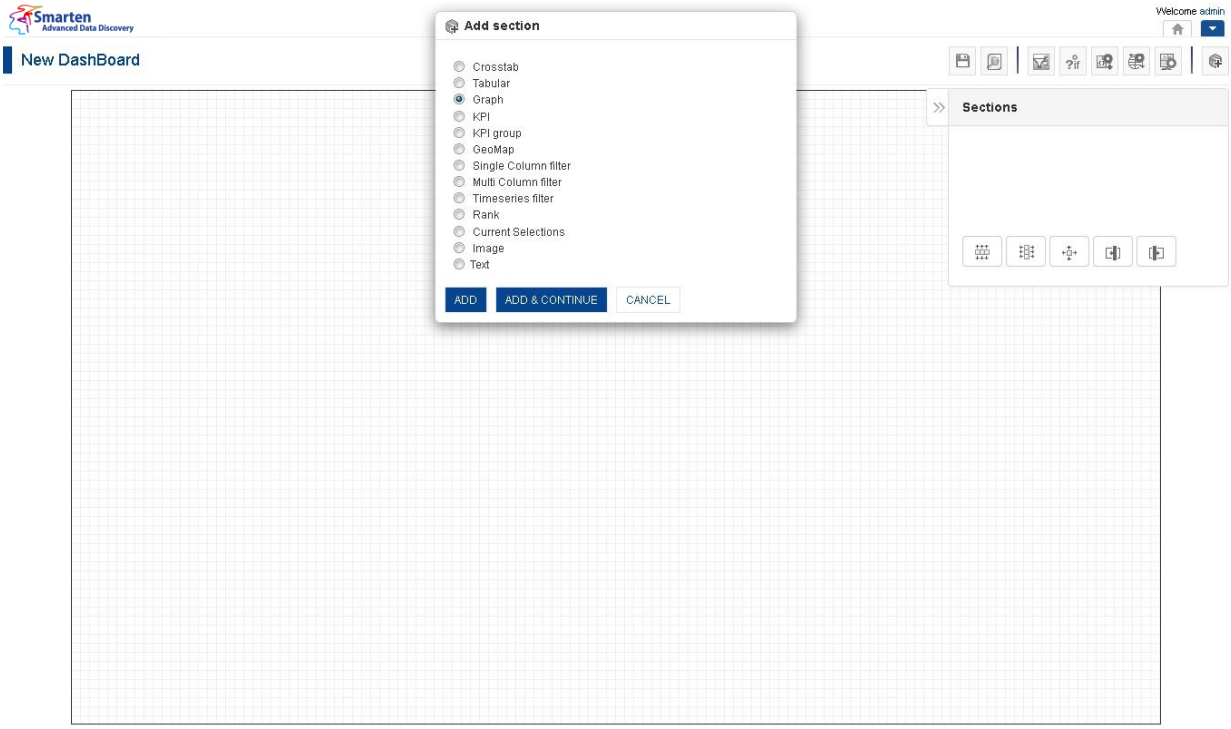


SECTION PROPERTIES—TABULAR: VARIOUS ELEMENTS

8.3.1.3 Graph

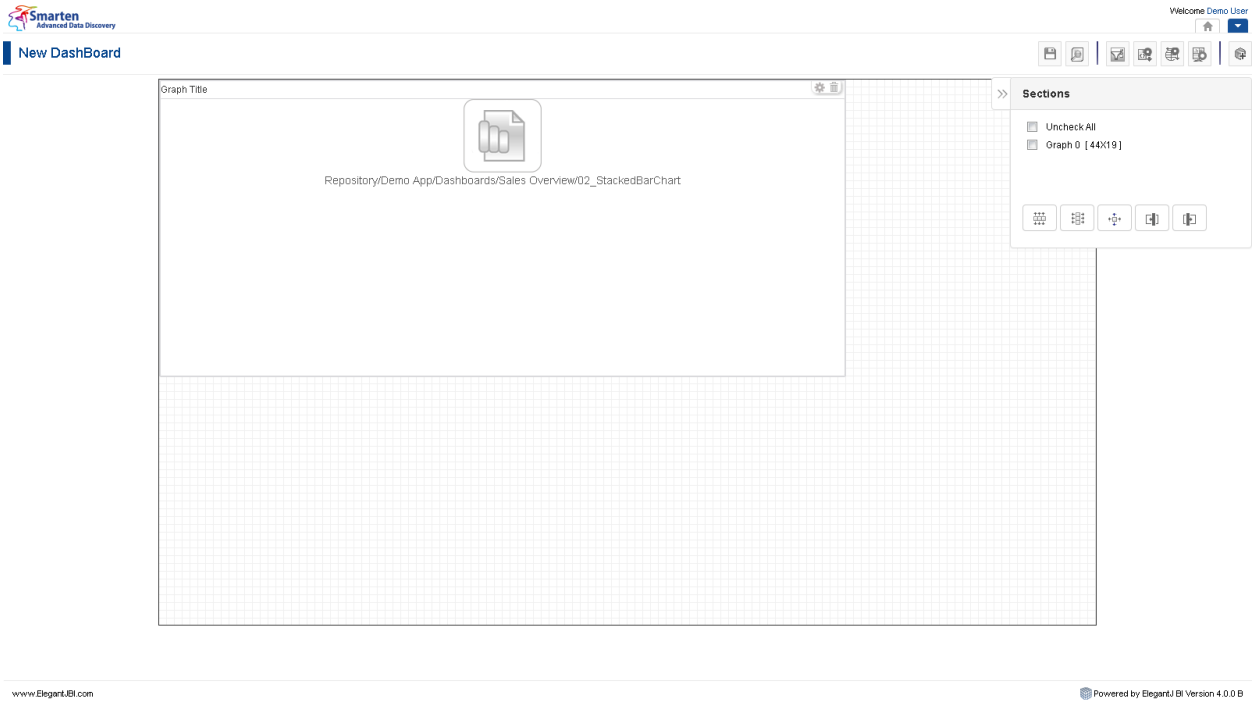
Procedure

1. Follow the **Procedure** of **Create new from scratch** or **Create new from existing**.
2. In the Add **section** dialog box, select **Graph**.

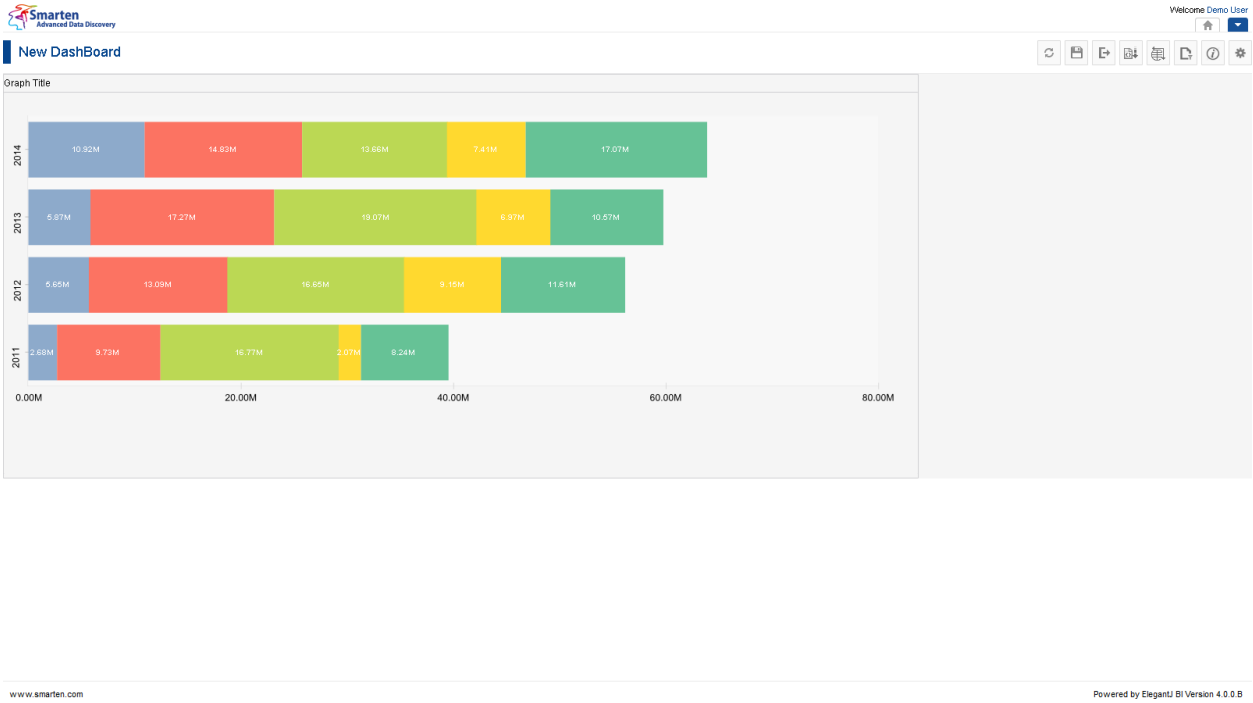


DASHBOARD: ADD GRAPH SECTION

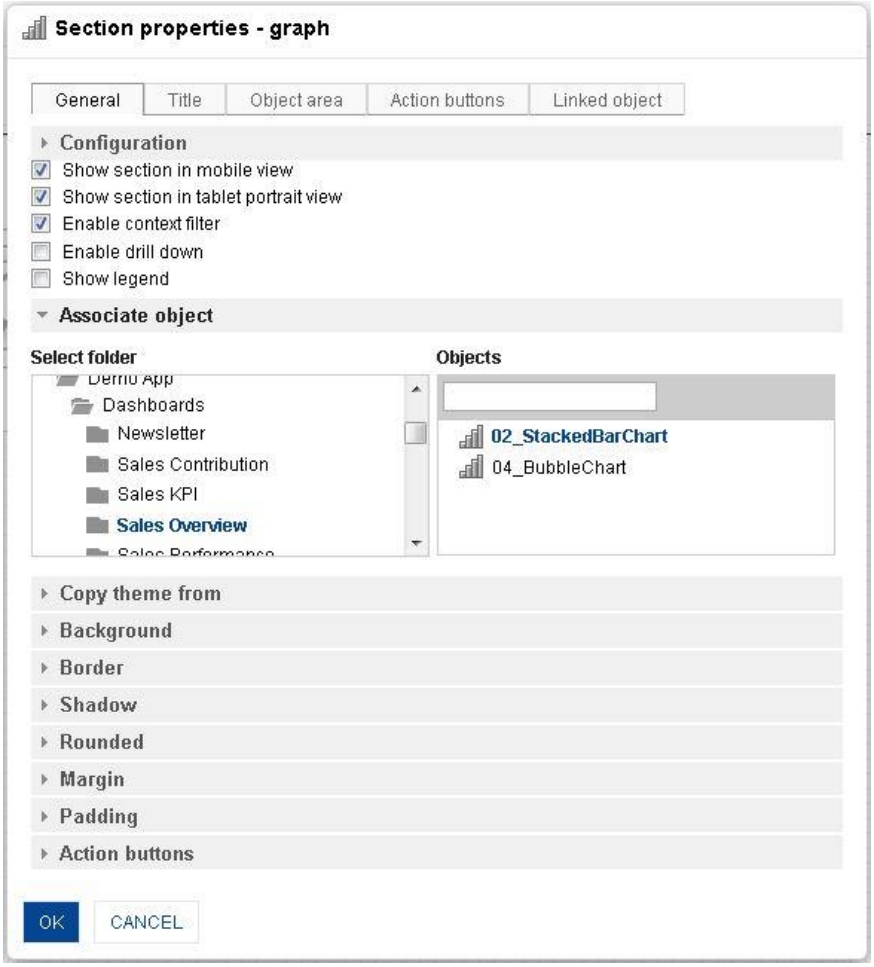
3. Click **Add.**
   The system displays the selected **Graph** section in the dashboard.



DASHBOARD: GRAPH SECTION—DESIGN



DASHBOARD: GRAPH SECTION—PREVIEW



DASHBOARD: SECTION PROPERTIES—GRAPH

4. In the **Graph** section, click the **Setting** icon.
5. The system displays the **Section properties** – **"Section"** dialog box, in this case **Section properties** – **graph** dialog box.
6. To configure the properties, select the tab and enter/select the values in the various fields.
7. Click the **Delete** icon in the **Graph** section to delete section from the dashboard.
8. Click **OK**.

> Note:
> You can place objects created from different cube types (Cache cube, Real-time cube and MDX cube) in dashboard. For example, it is possible to use one crosstab created from cache cube, one tabular created from real-time cube and one graph created from MDX cube in a dashboard

The following tables list all the Graph section properties.

Element	Properties	Sub Properties	Default Value	Values
Configuration	Id		Id name	Any string value
	Show section in mobile view		TRUE	True/False
	Show section in tablet portrait view		TRUE	True/False
	Enable context filter		TRUE	True/False

Element	Properties	Sub Properties	Default Value	Values
	Enable drill down		FALSE	True/False
	Show legend		FALSE	True/False
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %
Padding	All		0	0 – 100 %

Element	Properties	Sub Properties	Default Value	Values
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %
Action buttons	Visible			
	Link		TRUE	True/False
	Open		TRUE	True/False
	Show quick settings		False	True/False

SECTION PROPERTIES—GRAPH: GENERAL

Element	Properties	Sub Properties	Default Value	Values
Configuration	Visible		TRUE	True/False
	Title			Any String Value
	Title panel	Position	Top	Left/Right/Center
		Adjust width to text	FALSE	True/False
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/ Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10

Element	Properties	Sub Properties	Default Value	Values
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D0D0D3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %
Padding	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %

SECTION PROPERTIES—GRAPH: TITLE

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient

Element	Properties	Sub Properties	Default Value	Values
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	FALSE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %
Padding	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %

SECTION PROPERTIES—GRAPH: OBJECT AREA

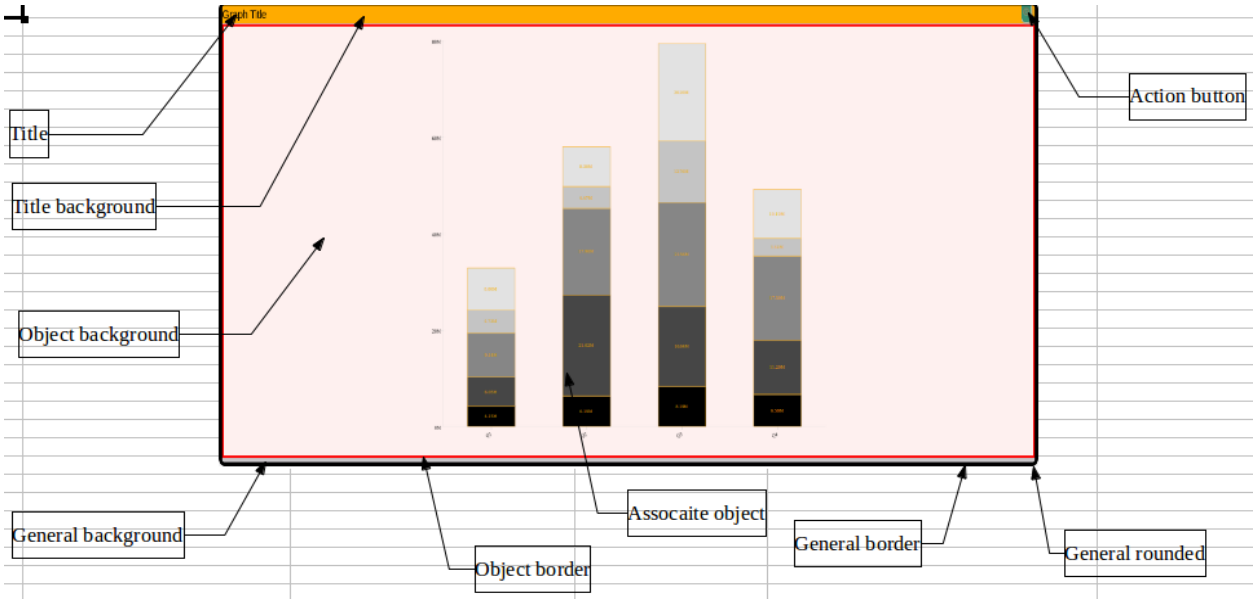
Element	Properties	Sub Properties	Default Value	Values
Background	Visible		TRUE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	FALSE	True/False
	All	Width	1	0 – 10

Element	Properties	Sub Properties	Default Value	Values
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		7	0 – 20
	Bottom right		7	0 – 20
Margin	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %
Padding	All		0.004	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %

SECTION PROPERTIES—GRAPH: ACTION BUTTONS

Element	Properties	Sub Properties	Default Value	Values
	None		TRUE	True/False
	Link to web		FALSE	True/False
	Link to repository		FALSE	True/False
	Apply dashboard section filter		FALSE	True/False

SECTION PROPERTIES—GRAPH: LINKED OBJECT SETTING

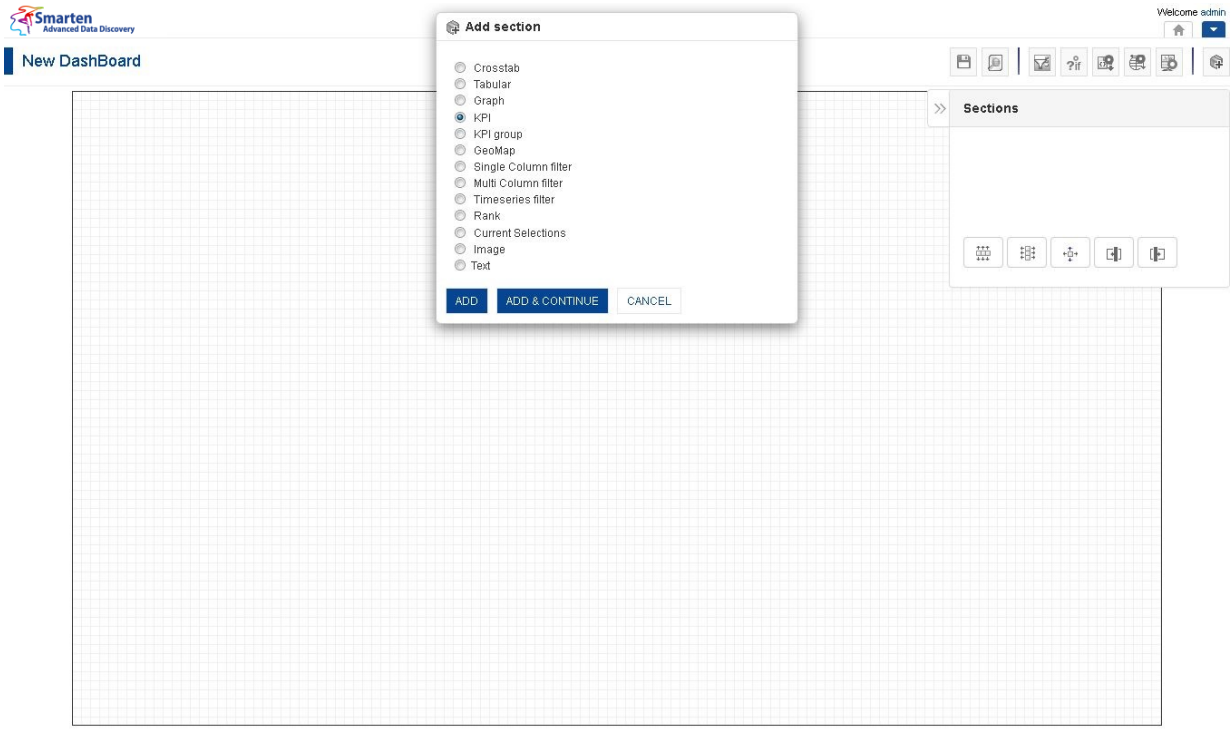


SECTION PROPERTIES—GRAPH: VARIOUS ELEMENTS

8.3.1.4 KPI

Procedure

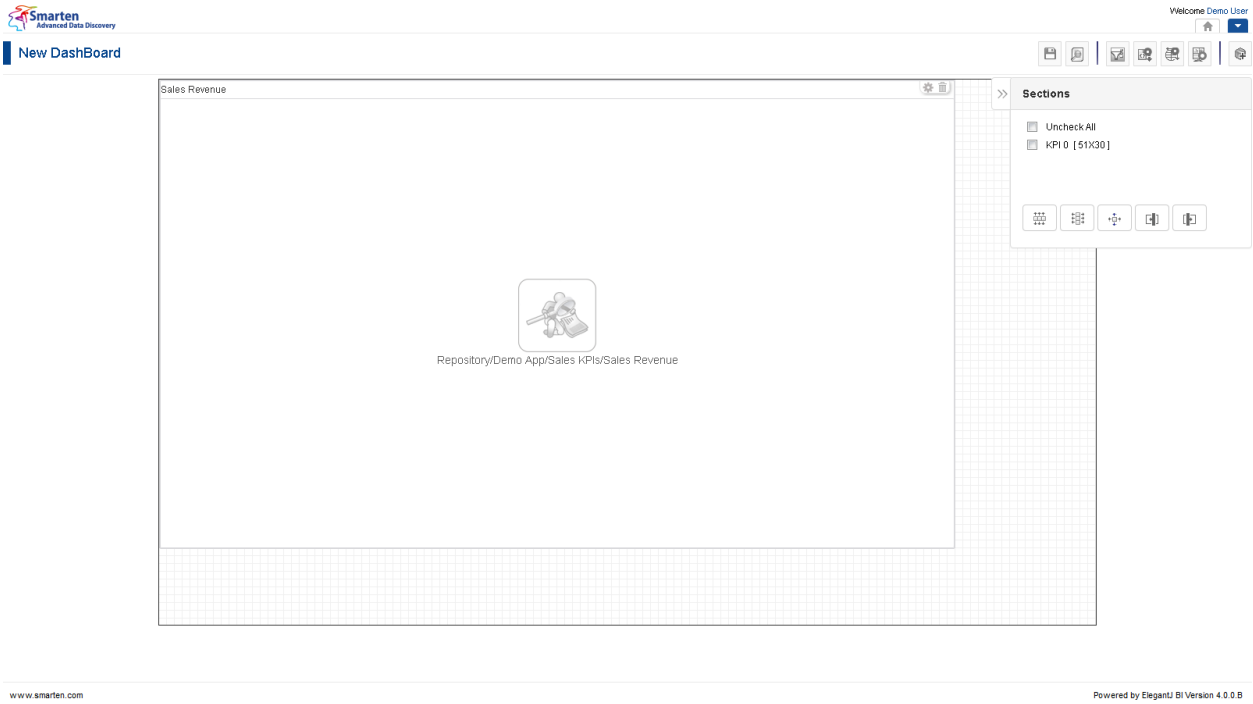
1. Follow the **Procedure** of **Create new from scratch** or **Create new from existing**.
2. In the Add **section** dialog box, select **KPI**.



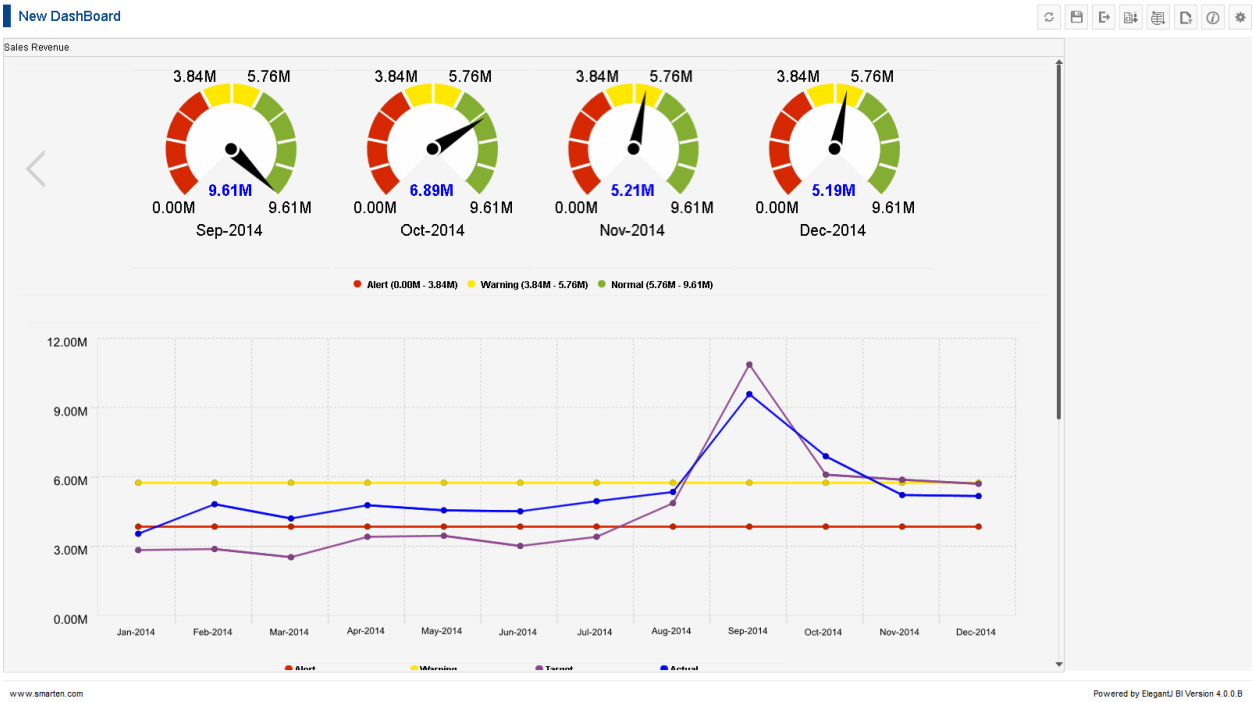
DASHBOARD: ADD KPI SECTION

3. Click **Add.**

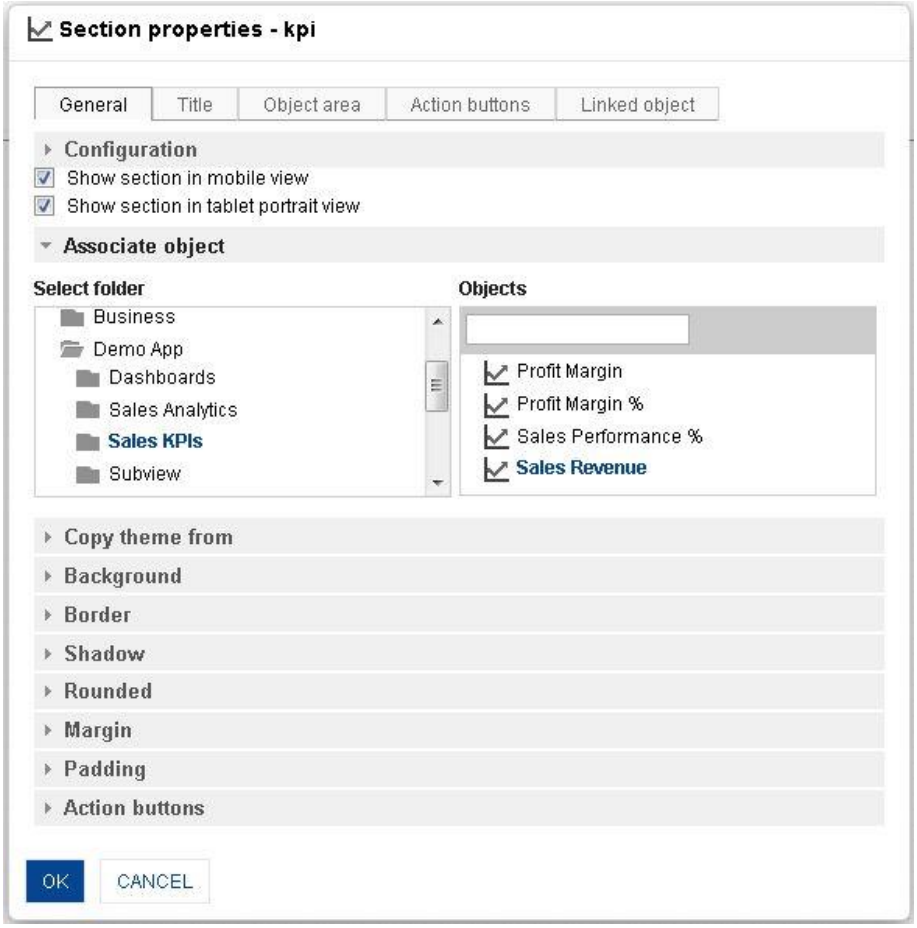
The system displays the selected **KPI** section in the dashboard.



DASHBOARD: KPI SECTION—DESIGN



DASHBOARD: KPI SECTION—PREVIEW



DASHBOARD: SECTION PROPERTIES—KPI

4. In the **KPI** section, click the **Setting** icon.
5. The system displays the **Section properties – "Section"** dialog box, in this case **Section properties – KPI** dialog box.
6. To configure the properties, select the tab and enter/select the values in the various fields.
7. Click the **Delete** icon in the **KPI** section to delete section from the dashboard.
8. Click **OK.**

> Note:
> You can place objects created from different cube types (Cache cube, Real-time cube and MDX cube) in dashboard. For example, it is possible to use one crosstab created from cache cube, one tabular created from real-time cube and one graph created from MDX cube in a dashboard

The following tables list all the KPI section properties.

Element	Properties	Sub Properties	Default Value	Values
Configuration	Id		Id name	Any string value
	Show section in mobile view		TRUE	True/False
	Show section in tablet portrait view		TRUE	True/False
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False

Element	Properties	Sub Properties	Default Value	Values
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %
Padding	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %
Action buttons	Visible			
	Link		TRUE	True/False
	Open		TRUE	True/False

SECTION PROPERTIES—KPI: GENERAL

Element	Properties	Sub Properties	Default Value	Values
Configuration	Visible		TRUE	True/False
	Title			Any String Value
	Title panel	Position	Top	Left/Right/Center
		Adjust width to text	FALSE	True/False
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D0D0D3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10

Element	Properties	Sub Properties	Default Value	Values
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %
Padding	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %

SECTION PROPERTIES—KPI: TITLE

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	FALSE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10

Element	Properties	Sub Properties	Default Value	Values
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %
Padding	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %

SECTION PROPERTIES—KPI: OBJECT AREA

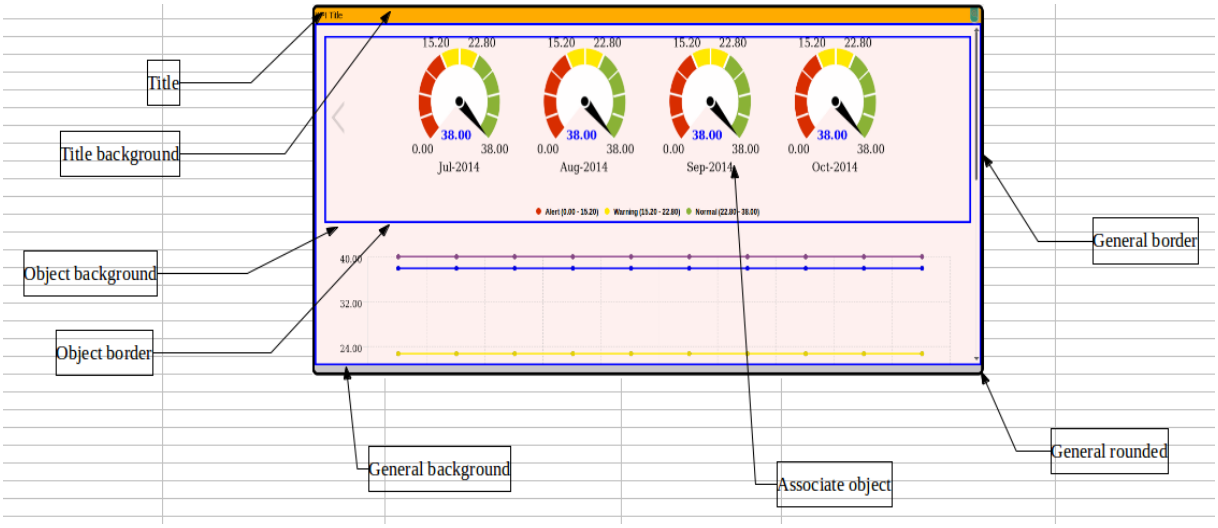
Element	Properties	Sub Properties	Default Value	Values
Background	Visible		TRUE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	FALSE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		7	0 – 20
	Bottom right		7	0 – 20
Margin	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %
Padding	All		0.004	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %

Element	Properties	Sub Properties	Default Value	Values
	Left		0	0 – 100 %
	Right		0	0 – 100 %

SECTION PROPERTIES—KPI: ACTION BUTTONS

Element	Properties	Sub Properties	Default Value	Values
	None		TRUE	True/False
	Link to web		FALSE	True/False
	Link to repository		FALSE	True/False
	Apply dashboard section filter		FALSE	True/False

SECTION PROPERTIES—KPI: LINKED OBJECT SETTING

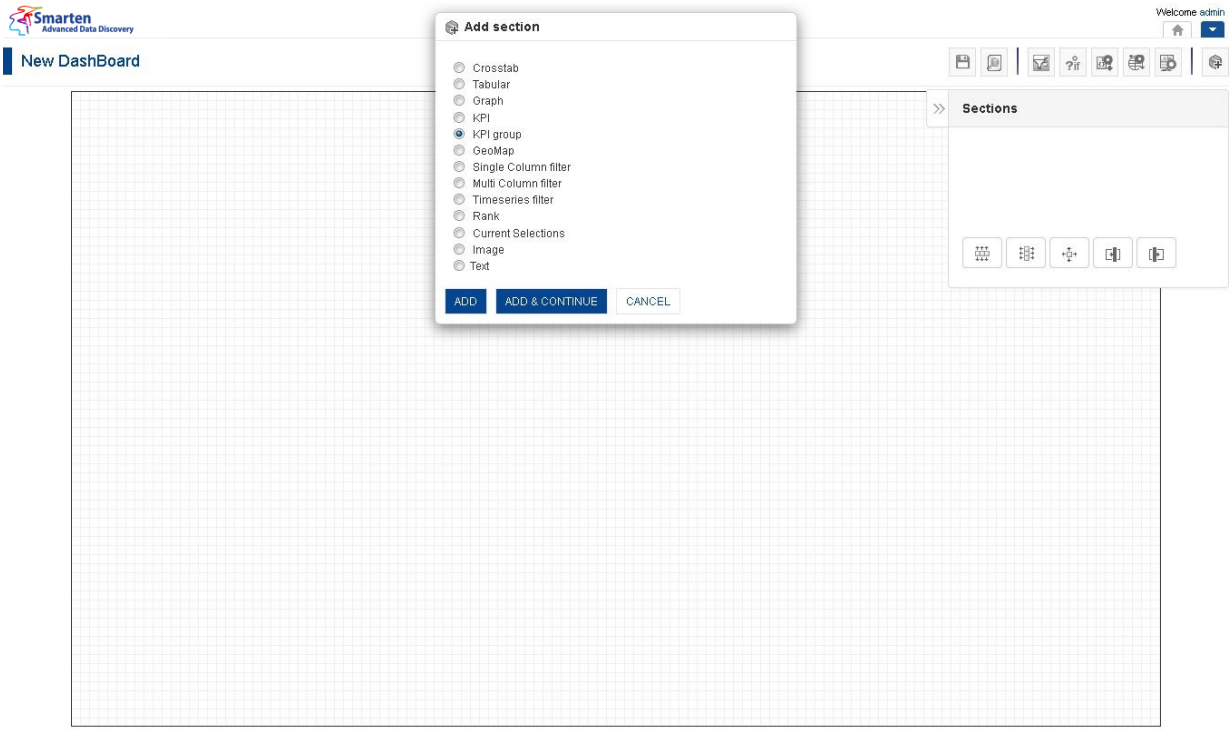


SECTION PROPERTIES—KPI: VARIOUS ELEMENTS

8.3.1.5 KPI Group

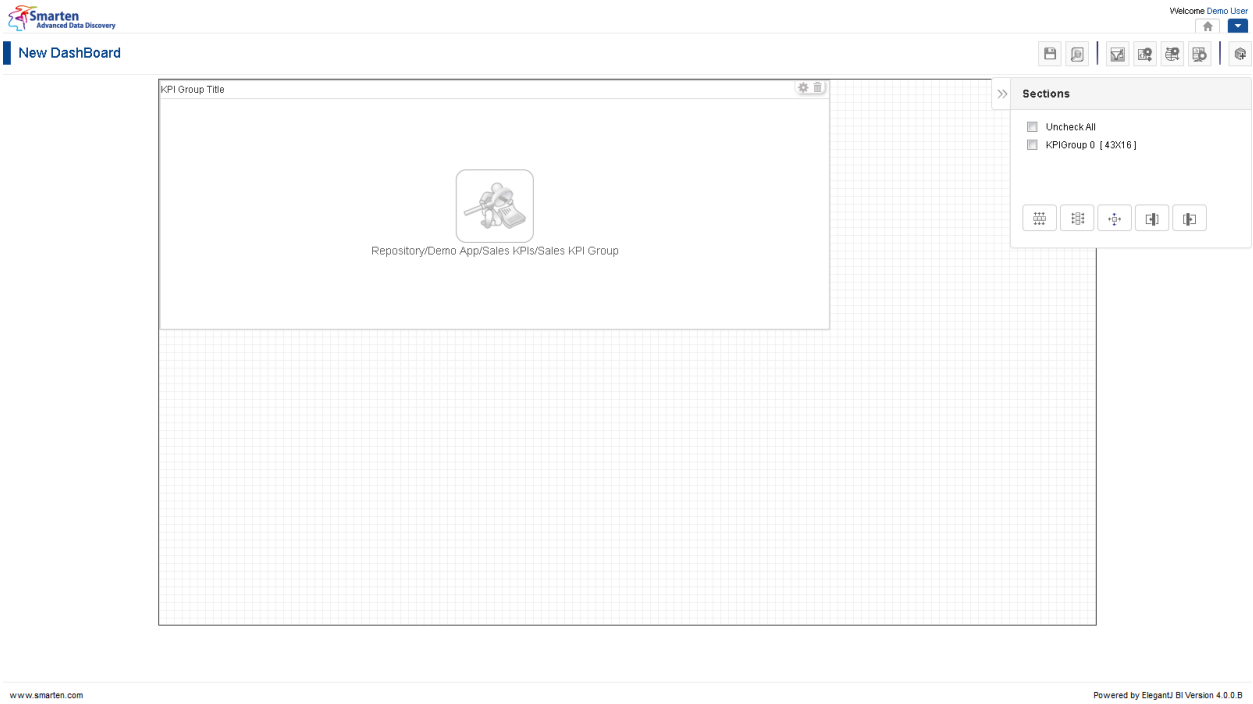
Procedure

1. Follow the **Procedure** of **Create new from scratch** or **Create new from existing**.
2. In the Add **section** dialog box, select **KPI group**.

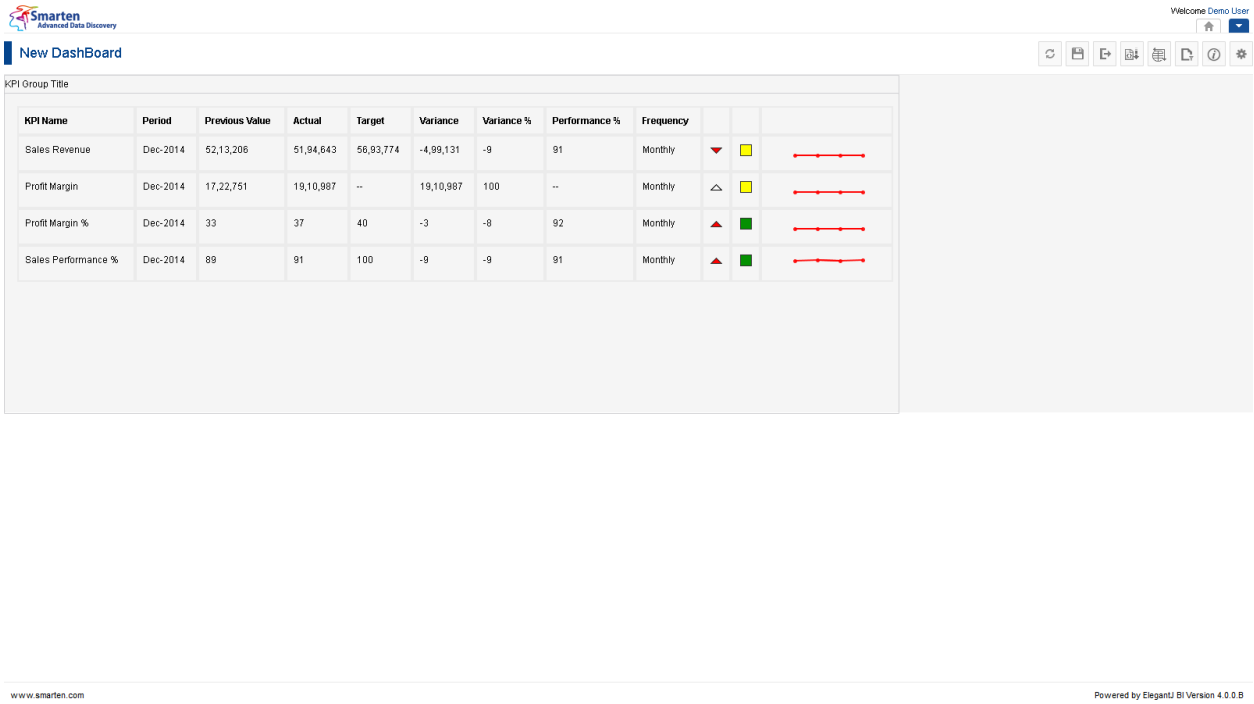


DASHBOARD: ADD KPI GROUP SECTION

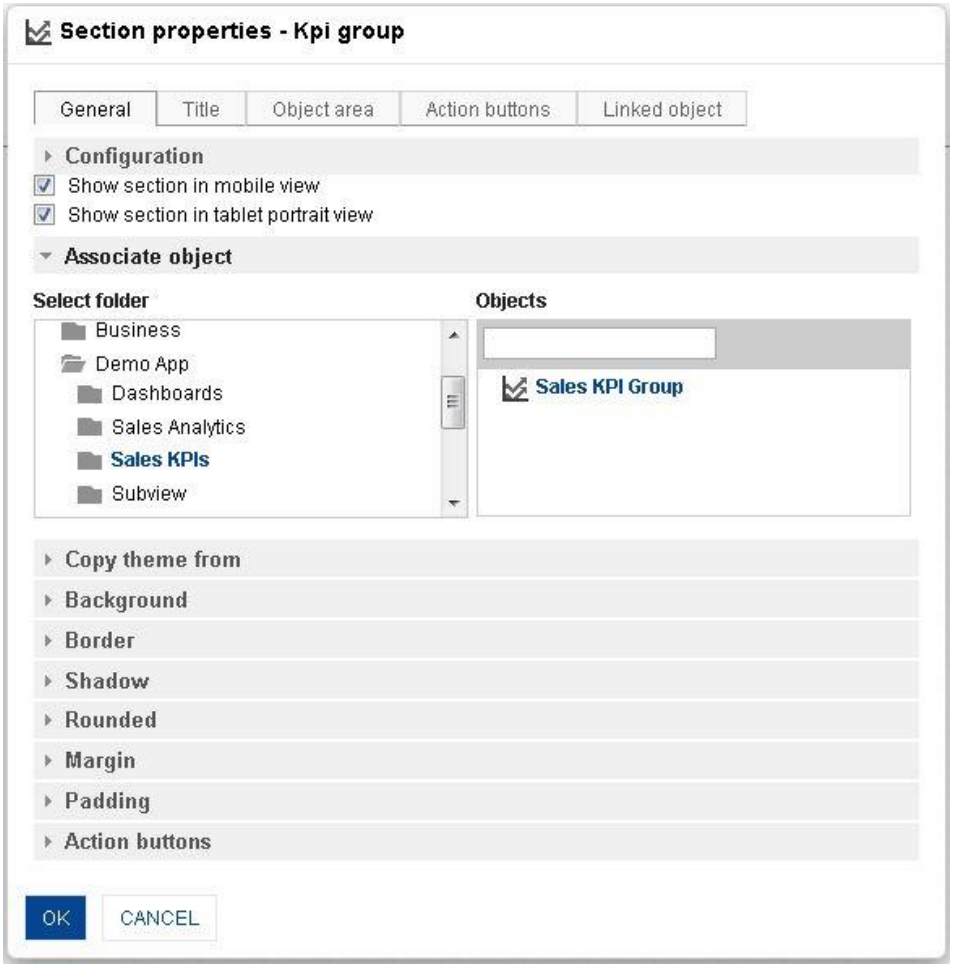
3. Click **Add.**
   The system displays the selected **KPI group** section in the dashboard.



DASHBOARD: KPI GROUP SECTION—DESIGN



DASHBOARD: KPI GROUP SECTION—PREVIEW



DASHBOARD: SECTION PROPERTIES—KPI GROUP

4. In the **KPI group** section, click the **Setting** icon.
5. The system displays the **Section properties** – **"Section"** dialog box, in this case **Section properties** – **KPI group** dialog box.

6. To configure the properties, select the tab and enter/select the values in the various fields.
7. Click the **Delete** icon in the **KPI group** section to delete section from the dashboard.
8. Click **OK**.

> Note:
> You can place objects created from different cube types (Cache cube, Real-time cube and MDX cube) in dashboard. For example, it is possible to use one crosstab created from cache cube, one tabular created from real-time cube and one graph created from MDX cube in a dashboard

The following tables list all the KPI group section properties.

Element	Properties	Sub Properties	Default Value	Values
Configuration	Id		Id name	Any string value
	Show section in mobile view		TRUE	True/False
	Show section in tablet portrait view		TRUE	True/False
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10

Element	Properties	Sub Properties	Default Value	Values
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Action buttons	Visible			
	Link		TRUE	True/False
	Open		TRUE	True/False

SECTION PROPERTIES—KPI GROUP: GENERAL

Element	Properties	Sub Properties	Default Value	Values
Configuration	Visible		TRUE	True/False
	Title			Any String Value
	Title panel	Position	Top	Left/Right/Center
		Adjust width to text	FALSE	True/False
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)

Element	Properties	Sub Properties	Default Value	Values
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D0D0D3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—KPI GROUP: TITLE

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image

Element	Properties	Sub Properties	Default Value	Values
				formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	FALSE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—KPI GROUP: OBJECT AREA

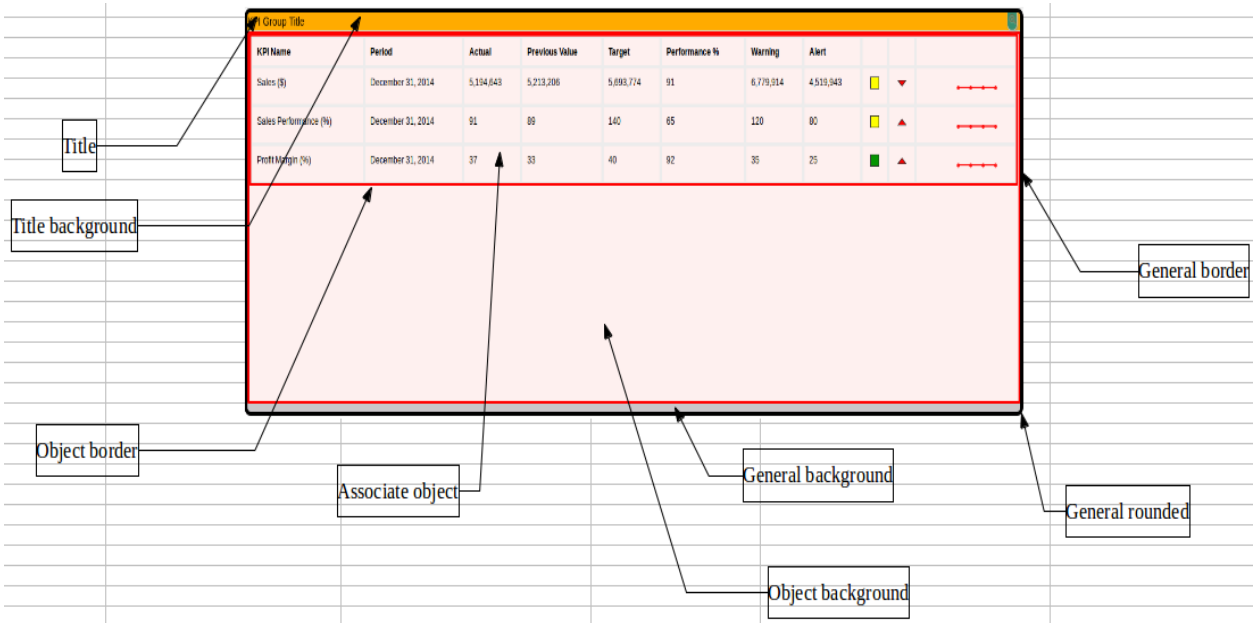
Element	Properties	Sub Properties	Default Value	Values
Background	Visible		TRUE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF

Element	Properties	Sub Properties	Default Value	Values
	Transparent		FALSE	True/False
Border		Visible	FALSE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		7	0 – 20
	Bottom right		7	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.40%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—KPI GROUP: ACTION BUTTONS

Element	Properties	Sub Properties	Default Value	Values
	None		TRUE	True/False
	Link to web		FALSE	True/False
	Link to repository		FALSE	True/False
	Apply dashboard section filter		FALSE	True/False

SECTION PROPERTIES—KPI GROUP: LINKED OBJECT SETTING

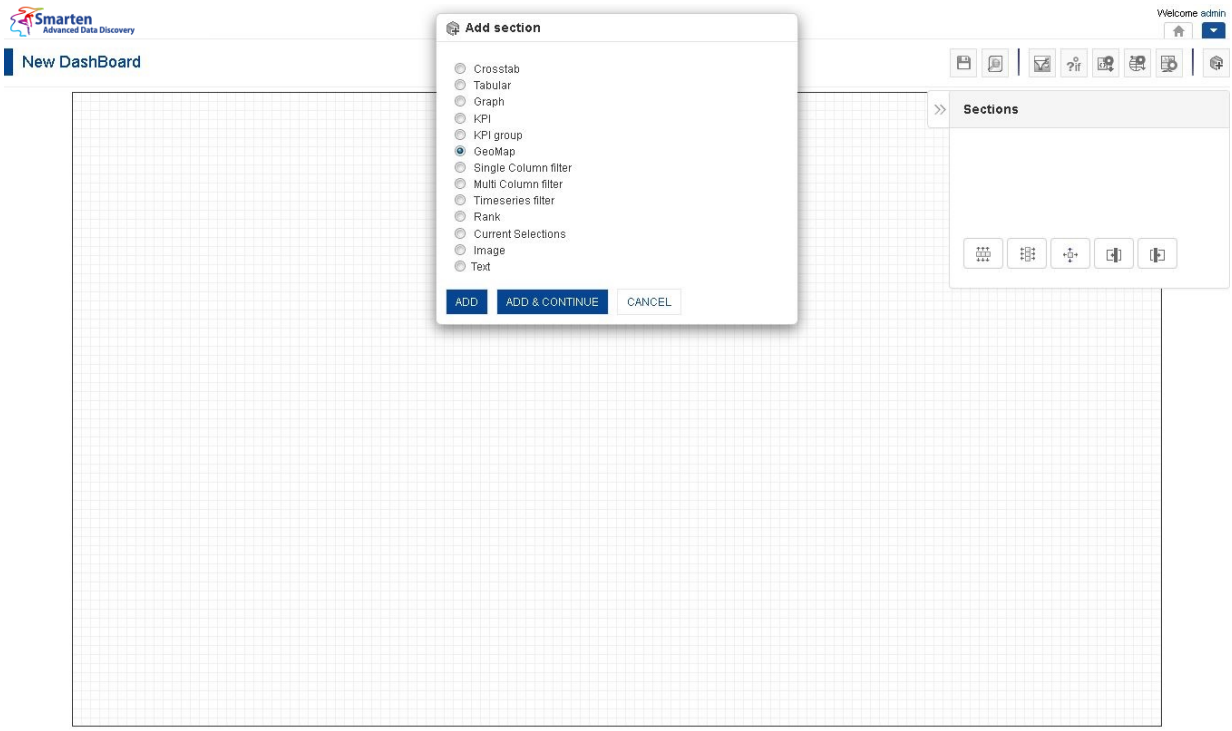


SECTION PROPERTIES—KPI GROUP: VARIOUS ELEMENTS

8.3.1.6 GeoMap

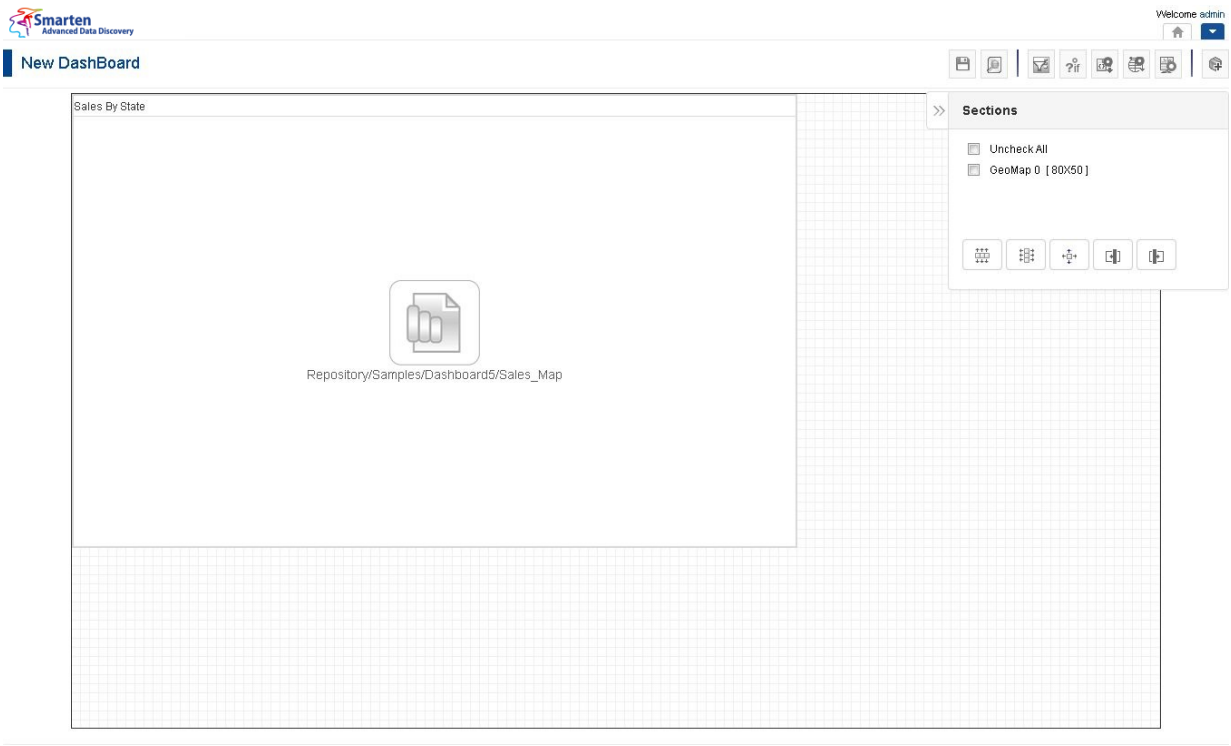
Procedure

1. Follow the **Procedure** of **Create new from scratch** or **Create new from existing**.
2. In the Add **section** dialog box, select **GeoMap**.

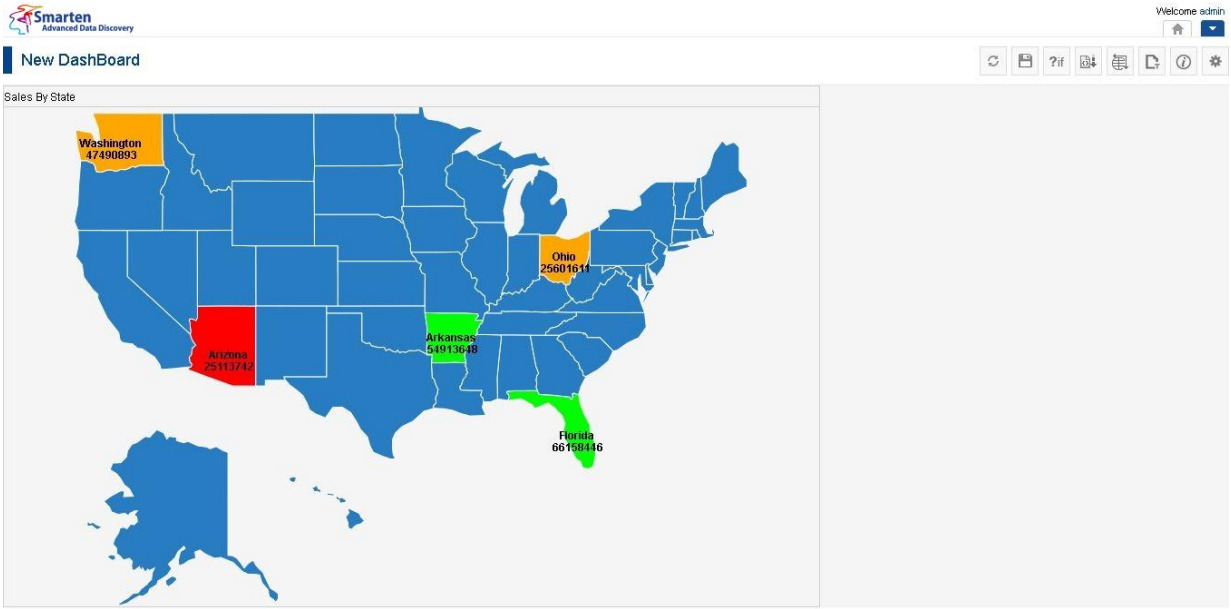


DASHBOARD: ADD GEOMAP SECTION

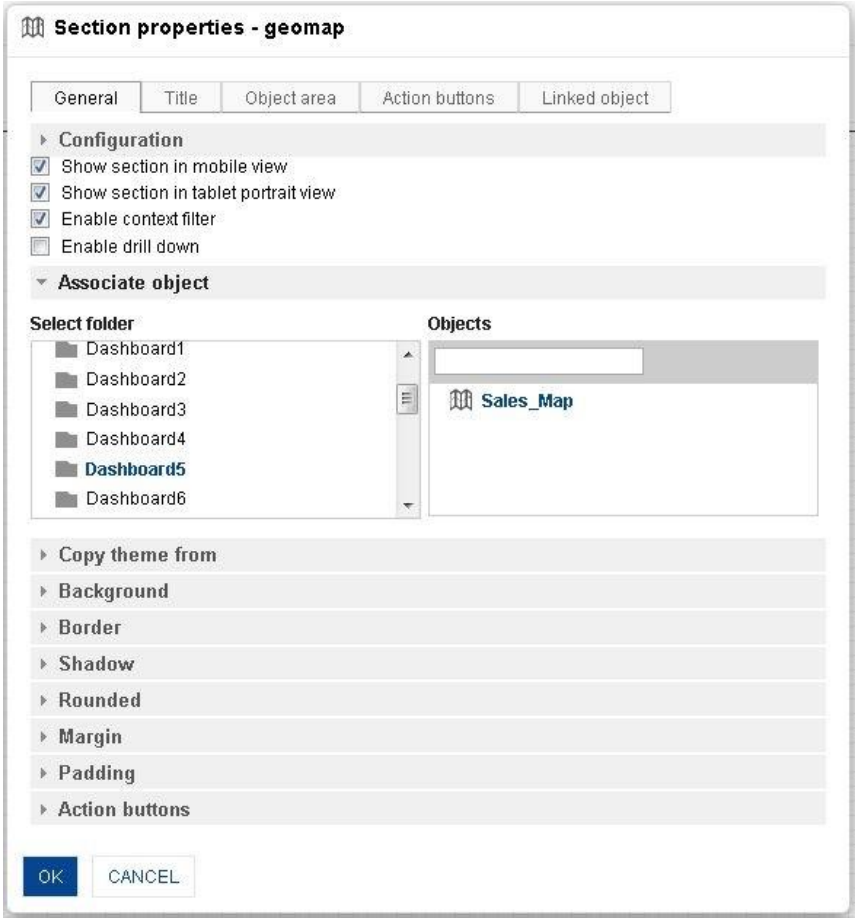
3. Click **Add.**
   The system displays the selected **GeoMap** section in the dashboard.



DASHBOARD: GEOMAP SECTION—DESIGN



DASHBOARD: GEOMAP SECTION—PREVIEW



DASHBOARD: SECTION PROPERTIES—GEOMAP

4. In the **GeoMap** section, click the **Setting** icon.
5. The system displays the **Section properties** – **"Section"** dialog box, in this case **Section properties** – **GeoMap** dialog box.
6. To configure the properties, select the tab and enter/select the values in the various fields.
7. Click the **Delete** icon in the **GeoMap** section to delete section from the dashboard.
8. Click **OK**.

> Note:
> You can place objects created from different cube types (Cache cube, Real-time cube and MDX cube) in dashboard. For example, it is possible to use one crosstab created from cache cube, one tabular created from real-time cube and one graph created from MDX cube in a dashboard

The following tables list all the GeoMap section properties.

Element	Properties	Sub Properties	Default Value	Values
Configuration	Id		Id name	Any string value
	Show section in mobile view		TRUE	True/False
	Show section in tablet portrait view		TRUE	True/False
	Enable context filter		TRUE	True/False
	Enable drill down		TRUE	True/False

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Action buttons	Visible			
	Link		TRUE	True/False

Element	Properties	Sub Properties	Default Value	Values
	Open		TRUE	True/False

SECTION PROPERTIES—GEOMAP: GENERAL

Element	Properties	Sub Properties	Default Value	Values
Configuration	Visible		TRUE	True/False
	Title			Any String Value
	Title panel	Position	Top	Left/Right/Top/Bottom
		Adjust width to text	FALSE	True/False
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot

Element	Properties	Sub Properties	Default Value	Values
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D0D0D3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—GEOMAP: TITLE

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	FALSE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10

Element	Properties	Sub Properties	Default Value	Values
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—GEOMAP: OBJECT AREA

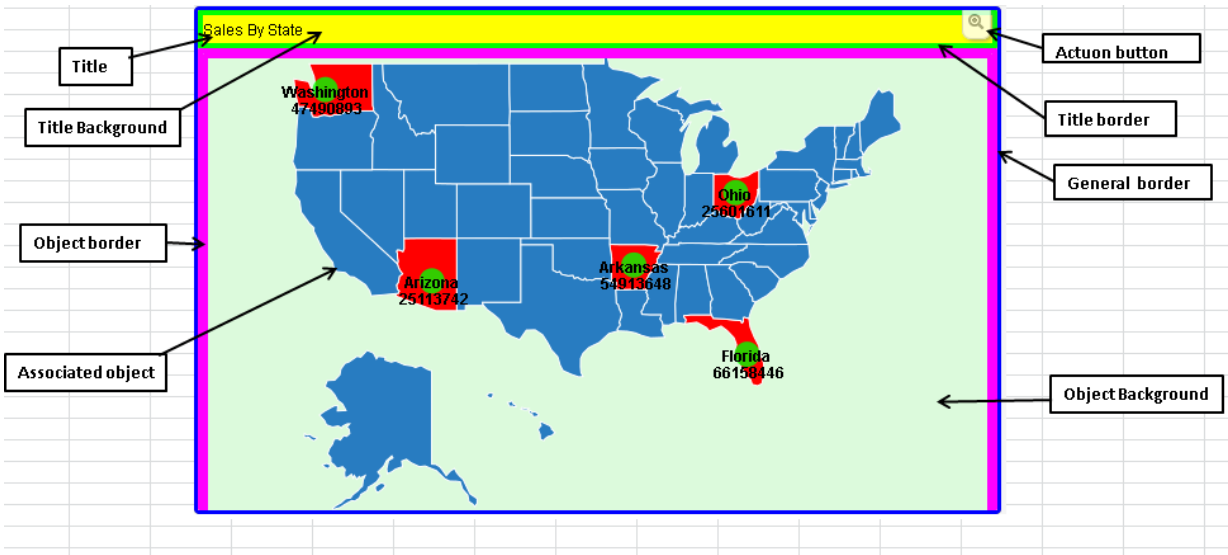
Element	Properties	Sub Properties	Default Value	Values
Background	Visible		TRUE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	FALSE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		7	0 – 20

Element	Properties	Sub Properties	Default Value	Values
	Bottom right		7	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.40%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—GEOMAP: ACTION BUTTONS

Element	Properties	Sub Properties	Default Value	Values
	None		TRUE	True/False
	Link to web		FALSE	True/False
	Link to repository		FALSE	True/False
	Apply dashboard section filter		FALSE	True/False

SECTION PROPERTIES—GEOMAP: LINKED OBJECT SETTING

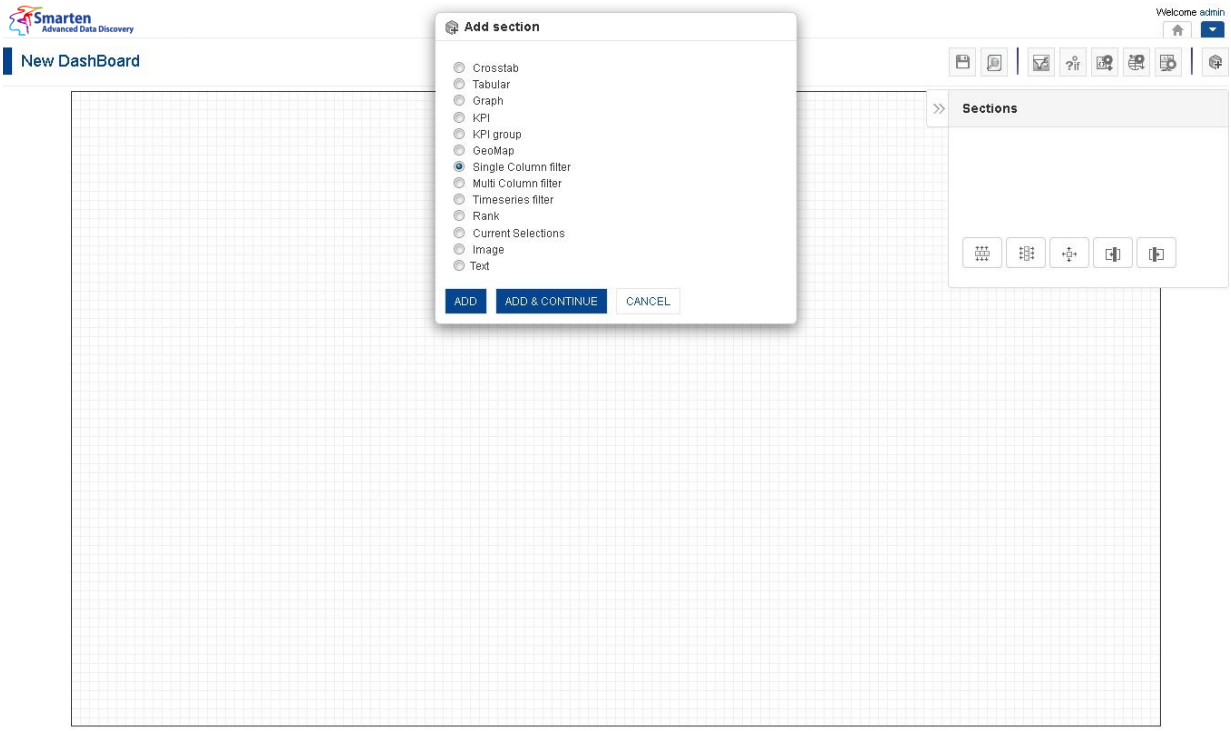


SECTION PROPERTIES—GEOMAP: VARIOUS ELEMENTS

8.3.1.7 Single column filter

Procedure

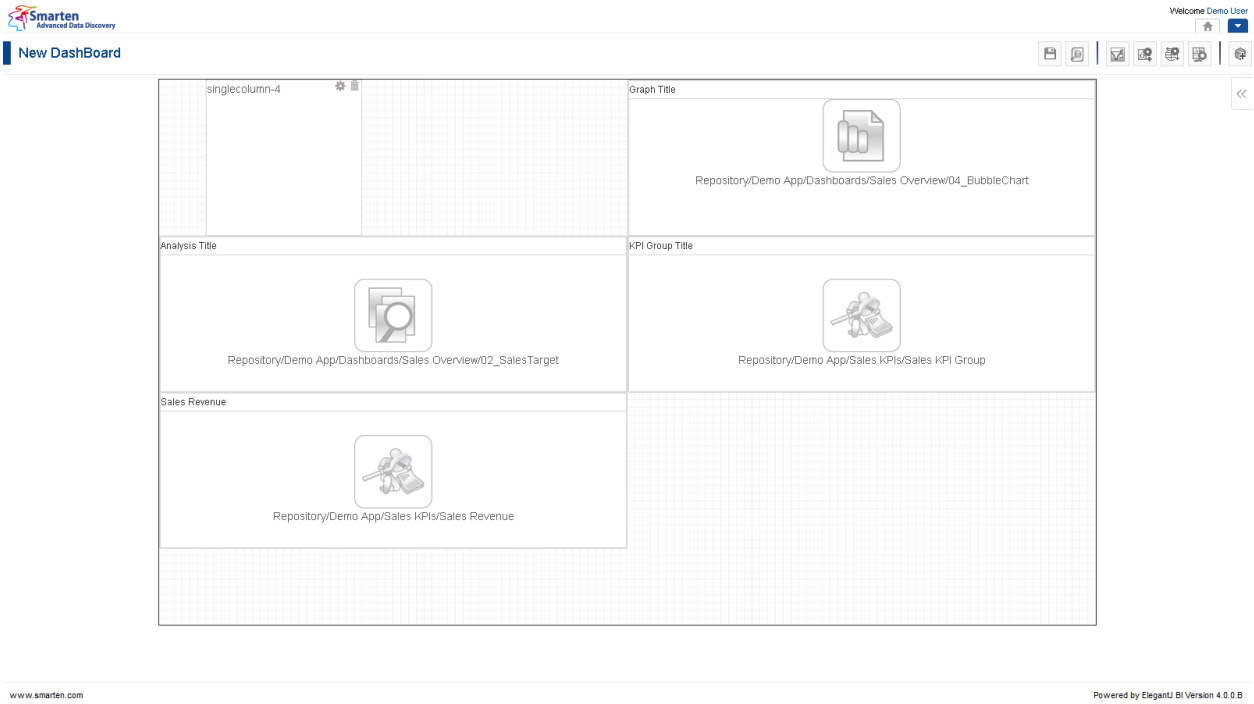
1. Follow the **Procedure** of **Create new from scratch** or **Create new from existing**.
2. In the Add **section** dialog box, **select Single column filter**.



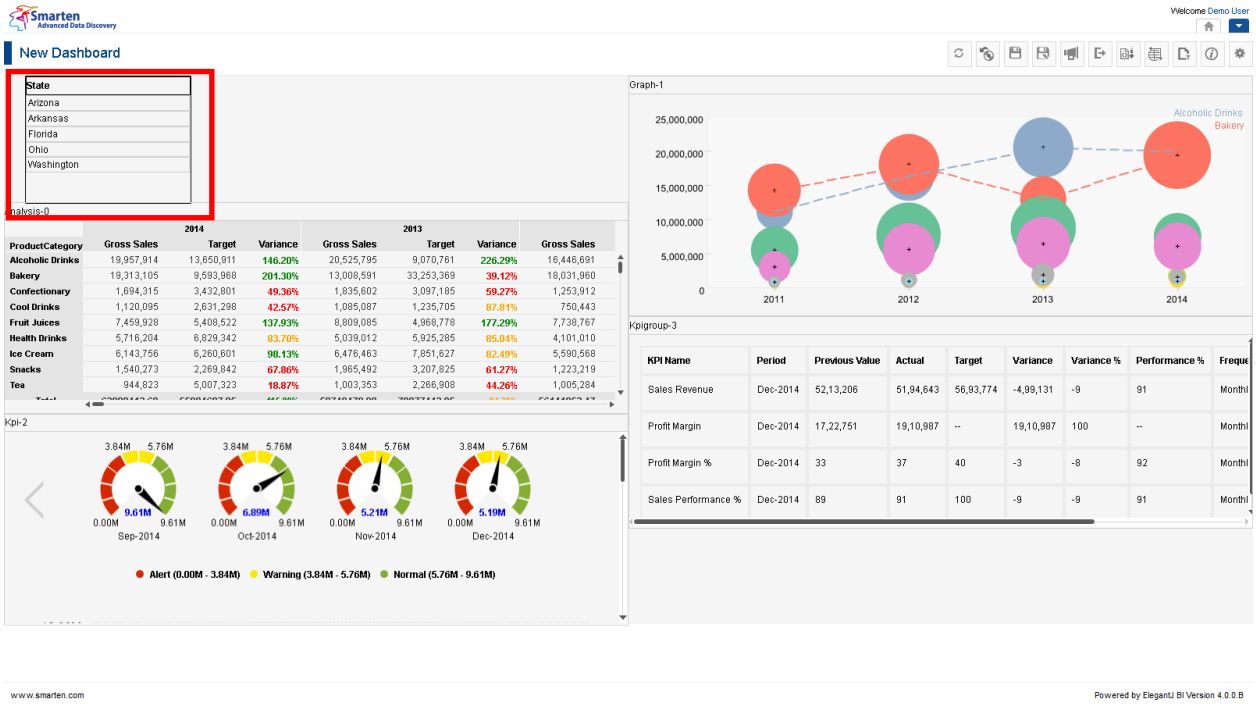
DASHBOARD: ADD SINGLE COLUMN FILTER SECTION

3. Click **Add.**

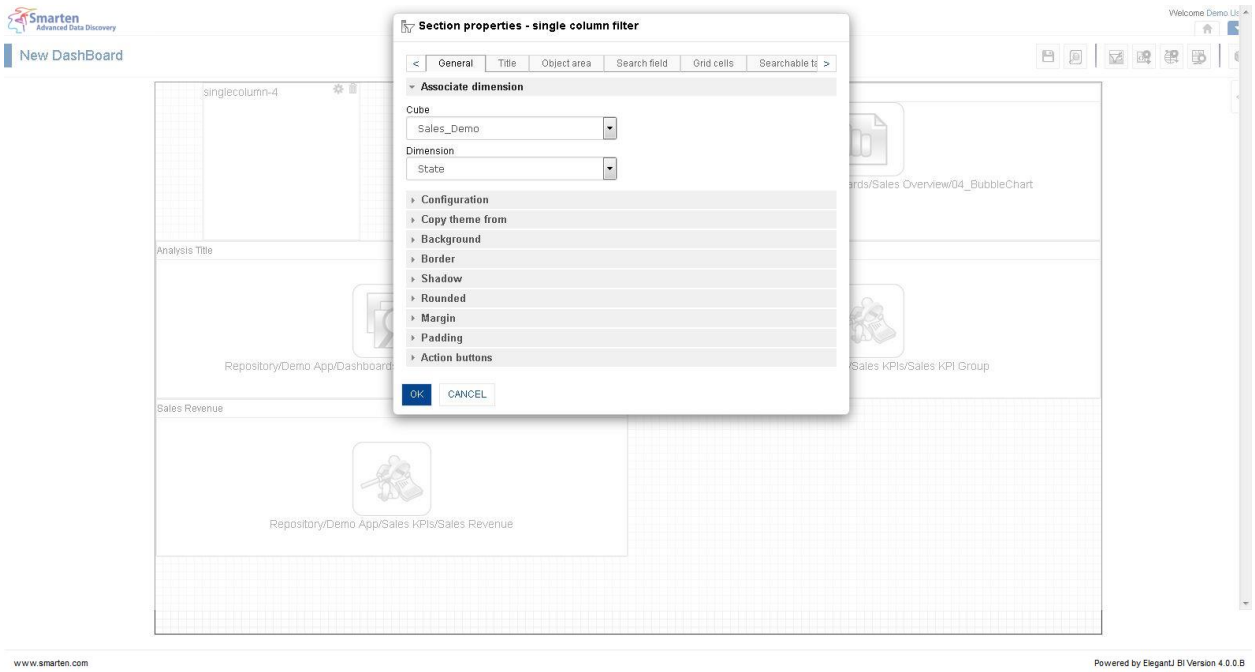
The system displays the selected **Single column filter** section in the dashboard.



DASHBOARD: SINGLE COLUMN FILTER SECTION—DESIGN

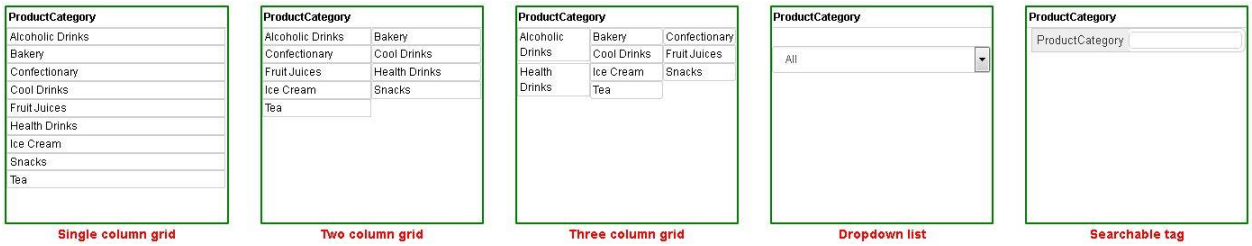


DASHBOARD: SINGLE COLUMN FILTER SECTION—PREVIEW



DASHBOARD: SECTION PROPERTIES—SINGLE COLUMN FILTER

4. In the **Single column filter** section, click the **Setting** icon.
5. The system displays the **Section properties** – **"Section"** dialog box, in this case **Section properties** – **Single column filter** dialog box.
6. To configure the properties, select the tab and enter/select the values in the various fields.
7. Click the **Delete** icon in the **Single column filter** section to delete section from the dashboard.
8. Click **OK**.



SINGLE COLUMN FILTER: SELECTION OPTIONS

The following tables list all the Single column filter section properties.

Element	Properties	Sub Properties	Default Value	Values
Associate dimension	Cube			
	Dimension			
Configuration	Component Type		Single Column Grid	Single Column Grid/Two Column Grid/Three Column Grid/Free Flow Grid/Dropdown List/Searchable Tags
	Mandatory filter			True/false
	Selection type		Multiple	Multiple/Simple
	Show selection in mobile view		TRUE	True/False
	Show selection in tablet portrait view		TRUE	True/False
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF

Element	Properties	Sub Properties	Default Value	Values
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %
Padding	All		0	0 – 100 %
	Top		0	0 – 100 %
	Bottom		0	0 – 100 %
	Left		0	0 – 100 %
	Right		0	0 – 100 %
Action buttons	Visible			
	Clear		TRUE	True/False

SECTION PROPERTIES—SINGLE COLUMN FILTER: GENERAL

Element	Properties	Sub Properties	Default Value	Values
Configuration	Visible		TRUE	True/False
	Title			Any String Value
	Title panel	Position	Top	Left/Right/Center
		Adjust width to text	FALSE	True/False
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)

Element	Properties	Sub Properties	Default Value	Values
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#D0D0D3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.50%	0 – 100 %
	Left		0.30%	0 – 100 %
	Right		0.30%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—SINGLE COLUMN FILTER: TITLE

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image

Element	Properties	Sub Properties	Default Value	Values
				formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—SINGLE COLUMN FILTER: OBJECT AREA

Element	Properties	Sub Properties	Default Value	Values
Configuration	Visible		FALSE	True/False
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72

Element	Properties	Sub Properties	Default Value	Values
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—SINGLE COLUMN FILTER: SEARCH FIELD

Element	Properties	Sub Properties	Default Value	Values
Default				
Font and text	Name		Arial	System Fonts
	Style			B, I, U

Element	Properties	Sub Properties	Default Value	Values
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %

Element	Properties	Sub Properties	Default Value	Values
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.20%	0 – 100 %
	Bottom		0.10%	0 – 100 %
	Left		0.90%	0 – 100 %
	Right		0.90%	0 – 100 %
Mouse over				
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10

Element	Properties	Sub Properties	Default Value	Values
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.20%	0 – 100 %
	Bottom		0.10%	0 – 100 %
	Left		0.90%	0 – 100 %
	Right		0.90%	0 – 100 %
Selected				
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#014C99	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False

Element	Properties	Sub Properties	Default Value	Values
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.20%	0 – 100 %
	Bottom		0.10%	0 – 100 %
	Left		0.90%	0 – 100 %
	Right		0.90%	0 – 100 %

SECTION PROPERTIES—SINGLE COLUMN FILTER: GRID CELLS

Element	Properties	Sub Properties	Default Value	Values
Input field				
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF

Element	Properties	Sub Properties	Default Value	Values
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.50%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Dropdown Panel				
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image

Element	Properties	Sub Properties	Default Value	Values
				formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.50%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Selected tags				
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Low ercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Just ify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5

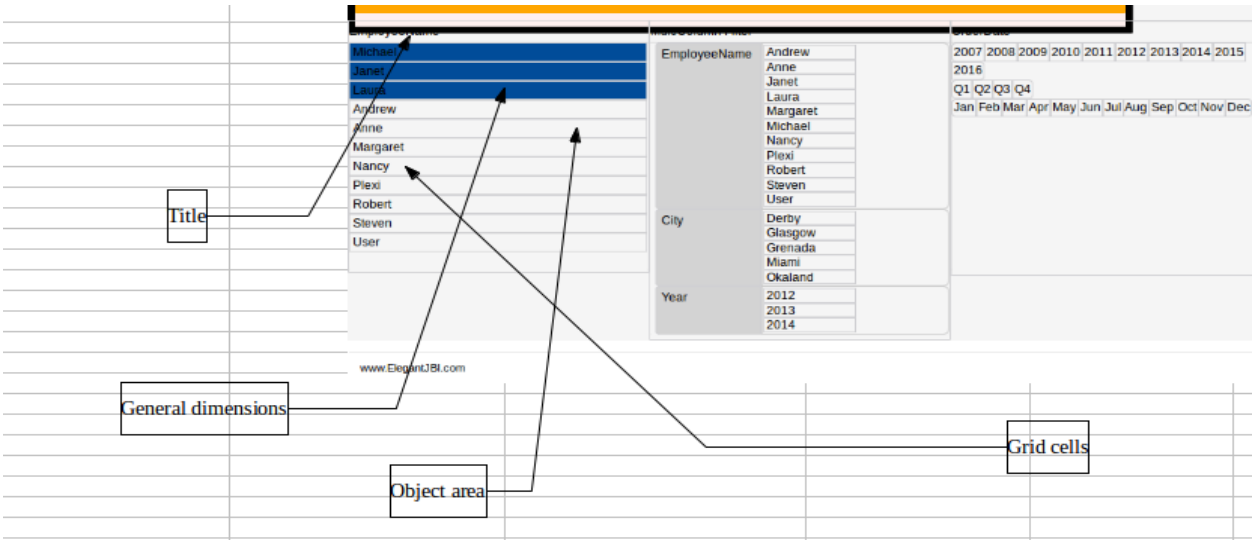
Element	Properties	Sub Properties	Default Value	Values
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.30%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Mouse over	Font Color		#000000	#000000 - #FFFFFF
	Background Color		#000000	#000000 - #FFFFFF

SECTION PROPERTIES—SINGLE COLUMN FILTER: SEARCHABLE TAGS

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		TRUE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10

Element	Properties	Sub Properties	Default Value	Values
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		7	0 – 20
	Bottom right		7	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.40%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—SINGLE COLUMN FILTER: ACTION BUTTONS



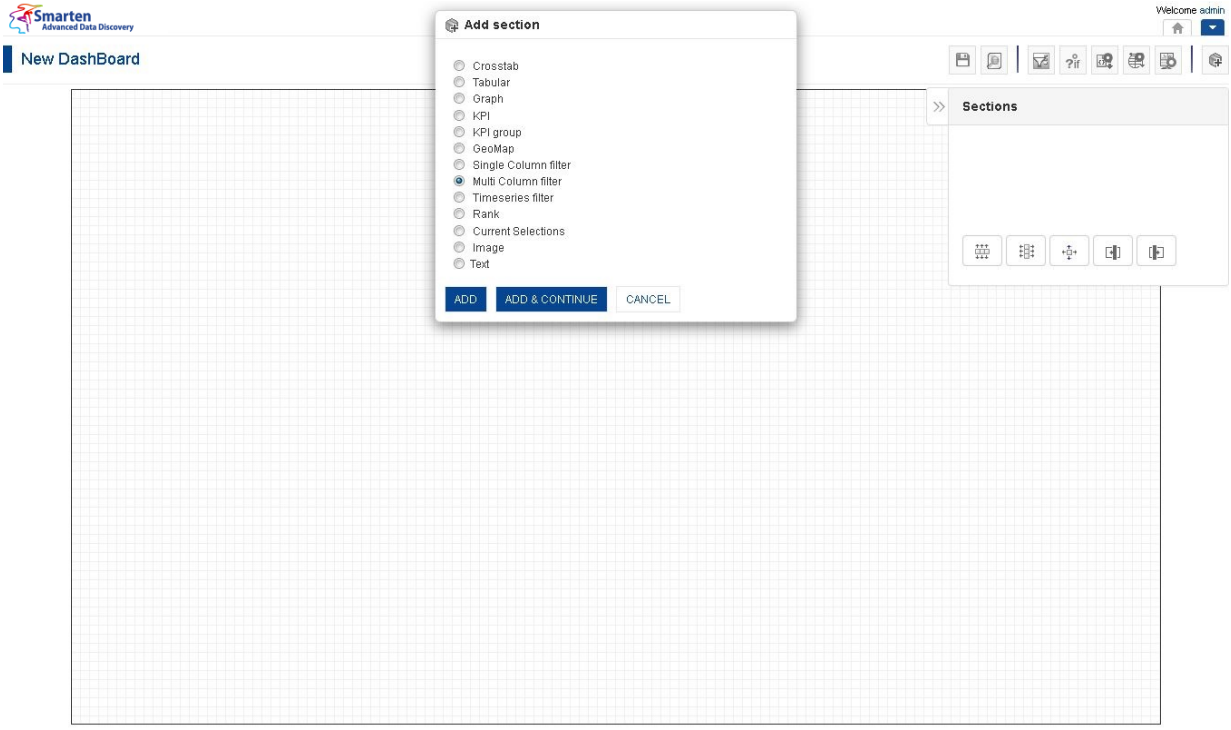
SECTION PROPERTIES—SINGLE COLUMN FILTER: VARIOUS ELEMENTS

8.3.1.8 Multicolumn filter

Procedure

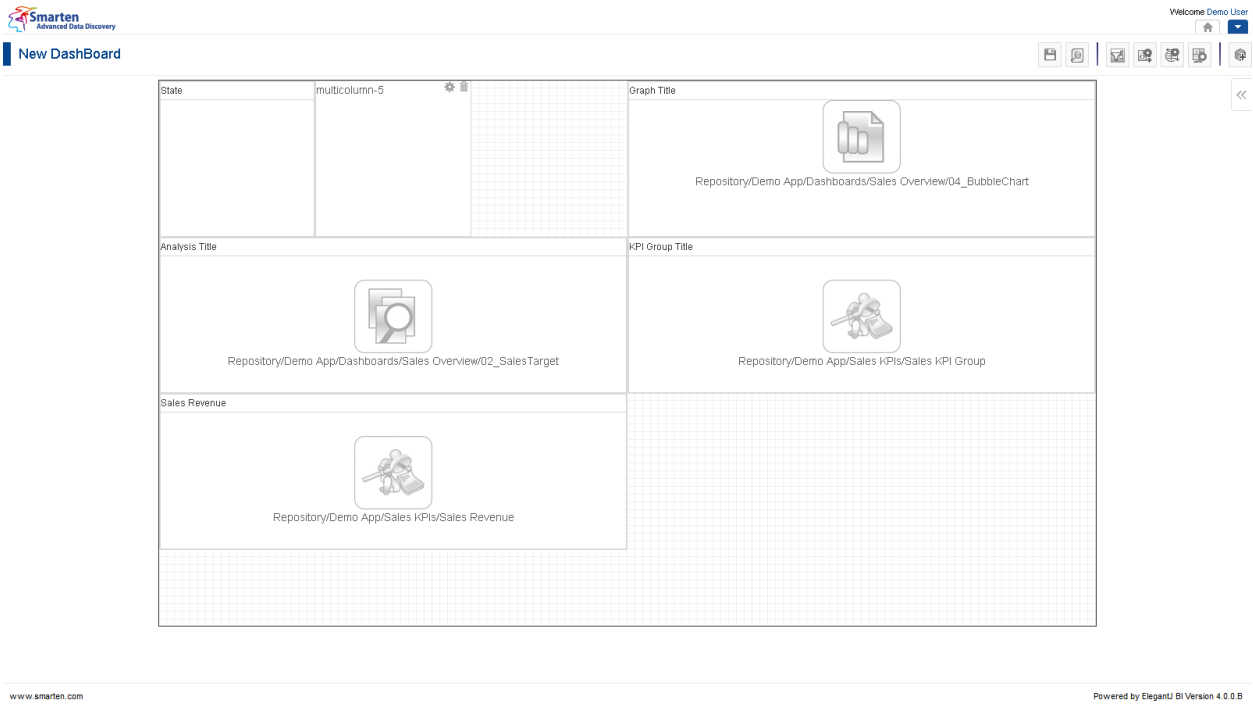
1. Follow the **Procedure** of **Create new from scratch** or **Create new from existing.**

2. In the Add **section** dialog box, select **Multicolumn filter**.

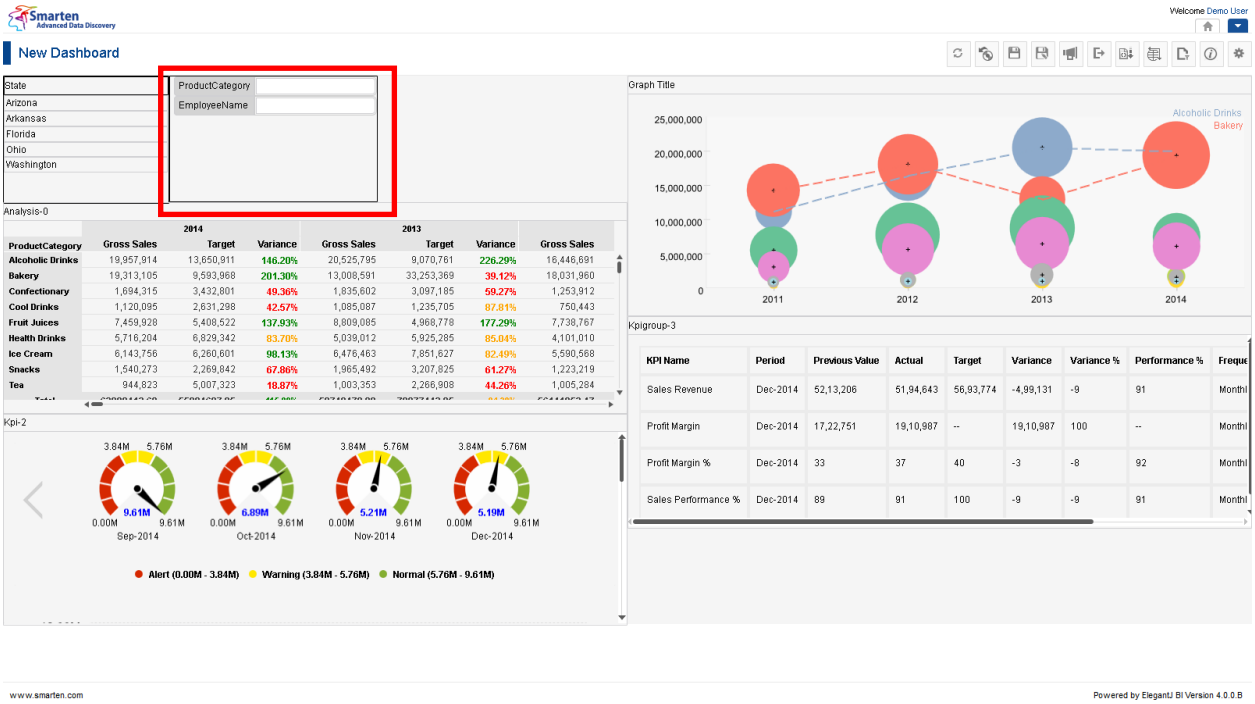


DASHBOARD: ADD MULTICOLUMN COLUMN FILTER SECTION

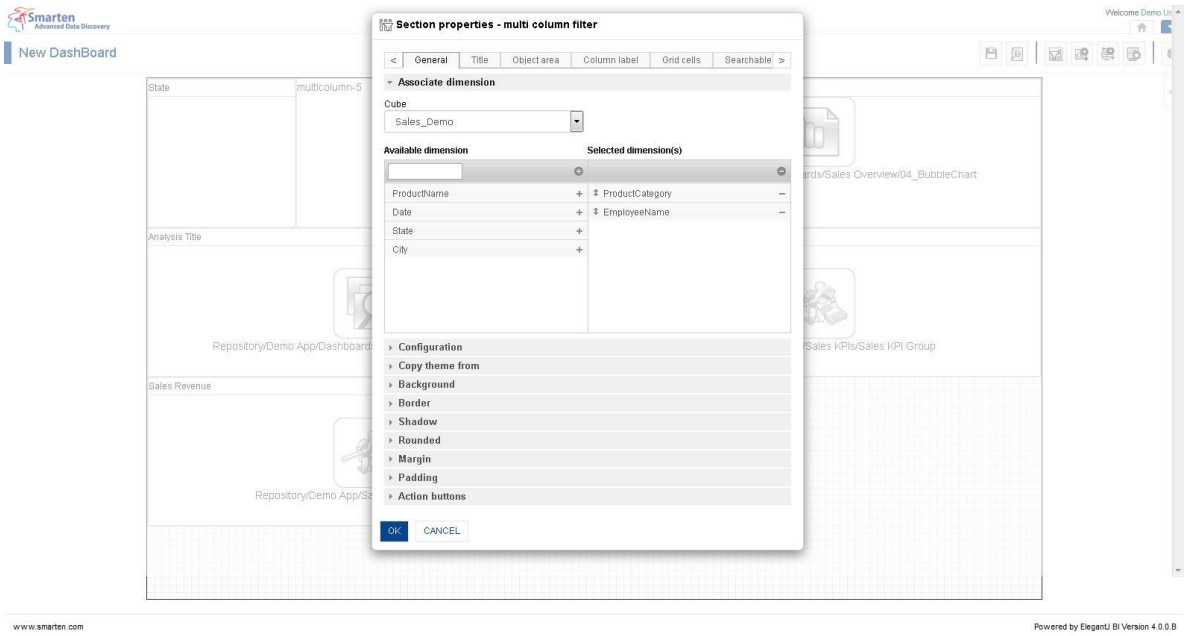
3. Click **Add.**
   The system displays the selected **Multicolumn filter** section in the dashboard.



DASHBOARD: MULTICOLUMN COLUMN FILTER SECTION—DESIGN



DASHBOARD: MULTICOLUMN COLUMN FILTER SECTION—PREVIEW



DASHBOARD: SECTION PROPERTIES—MULTICOLUMN FILTER

4. In the **Multicolumn filter** section, click the **Setting** icon.
5. The system displays the **Section properties – "Section"** dialog box, in this case **Section properties – Multicolumn filter** dialog box.
6. To configure the properties, select the tab and enter/select the values in the various fields.
7. Click the **Delete** icon in the **Multicolumn filter** section to delete section from the dashboard.
8. Click **OK.**

MULTICOLUMN FILTER: SELECTION OPTIONS

The following tables list all the Multicolumn filter section properties.

Element	Properties	Sub Properties	Default Value	Values
Associate dimension	Cube			List of cubes
	Available Dimension			List of available dimension of selected cube
	Selected Dimension			List of selected dimension
Configuration	Show selection in mobile view		TRUE	True/False
	Show selection in tablet portrait view		TRUE	True/False
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20

Element	Properties	Sub Properties	Default Value	Values
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Action buttons	Clear		TRUE	True/False

SECTION PROPERTIES—MULTICOLUMN FILTER: GENERAL

Element	Properties	Sub Properties	Default Value	Values
Configuration	Visible		TRUE	True/False
	Title			Any String Value
	Title panel	Position	Top	Left/Right/Center
		Adjust width to text	FALSE	True/False
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10

Element	Properties	Sub Properties	Default Value	Values
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D0D0D3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—MULTICOLUMN FILTER: TITLE

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10

Element	Properties	Sub Properties	Default Value	Values
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—MULTICOLUMN FILTER: OBJECT AREA

Element	Properties	Sub Properties	Default Value	Values
Configuration	Show cube name(s)		FALSE	True/False
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		TRUE	True/False
	Color		#D3d3d3	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Margin	All		0 px	0 – 100 %
	Top		0 px	0 – 100 %
	Bottom		0 px	0 – 100 %
	Left		0 px	0 – 100 %
	Right		0 px	0 – 100 %
Padding	All		5 px	0 – 100 %
	Top		0 px	0 – 100 %
	Bottom		0 px	0 – 100 %
	Left		0 px	0 – 100 %
	Right		0 px	0 – 100 %

SECTION PROPERTIES—MULTICOLUMN FILTER: COLUMN LABEL

Element	Properties	Sub Properties	Default Value	Values
Default				
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Low ercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5

Element	Properties	Sub Properties	Default Value	Values
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.20%	0 – 100 %
	Bottom		0.10%	0 – 100 %
	Left		0.90%	0 – 100 %
	Right		0.90%	0 – 100 %

Element	Properties	Sub Properties	Default Value	Values
Mouse over				
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %

Element	Properties	Sub Properties	Default Value	Values
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.20%	0 – 100 %
	Bottom		0.10%	0 – 100 %
	Left		0.90%	0 – 100 %
	Right		0.90%	0 – 100 %
Selected				
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#014C99	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot

Element	Properties	Sub Properties	Default Value	Values
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.20%	0 – 100 %
	Bottom		0.10%	0 – 100 %
	Left		0.90%	0 – 100 %
	Right		0.90%	0 – 100 %

SECTION PROPERTIES—MULTICOLUMN FILTER: GRID CELLS

Element	Properties	Sub Properties	Default Value	Values
Input field				
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF

Element	Properties	Sub Properties	Default Value	Values
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.50%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Dropdown Panel				
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10

Element	Properties	Sub Properties	Default Value	Values
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.50%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Selected tags				
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360

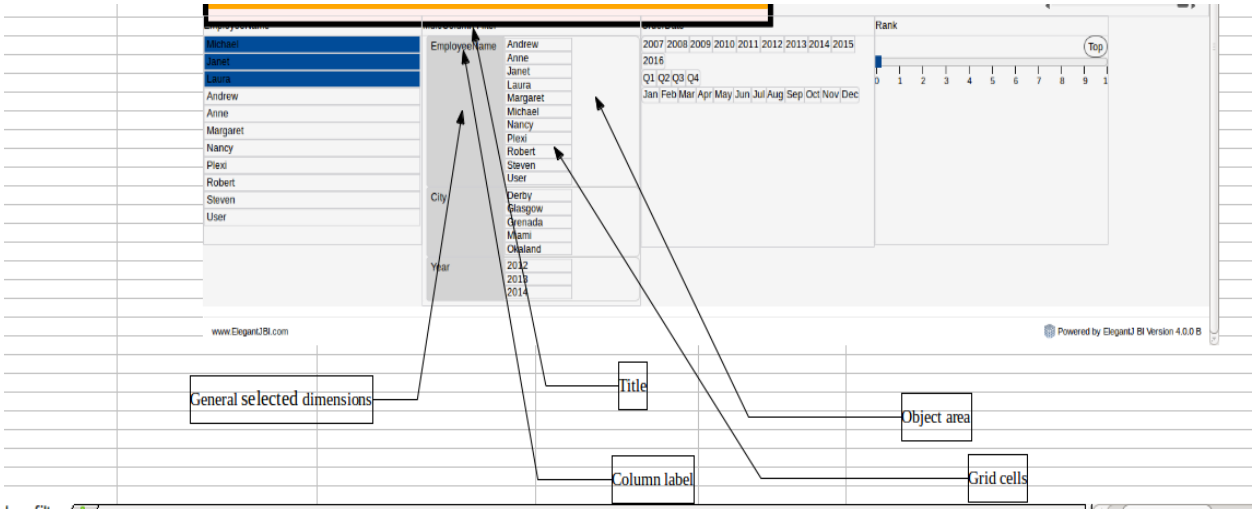
Element	Properties	Sub Properties	Default Value	Values
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.30%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Mouse over	Font Color		#000000	#000000 - #FFFFFF
	Background Color		#000000	#000000 - #FFFFFF

SECTION PROPERTIES—MULTICOLUMN FILTER: SEARCHABLE TAGS

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		TRUE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF

Element	Properties	Sub Properties	Default Value	Values
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		7	0 – 20
	Bottom right		7	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.40%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—MULTICOLUMN FILTER: ACTION BUTTONS

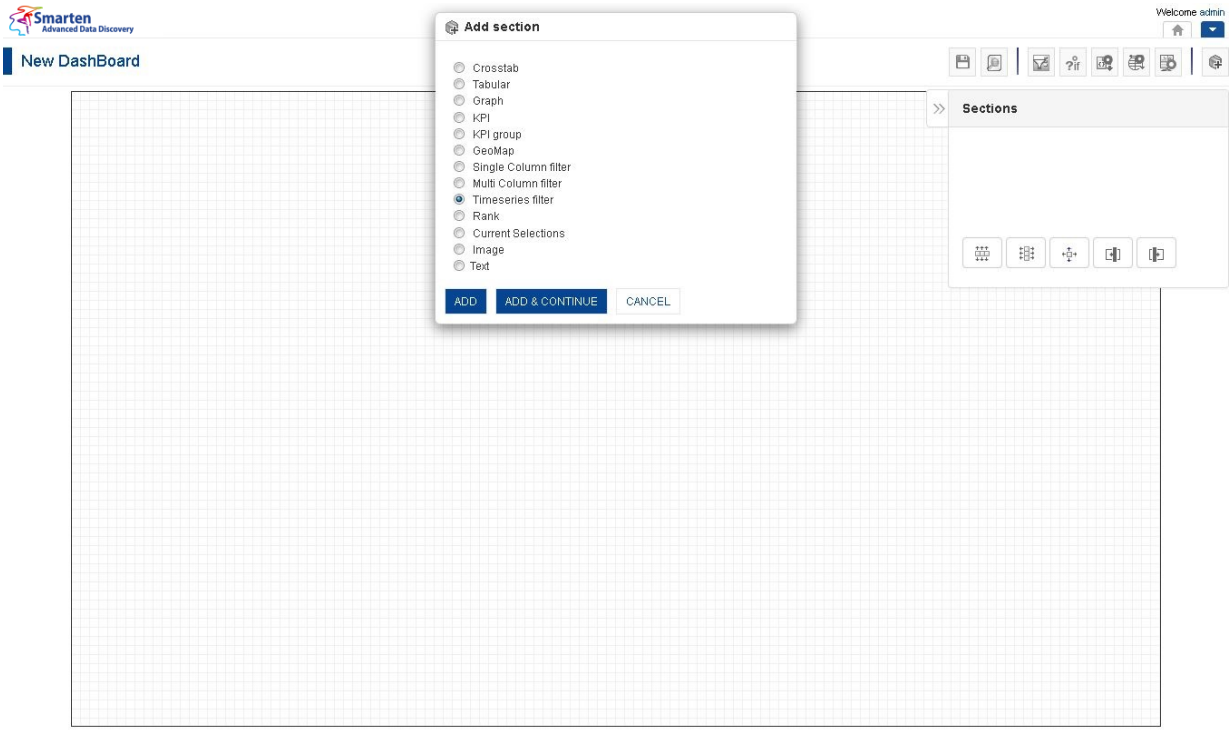


SECTION PROPERTIES—MULTICOLUMN FILTER: VARIOUS ELEMENTS

8.3.1.9 Time Series filter

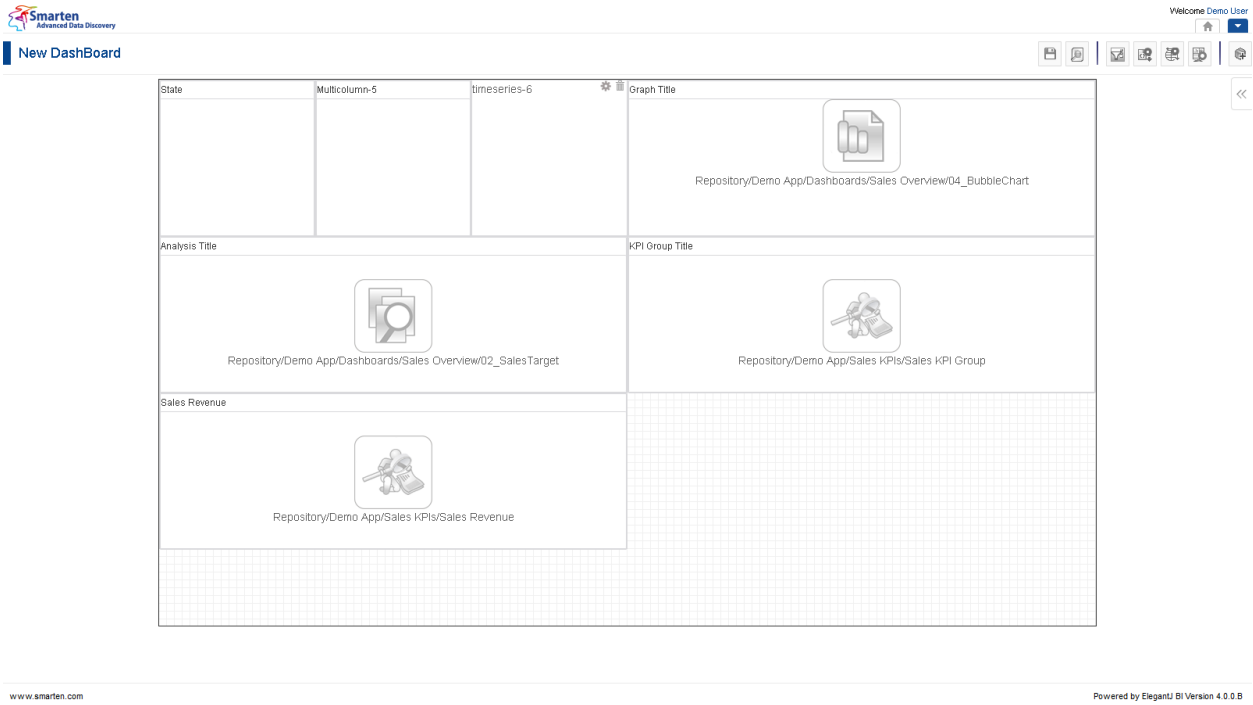
Procedure

1. Follow the **Procedure** of **Create new from scratch** or **Create new from existing**.
2. In the Add **section** dialog box, select **Time series filter**.

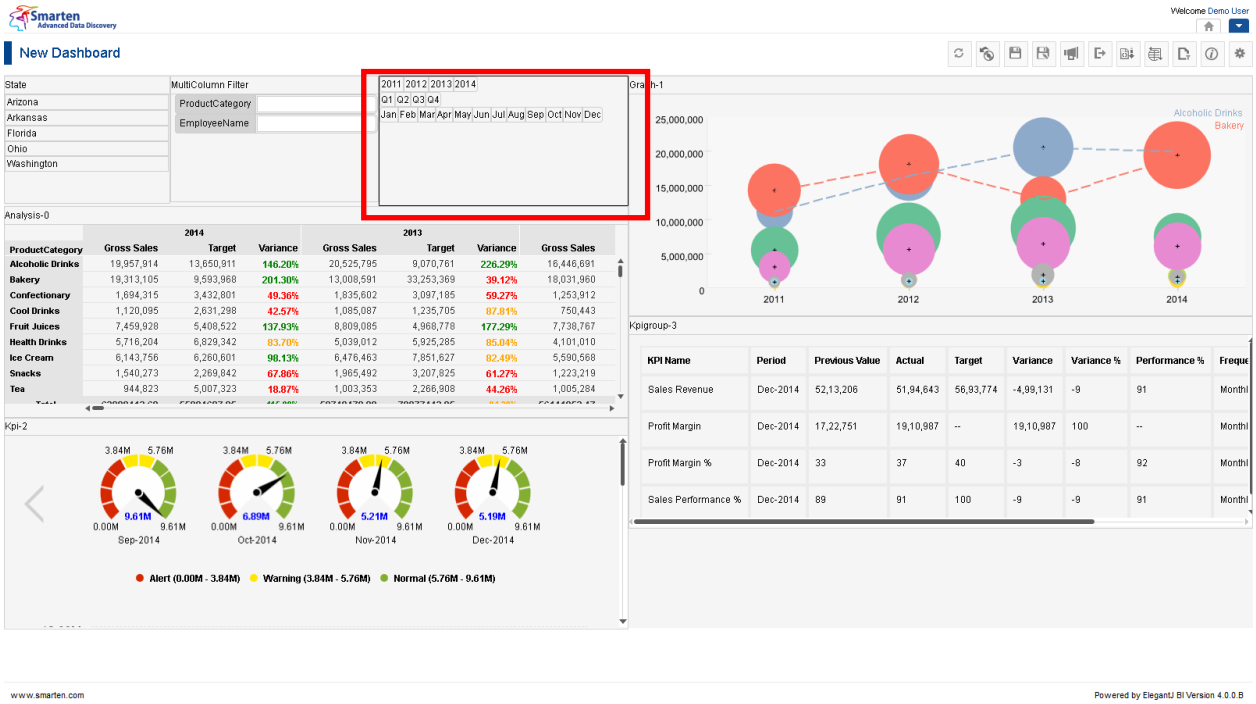


DASHBOARD: ADD TIME SERIES FILTER SECTION

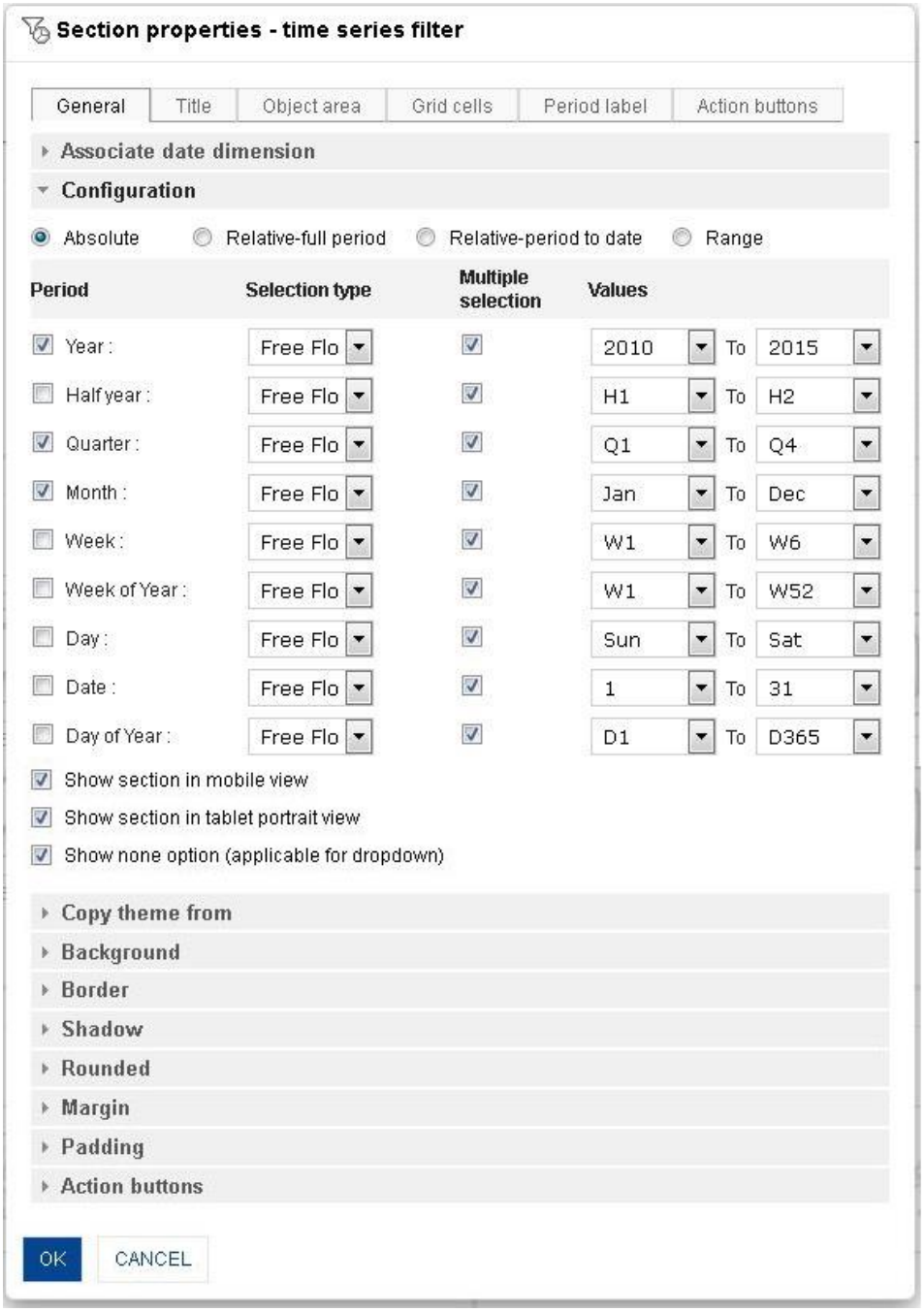
3. Click **Add.**
   The system displays the selected **Time series filter** section in the dashboard.



DASHBOARD: TIME SERIES FILTER SECTION—DESIGN



DASHBOARD: TIME SERIES FILTER SECTION—PREVIEW



DASHBOARD: SECTION PROPERTIES—TIME SERIES FILTER

4. In the **Time series filter** section, click the **Setting** icon.
5. The system displays the **Section properties – "Section"** dialog box, in this case **Section properties – Time series filter** dialog box.
6. To configure the properties, select the tab and enter/select the values in the various fields.
7. Click the **Delete** icon in the **Time series filter** section to delete section from the dashboard.
8. Click **OK.**

TIME SERIES FILTER: SELECTION OPTIONS

The following tables list all the Time series filter section properties.

Element	Properties	Sub Properties	Default Value	Values
Associate dimension	Cube			List of cubes
	Date Dimension			List of available date dimension of selected cube
	Calendar		TRUE	True/False
	Financial		FALSE	True/False
Configuration	Absolute		TRUE	True/False
	Relative-full period		FALSE	True/False
	Relative-period to date		FALSE	True/False
	Range		FALSE	True/False
	Absolute			
	Year	Selection Type	Multiple	Single/Multiple
		Values		Year range
	Half Year	Selection Type	Multiple	Single/Multiple
		Values		H1-H2
	Quarter	Selection Type	Multiple	Single/Multiple
		Values		Q1-Q4
	Month	Selection Type	Multiple	Single/Multiple
		Values		Jan-Dec
	Week	Selection Type	Multiple	Single/Multiple
		Values		W1-W6
	Week of year	Selection Type	Multiple	Single/Multiple
		Values		W1-W52
	Day	Selection Type	Multiple	Single/Multiple
		Values		Sun-Sat
	Date	Selection Type	Multiple	Single/Multiple
		Values		1-31
	Day of year	Selection Type	Multiple	Single/Multiple
		Values		D1-D365
	Relative-full period			
	Year	Selection Type	Multiple	Single/Multiple
		Values	1	1-50
		Show year values	False	True/False
	Half Year	Selection Type	Multiple	Single/Multiple
		Values		1-2
		Show half year values	False	True/False
	Quarter	Selection Type	Multiple	Single/Multiple
		Values		1-4
		Show quarter values	False	True/False
	Month	Selection Type	Multiple	Single/Multiple
		Values		1-12
		Show month values	False	True/False
	Week	Selection Type	Multiple	Single/Multiple
		Values		1-6
		Show week values	False	True/False

Element	Properties	Sub Properties	Default Value	Values
	Week of year	Selection Type	Multiple	Single/Multiple
		Values		W1-W51
		Show week of year values	False	True/False
	Date	Selection Type	Multiple	Single/Multiple
		Values		1-31
		Show date values	False	True/False
	Day of year	Selection Type	Multiple	Single/Multiple
		Values		1-365
		Show day of year values	False	True/False
	Skip empty periods		False	True/False
	Skip to previous higher level period		True	True/False
	Relative-period to date			
	Year to date	Selection Type	Multiple	Single/Multiple
		Values		1-50
	Half year to date	Selection Type	Multiple	Single/Multiple
		Values		1-2
	Quarter to date	Selection Type	Multiple	Single/Multiple
		Values		1-4
	Month to date	Selection Type	Multiple	Single/Multiple
		MTD Date up to	12	Current date,1-31
		Values		1-12
	Week to date	Selection Type	Multiple	Single/Multiple
		WTD Day up to	Sat	Current day, Sun-Sat
		Values		1-6
	Skip empty periods		False	True/False
	Skip to previous higher level period		True	True/False
	Show section in mobile view		TRUE	True/False
	Show section in tablet portrait view		TRUE	True/False
	Show none option (applicable for dropdown)		TRUE	True/False
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10

Element	Properties	Sub Properties	Default Value	Values
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Action buttons	Clear		TRUE	True/False

SECTION PROPERTIES—TIME SERIES FILTER: GENERAL

Element	Properties	Sub Properties	Default Value	Values
Configuration	Visible		TRUE	True/False
	Title			Any String Value
	Title panel	Position	Top	Left/Right/Center
		Adjust width to text	FALSE	True/False
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5

Element	Properties	Sub Properties	Default Value	Values
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D0D0D3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %

Element	Properties	Sub Properties	Default Value	Values
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—TIME SERIES FILTER: TITLE

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	FALSE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

Element	Properties	Sub Properties	Default Value	Values
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—TIME SERIES FILTER: OBJECT AREA

Element	Properties	Sub Properties	Default Value	Values
Default				
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF

Element	Properties	Sub Properties	Default Value	Values
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.20%	0 – 100 %
	Bottom		0.10%	0 – 100 %
	Left		0.90%	0 – 100 %
	Right		0.90%	0 – 100 %
Mouse over				
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF

Element	Properties	Sub Properties	Default Value	Values
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.20%	0 – 100 %
	Bottom		0.10%	0 – 100 %
	Left		0.90%	0 – 100 %
	Right		0.90%	0 – 100 %
Selected				
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#014C99	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom

Element	Properties	Sub Properties	Default Value	Values
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.20%	0 – 100 %
	Bottom		0.10%	0 – 100 %
	Left		0.90%	0 – 100 %
	Right		0.90%	0 – 100 %
Configuration	Show period label		TRUE	True/False
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5

Element	Properties	Sub Properties	Default Value	Values
		Color	#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#014C99	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF

SECTION PROPERTIES—TIME SERIES FILTER: GRID CELLS

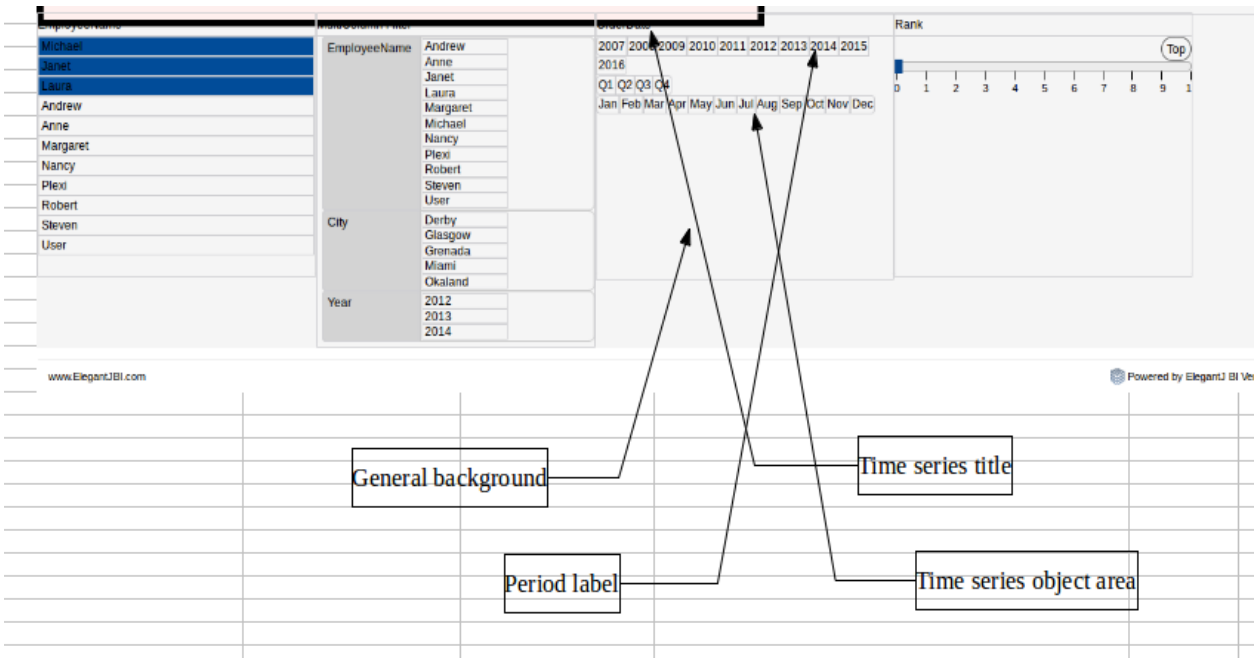
Element	Properties	Sub Properties	Default Value	Values
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.50%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—TIME SERIES FILTER: PERIOD LABEL

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		TRUE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	TRUE	True/False

Element	Properties	Sub Properties	Default Value	Values
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		7	0 – 20
	Bottom right		7	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.40%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—TIME SERIES FILTER: ACTION BUTTONS

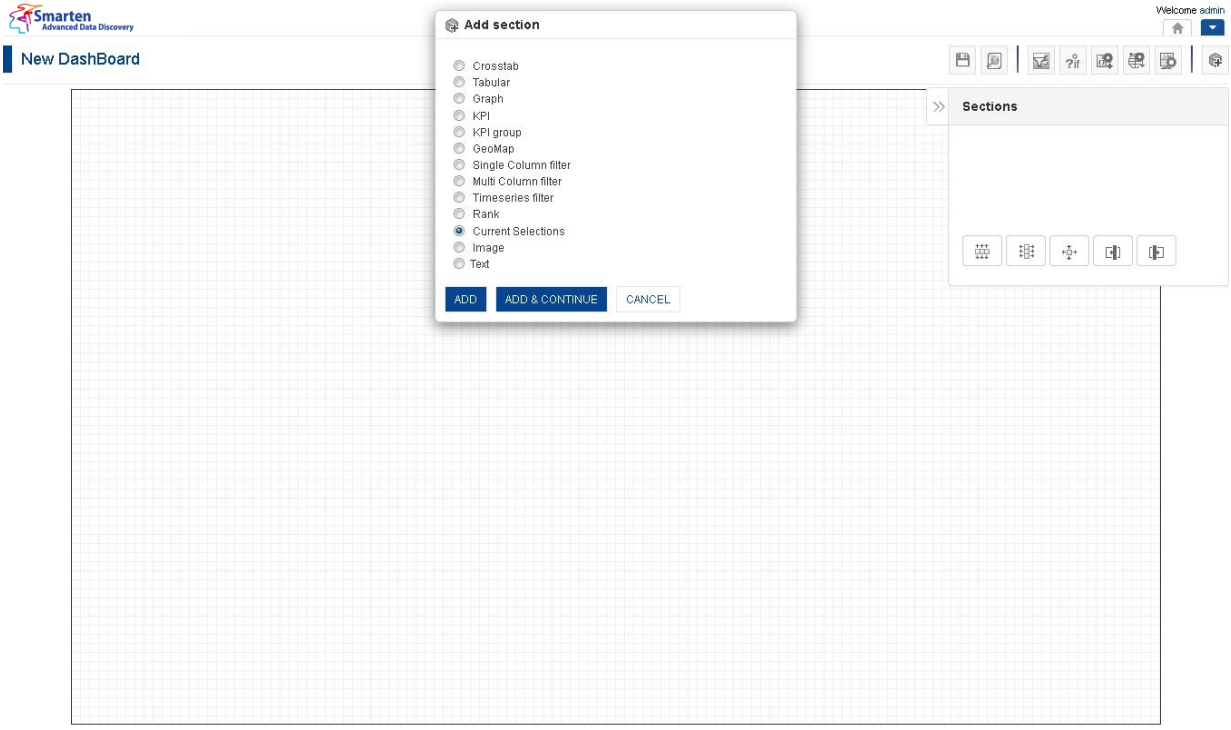


SECTION PROPERTIES—TIME SERIES FILTER: VARIOUS ELEMENTS

8.3.1.10 Current Selections

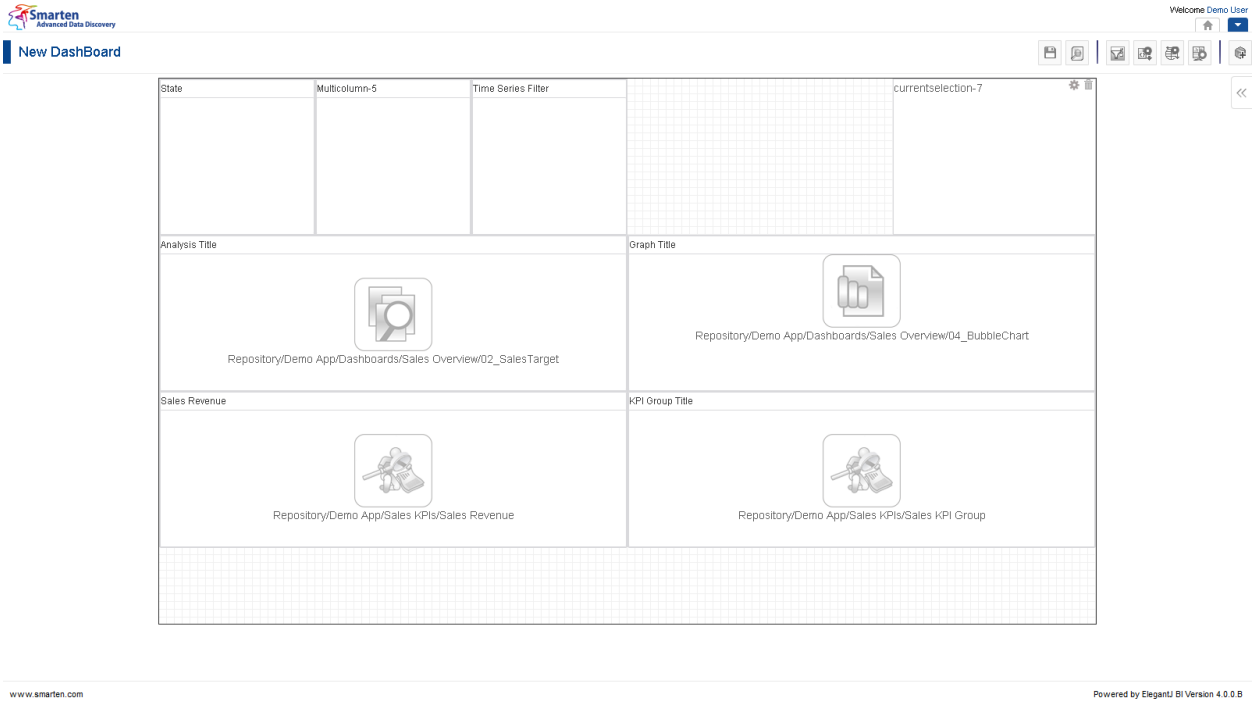
Procedure

1. Follow the **Procedure** of **Create new from scratch** or **Create new from existing**.
2. In the Add **section** dialog box, select **Current selections**.

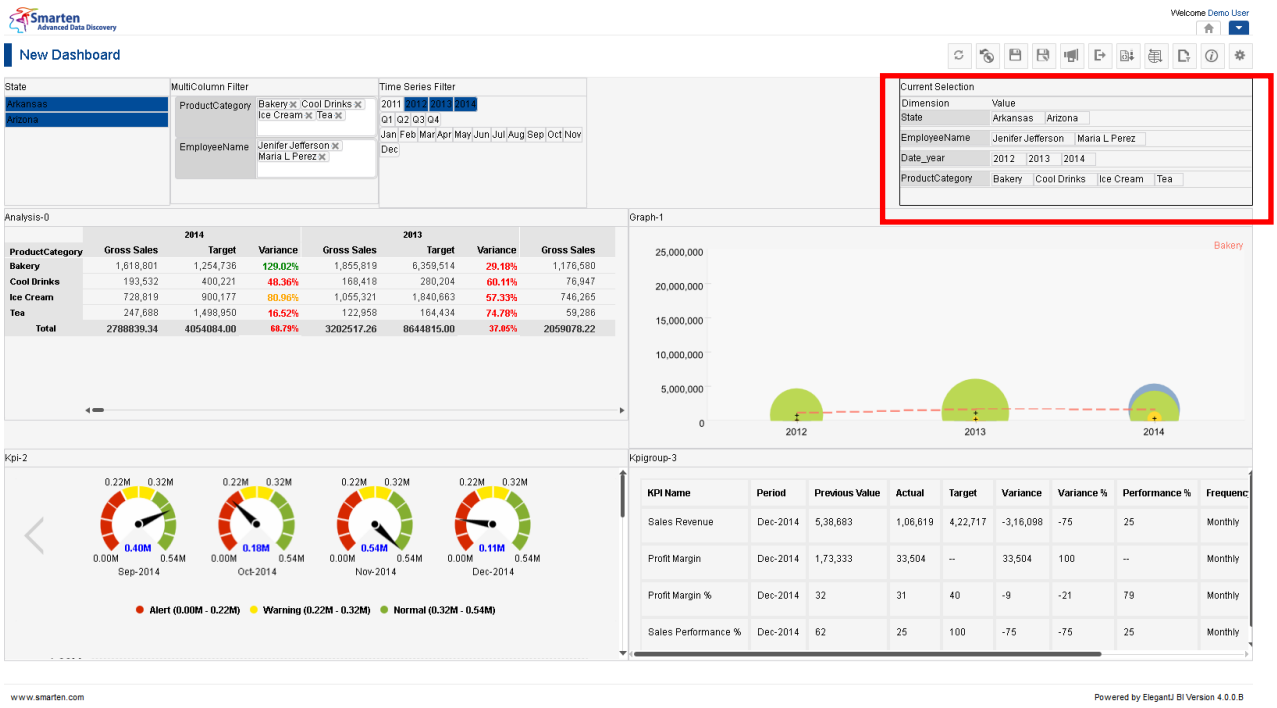


DASHBOARD: ADD CURRENT SELECTIONS SECTION

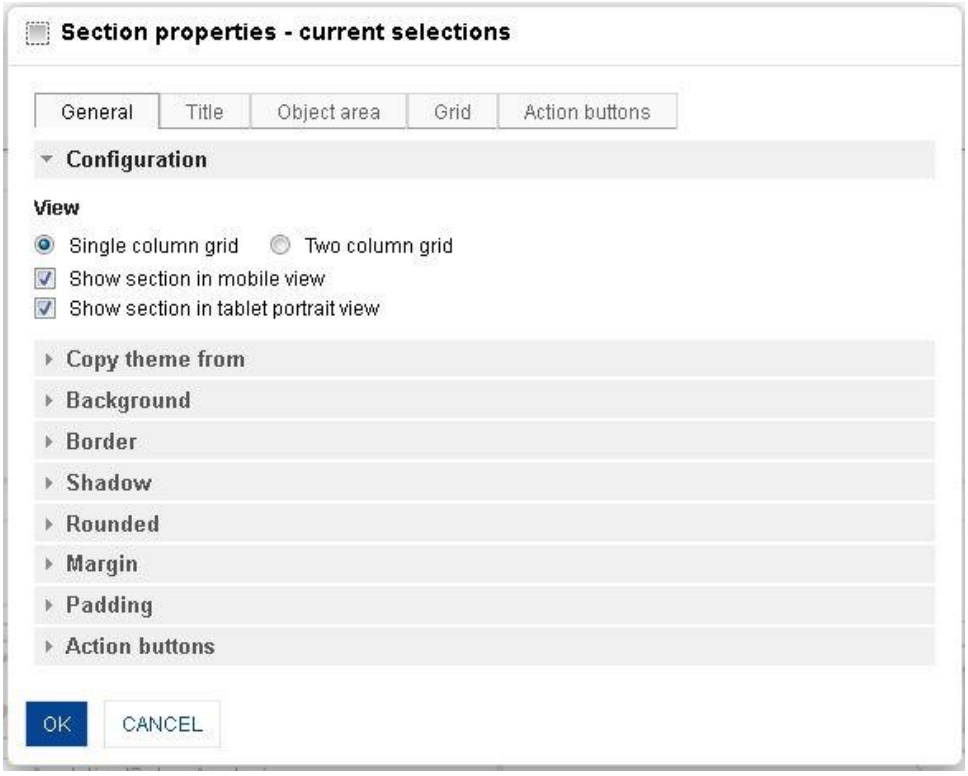
3. Click **Add.**
   The system displays the selected **Current selections** section in the dashboard.



DASHBOARD: CURRENT SELECTIONS SECTION—DESIGN



DASHBOARD: CURRENT SELECTIONS SECTION—PREVIEW



DASHBOARD: SECTION PROPERTIES—CURRENT SELECTIONS

4. In the **Current selections** section, click the **Setting** icon.
5. The system displays the **Section properties – "Section"** dialog box, in this case **Section properties – Current selections** dialog box.
6. To configure the properties, select the tab and enter/select the values in the various fields.
7. Click the **Delete** icon in the **Current selections** section to delete section from the dashboard.
8. Click **OK.**

The following tables list all the Current selections section properties.

Element	Properties	Sub Properties	Default Value	Values
Configuration	Single column grid		TRUE	True/False
	Two column grid		FALSE	True/False
	Show selection in mobile view		TRUE	True/False
	Show section in tablet portrait view		TRUE	True/False
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

Element	Properties	Sub Properties	Default Value	Values
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Action buttons	Visible			
	Clear (section)		TRUE	True/False
	Clear (column)		FALSE	True/False
	Clear (delete value)		FALSE	True/False

SECTION PROPERTIES—CURRENT SELECTIONS: GENERAL

Element	Properties	Sub Properties	Default Value	Values
Configuration	Visible		FALSE	True/False
	Title			Any String Value
	Title panel	Position	Top	Left/Right/Center
		Adjust width to text	FALSE	True/False
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF

Element	Properties	Sub Properties	Default Value	Values
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D0D0D3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—CURRENT SELECTIONS: TITLE

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	FALSE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot

Element	Properties	Sub Properties	Default Value	Values
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—CURRENT SELECTIONS: OBJECT AREA

Element	Properties	Sub Properties	Default Value	Values
General				
Border		Visible	FALSE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF

Element	Properties	Sub Properties	Default Value	Values
Strip	Enable		FALSE	True/False
	Odd		#000000	#000000 - #FFFFFF
	Even		#DCDCDC	#000000 - #FFFFFF
	Transparency		None	None – 100%
Header				
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Margin	All		0.00%	0 – 100 %
	Top		-1.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.50%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Column label				
Configuration	Show cube name(s)		FALSE	True/False
Font and text	Name		Arial	System Fonts

Element	Properties	Sub Properties	Default Value	Values
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#DCDCDC	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		-1.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.50%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Selected tags				
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72

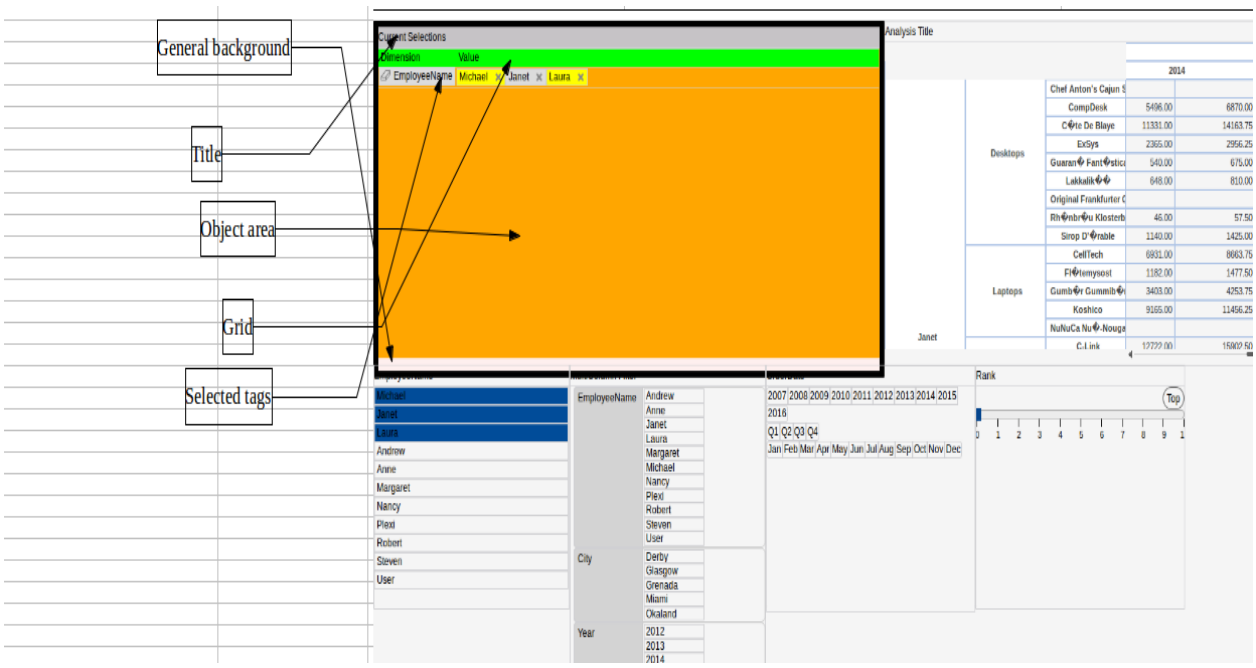
Element	Properties	Sub Properties	Default Value	Values
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#DCDCDC	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.30%	0 – 100 %
	Bottom		0.30%	0 – 100 %
	Left		0.50%	0 – 100 %
	Right		4.00%	0 – 100 %

SECTION PROPERTIES—CURRENT SELECTIONS: GRID

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		TRUE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False

Element	Properties	Sub Properties	Default Value	Values
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D3D3D3	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		7	0 – 20
	Bottom right		7	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.40%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—CURRENT SELECTIONS: ACTION BUTTONS

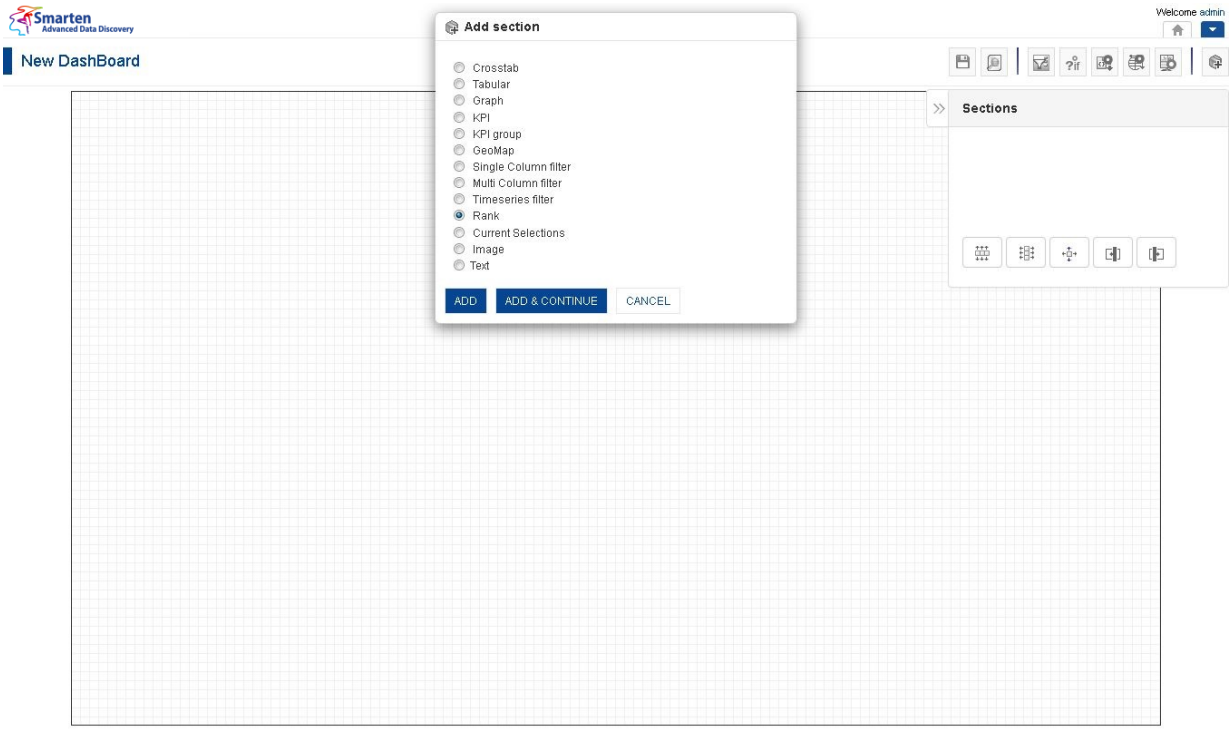


SECTION PROPERTIES—CURRENT SELECTIONS: VARIOUS ELEMENTS

8.3.1.11 Rank

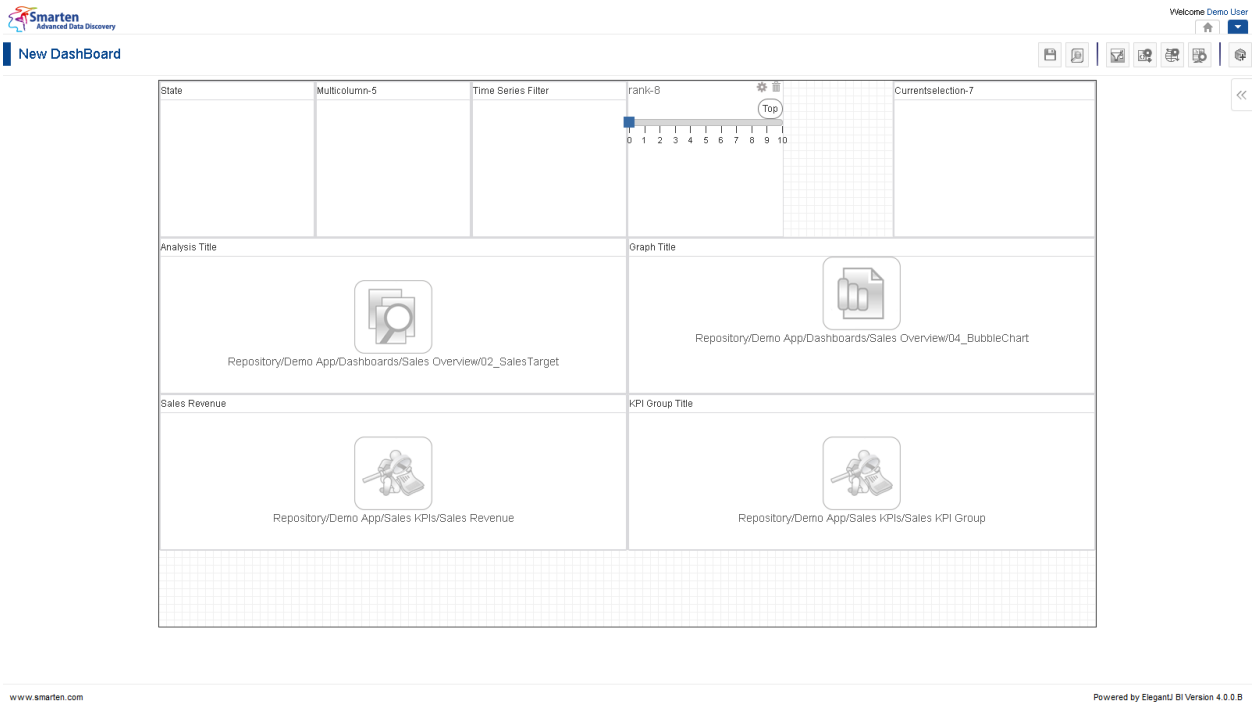
Procedure

1. Follow the **Procedure** of **Create new from scratch** or **Create new from existing**.
2. In the Add **section** dialog box, select **Rank**.

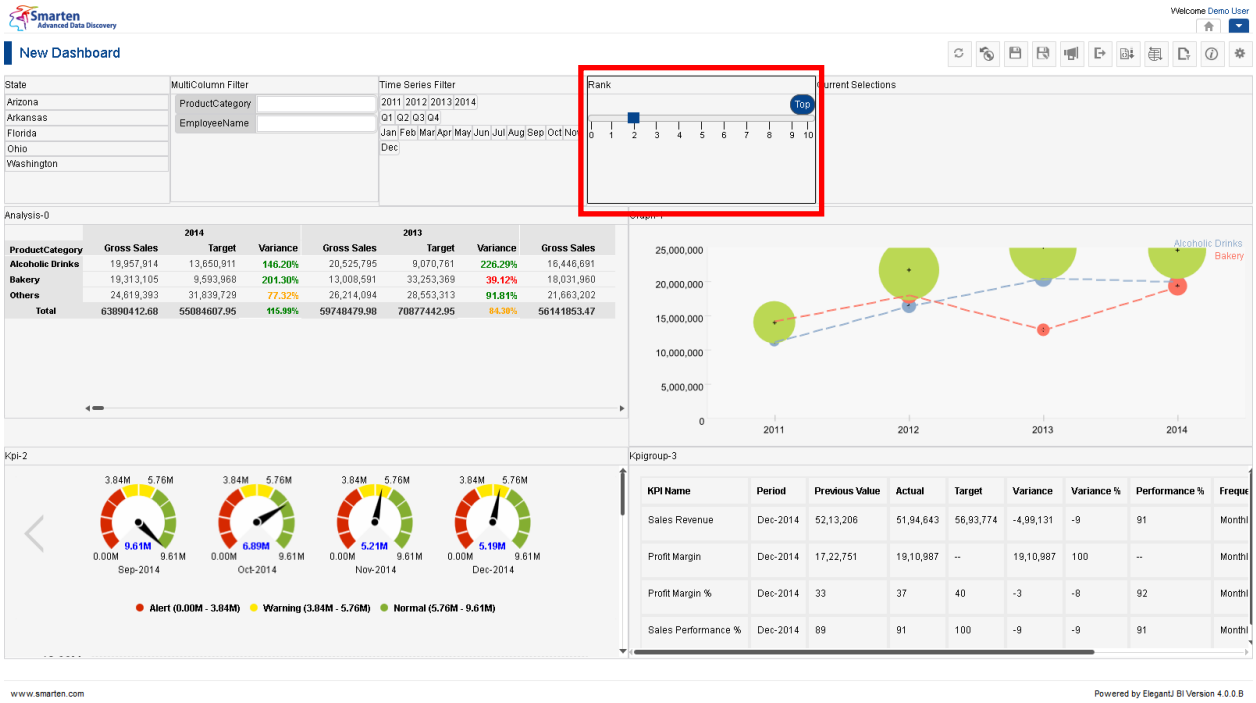


DASHBOARD: ADD RANK SECTION

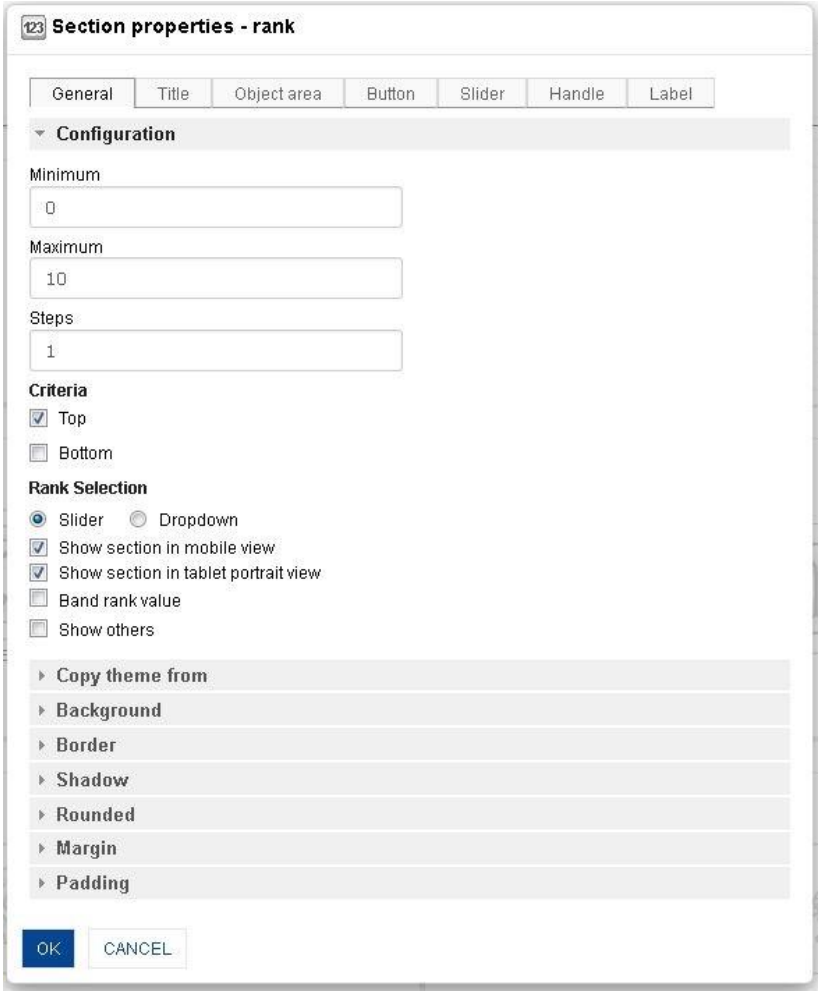
3. Click **Add.**
   The system displays the selected **Rank** section in the dashboard.



DASHBOARD: RANK SECTION—DESIGN



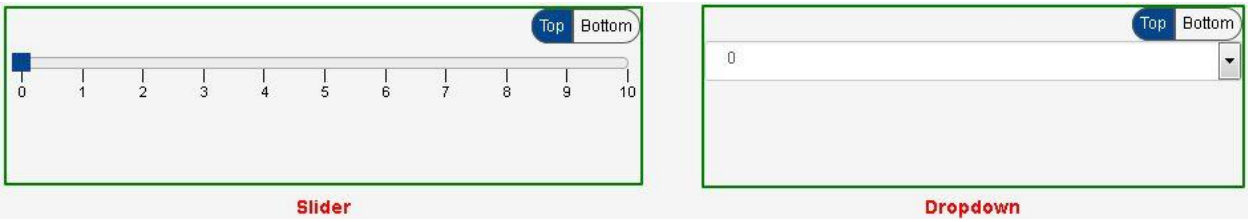
DASHBOARD: RANK SECTION—PREVIEW



DASHBOARD: SECTION PROPERTIES—RANK

4. In the **Rank** section, click the **Setting** icon.
5. The system displays the **Section properties – "Section"** dialog box, in this case **Section properties – rank** dialog box.

6. To configure the properties, select the tab and enter/select the values in the various fields.
7. Click the **Delete** icon in the **Rank** section to delete section from the dashboard.
8. Click **OK.**



RANK: SELECTION OPTIONS

The following tables list all the Rank section properties.

Element	Properties	Sub Properties	Default Value	Values
Configuration	Minimum		0	0
	Maximum		10	Any
	Steps		1	Not more than maximum
	Criteria	Top	TRUE	True/False
		Bottom		True/False
	Rank selection	Slider	TRUE	True/False
		Dropdown		True/False
	Show selection in mobile view		TRUE	True/False
	Show section in tablet portrait view		TRUE	True/False
	Band rank value		FALSE	True/False
	Show others		FALSE	True/False
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF

Element	Properties	Sub Properties	Default Value	Values
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Reset associate rank(s)	rank		FALSE	True/False

SECTION PROPERTIES—RANK: GENERAL

Element	Properties	Sub Properties	Default Value	Values
Configuration	Visible		TRUE	True/False
	Title			Any String Value
	Title panel	Position	Top	Left/Right/Center
		Adjust width to text	FALSE	True/False
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False

Element	Properties	Sub Properties	Default Value	Values
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D0D0D3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—RANK: TITLE

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	FALSE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—RANK: OBJECT AREA

Element	Properties	Sub Properties	Default Value	Values
Configuration	Alignment		Left	Left/Right/Center
	Position		Top	Top/Bottom
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#05458d	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#535353	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#535353	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#535353	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#535353	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#535353	#000000 - #FFFFFF
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

Element	Properties	Sub Properties	Default Value	Values
Padding	All		0.00%	0 – 100 %
	Top		3.00%	0 – 100 %
	Bottom		3.00%	0 – 100 %
	Left		5.00%	0 – 100 %
	Right		5.00%	0 – 100 %

SECTION PROPERTIES—RANK: BUTTON

Element	Properties	Sub Properties	Default Value	Values
Ba0ckground	Visible		TRUE	True/False
	Color		#ececec	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aaaaaa	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aaaaaa	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aaaaaa	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aaaaaa	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aaaaaa	#000000 - #FFFFFF
Rounded	All		4	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.50%	0 – 100 %
	Right		0.80%	0 – 100 %

SECTION PROPERTIES—RANK: SLIDER

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		TRUE	True/False
	Color		#05458d	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient

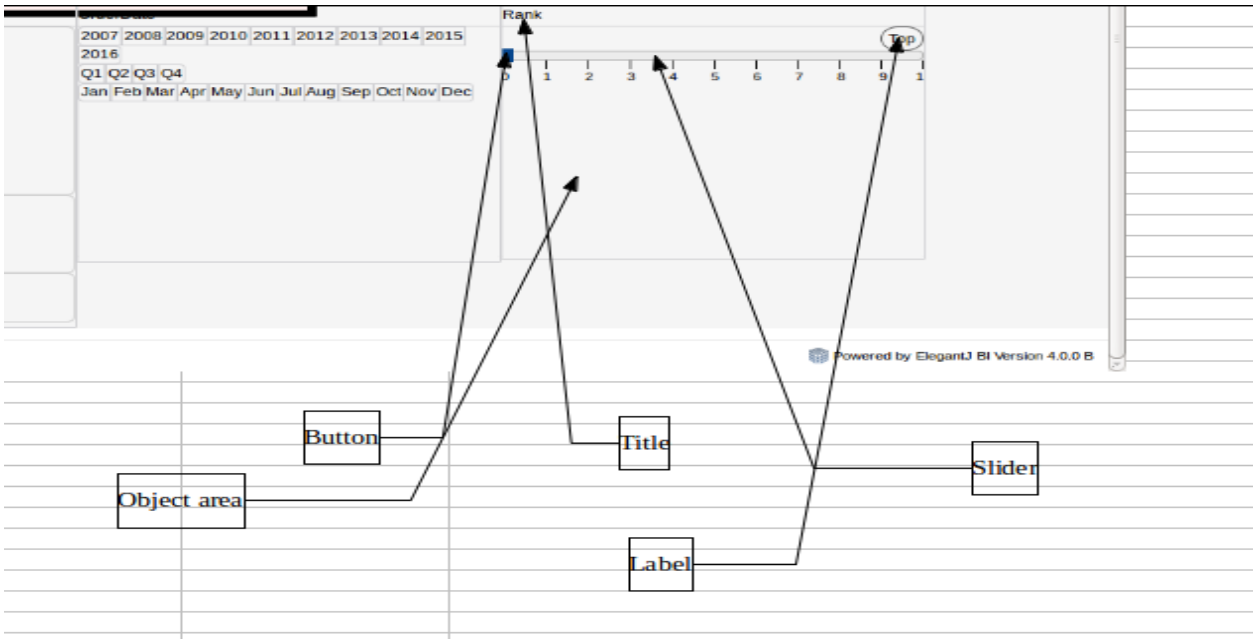
Element	Properties	Sub Properties	Default Value	Values
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.50%	0 – 100 %
	Right		0.80%	0 – 100 %

SECTION PROPERTIES—RANK: HANDLE

Element	Properties	Sub Properties	Default Value	Values
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	1	0 – 10

Element	Properties	Sub Properties	Default Value	Values
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF

SECTION PROPERTIES—RANK: LABEL

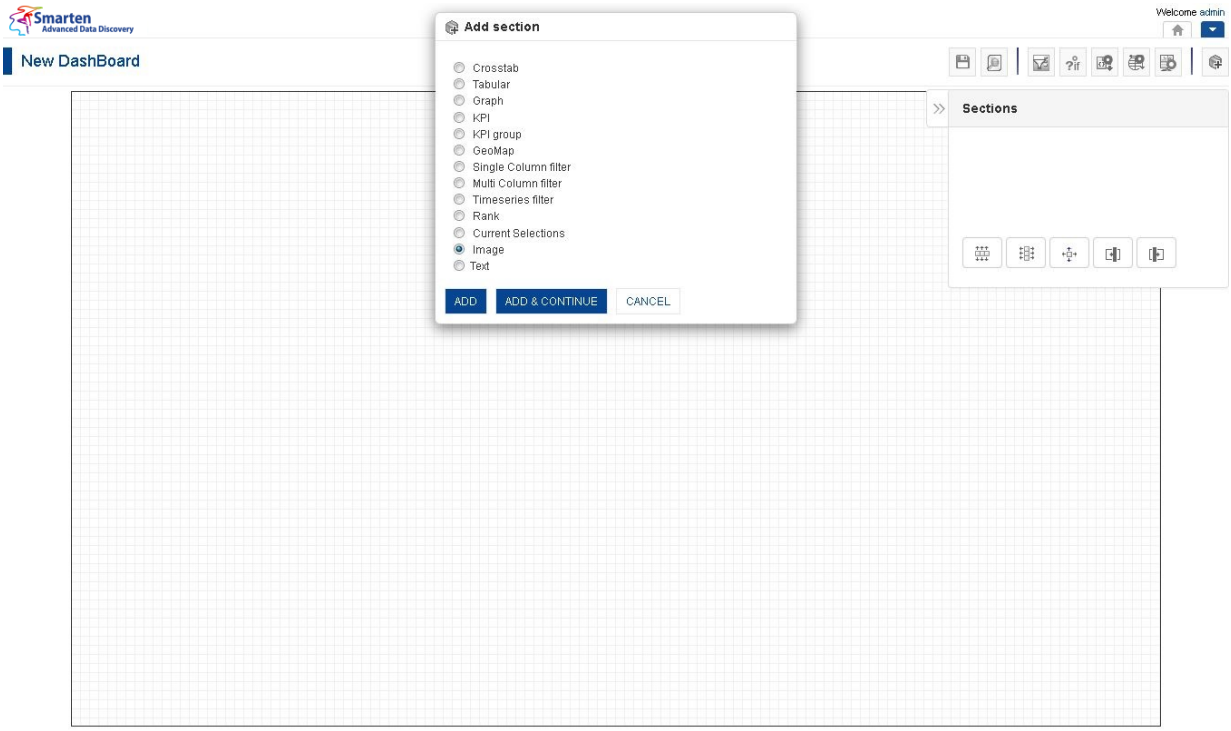


SECTION PROPERTIES—RANK: VARIOUS ELEMENTS

8.3.1.12 Image

Procedure

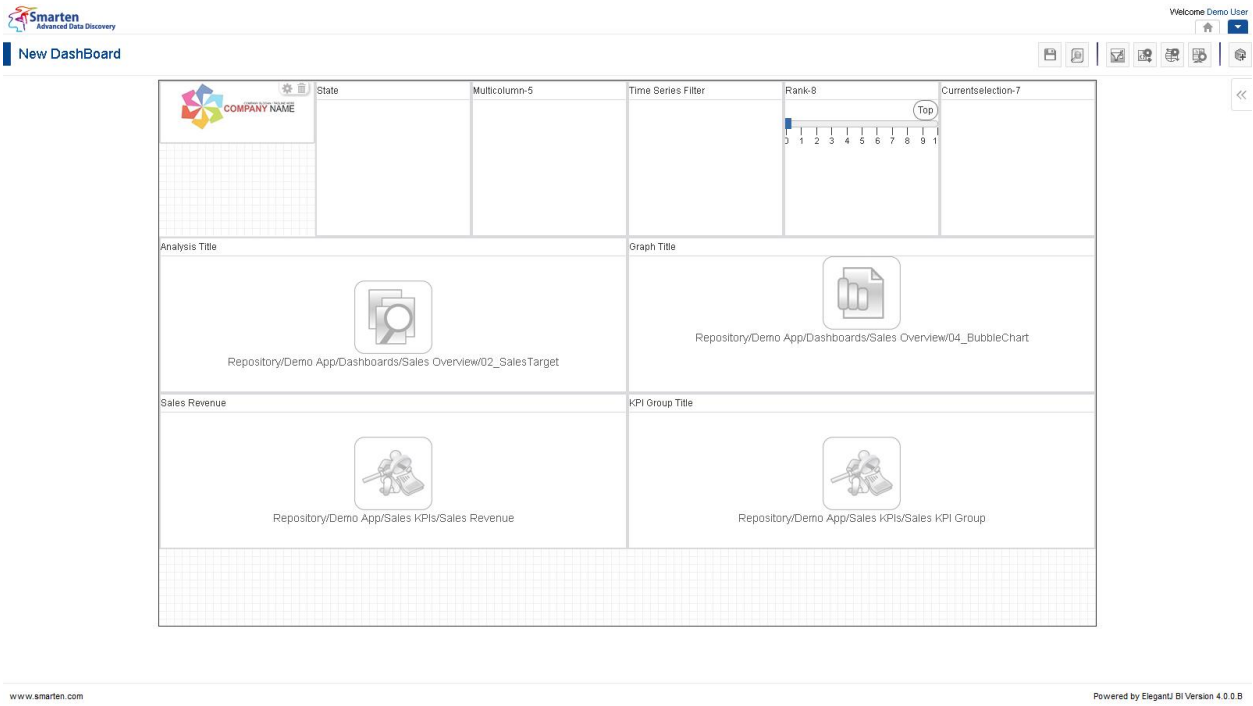
1. Follow the **Procedure** of **Create new from scratch** or **Create new from existing.**
2. In the Add **section** dialog box, select **Image**.



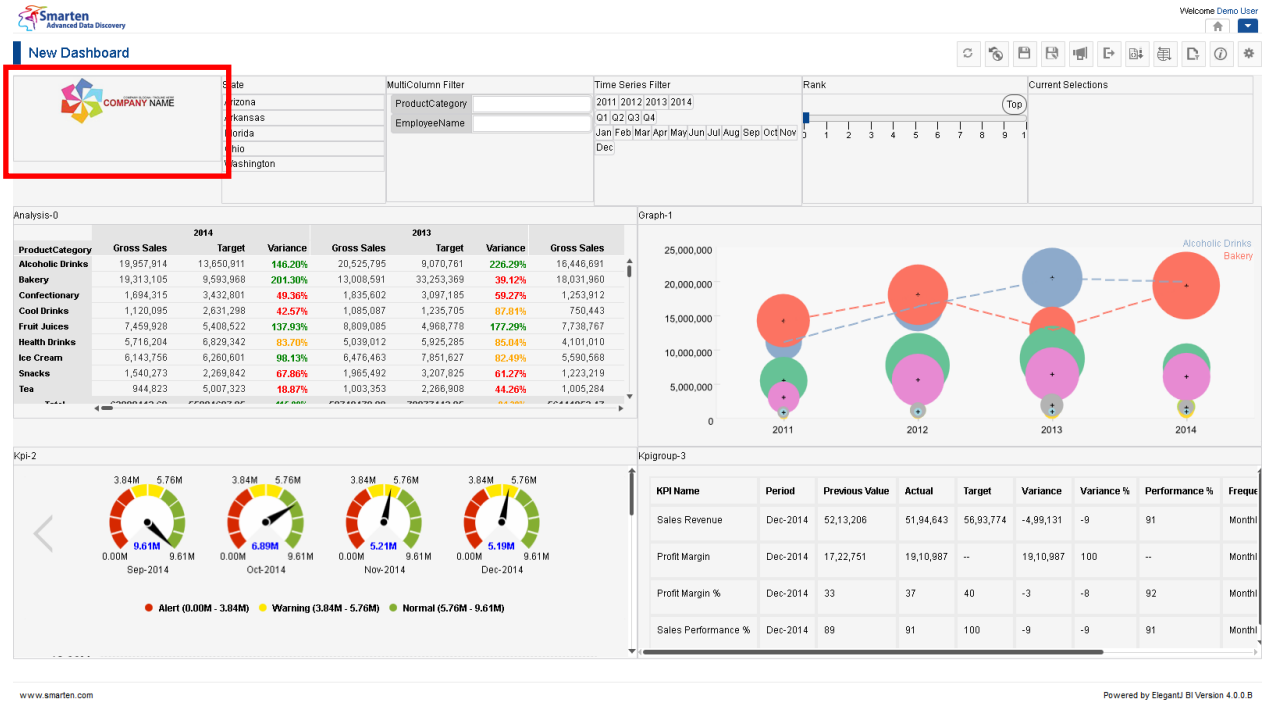
DASHBOARD: ADD IMAGE SECTION

3. Click **Add.**

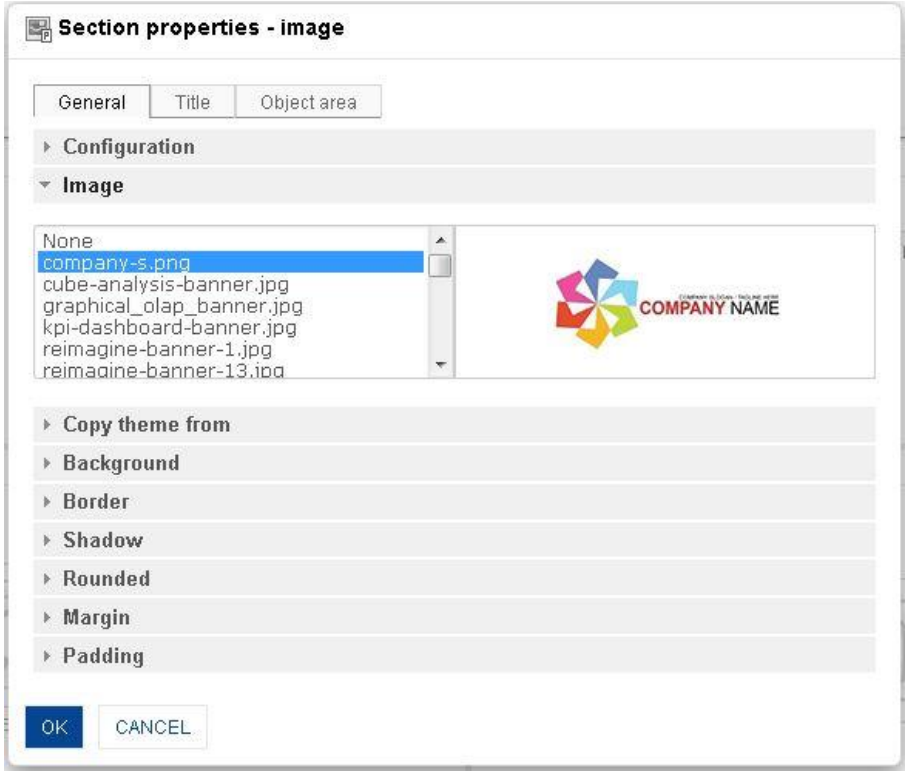
The system displays the selected **Image** section in the dashboard.



DASHBOARD: IMAGE SECTION—DESIGN



DASHBOARD: IMAGE SECTION—PREVIEW



DASHBOARD: SECTION PROPERTIES—IMAGE

4. In the **Image** section, click the **Setting** icon.
5. The system displays the **Section properties – "Section"** dialog box, in this case **Section properties – image** dialog box.
6. To configure the properties, select the tab and enter/select the values in the various fields.
7. Click the **Delete** icon in the **Image** section to delete section from the dashboard.
8. Click **OK.**

The following tables list all the Image section properties.

Element	Properties	Sub Properties	Default Value	Values
Configuration	Show selection in mobile view		FALSE	True/False
	Show section in tablet portrait view		FALSE	True/False
Image			None	.jpg, .png (image formats)
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %

Element	Properties	Sub Properties	Default Value	Values
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—IMAGE: GENERAL

Element	Properties	Sub Properties	Default Value	Values
Configuration	Visible		FALSE	True/False
	Title			Any String Value
	Title panel	Position	Top	Left/Right/Center
		Adjust width to text	FALSE	True/False
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF

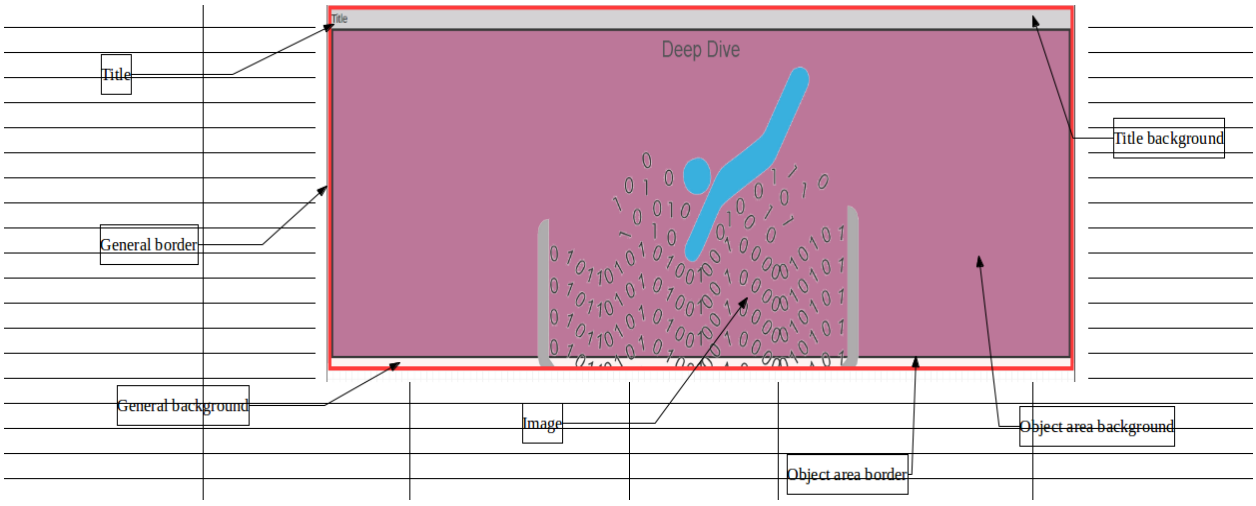
Element	Properties	Sub Properties	Default Value	Values
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D0D0D3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—IMAGE: TITLE

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	FALSE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF

Element	Properties	Sub Properties	Default Value	Values
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—IMAGE: OBJECT AREA

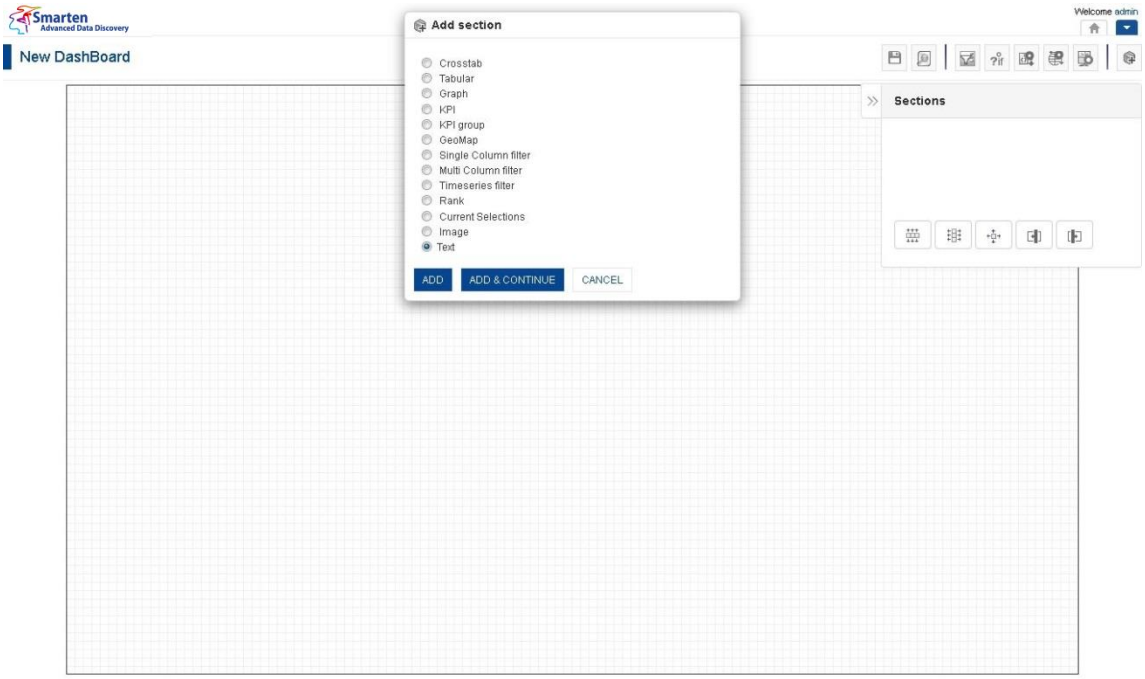


SECTION PROPERTIES—IMAGE: VARIOUS ELEMENTS

8.3.1.13 Text

Procedure

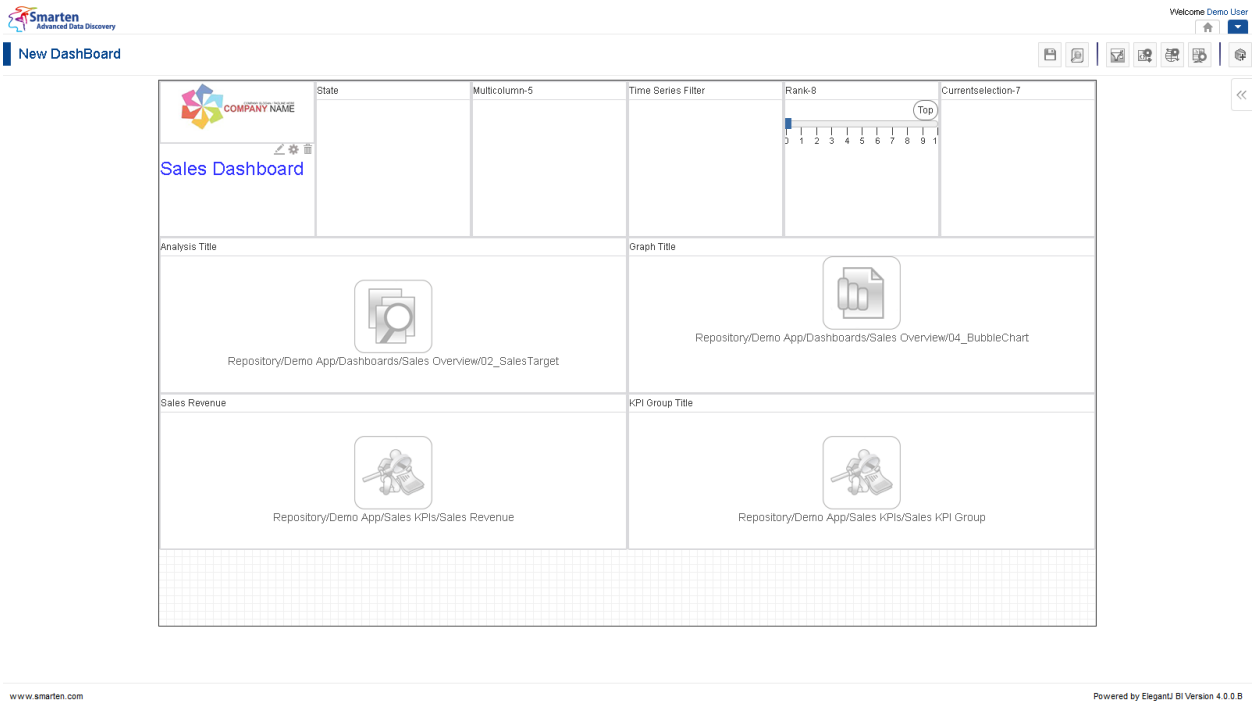
1. Follow the **Procedure of Create new from scratch or Create new from existing**.
2. In the Add **section** dialog box, select **Text**.



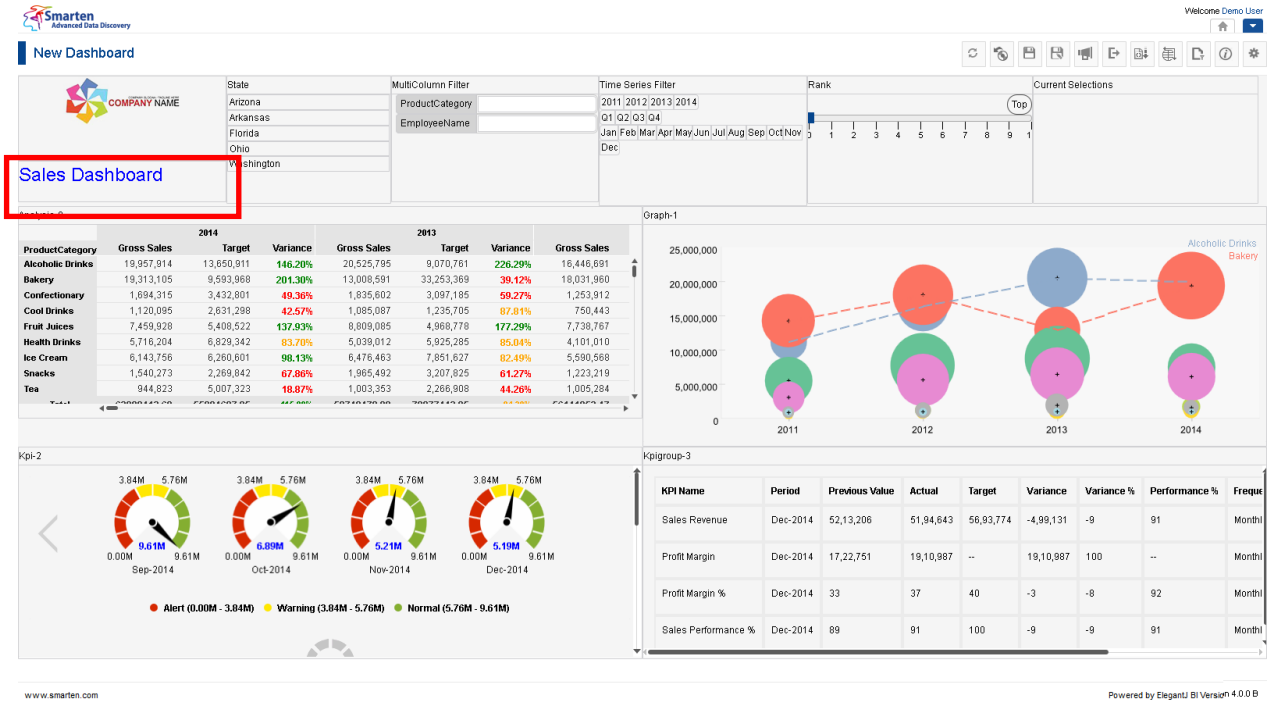
DASHBOARD: ADD TEXT SECTION

3. Click **Add**.

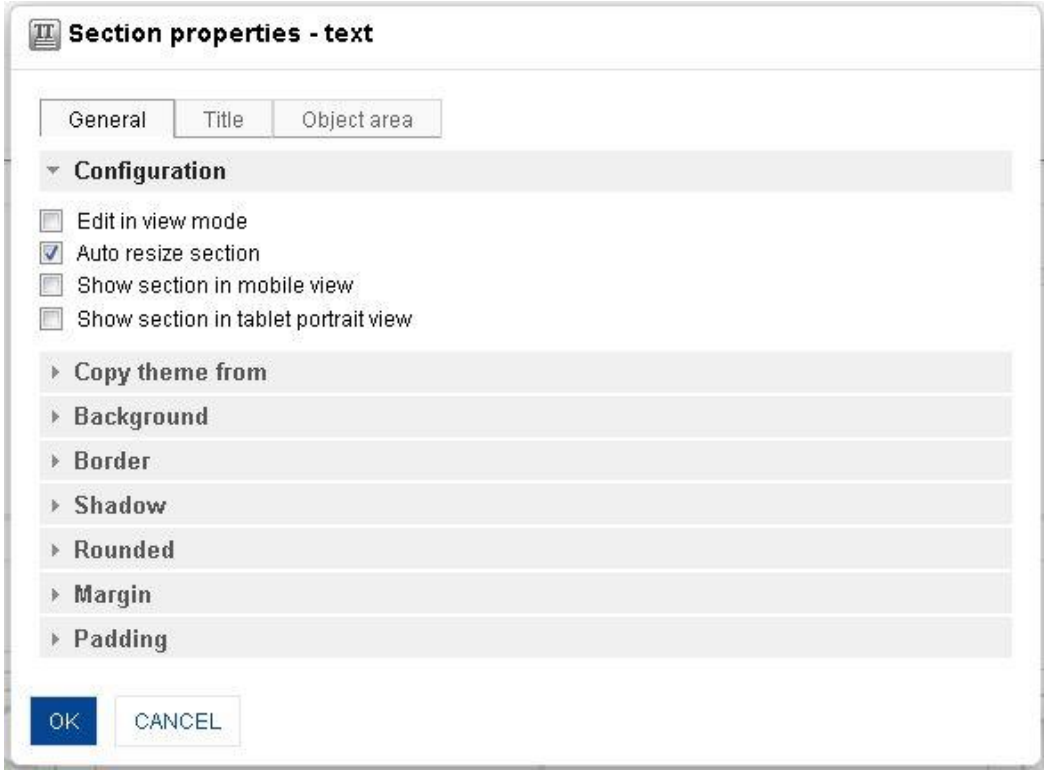
The system displays the selected **Text** section in the dashboard.



DASHBOARD: TEXT SECTION—DESIGN



DASHBOARD: TEXT SECTION—PREVIEW



DASHBOARD: SECTION PROPERTIES—TEXT

4. In the **Text** section, click the **Setting** icon.
5. The system displays the **Section properties – "Section"** dialog box, in this case **Section properties – text** dialog box.
6. To configure the properties, select the tab and enter/select the values in the various fields.
7. Click the **Delete** icon in the **Text** section to delete section from the dashboard.
8. Click **OK.**

The following tables list all the Text section properties.

Element	Properties	Sub Properties	Default Value	Values
Configuration	Edit in view mode		FALSE	True/False
	Auto resize section		TRUE	True/False
	Show selection in mobile view		FALSE	True/False
	Show section in tablet portrait view		FALSE	True/False
Background				
	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

Element	Properties	Sub Properties	Default Value	Values
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—TEXT: GENERAL

Element	Properties	Sub Properties	Default Value	Values
Configuration	Visible		FALSE	True/False
	Title			Any String Value
	Title panel	Position	Top	Left/Right/Center
		Adjust width to text	FALSE	True/False
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Left	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot

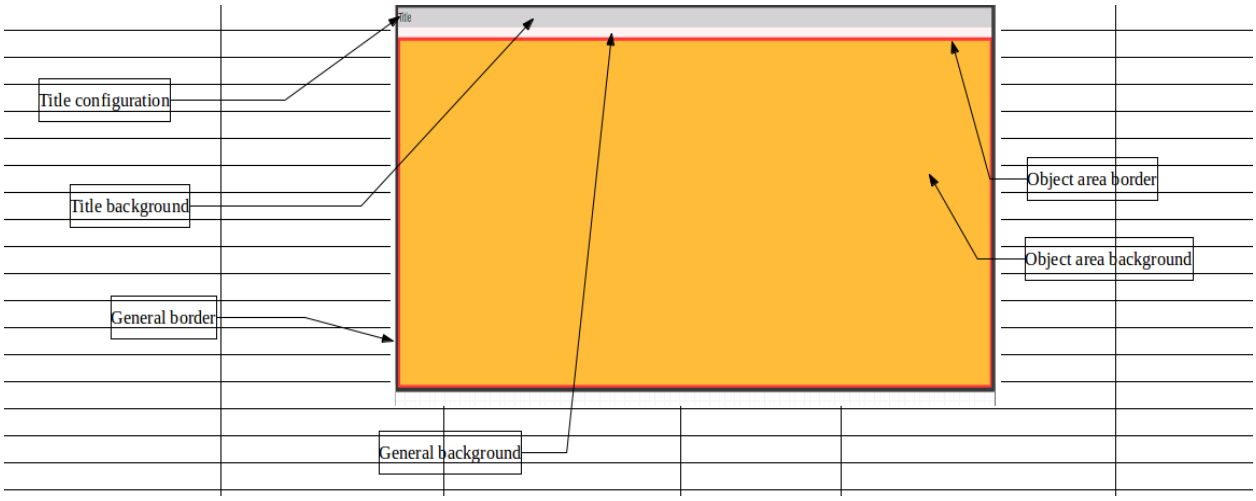
Element	Properties	Sub Properties	Default Value	Values
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D0D0D3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—TEXT: TITLE

Element	Properties	Sub Properties	Default Value	Values
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top /Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF

Element	Properties	Sub Properties	Default Value	Values
Border		Visible	FALSE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

SECTION PROPERTIES—TEXT: OBJECT AREA



SECTION PROPERTIES—TEXT: VARIOUS ELEMENTS

8.3.2 Design & Alignment of Dashboard Components

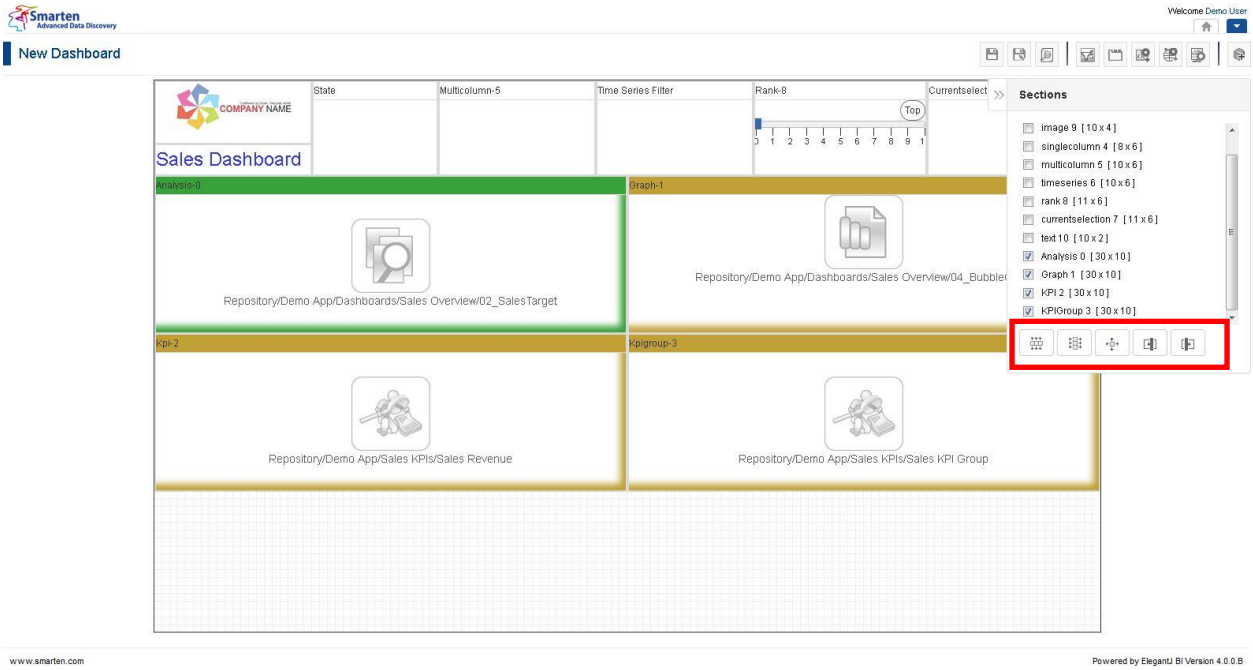
You can open dashboard in design mode to set the layout of dashboard and alignment of dashboard components. You can set dashboard layout and use alignment options, such as **Resize objects**, **Same height**, **Same width**, **Same width & height**, **Move left,** and **Move right**.

About this task

Use the following procedure to select multiple sections and then apply alignment options from design mode.

Procedure

1. In the **Repository**, open dashboard.
   The system displays the selected dashboard.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. In the Setting Toolbar, click **Design Mode**.
   Or
   Follow the **Procedure** of **Creating dashboard.**
4. From the **Sections** list, select the option(s).
   The system highlights the selected sections in the dashboard template.



DASHBOARD: SECTION ALIGNMENT PROPERTIES

5. You can use various alignment options using the toolbar in **Sections.**

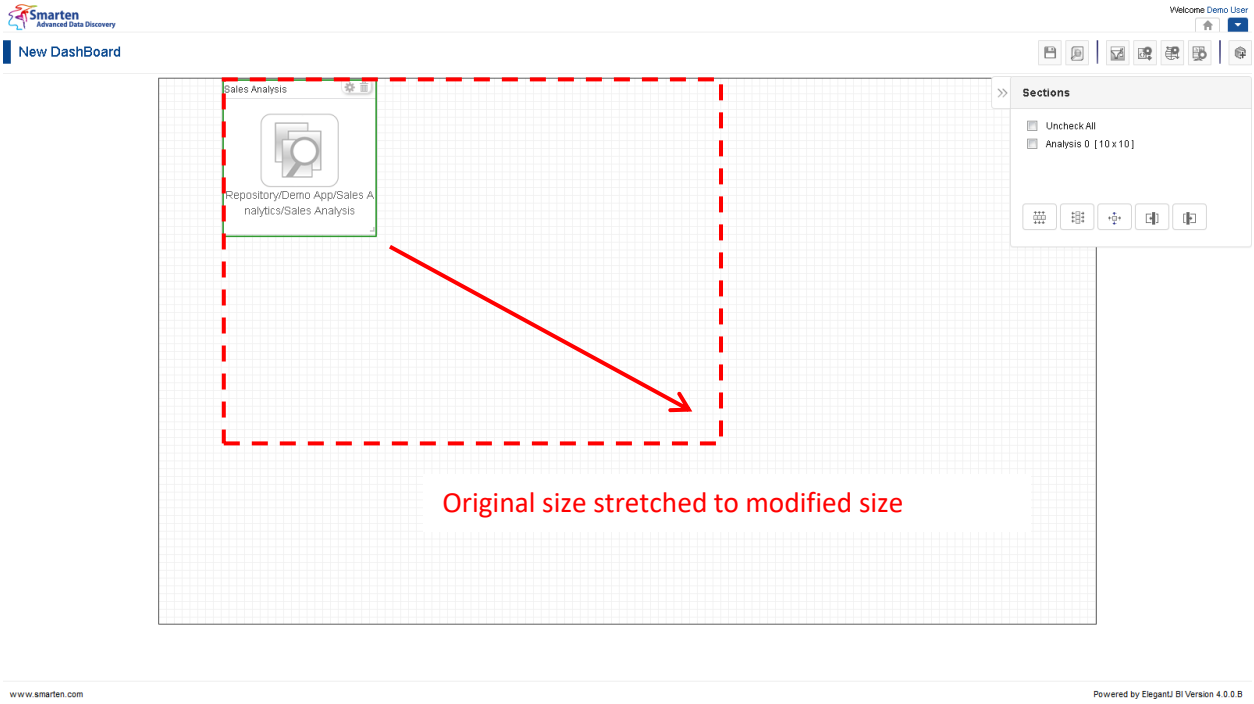
SECTIONS TOOLBAR

Icon	Icon name
	Same height
	Same width
	Same width height
	Move left
	Move right

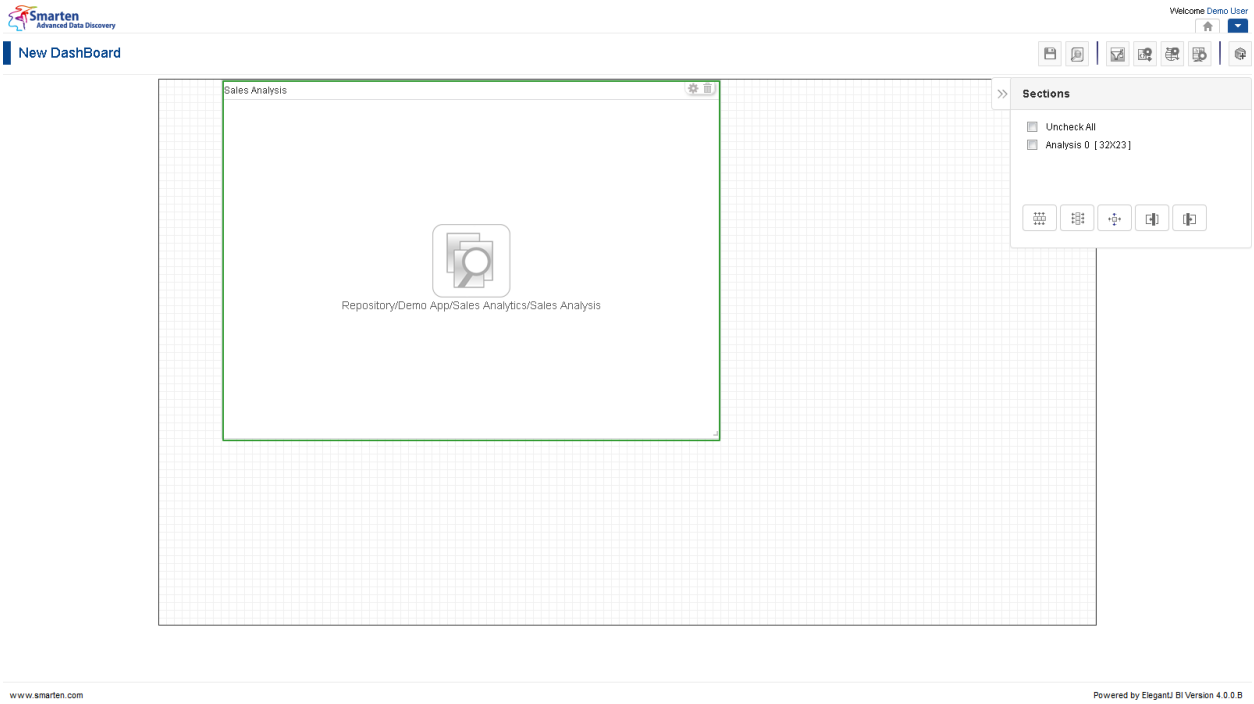
SECTIONS TOOLBAR OPTIONS

8.3.2.1 Resize & Move object

You can **resize an object** by stretching a section from the bottom right-hand corner of a section using the mouse. You can **move an object** by holding the mouse and moving a section within design pane.



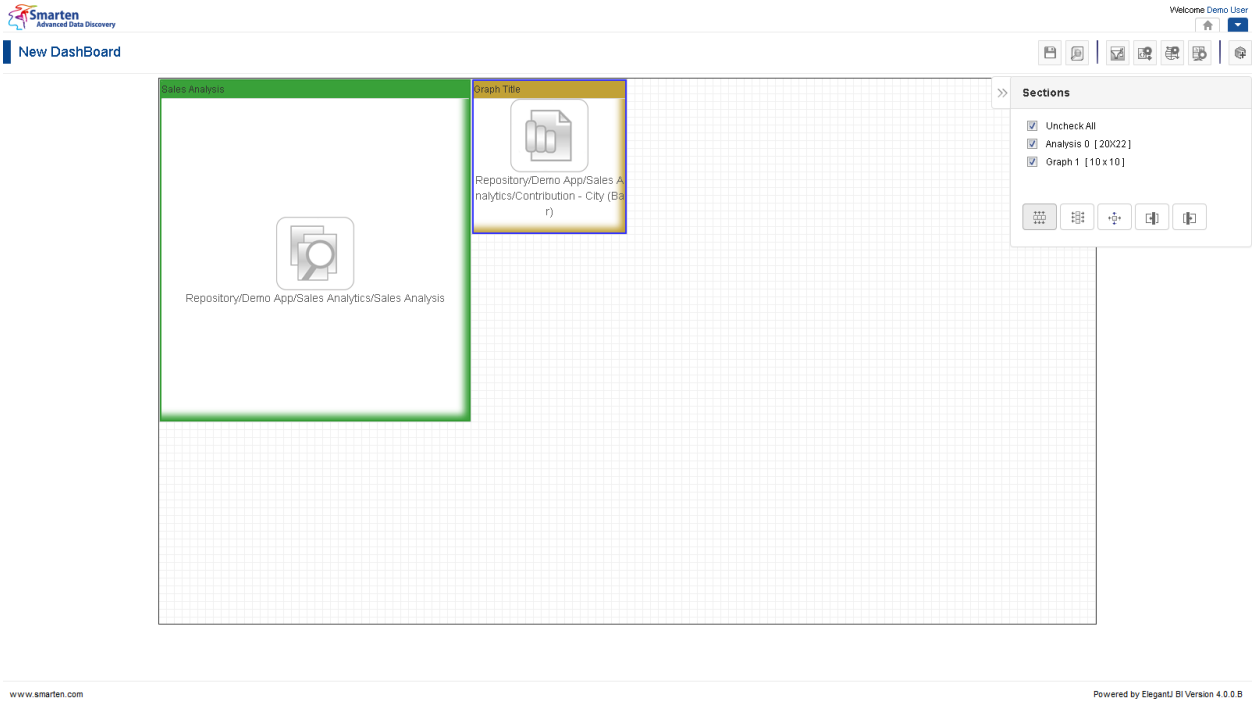
DASHBOARD: SECTION BEFORE RESIZING



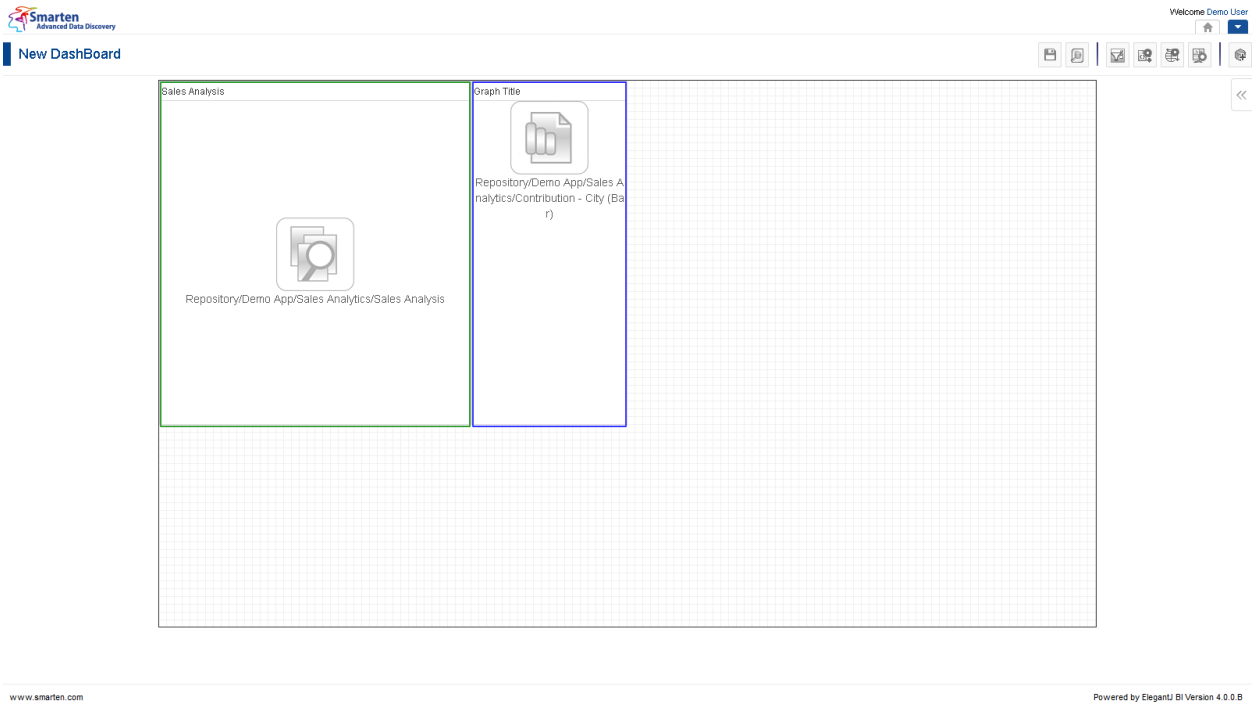
DASHBOARD: SECTION AFTER RESIZING

8.3.2.2 Same height

The **Same height** option is used to set the height of selected dashboard sections as equivalent. The height of both the components is set as per the height of base component selected. The first selected component from sections list is considered as the base component.



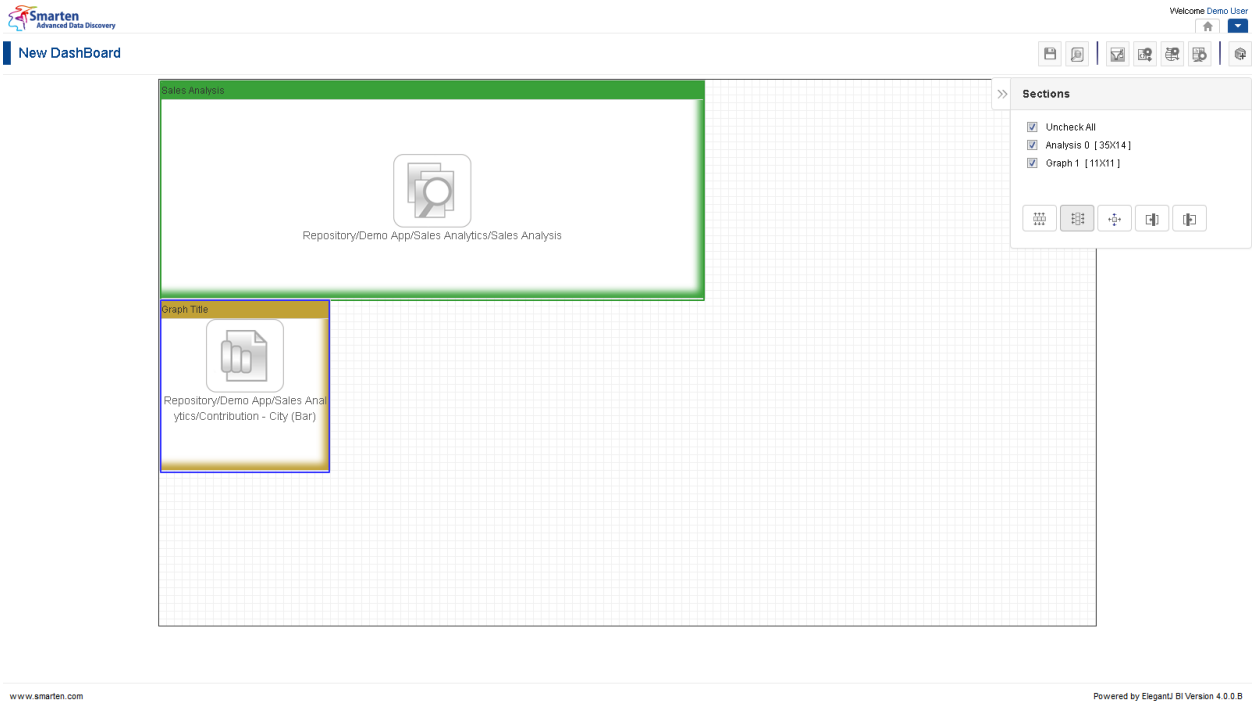
DASHBOARD: SECTION BEFORE MAKING SAME HEIGHT



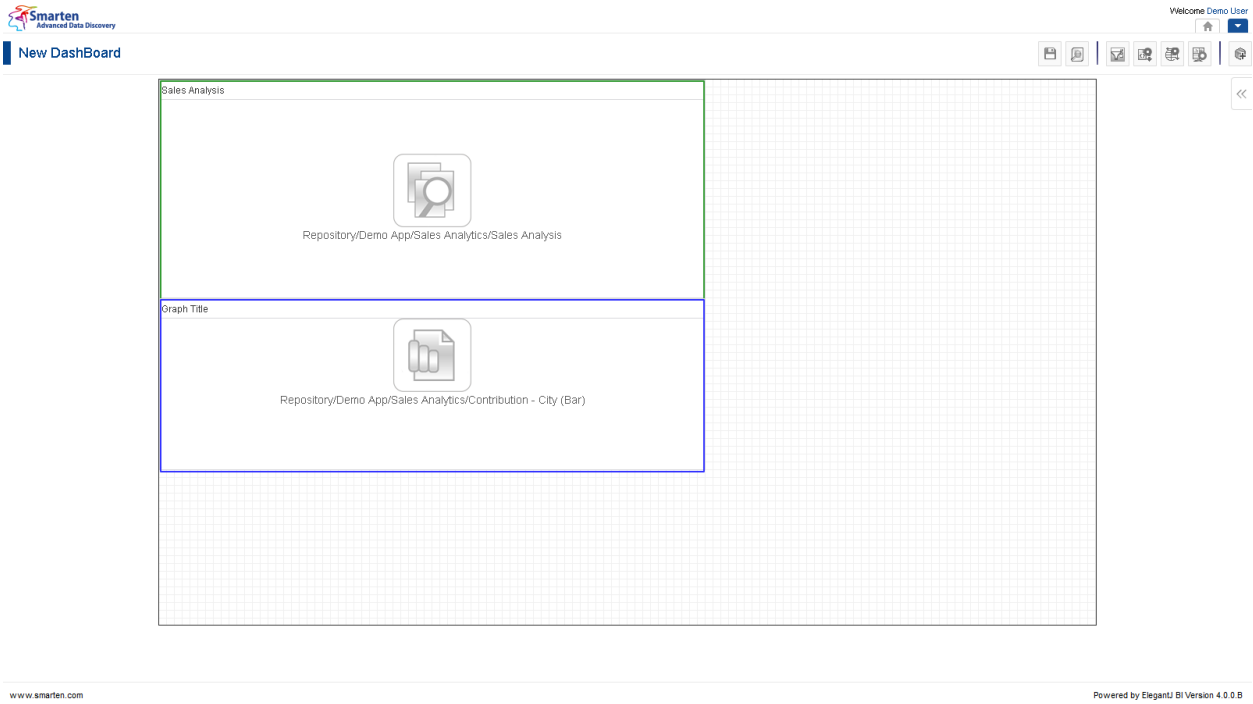
DASHBOARD: SECTION AFTER MAKING SAME HEIGHT

8.3.2.3 Same Width

The **Same width** option is used to set the width of selected dashboard sections as equivalent. The width of both the components is set as per the width of base component selected. The first selected component from sections list is considered as the base component.



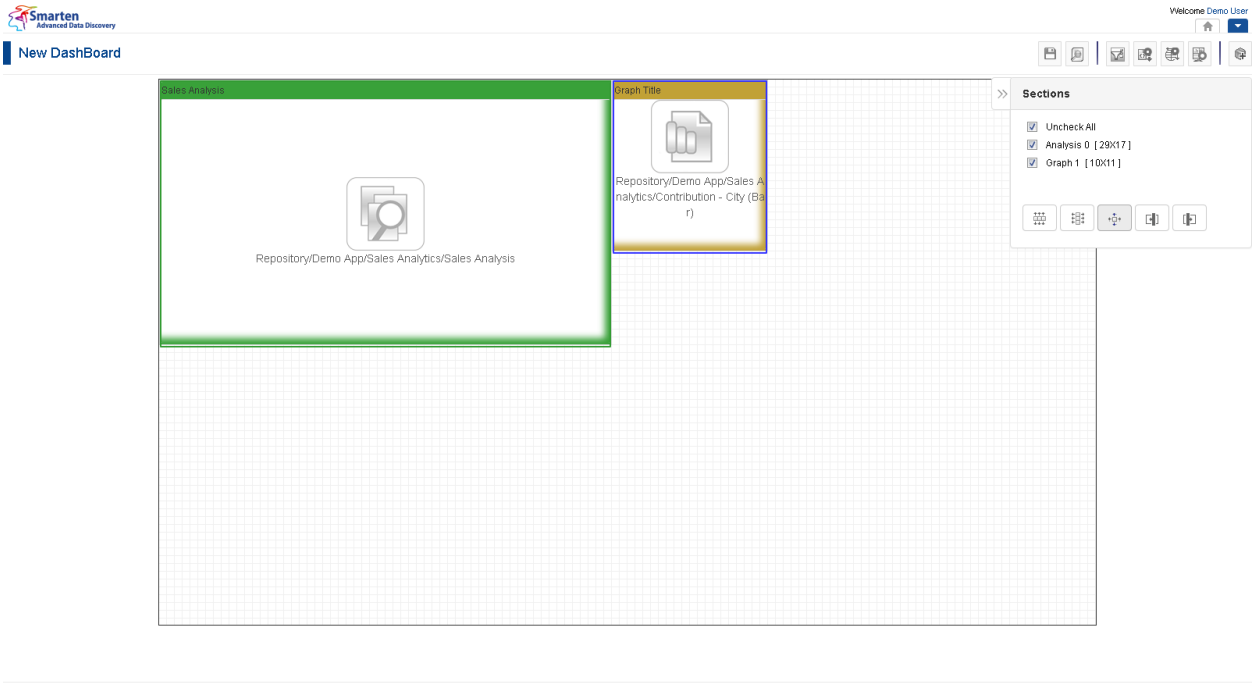
DASHBOARD: SECTION BEFORE MAKING SAME WIDTH



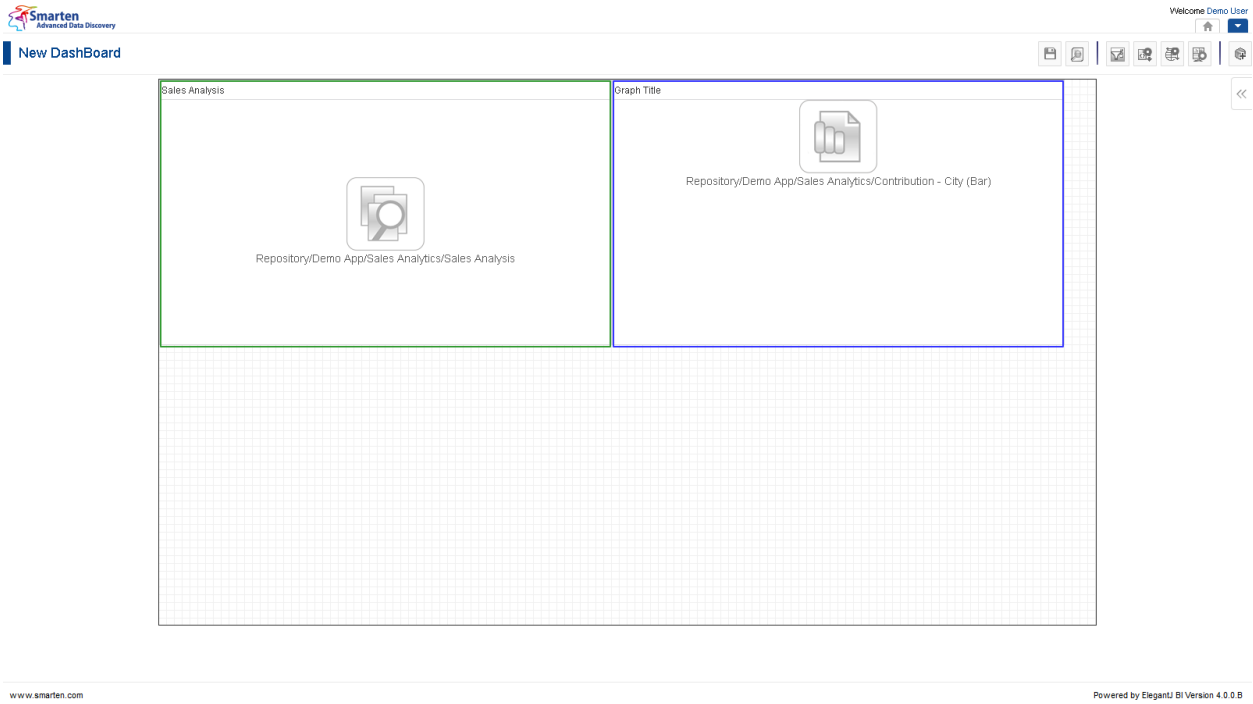
DASHBOARD: SECTION AFTER MAKING SAME WIDTH

8.3.2.4 Same Width & Height

The **Same width & height** option is used to set the height and width of selected dashboard sections as equivalent. The height and width of both components are set as per the height and width of base component selected. The first selected component from sections list is considered as the base component.



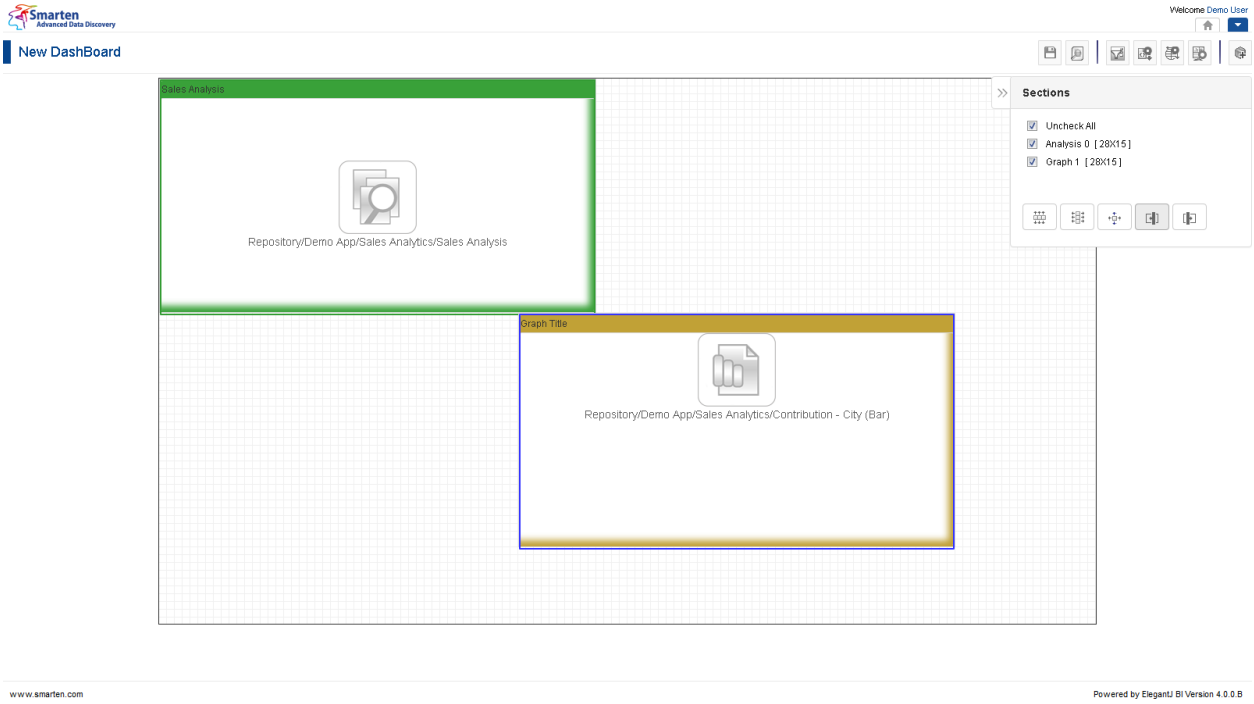
DASHBOARD: SECTION BEFORE MAKING SAME WIDTH & HEIGHT



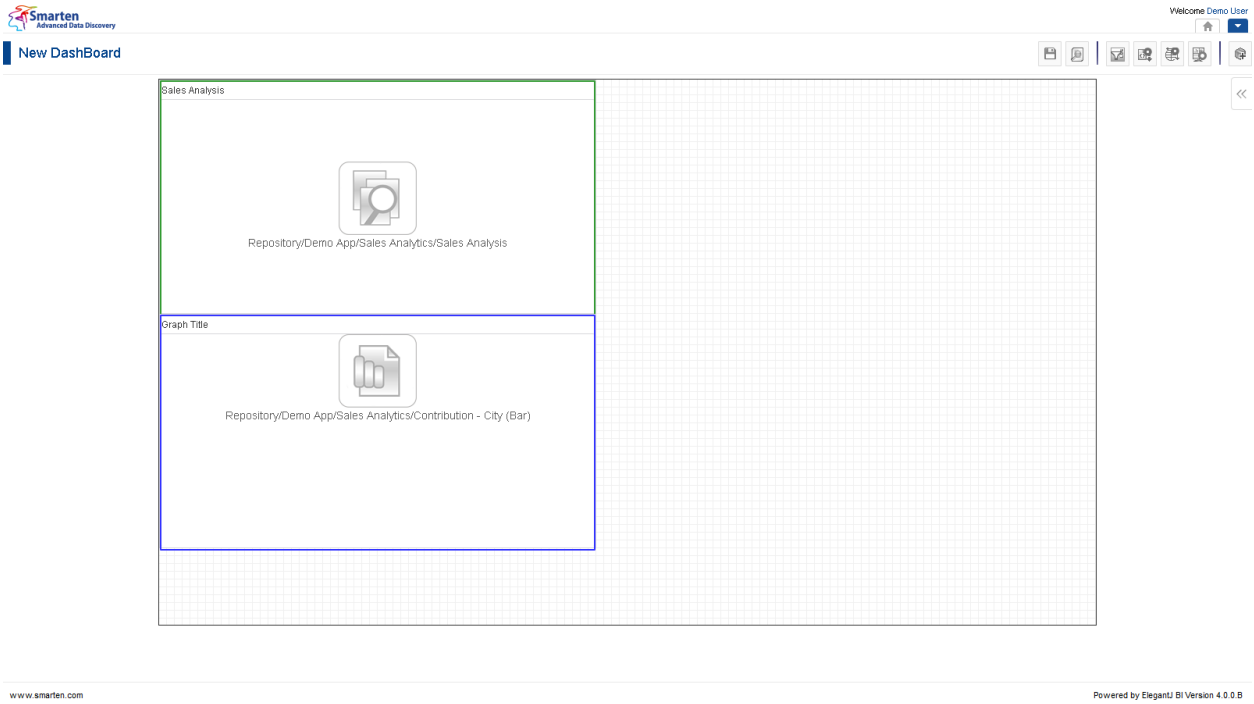
DASHBOARD: SECTION AFTER MAKING SAME WIDTH & HEIGHT

8.3.2.5 Move left

The **Move left** option is used to move the selected dashboard sections toward the left. Components will be adjusted in a particular direction with reference to the left most-selected component.



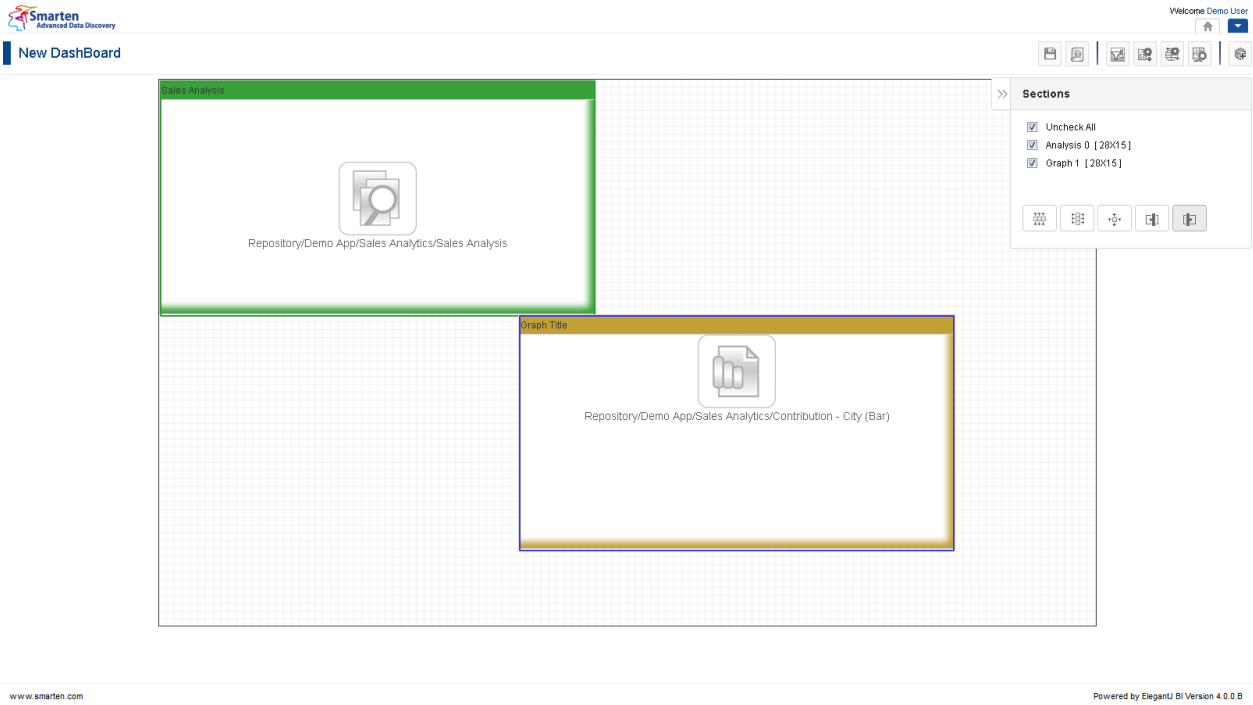
DASHBOARD: SECTION BEFORE MOVING LEFT



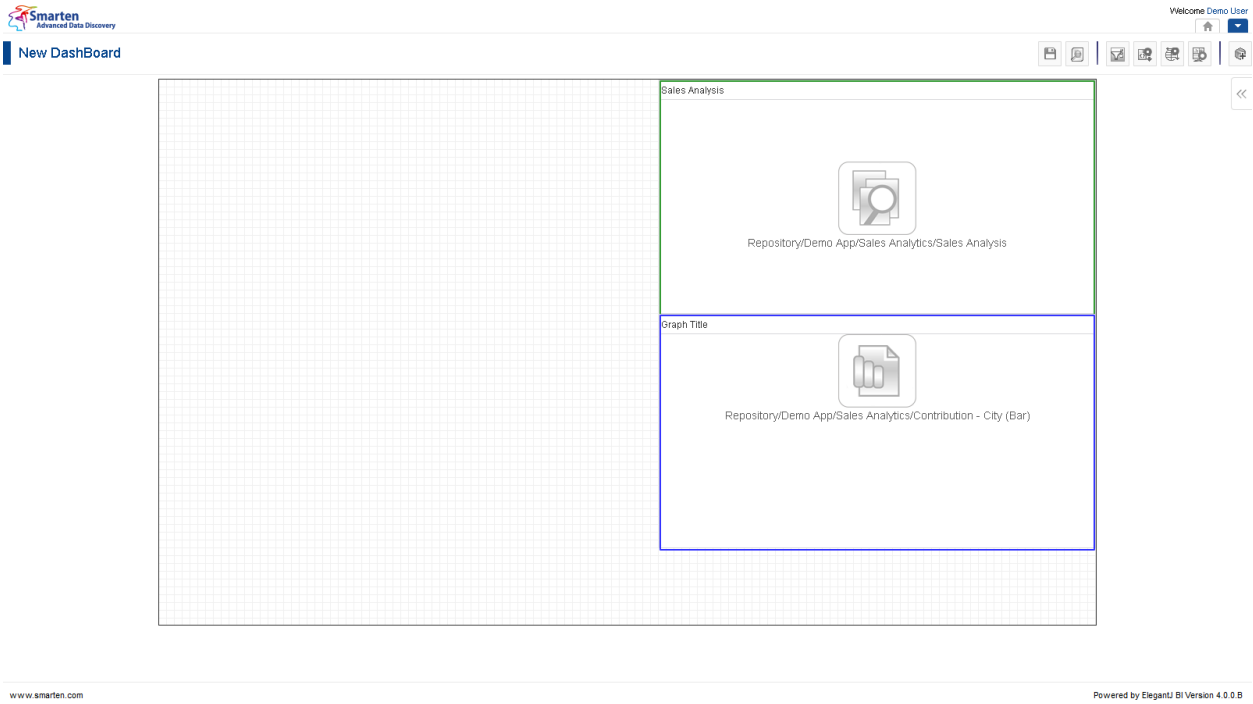
DASHBOARD: SECTION AFTER MOVING LEFT

8.3.2.6 Move Right

The **Move right** option is used to move the selected dashboard sections toward the right. Components will be adjusted in a particular direction with reference to the right most-selected component.



DASHBOARD: SECTION BEFORE MOVING RIGHT



DASHBOARD: SECTION AFTER MOVING RIGHT

8.3.3 Manage filter associations

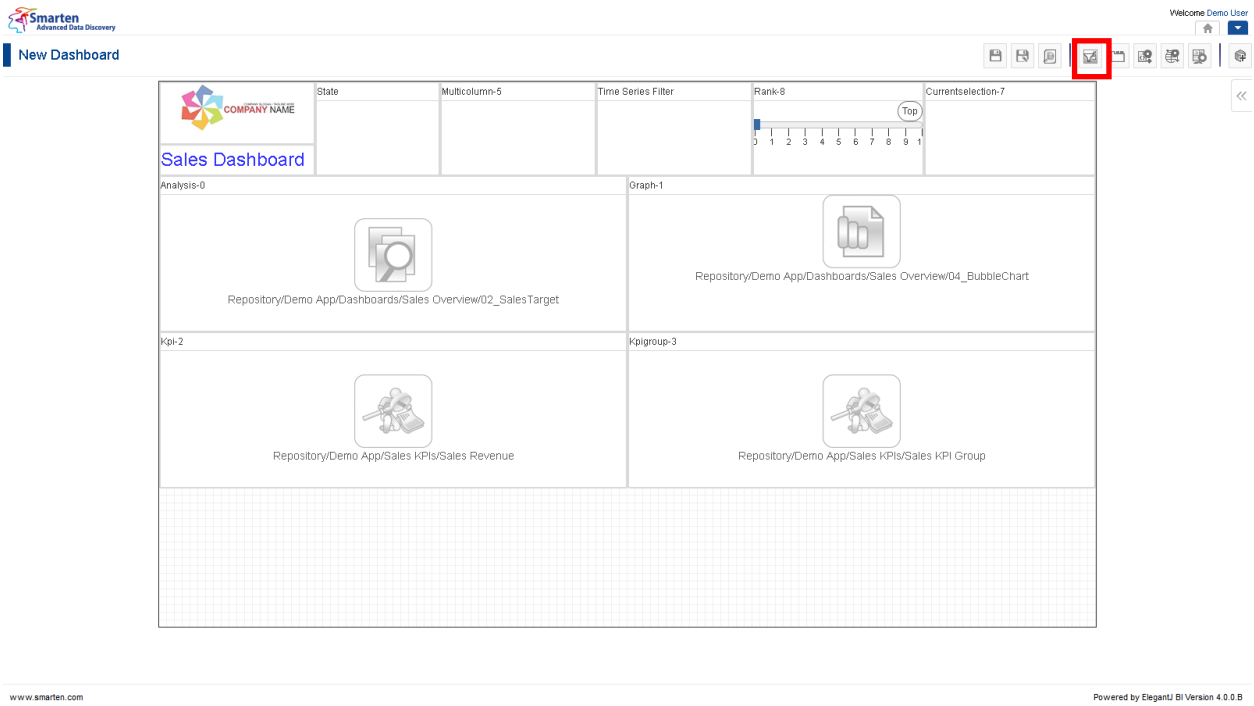
Smarten dashboards can have multiple filter components. By default, filters are applied to all objects within a dashboard. For example, if a particular state within State filter is selected, this filter is applied to all the objects within that dashboard.

However, in certain situations, you may not want to apply a particular filter to all the dashboard components. For example, you may not want to apply Year filter on a crosstab object that shows comparison of sales for the last three years.

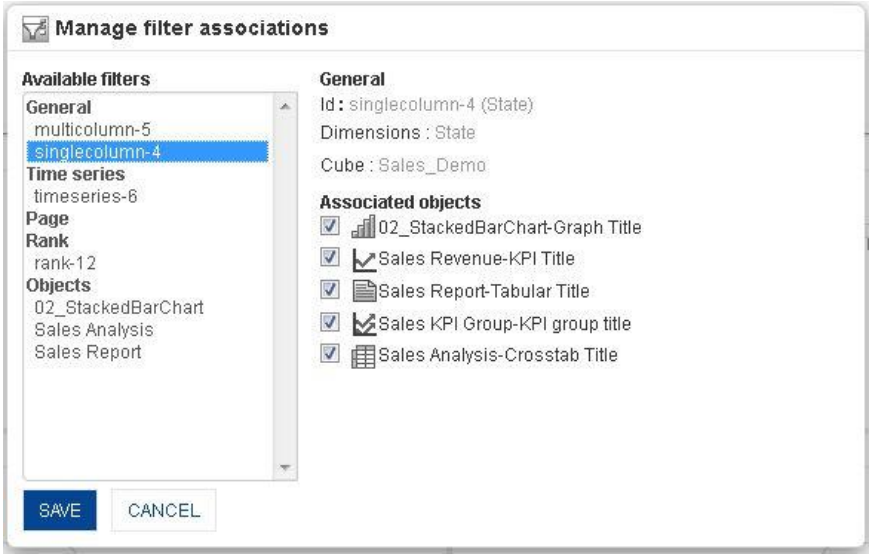
User can use filter associations feature to associate or disassociate dashboard objects from a filter.

Procedure

1. Follow the **Procedure** of **Create new from scratch** or **Create new from existing**.
   Or
   Open an existing dashboard in Design Mode.
2. In the Dashboard Toolbar, click **Manage filter associations**.
   The system displays the **Manage filter associations** dialog box.



DASHBOARD: MANAGE FILTER ASSOCIATION ICON



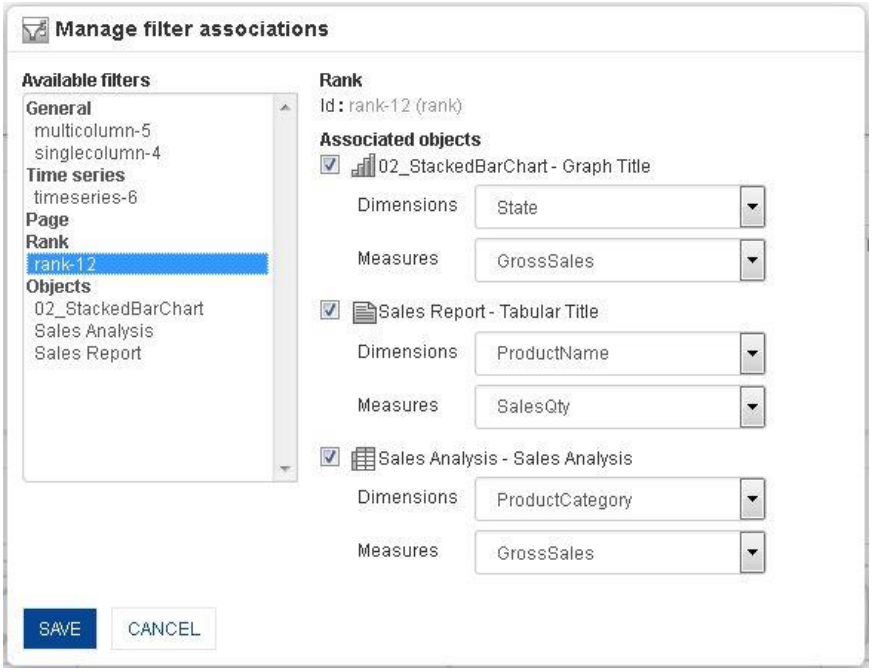
DASHBOARD: FILTER ASSOCIATION FOR FILTERS

3. From the **Available filters** list, select a filter.
4. From the **Associated objects,** select a checkbox against each object that you want to associate with this filter. You can deselect the checkbox if you want to remove association of that object with the filter.
5. Click **Save.**

To manage filter association for Rank

Procedure

1 From the **Available filters** list, select rank. You can select or deselect an object for association or disassociation.



DASHBOARD: FILTER ASSOCIATION FOR RANK

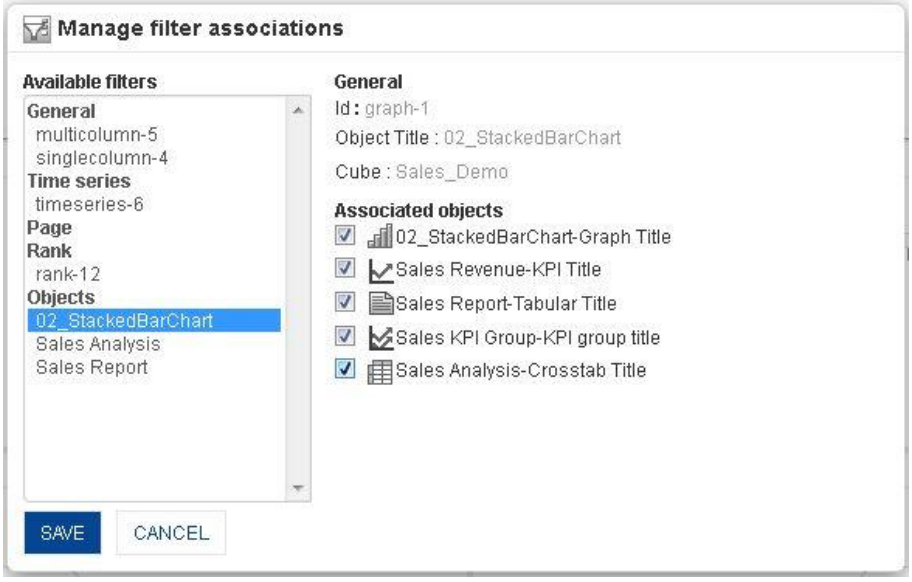
2 In **Associated objects**, select dimension and measure of the object on which that rank will be applied.

3 Click **Save.**

To manage filter association for Context filter

Procedure

1 From the **Available filters** list, select an object. You can select or deselect an object for association or disassociation.



DASHBOARD: FILTER ASSOCIATION FOR CONTEXT FILTER

2 From the **Associated objects,** select a checkbox against each object that you want to associate with this filter. You can deselect the checkbox if you want to remove association of that object with the filter.

3 Click **Save.**

8.3.4 Manage tabs

Smarten dashboards can have multiple tabs, with each tab having one dashboard. For example, you can create a dashboard with two tabs, the first tab with an overall sales performance dashboard and another in second tab with employee sales performance.

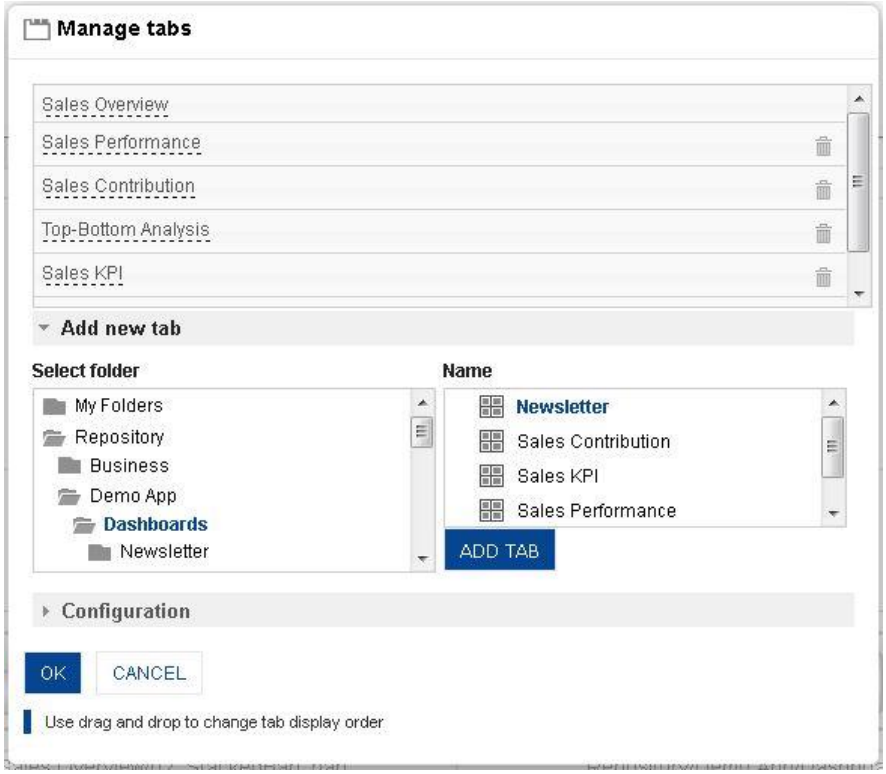
You can add and remove tabs from a dashboard using Manage tabs.

Procedure

1 In the **Repository**, open dashboard.
The system displays the selected dashboard.
Or
Open an existing dashboard.

2 In the upper right-hand corner, click **Setting.**
The system displays the Setting Toolbar.

3 In the Setting Toolbar, click **Manage tabs.**
The system displays the **Manage tabs** dialog box.



DASHBOARD: MANAGE TABS SETTINGS

4 In the Setting Toolbar, click **Add new tab.**

5 In the **Select folder** box**,** select the dashboard for this tab.

6 In the **Name** box**,** select the option.

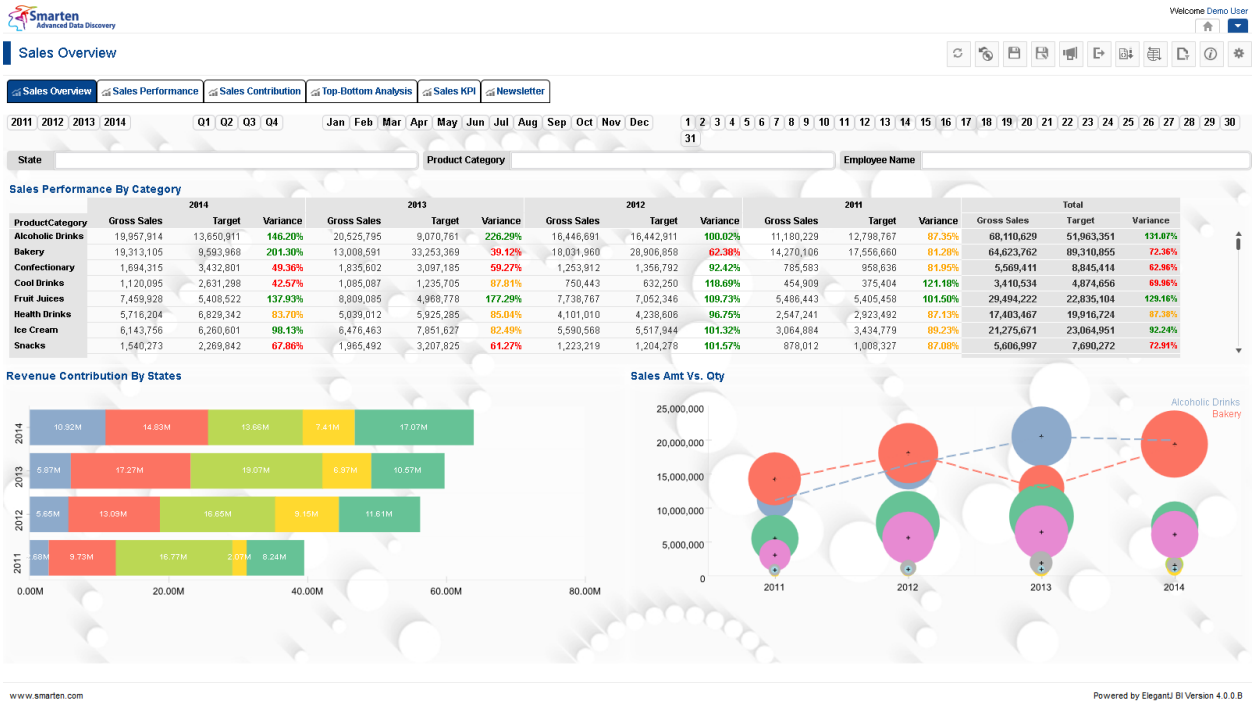
7 Click **ADD TAB.**

The system displays the selected name in the **Manage tabs** box above. You can add multiple names in the box. You can even delete any name by clicking the **Delete** icon. You can also change the sequence of tabs by moving the tabs up and down from here.

8 Click Configuration.

9 In the **Show dashboard name in title** field, check the checkboxes of **Main dashboard** and **Other dashboard** to display name of Main dashboard and Other dashboard in dashboard title.

10 Click **OK.**



DASHBOARD: MULTIPLE DASHBOARDS IN TAB

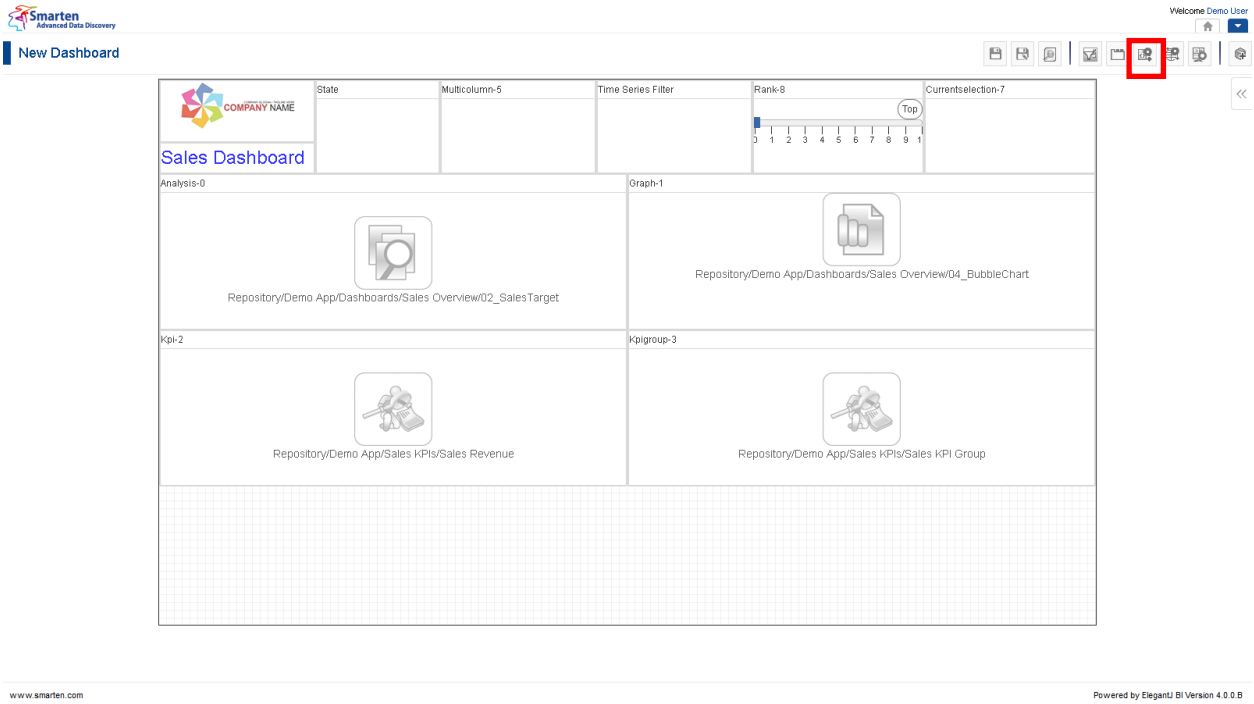
8.3.5 Retrieval parameters

By default, Smarten dashboards are loaded with full data from the cube. To see dashboards with filtered views, retrieval parameters are required. These are run-time parameters for analysing the dashboards. You can select retrieval parameters for cube dimensions.

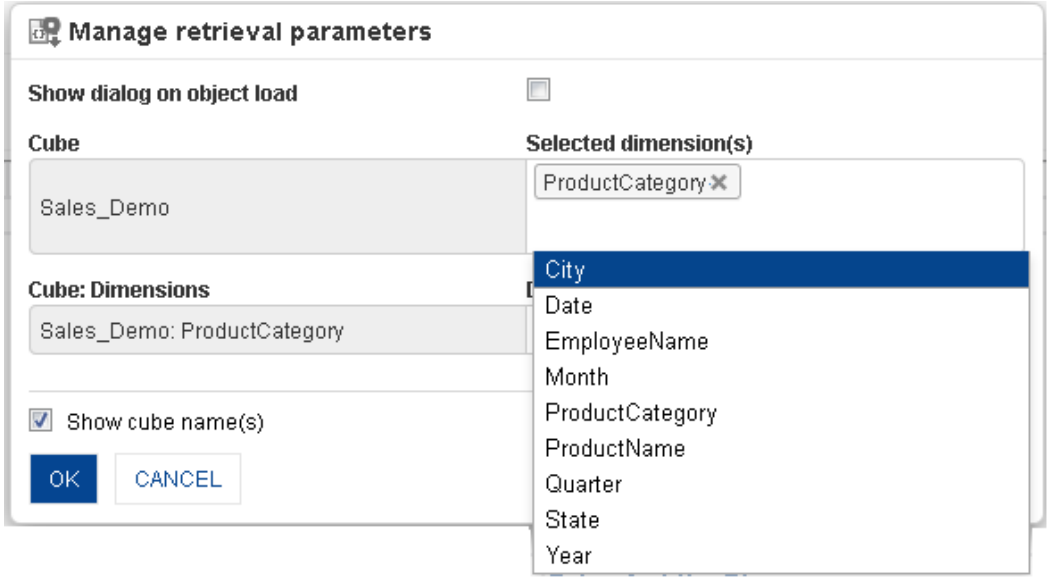
8.3.5.1 Creating & Managing Retrieval parameters

Procedure

1. In the **Repository**, open dashboard.
   The system displays the selected dashboard.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. In the Setting Toolbar, click **Design Mode**.
4. In the Dashboard Toolbar in Design mode, click **Manage retrieval parameters.**
   The system displays the **Manage retrieval parameters** dialog box.



DASHBOARD: MANAGE RETRIEVAL PARAMETERS ICON



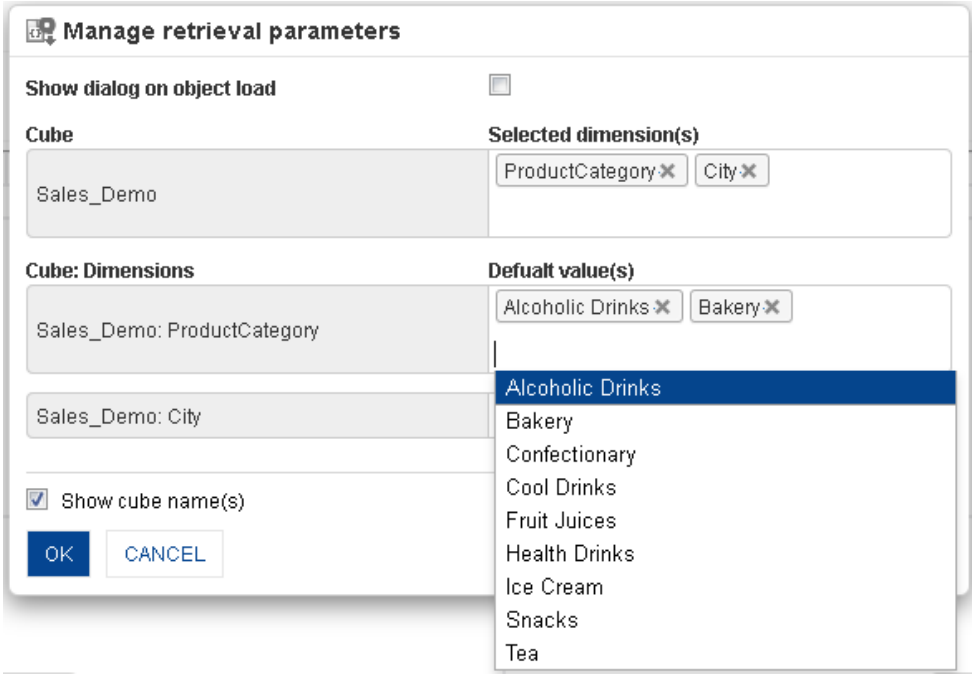
DASHBOARD: MANAGE RETRIEVAL PARAMETERS—SELECT DIMENSION

5 In the **Show dialog on object load** field, check the checkbox to display retrieval parameters dialog on object load.

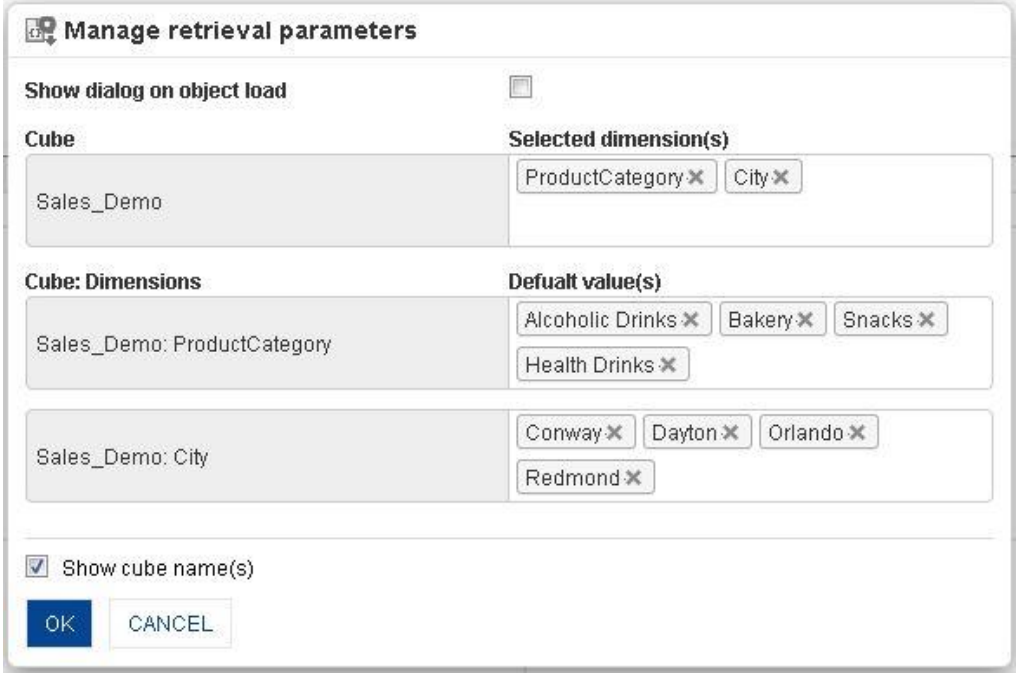
6 In the **Selected dimension(s)** field, select the dimensions from the drop-down list.
You can remove retrieval parameters by deleting dimensions from the selected dimensions.

7 In the **Default value(s)** field, select the value from the drop-down list.

8 Click **OK** to save settings.



DASHBOARD: SET VALUE FOR RETRIEVAL PARAMETERS

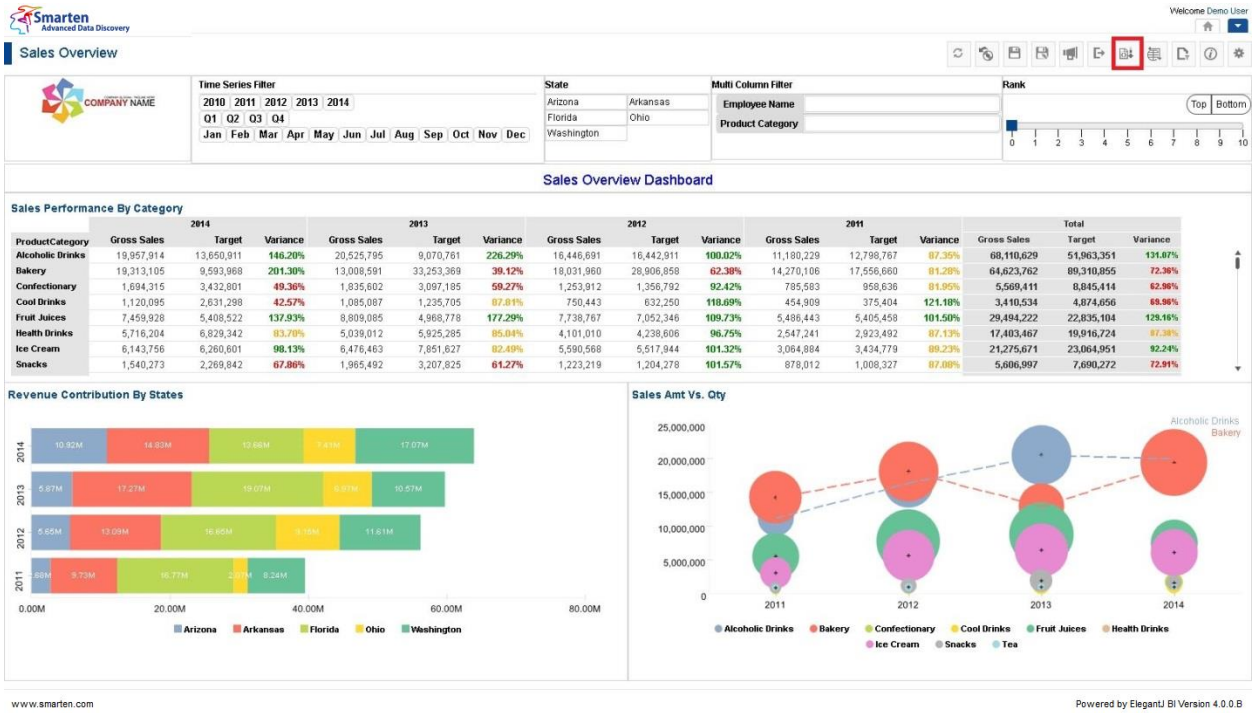


DASHBOARD: MANAGE RETRIEVAL PARAMETERS LIST

8.3.5.2 Applying Retrieval parameters

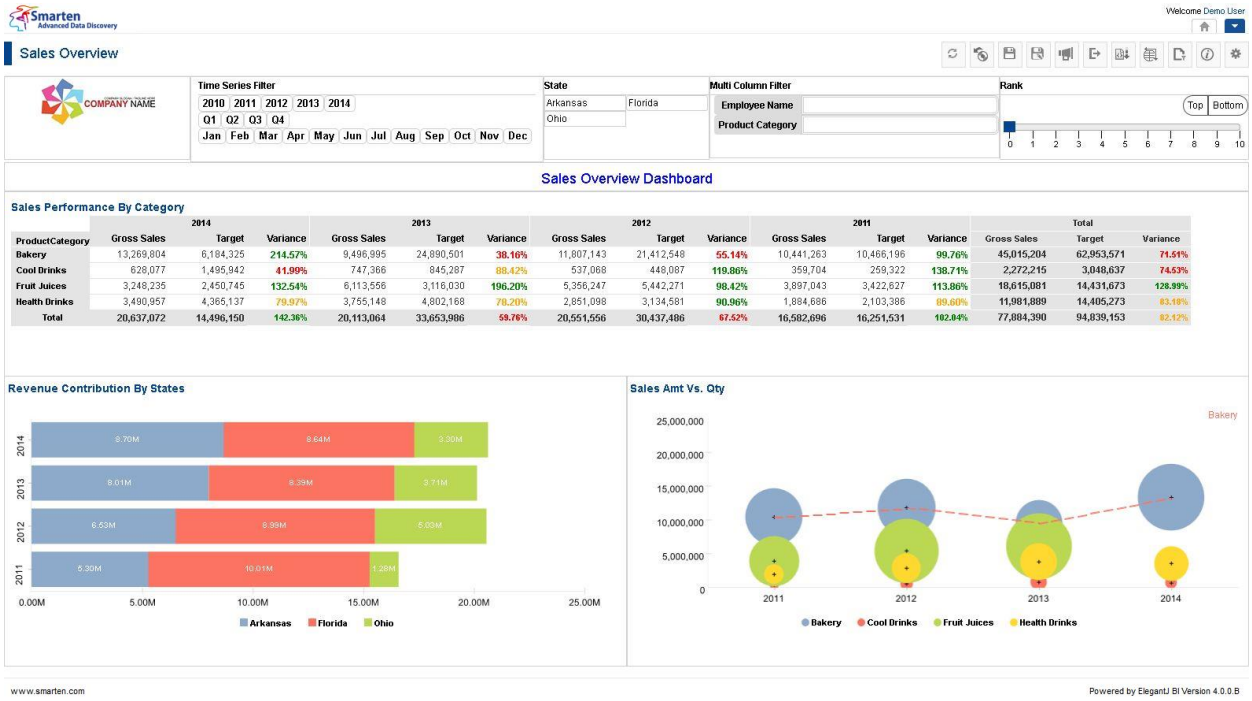
Procedure

1. In the **Repository**, open dashboard.
   The system displays the selected dashboard.
2. In the Dashboard Toolbar, click **Retrieval Parameters.**
   The system displays a list of retrieval parameters created through **Manage retrieval parameters.**
3. Select the value of retrieval parameters as needed.
4. Click **OK**.



RETRIEVAL PARAMETERS ICON

RETRIEVAL PARAMETERS: VALUE SELECTION



ProductCategory	2014 Gross Sales	2014 Target	2014 Variance	2013 Gross Sales	2013 Target	2013 Variance	2012 Gross Sales	2012 Target	2012 Variance	2011 Gross Sales	2011 Target	2011 Variance	Total Gross Sales	Total Target	Total Variance
Bakery	13,269,804	6,184,325	214.57%	9,496,995	24,890,501	38.16%	11,807,143	21,412,548	55.14%	10,441,263	10,466,196	99.76%	45,015,204	62,953,571	71.51%
Cool Drinks	628,077	1,495,942	41.99%	747,366	845,287	88.42%	537,068	448,087	119.86%	359,704	259,322	138.71%	2,272,215	3,048,637	74.53%
Fruit Juices	3,248,235	2,450,745	132.54%	6,113,556	3,116,030	196.20%	5,356,247	5,442,271	98.42%	3,897,043	3,422,627	113.86%	18,615,081	14,431,673	128.99%
Health Drinks	3,490,957	4,365,137	79.97%	3,755,148	4,802,168	78.20%	2,851,098	3,134,581	90.96%	1,884,686	2,103,386	89.60%	11,981,889	14,405,273	83.18%
Total	20,637,072	14,496,150	142.36%	20,113,064	33,653,986	59.76%	20,551,556	30,437,486	67.52%	16,582,696	16,251,531	102.04%	77,884,390	94,839,153	82.12%

DASHBOARD AFTER SETTING RETRIEVAL PARAMETERS

Reference: **Concept Manual > Filters and Expressions > Retrieval Parameters**

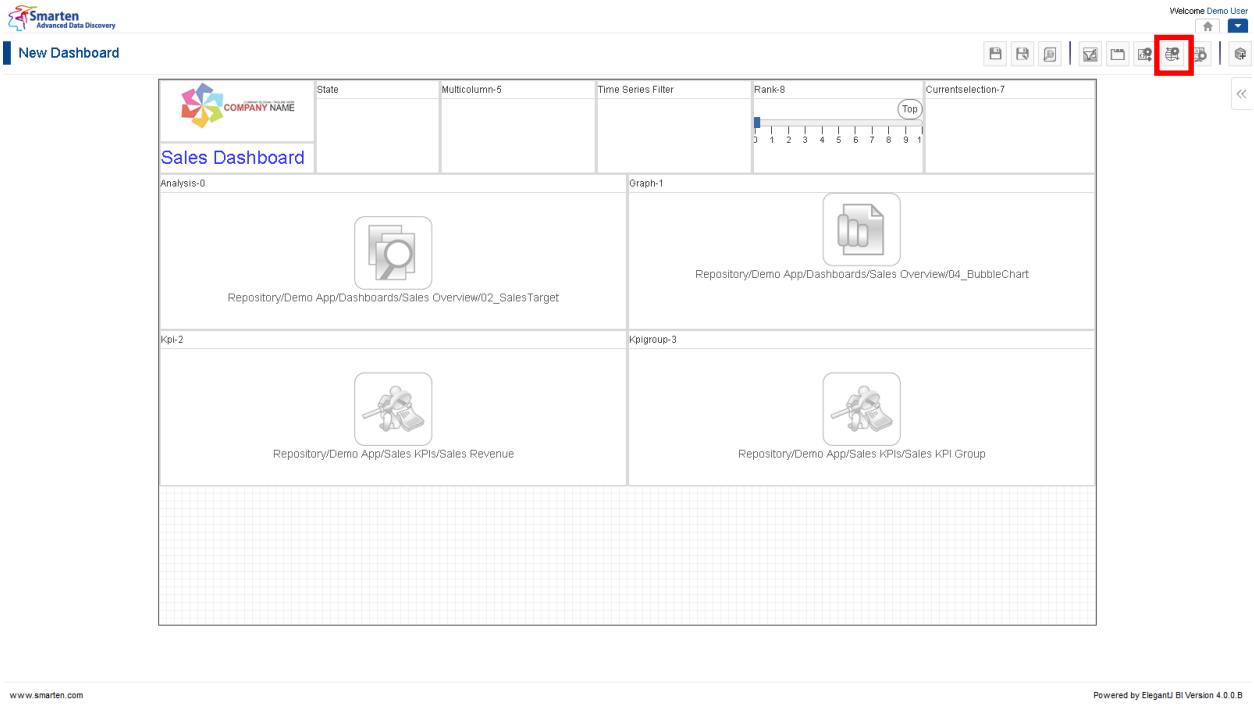
8.3.6 Global variables

Variables that can be globally accessed with different expressions and filters for objects within Smarten are known as Global variables.

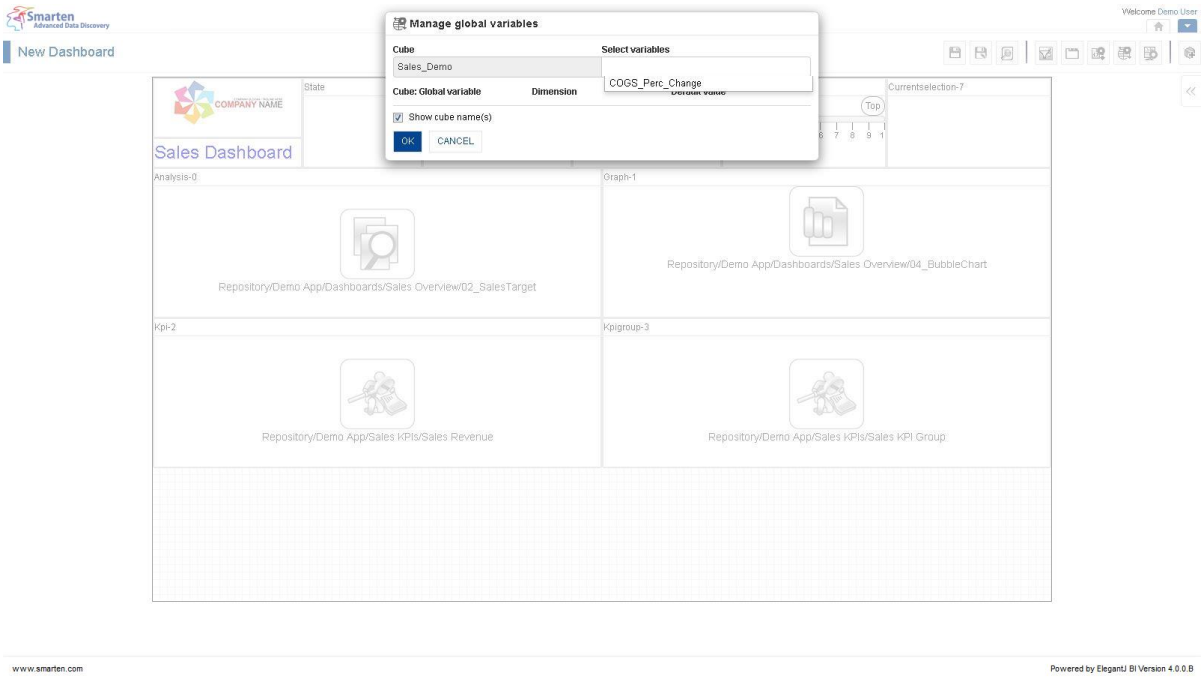
8.3.6.1 Creating global variables

Procedure

1. In the **Repository**, open dashboard.
   The system displays the selected dashboard.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. In the Setting Toolbar, click **Design Mode**.
4. In the Dashboard Toolbar in Design mode, click **Manage global variables.**
   The system displays the **Manage global variables** dialog box.



DASHBOARD: MANAGE GLOBAL VARIABLE ICON

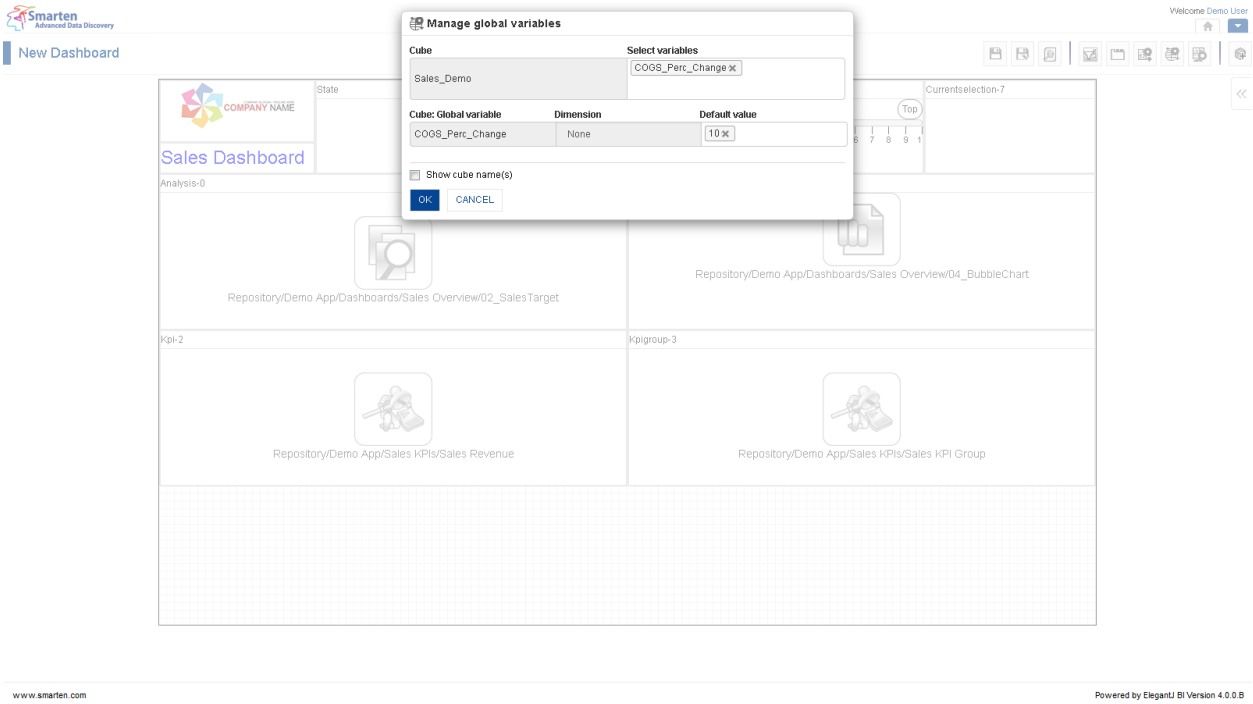


DASHBOARD: SELECT VARIABLE FROM LIST

5 In the **Select variables** field, select a variable from the drop-down list.

6 The system displays the default value. However, you can change the value in the **Default value(s)** field.

7 Click **OK.**

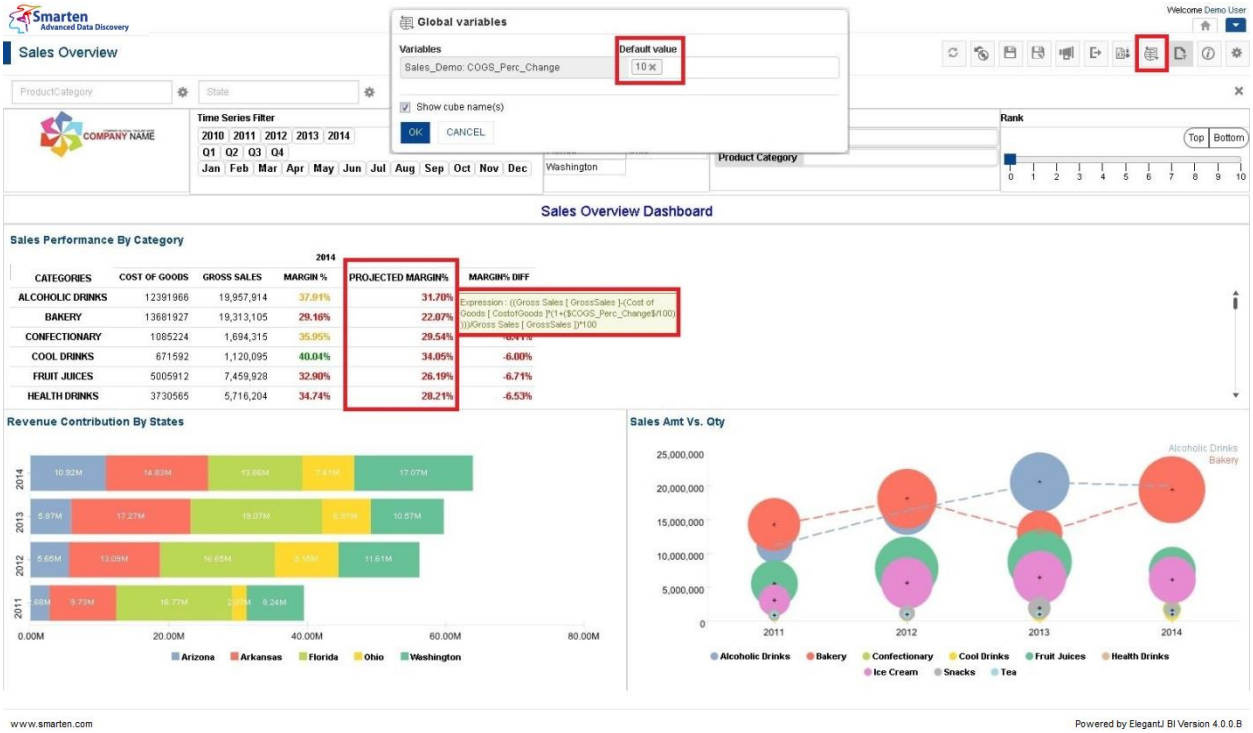


DASHBOARD: SET DEFAULT VALUE FOR SELECTED GLOBAL VARIABLE

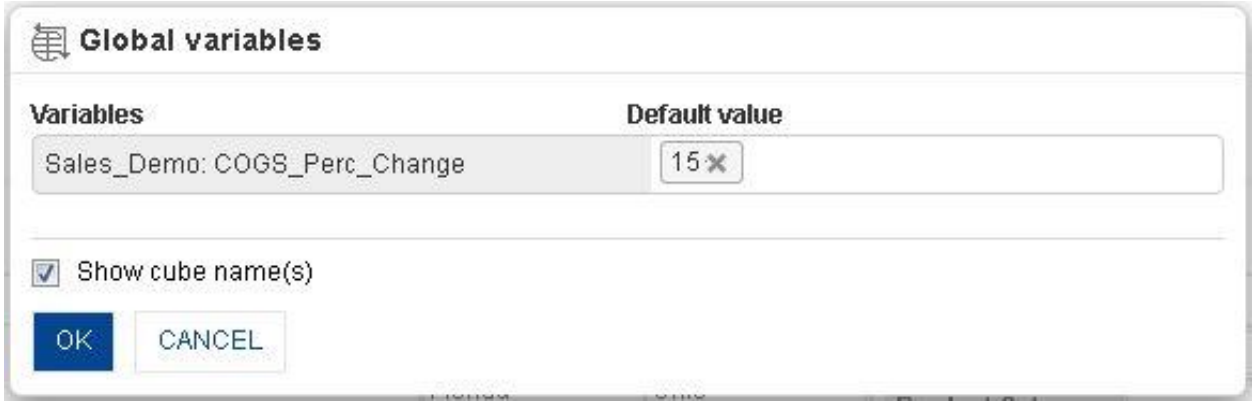
8.3.6.2 Applying Global variables

Procedure

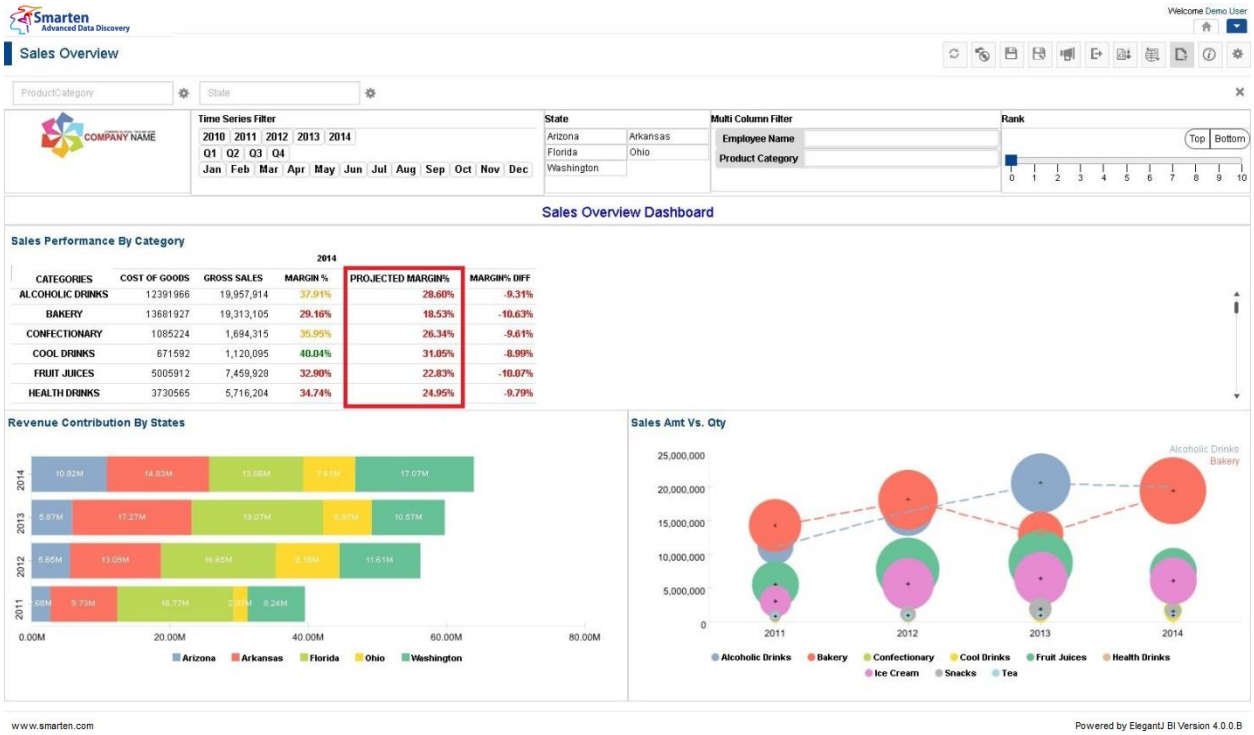
1. In the **Repository**, open dashboard.
   The system displays the selected dashboard.
2. In the Dashboard Toolbar, click **Global variables**.
   The system displays a list of global variables created through **Manage global variables.**
3. Select the value of global variables as needed.
4. Click **OK**.



DASHBOARD: GLOBAL VARIABLE WITH DEFAULT VALUE



GLOBAL VARIABLE: CHANGE DEFAULT VALUE



DASHBOARD AFTER CHANGING DEFAULT VALUE OF GLOBAL VARIABLE

Reference: **Concept Manual > Filters and Expressions > Global Variables**

8.3.7 What-if variables

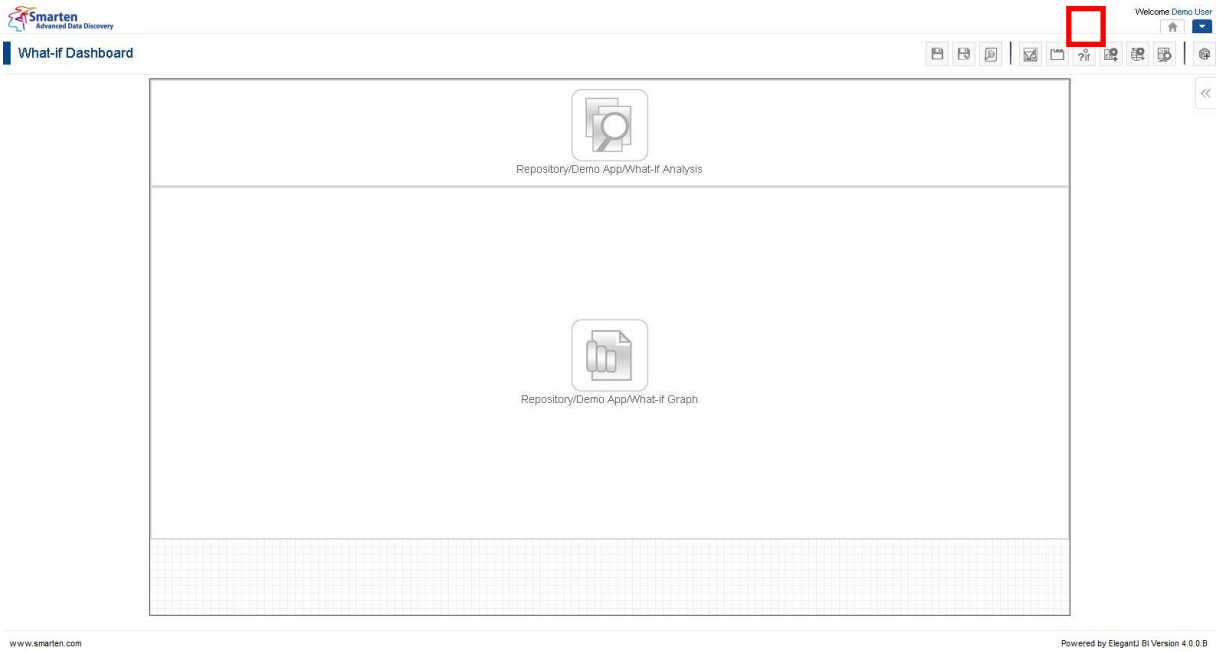
Global variables used in Custom measures can be selected as what-if variables as per analysis or reporting requirements.

8.3.7.1 Selecting What-if variables

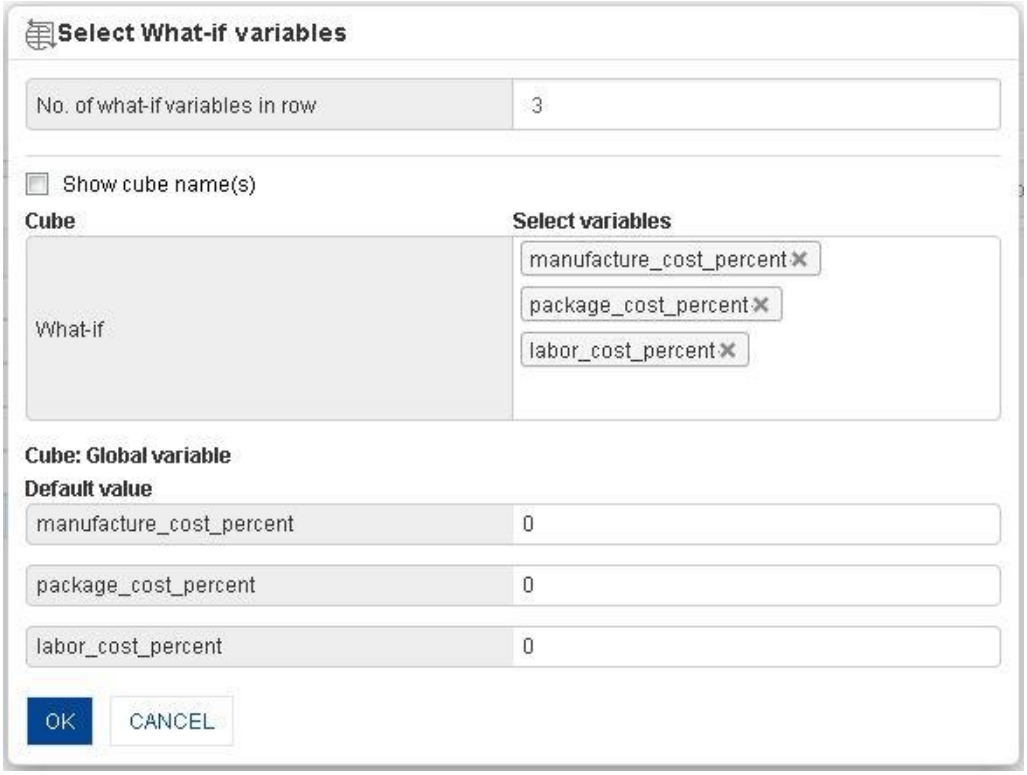
Procedure

1. In the **Repository**, open dashboard.
   The system displays the selected dashboard.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. In the Setting Toolbar, click **Design Mode**.
4. In the Dashboard Toolbar in Design mode, click **Select What-if variables.**

The system displays the **Select What-if variables** dialog box.



DASHBOARD: SELECT WHAT-IF VARIABLES ICON



DASHBOARD: SELECT WHAT-IF VARIABLES DIALOG

5 In the **No. of what-if variables in row** field, enter a value.

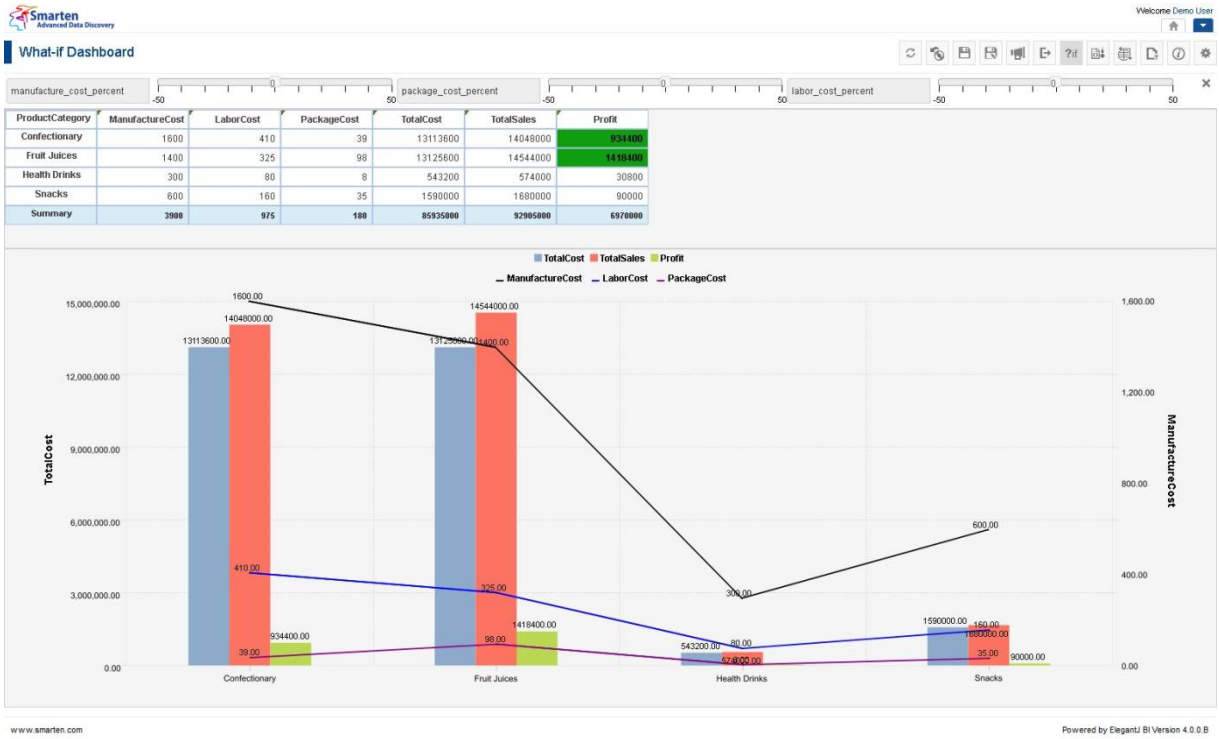
6 In the **Select variables** field, select a variable from the list of value.

7 Click **OK.**

8.3.7.2 Applying What-if variables

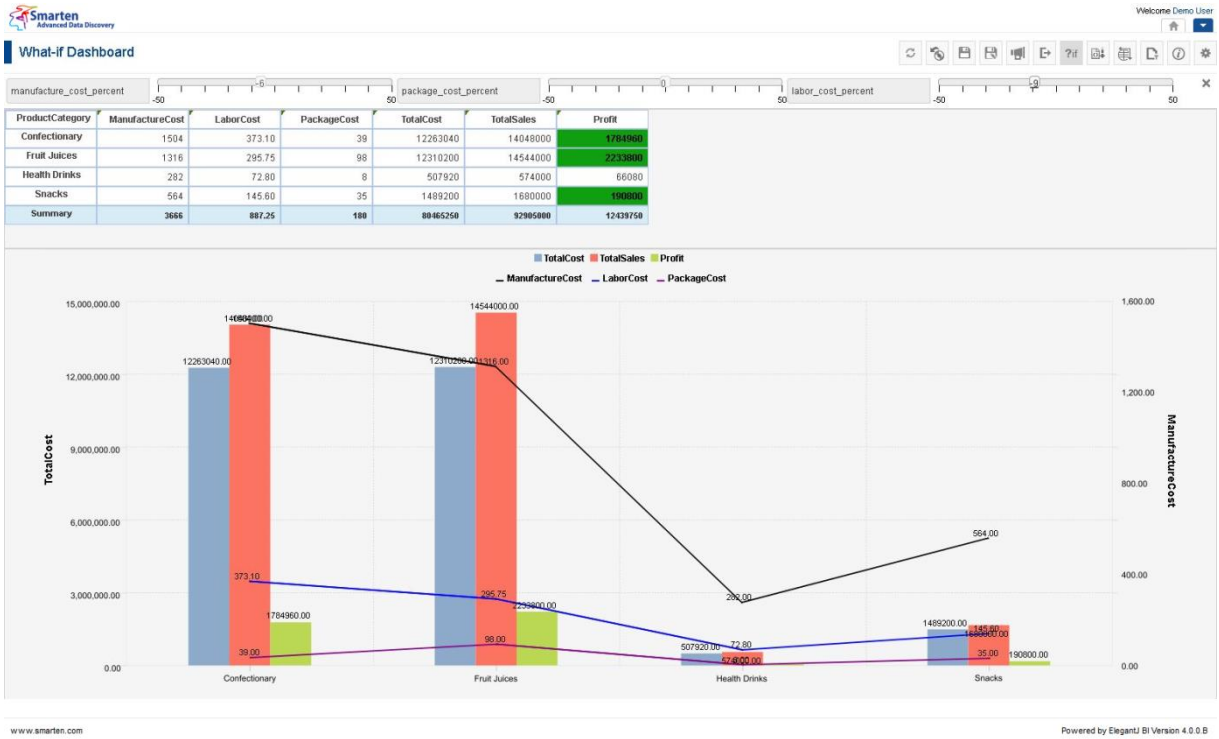
Procedure

1. In the **Repository**, open dashboard.
   The system displays the selected dashboard.
2. In the Dashboard Toolbar, click **What-if**.
   The system displays a what-if panel with list of what-if variables selected through **Select What-if variables.**



DASHBOARD OBJECTS BEFORE CHANGING VALUE OF WHAT-IF VARIABLES

3. Change the value of what-if variables as needed.



DASHBOARD OBJECTS AFTER CHANGING VALUE OF WHAT-IF VARIABLES

Reference: **Concept Manual > Analytic Functions > What-if Analysis**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

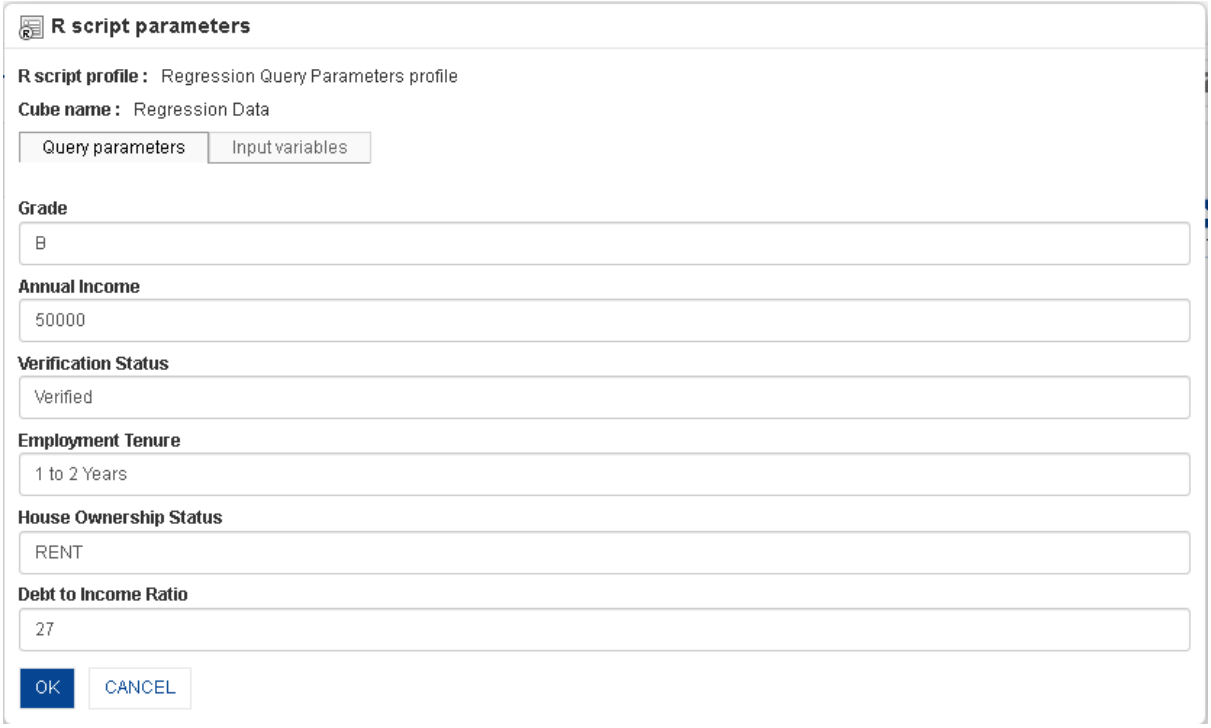
You can perform various operations on Dashboard Components.

8.3.8 R script parameters

By default, Real-time objects of Smarten dashboards are loaded with data stored in the Real-time R cube with default Query parameters applied. You can regenerate the real-time object with different output by entering different values of Query parameters from the dashboard itself. You can change the values of Query parameters in run-time through the “R script parameters” icon in the toolbar of the dashboard. As a result, the R script will be re-executed with new values of Query parameters, and the real-time R cube will be rebuilt to store the new output, which will, in turn, be instantly reflected in the real-time object.

Procedure

1. In the **Repository**, open dashboard.
   The system displays the dashboard.
2. In the Dashboard Toolbar, click **R script parameters**.
   The system displays the **R script parameters** dialog box.



R SCRIPT PARAMETERS

3. Enter new query parameter values.
4. Click **OK**.

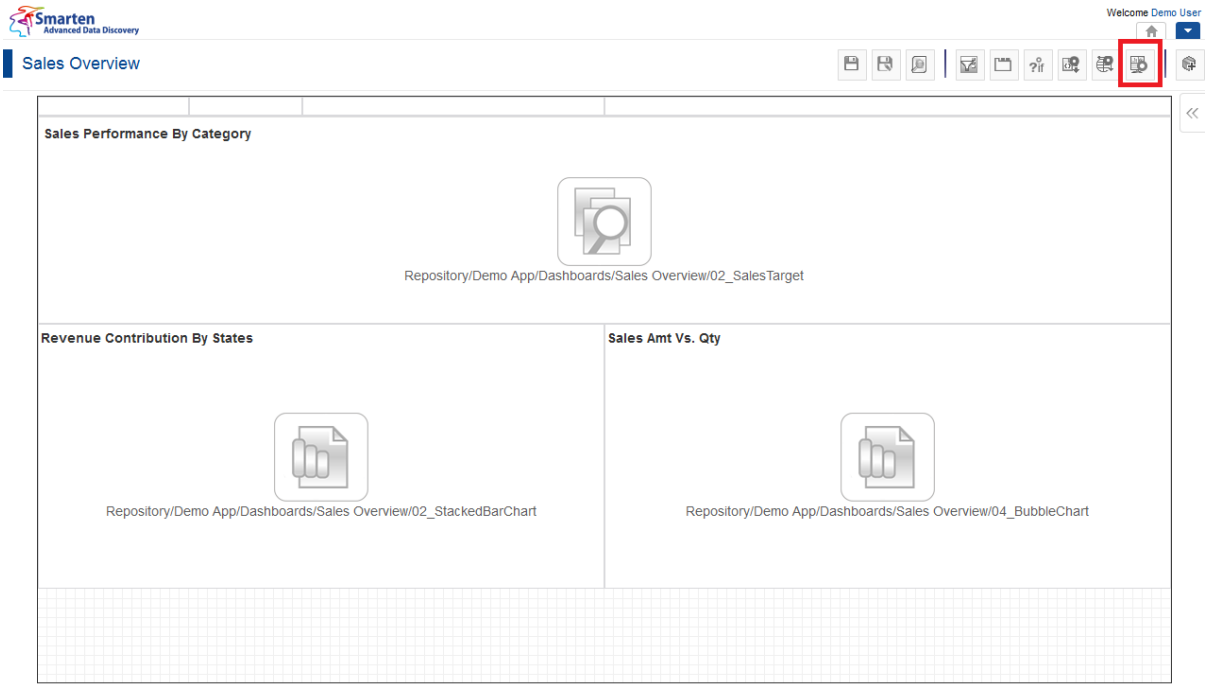
Reference:	**Working with R Integration**

> Note:
> R script parameters icon will be displayed only when there is a Real-time object created from a Real-time R cube in the Dashboard.

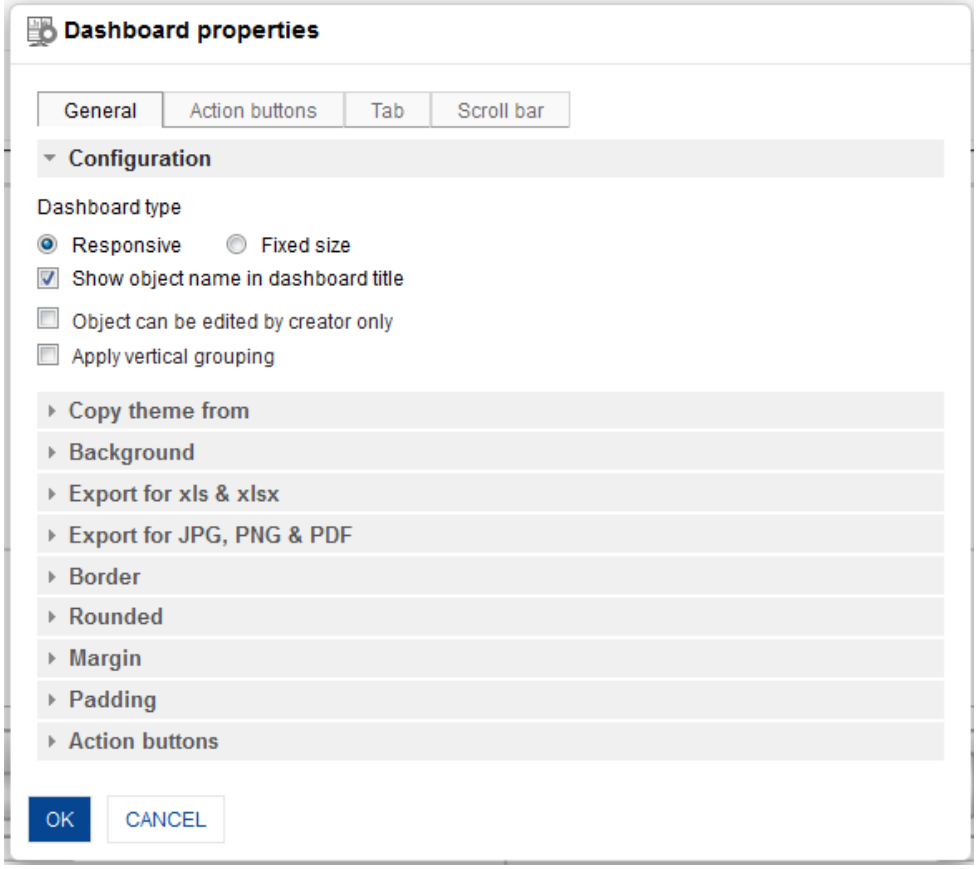
8.3.9 Dashboard properties

Procedure

1. In the **Repository**, open dashboard.
   The system displays the selected dashboard.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. In the Setting Toolbar, click **Design Mode**.
4. In the Dashboard Toolbar in Design mode, click **Dashboard properties.**
   The system displays the **Dashboard properties** dialog box.



DASHBOARD: DASHBOARD PROPERTIES ICON



DASHBOARD: DASHBOARD PROPERTIES DIALOG

5 To configure the properties, select the tab and enter/select the values in the various fields.

6 Click **OK** or **Cancel.**

The following tables list all the Dashboard properties.

Dashboard properties: General

Element	Properties	Sub Properties	Default Value	Values
Configuration	Dashboard type		Responsive	Responsive Fixed size
	Show object name in dashboard title		TRUE	True/False
	Object can be edited by creator only		FALSE	True/False
	Apply vertical grouping		FALSE	True/False
Background	Visible		FALSE	True/False
	Color		#f5f5f5	#000000 - #FFFFFF
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	No repeat/ Repeat/Repeat X/Repeat y
	Background position		Center	Center/Left/Right/Top/Bottom
	Gradient			
	Visible		FALSE	True/False
	Style		Liner gradient	Liner gradient
	Angle		0	0 to 360
	Extent		0	0 to 360
	Color		#FFFFFF	#000000 - #FFFFFF
Export for xls & xlsx	Show object information		TRUE	True/False
Export for JPG, PNG & PDF	Width		1200	
Border	Visible		TRUE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %

Element	Properties	Sub Properties	Default Value	Values
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.50%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Action buttons	Refresh	Visible	TRUE	True/False
	Restore	Visible	TRUE	True/False
	Save	Visible	TRUE	True/False
	Save as	Visible	TRUE	True/False
	Publish now	Visible	TRUE	True/False
	Export	Visible	TRUE	True/False
	Retrieval Parameters	Visible	TRUE	True/False
	Global variables	Visible	TRUE	True/False

DASHBOARD PROPERTIES – GENERAL

Dashboard properties: Dashboard area (for fixed size dashboard only)

Element	Properties	Sub Properties	Default Value	Values
Configuration	Width		1200	
	Height		-1	-1 = Auto grow, > 399
	Keep fixed size view for mobile		FALSE	True/False
	Keep fixed size view for tablet		FALSE	True/False
Background	Visible		TRUE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF

Element	Properties	Sub Properties	Default Value	Values
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.50%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

DASHBOARD PROPERTIES – DASHBOARD AREA

Dashboard properties: Action button

Element	Properties	Sub Properties	Default Value	Values
Default				
Background	Visible		TRUE	True/False
	Color		#f9f9f9	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#dcdcdc	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#dcdcdc	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#dcdcdc	#000000 - #FFFFFF
	Top	Width	0	0 – 10

Element	Properties	Sub Properties	Default Value	Values
		Style	Solid	None/Solid/Dash/Dot
		Color	#dcdcdc	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#dcdcdc	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00	0 – 100 px
	Top		0.00	0 – 100 px
	Bottom		0.00	0 – 100 px
	Left		0.00	0 – 100 px
	Right		0.00	0 – 100 px
Padding	All		0.00	0 – 100 px
	Top		0.00	0 – 100 px
	Bottom		0.00	0 – 100 px
	Left		0.00	0 – 100 px
	Right		0.00	0 – 100 px
Mouse over				
Background	Visible		TRUE	True/False
	Color		#dcdcdc	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		Repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#dcdcdc	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#dcdcdc	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#dcdcdc	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#dcdcdc	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#dcdcdc	#000000 - #FFFFFF
Rounded	All		1	0 – 20

Element	Properties	Sub Properties	Default Value	Values
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00	0 – 100 px
	Top		0.00	0 – 100 px
	Bottom		0.00	0 – 100 px
	Left		0.00	0 – 100 px
	Right		0.00	0 – 100 px
Padding	All		0.00	0 – 100 px
	Top		0.00	0 – 100 px
	Bottom		0.00	0 – 100 px
	Left		0.00	0 – 100 px
	Right		0.00	0 – 100 px

DASHBOARD PROPERTIES – ACTION BUTTON

Dashboard properties: Tab

Element	Properties	Sub Properties	Default Value	Values
Default				
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		# 05458d	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10

Element	Properties	Sub Properties	Default Value	Values
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00	0 – 100 px
	Top		0.00	0 – 100 px
	Bottom		0.00	0 – 100 px
	Left		0.00	0 – 100 px
	Right		0.00	0 – 100 px
Padding	All		3.00	0 – 100 px
	Top		0.00	0 – 100 px
	Bottom		0.00	0 – 100 px
	Left		0.00	0 – 100 px
	Right		0.00	0 – 100 px
Mouse over				
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#ccccec	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360

Element	Properties	Sub Properties	Default Value	Values
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d6d6d6	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d6d6d6	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d6d6d6	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d6d6d6	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d6d6d6	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00	0 – 100 px
	Top		0.00	0 – 100 px
	Bottom		0.00	0 – 100 px
	Left		0.00	0 – 100 px
	Right		0.00	0 – 100 px
Padding	All		3.00	0 – 100 px
	Top		0.00	0 – 100 px
	Bottom		0.00	0 – 100 px
	Left		0.00	0 – 100 px
	Right		0.00	0 – 100 px
Selected				
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#FFFFFF	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#05458d	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		repeat	Repeat/No repeat/

Element	Properties	Sub Properties	Default Value	Values
				Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d6d6d6	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d6d6d6	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d6d6d6	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d6d6d6	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d6d6d6	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00	0 – 100 px
	Top		0.00	0 – 100 px
	Bottom		0.00	0 – 100 px
	Left		0.00	0 – 100 px
	Right		0.00	0 – 100 px
Padding	All		3.00	0 – 100 px
	Top		0.00	0 – 100 px
	Bottom		0.00	0 – 100 px
	Left		0.00	0 – 100 px
	Right		0.00	0 – 100 px
Navigation				
Background	Visible		FALSE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Font and text	Size		18	8 – 25
	Color		#05458d	#000000 - #FFFFFF
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Border		Visible	TRUE	True/False

Element	Properties	Sub Properties	Default Value	Values
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D6D6D6	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#D6D6D6	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#D6D6D6	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#D6D6D6	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#D6D6D6	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Padding	All		0	0 – 100 px
	Top		7.00	0 – 100 px
	Bottom		7.00	0 – 100 px
	Left		7.00	0 – 100 px
	Right		8.00	0 – 100 px
Separator				
Text/Image	Visible		TRUE	True/False
	Text (character)		|	Any character value
	Image		None	.jpg, .png (image formats)
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		18	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FEEFEE	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D6D6D6	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D6D6D6	#000000 - #FFFFFF

Element	Properties	Sub Properties	Default Value	Values
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D6D6D6	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D6D6D6	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#D6D6D6	#000000 - #FFFFFF
Margin	All		0.00	0 – 100 px
	Top		0.00	0 – 100 px
	Bottom		0.00	0 – 100 px
	Left		0.00	0 – 100 px
	Right		0.00	0 – 100 px
Padding	All		0	0 – 100 px
	Top		0	0 – 100 px
	Bottom		0	0 – 100 px
	Left		0	0 – 100 px
	Right		0	0 – 100 px
Dockable				
Dockable	Enable		FALSE	True/False
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#FFFFFF	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#05458d	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d6d6d6	#000000 - #FFFFFF

Element	Properties	Sub Properties	Default Value	Values
	Left	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d6d6d6	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d6d6d6	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d6d6d6	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d6d6d6	#000000 - #FFFFFF
Rounded	All		1	0 – 20
	Top left		1	0 – 20
	Top right		1	0 – 20
	Bottom left		1	0 – 20
	Bottom right		1	0 – 20
Margin	All		0.00	0 – 100 px
	Top		0.00	0 – 100 px
	Bottom		0.00	0 – 100 px
	Left		0.00	0 – 100 px
	Right		0.00	0 – 100 px
Padding	All		3.00	0 – 100 px
	Top		0.00	0 – 100 px
	Bottom		0.00	0 – 100 px
	Left		0.00	0 – 100 px
	Right		0.00	0 – 100 px

DASHBOARD PROPERTIES – TAB

Dashboard properties: Scrollbar

Element	Properties	Sub Properties	Default Value	Values
General				
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Background	Visible		FALSE	True/False
	Color		#f5f5f5	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10

		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Bar				
Background	Visible		TRUE	True/False
	Color		#5C5C5C	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Rounded	All		5	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Buttons				
Background	Visible		FALSE	True/False
	Color		#f5f5f5	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20

DASHBOARD PROPERTIES - SCROLLBAR

8.3.10 On Section Objects

You can perform various operations on Dashboard section objects.

8.3.10.1 Drill Down and Drill Up

8.3.10.1.1 Crosstab

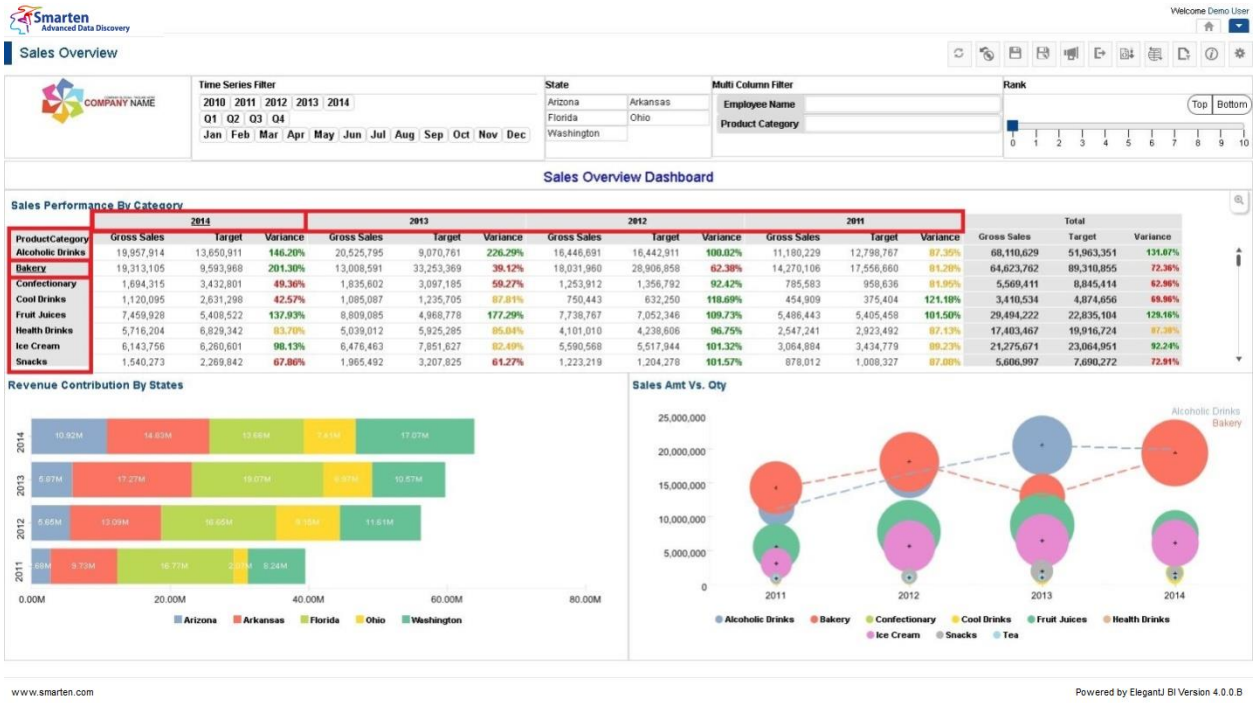
The drill down and drill up operation provides interactive data analysis through predefined dimension hierarchy. Using drill down and drill up, you can perform hierarchical drilling on column and row headings available as links in crosstab.

Performing the drill down and drill up operation

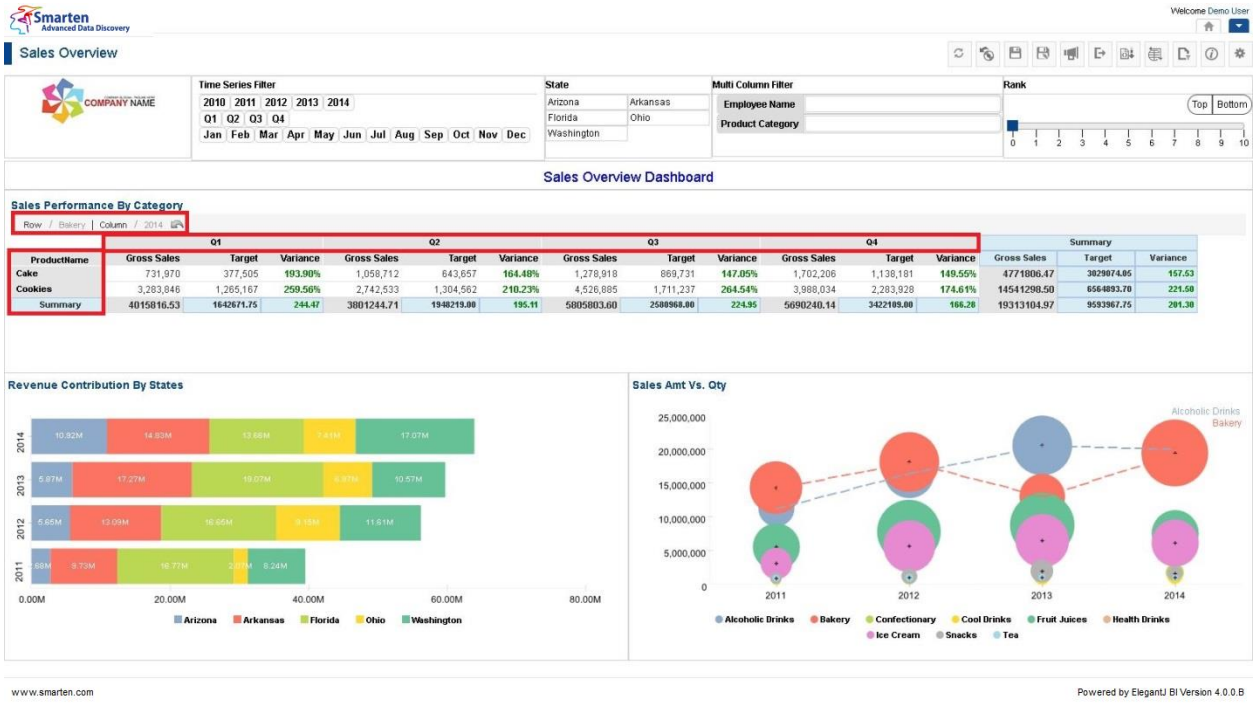
About this task
You can use the drill down option to navigate from less-detailed aggregated information to view more granular data.

Procedure

1. In the **Repository**, open dashboard.
   The system displays the selected dashboard.
2. In the Crosstab object, click the dimension on which you want to perform the drill down operation.
   The system displays the drill down results.



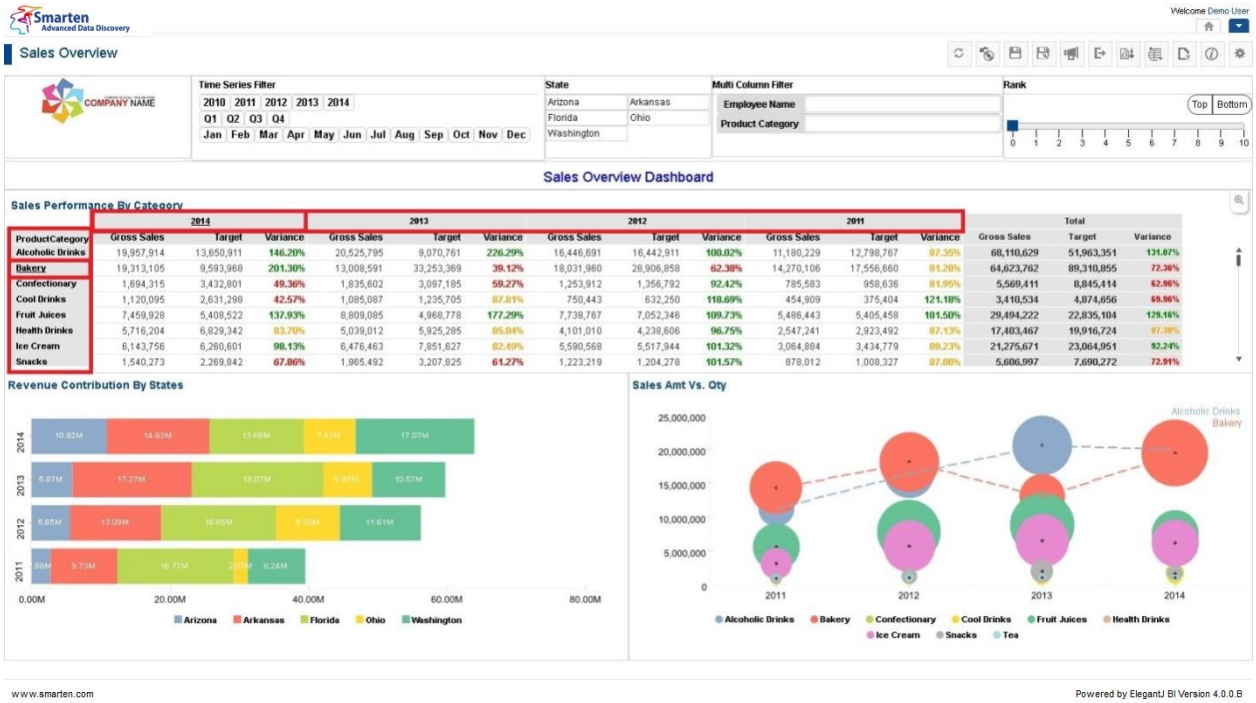
DASHBOARD: CROSSTAB OBJECT BEFORE DRILL DOWN



DASHBOARD: CROSSTAB OBJECT AFTER DRILL DOWN

When you perform the drill down operation, Smarten displays the results for all the areas under the selected dimension.

To drill up back to the original results, click the Back arrow key next to the Dimension name.



DASHBOARD: CROSSTAB OBJECT AFTER DRILL UP

Reference: **Concept Manual > Analytic Functions > Drill Down and Drill Up**

8.3.10.1.2 Graph

Using drill down and drill up, you can perform hierarchical drilling on column and/or row dimensions in graph.

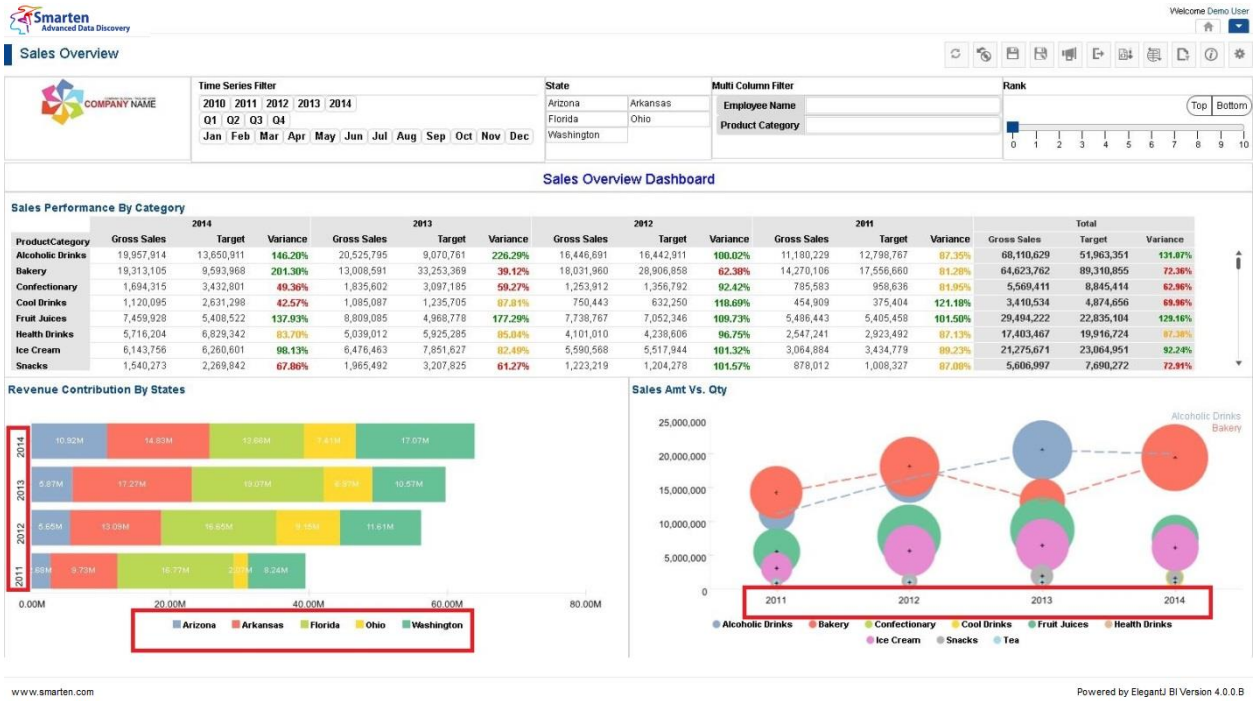
Performing the drill down and drill up operation

About this task

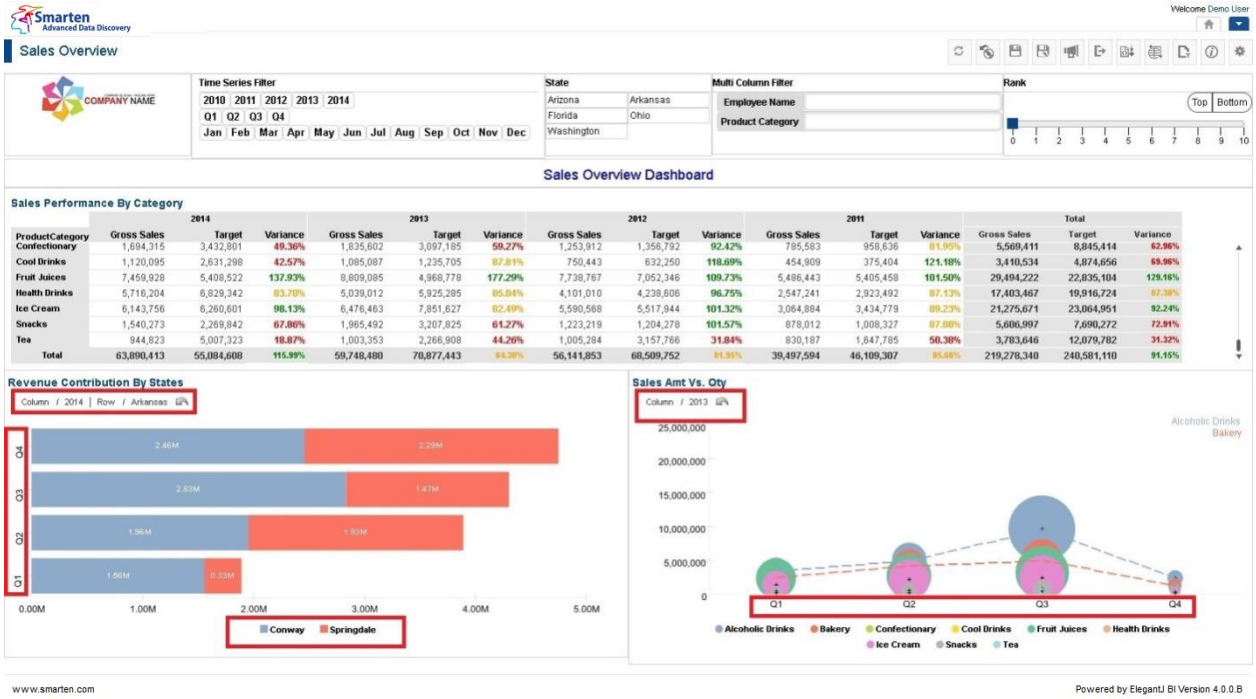
You can use the drill down option to navigate from less-detailed aggregated information to view more granular data.

Procedure

1. In the **Repository**, open dashboard.
   The system displays the selected dashboard.
2. In the Graph object, click the dimension on which you want to perform the drill down operation.
   The system displays the drill down results.

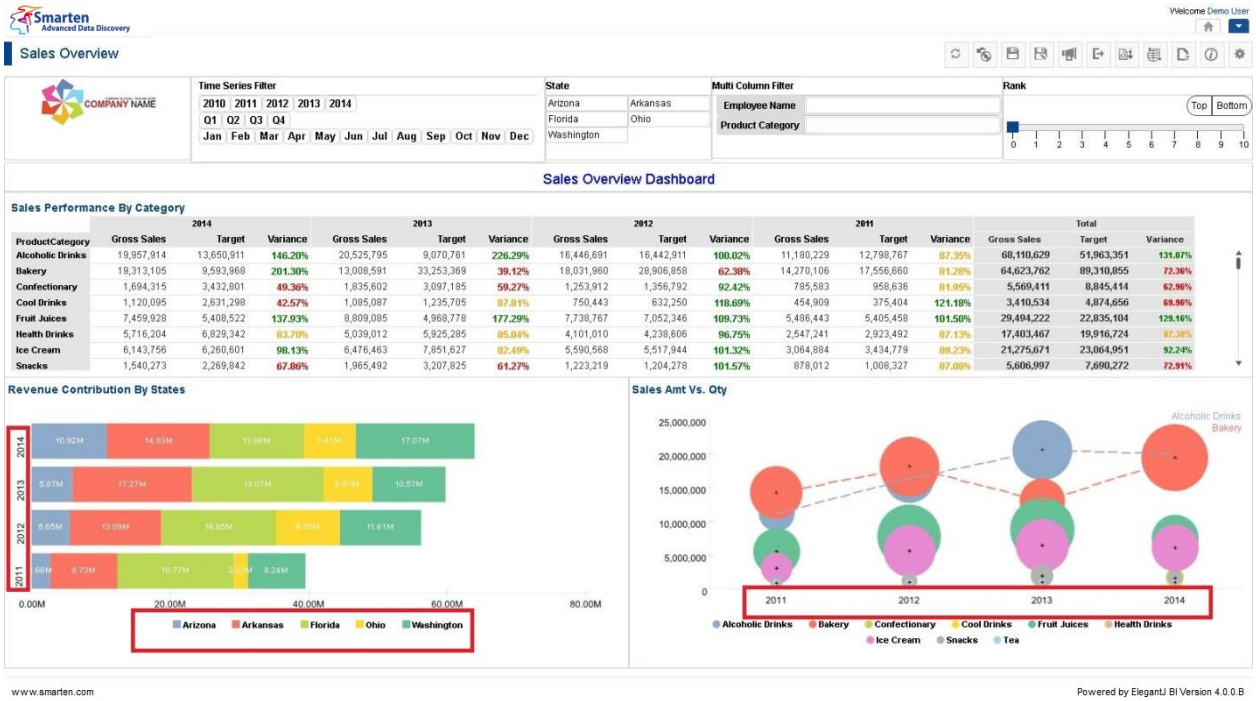


DASHBOARD: GRAPH OBJECT BEFORE DRILL DOWN



DASHBOARD: GRAPH OBJECT AFTER DRILL DOWN

Similarly, to analyse information from the most detailed (down) to the most summarised (up) level, you can choose to drill up on the graph. If you drill up, it takes you back from where you started. To drill up back to the previous level, click the Back arrow key next to the breadcrumb on top left of the graph.



DASHBOARD: GRAPH OBJECT AFTER DRILL UP

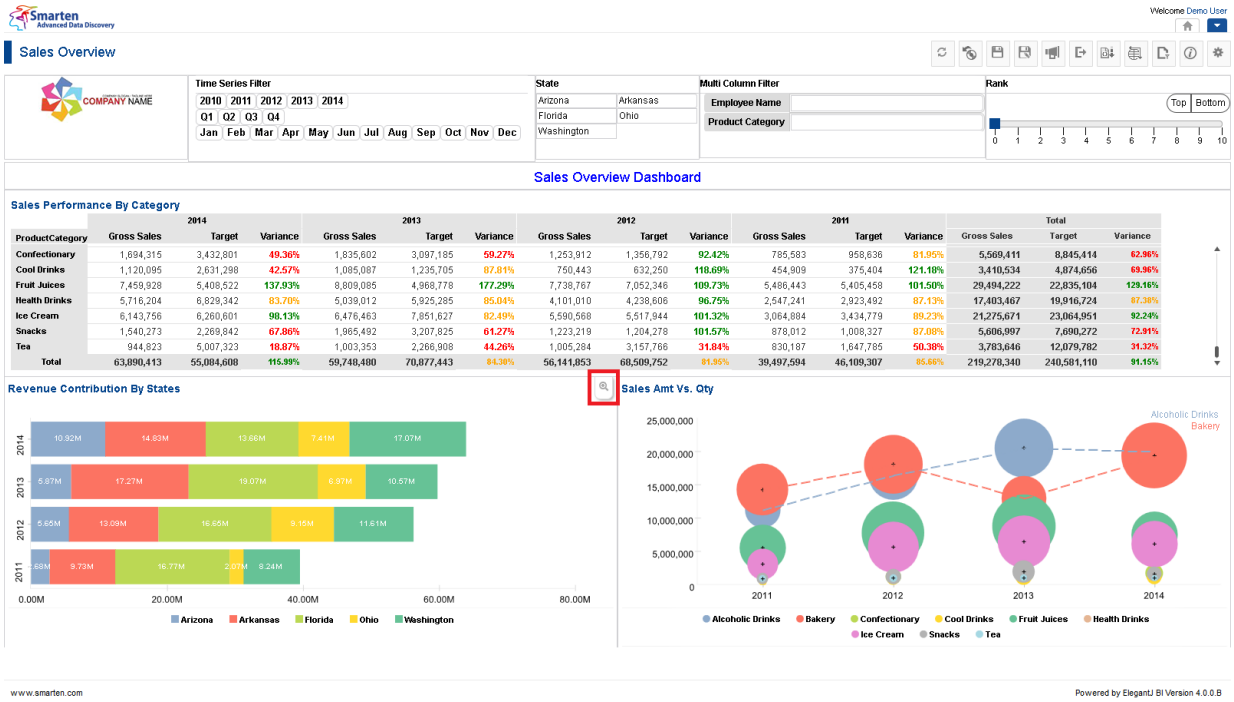
Reference: **Concept Manual > Analytic Functions > Drill Down and Drill Up**

8.3.10.2 Open Objects

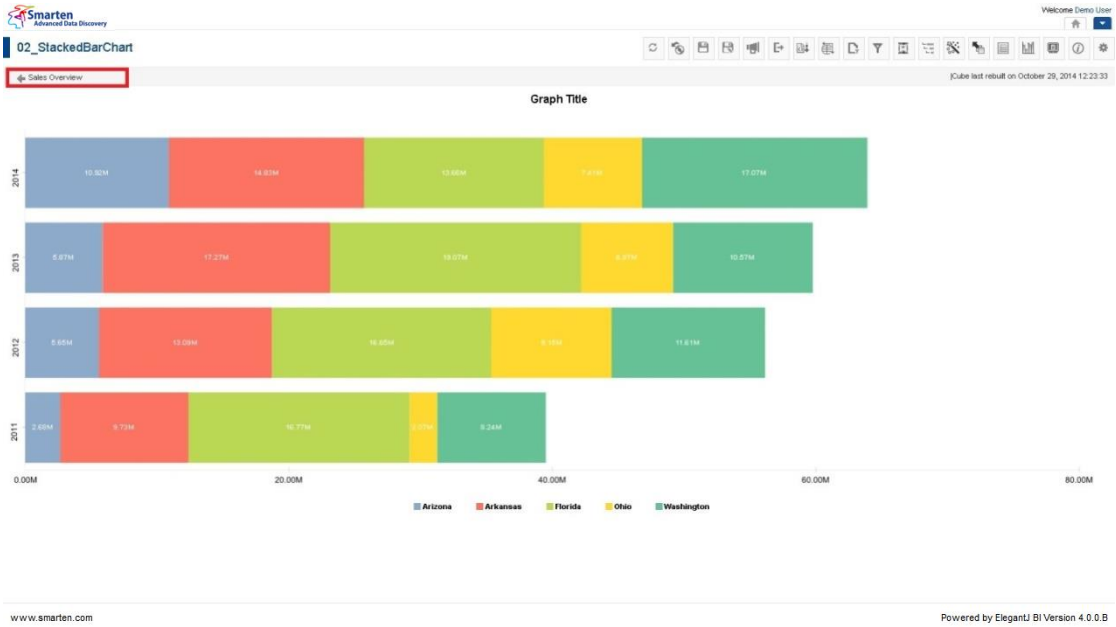
In the dashboard section, you can open an object in full view / edit mode from the dashboard preview mode for its detailed analysis and operations.

Procedure

1. In the **Repository**, open dashboard.
   The system displays the dashboard.
2. In the Dashboard object, click the **Open** icon in the upper right-hand corner of the object.
   The system opens the selected dashboard object in a new page.
   You can go back to the dashboard by clicking the back arrow link at the top left corner of the page.



DASHBOARD: OPEN OBJECT ICON



DASHBOARD: OPENED OBJECT WITH "BACK TO DASHBOARD" LINK

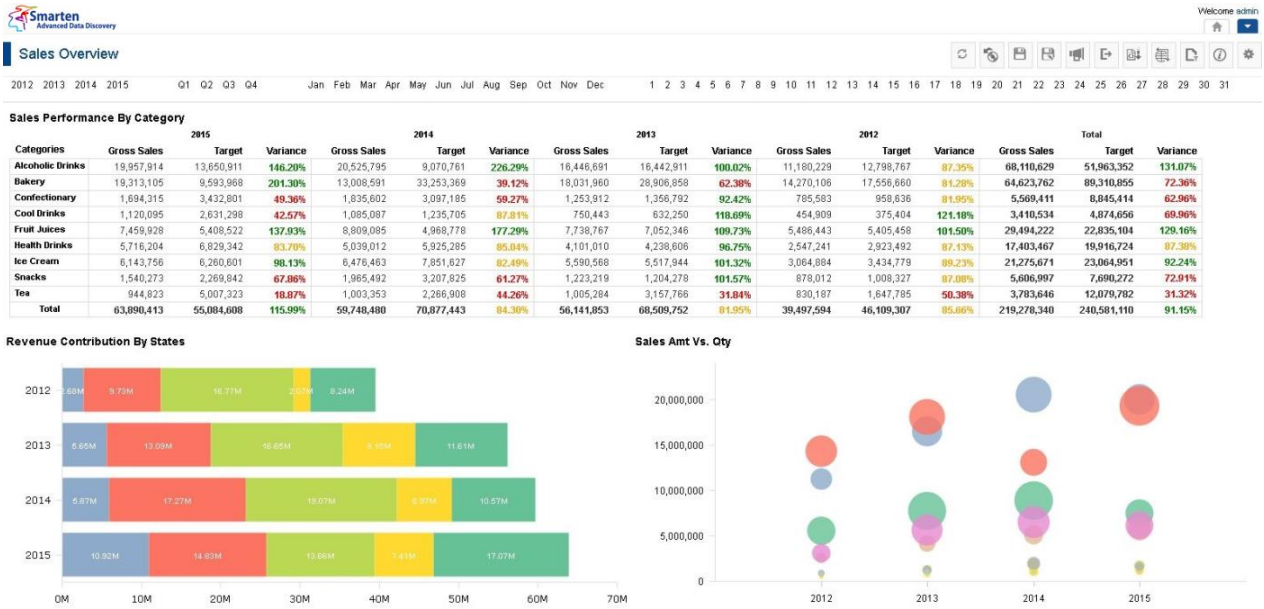
8.3.11 On Dashboard

8.3.11.1 Filters, Rank & Others

8.3.11.1.1 Context filter

You can apply context filter on associated dashboard objects. The context filter is associated with object columns.

Performing the context filter operation from crosstab



	2015			2014			2013			2012			Total		
Categories	Gross Sales	Target	Variance	Gross Sales	Target	Variance	Gross Sales	Target	Variance	Gross Sales	Target	Variance	Gross Sales	Target	Variance
Alcoholic Drinks	19,957,914	13,650,911	146.20%	20,525,795	9,070,761	226.29%	16,446,691	16,442,911	100.02%	11,180,229	12,798,767	87.35%	68,110,629	51,963,352	131.07%
Bakery	19,313,105	9,593,968	201.30%	13,008,591	33,253,369	39.12%	18,031,960	28,906,858	62.38%	14,270,106	17,556,660	81.28%	64,623,762	89,310,855	72.36%
Confectionary	1,694,315	3,432,801	49.36%	1,835,602	3,097,185	59.27%	1,253,912	1,356,792	92.42%	785,583	958,636	81.95%	5,569,411	8,845,414	62.96%
Cool Drinks	1,120,095	2,631,298	42.57%	1,085,087	1,235,705	87.81%	750,443	632,250	118.69%	454,909	375,404	121.18%	3,410,534	4,874,656	69.96%
Fruit Juices	7,459,928	5,408,522	137.93%	8,809,085	4,968,778	177.29%	7,738,767	7,052,346	109.73%	5,486,443	5,405,458	101.50%	29,494,222	22,835,104	129.16%
Health Drinks	5,716,204	6,829,342	83.70%	5,039,012	5,925,285	85.04%	4,101,010	4,238,606	96.75%	2,547,241	2,923,492	87.13%	17,403,467	19,916,724	87.38%
Ice Cream	6,143,756	6,260,601	98.13%	6,476,463	7,851,627	82.49%	5,590,568	5,517,944	101.32%	3,064,884	3,434,779	89.23%	21,275,671	23,064,951	92.24%
Snacks	1,540,273	2,269,842	67.86%	1,965,492	3,207,825	61.27%	1,223,219	1,204,278	101.57%	878,012	1,008,327	87.08%	5,606,997	7,690,272	72.91%
Tea	944,823	5,007,323	18.87%	1,003,353	2,266,908	44.26%	1,005,284	3,157,766	31.84%	830,187	1,647,785	50.38%	3,783,646	12,079,782	31.32%
Total	63,890,413	55,084,608	115.99%	59,748,480	70,877,443	84.30%	56,141,853	68,509,752	81.95%	39,497,594	46,109,307	85.66%	219,278,340	240,581,110	91.15%

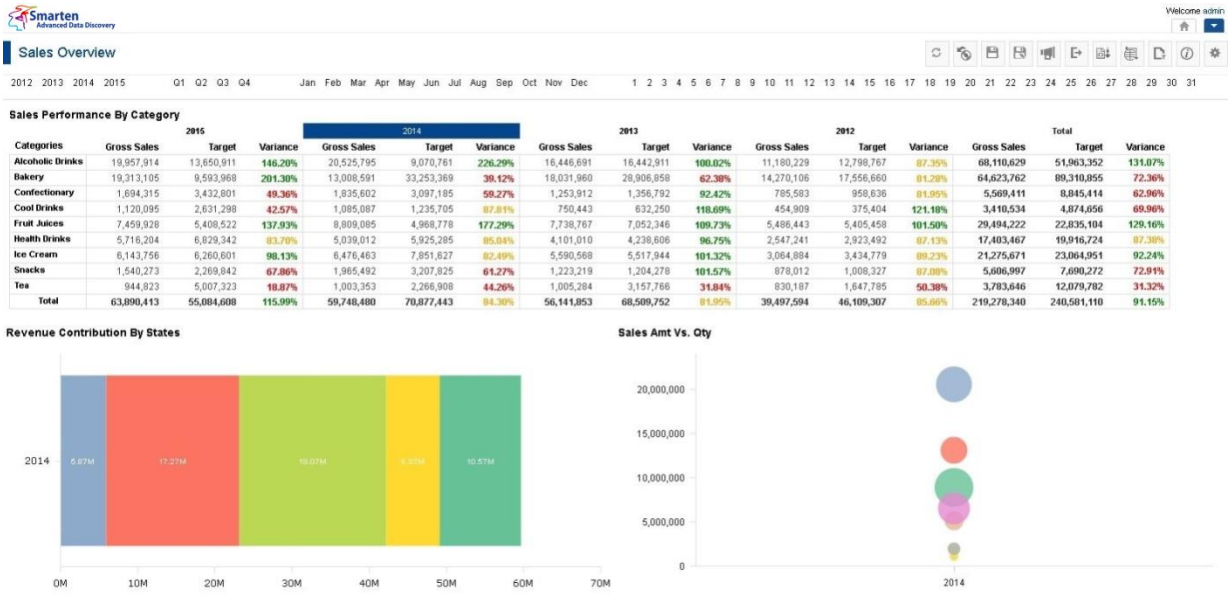
BEFORE APPLYING CONTEXT FILTER

Procedure

1. In the **Repository**, open dashboard.
   The system displays the selected dashboard.
2. In a crosstab object (e.g., **Sales Performance By Category**), click value from the row or column dimension (e.g., **2014**).
   The system will filter all the associated objects with the selected filter— **2014.**

	Q1			Q2			Q3			Q4			Total		
Categories	Gross Sales	Target	Variance	Gross Sales	Target	Variance	Gross Sales	Target	Variance	Gross Sales	Target	Variance	Gross Sales	Target	Variance
Alcoholic Drinks	3,503,333	2,555,562	137.09%	5,077,683	2,377,853	213.54%	9,608,786	3,440,221	279.31%	2,335,992	697,125	335.09%	20,525,795	9,070,761	226.29%
Bakery	2,513,582	2,128,654	118.08%	4,257,251	14,682,989	28.99%	5,039,199	15,295,090	32.95%	1,198,559	1,146,636	104.53%	13,008,591	33,253,369	39.12%
Confectionary	327,004	352,568	92.75%	566,496	570,409	99.31%	556,729	967,858	57.52%	385,372	1,206,350	31.95%	1,835,602	3,097,185	59.27%
Cool Drinks	182,215	200,016	91.10%	376,772	408,995	92.12%	371,976	366,109	101.60%	154,124	260,585	59.15%	1,085,087	1,235,705	87.81%
Fruit Juices	2,209,943	1,259,242	175.50%	2,629,998	1,368,744	192.15%	3,193,746	1,971,799	161.97%	775,397	368,993	210.14%	8,809,085	4,968,778	177.29%
Health Drinks	843,034	1,087,191	77.54%	1,690,856	2,195,320	77.02%	1,881,389	2,348,302	80.12%	623,733	294,472	211.81%	5,039,012	5,925,285	85.04%
Ice Cream	1,375,860	1,575,837	87.31%	2,118,188	2,639,663	80.24%	2,402,529	3,136,417	76.60%	579,886	499,710	116.04%	6,476,463	7,851,627	82.49%
Snacks	370,464	395,720	93.62%	555,946	663,616	83.78%	734,488	1,237,473	59.35%	304,594	911,016	33.43%	1,965,492	3,207,825	61.27%
Tea	191,651	368,864	51.96%	228,949	587,505	38.97%	364,752	733,117	49.75%	218,001	577,422	37.75%	1,003,353	2,266,908	44.26%
Total	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

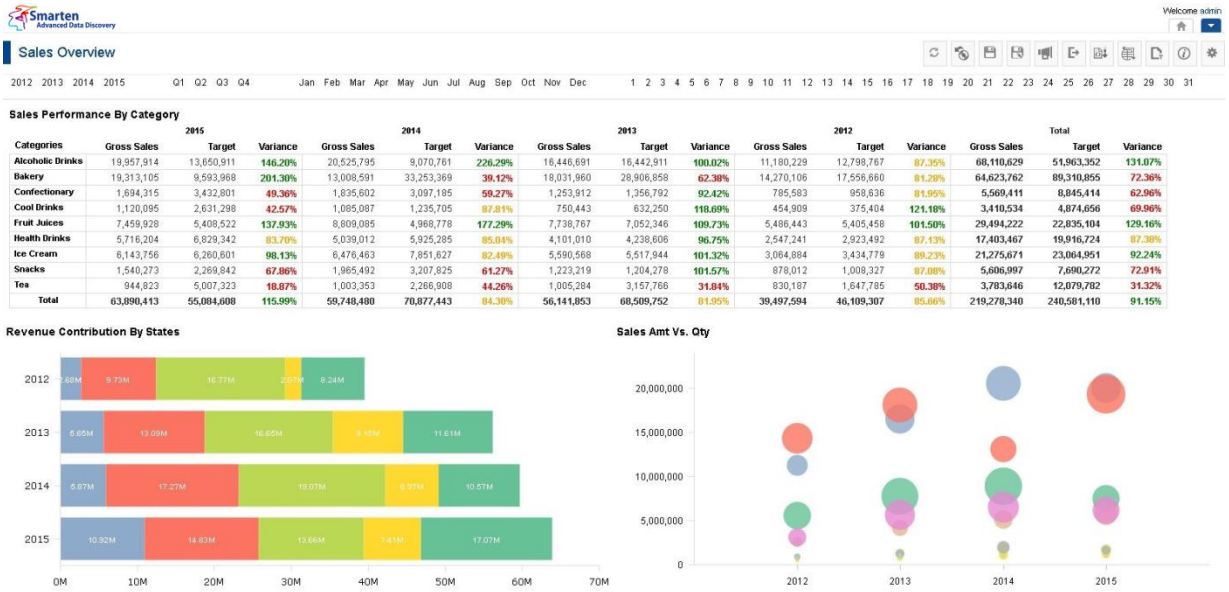
AFTER APPLYING CONTEXT FILTER (2014) WITH DRILL DOWN



Categories	2015 Gross Sales	2015 Target	2015 Variance	2014 Gross Sales	2014 Target	2014 Variance	2013 Gross Sales	2013 Target	2013 Variance	2012 Gross Sales	2012 Target	2012 Variance	Total Gross Sales	Total Target	Total Variance
Alcoholic Drinks	19,957,914	13,650,911	146.20%	20,525,795	9,070,761	226.29%	16,446,691	16,442,911	100.02%	11,180,229	12,798,767	87.35%	68,110,629	51,963,352	131.07%
Bakery	19,313,105	9,593,968	201.30%	13,008,591	33,253,369	39.12%	18,031,960	28,906,858	62.38%	14,270,106	17,556,660	81.28%	64,623,762	89,310,855	72.36%
Confectionary	1,694,315	3,432,801	49.36%	1,835,602	3,097,185	59.27%	1,253,912	1,356,792	92.42%	785,583	958,636	81.95%	5,569,411	8,845,414	62.96%
Cool Drinks	1,120,095	2,631,298	42.57%	1,085,087	1,235,705	87.81%	750,443	632,250	118.69%	454,909	375,404	121.18%	3,410,534	4,874,656	69.96%
Fruit Juices	7,459,928	5,408,522	137.93%	8,809,085	4,968,778	177.29%	7,738,767	7,052,346	109.73%	5,486,443	5,405,458	101.50%	29,494,222	22,835,104	129.16%
Health Drinks	5,716,204	6,829,342	83.70%	5,039,012	5,925,285	85.04%	4,101,010	4,238,606	96.75%	2,547,241	2,923,492	87.13%	17,403,467	19,916,724	87.38%
Ice Cream	6,143,756	6,260,601	98.13%	6,476,463	7,851,627	82.49%	5,590,568	5,517,944	101.32%	3,064,884	3,434,779	89.23%	21,275,671	23,064,951	92.24%
Snacks	1,540,273	2,269,842	67.86%	1,965,492	3,207,825	61.27%	1,223,219	1,204,278	101.57%	878,012	1,008,327	87.08%	5,606,997	7,690,272	72.91%
Tea	944,823	5,007,323	18.87%	1,003,353	2,266,908	44.26%	1,005,284	3,157,766	31.84%	830,187	1,647,785	50.38%	3,783,646	12,079,782	31.32%
Total	63,890,413	55,084,608	115.99%	59,748,480	70,877,443	84.30%	56,141,853	68,509,752	81.95%	39,497,594	46,109,307	85.66%	219,278,340	240,581,110	91.15%

AFTER APPLYING CONTEXT FILTER (2014) WITHOUT DRILL DOWN

Performing the context filter operation from graph



Categories	2015 Gross Sales	2015 Target	2015 Variance	2014 Gross Sales	2014 Target	2014 Variance	2013 Gross Sales	2013 Target	2013 Variance	2012 Gross Sales	2012 Target	2012 Variance	Total Gross Sales	Total Target	Total Variance
Alcoholic Drinks	19,957,914	13,650,911	146.20%	20,525,795	9,070,761	226.29%	16,446,691	16,442,911	100.02%	11,180,229	12,798,767	87.35%	68,110,629	51,963,352	131.07%
Bakery	19,313,105	9,593,968	201.30%	13,008,591	33,253,369	39.12%	18,031,960	28,906,858	62.38%	14,270,106	17,556,660	81.28%	64,623,762	89,310,855	72.36%
Confectionary	1,694,315	3,432,801	49.36%	1,835,602	3,097,185	59.27%	1,253,912	1,356,792	92.42%	785,583	958,636	81.95%	5,569,411	8,845,414	62.96%
Cool Drinks	1,120,095	2,631,298	42.57%	1,085,087	1,235,705	87.81%	750,443	632,250	118.69%	454,909	375,404	121.18%	3,410,534	4,874,656	69.96%
Fruit Juices	7,459,928	5,408,522	137.93%	8,809,085	4,968,778	177.29%	7,738,767	7,052,346	109.73%	5,486,443	5,405,458	101.50%	29,494,222	22,835,104	129.16%
Health Drinks	5,716,204	6,829,342	83.70%	5,039,012	5,925,285	85.04%	4,101,010	4,238,606	96.75%	2,547,241	2,923,492	87.13%	17,403,467	19,916,724	87.38%
Ice Cream	6,143,756	6,260,601	98.13%	6,476,463	7,851,627	82.49%	5,590,568	5,517,944	101.32%	3,064,884	3,434,779	89.23%	21,275,671	23,064,951	92.24%
Snacks	1,540,273	2,269,842	67.86%	1,965,492	3,207,825	61.27%	1,223,219	1,204,278	101.57%	878,012	1,008,327	87.08%	5,606,997	7,690,272	72.91%
Tea	944,823	5,007,323	18.87%	1,003,353	2,266,908	44.26%	1,005,284	3,157,766	31.84%	830,187	1,647,785	50.38%	3,783,646	12,079,782	31.32%
Total	63,890,413	55,084,608	115.99%	59,748,480	70,877,443	84.30%	56,141,853	68,509,752	81.95%	39,497,594	46,109,307	85.66%	219,278,340	240,581,110	91.15%

BEFORE APPLYING CONTEXT FILTER

Procedure

1. In the **Repository**, open dashboard.
   The system displays the selected dashboard.
2. In a graph object (e.g., **Revenue Contribution By States**), click value from the row or column dimension (e.g., **2014**).
   The system will filter all the associated objects with the selected filter— **2014.**

Categories	2014 Gross Sales	2014 Target	2014 Variance	Total Gross Sales	Total Target	Total Variance
Alcoholic Drinks	20,525,795	9,070,761	226.29%	20,525,795	9,070,761	226.29%
Bakery	13,008,591	33,253,369	39.12%	13,008,591	33,253,369	39.12%
Confectionary	1,835,602	3,097,185	59.27%	1,835,602	3,097,185	59.27%
Cool Drinks	1,085,087	1,235,705	87.81%	1,085,087	1,235,705	87.81%
Fruit Juices	8,809,085	4,968,778	177.29%	8,809,085	4,968,778	177.29%
Health Drinks	5,039,012	5,925,285	85.04%	5,039,012	5,925,285	85.04%
Ice Cream	6,476,463	7,851,627	82.49%	6,476,463	7,851,627	82.49%
Snacks	1,965,492	3,207,825	61.27%	1,965,492	3,207,825	61.27%
Tea	1,003,353	2,266,908	44.26%	1,003,353	2,266,908	44.26%
Total	59,748,480	70,877,443	84.30%	59,748,480	70,877,443	84.30%

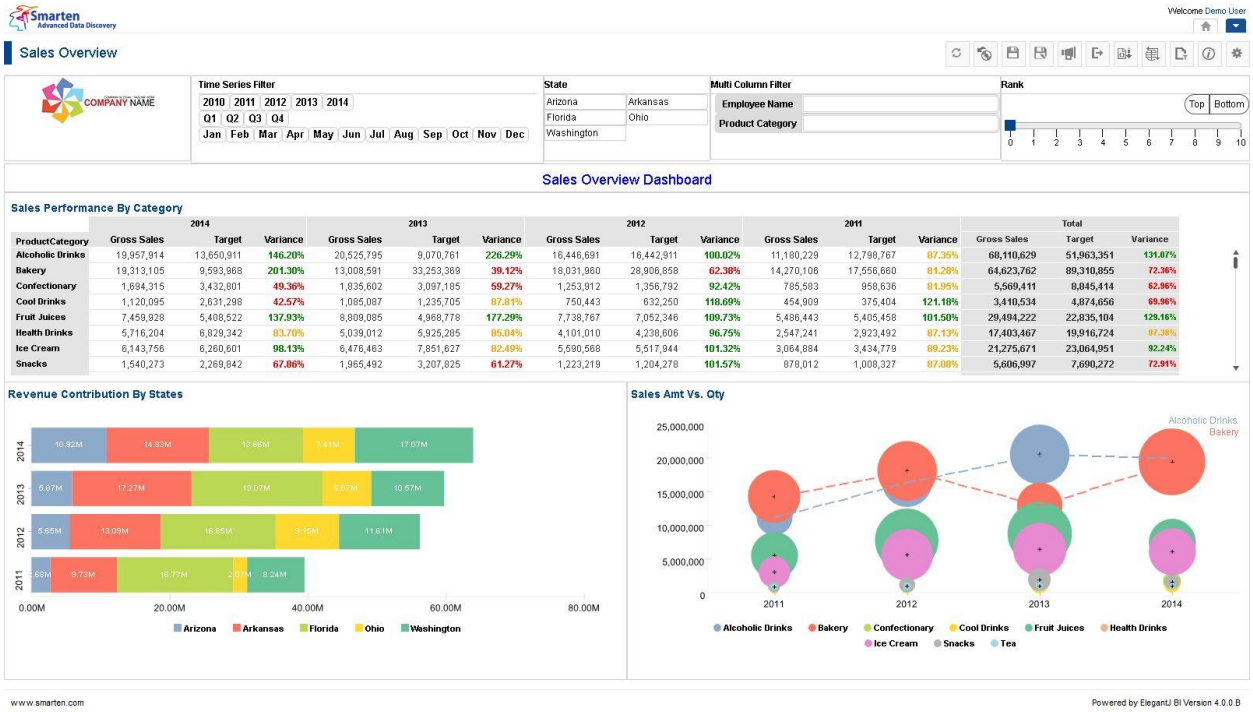
AFTER APPLYING CONTEXT FILTER (2014) WITH DRILL DOWN

Categories	2014 Gross Sales	2014 Target	2014 Variance	Total Gross Sales	Total Target	Total Variance
Alcoholic Drinks	20,525,795	9,070,761	226.29%	20,525,795	9,070,761	226.29%
Bakery	13,008,591	33,253,369	39.12%	13,008,591	33,253,369	39.12%
Confectionary	1,835,602	3,097,185	59.27%	1,835,602	3,097,185	59.27%
Cool Drinks	1,085,087	1,235,705	87.81%	1,085,087	1,235,705	87.81%
Fruit Juices	8,809,085	4,968,778	177.29%	8,809,085	4,968,778	177.29%
Health Drinks	5,039,012	5,925,285	85.04%	5,039,012	5,925,285	85.04%
Ice Cream	6,476,463	7,851,627	82.49%	6,476,463	7,851,627	82.49%
Snacks	1,965,492	3,207,825	61.27%	1,965,492	3,207,825	61.27%
Tea	1,003,353	2,266,908	44.26%	1,003,353	2,266,908	44.26%
Total	59,748,480	70,877,443	84.30%	59,748,480	70,877,443	84.30%

AFTER APPLYING CONTEXT FILTER (2014) WITHOUT DRILL DOWN

8.3.11.1.2 Single column

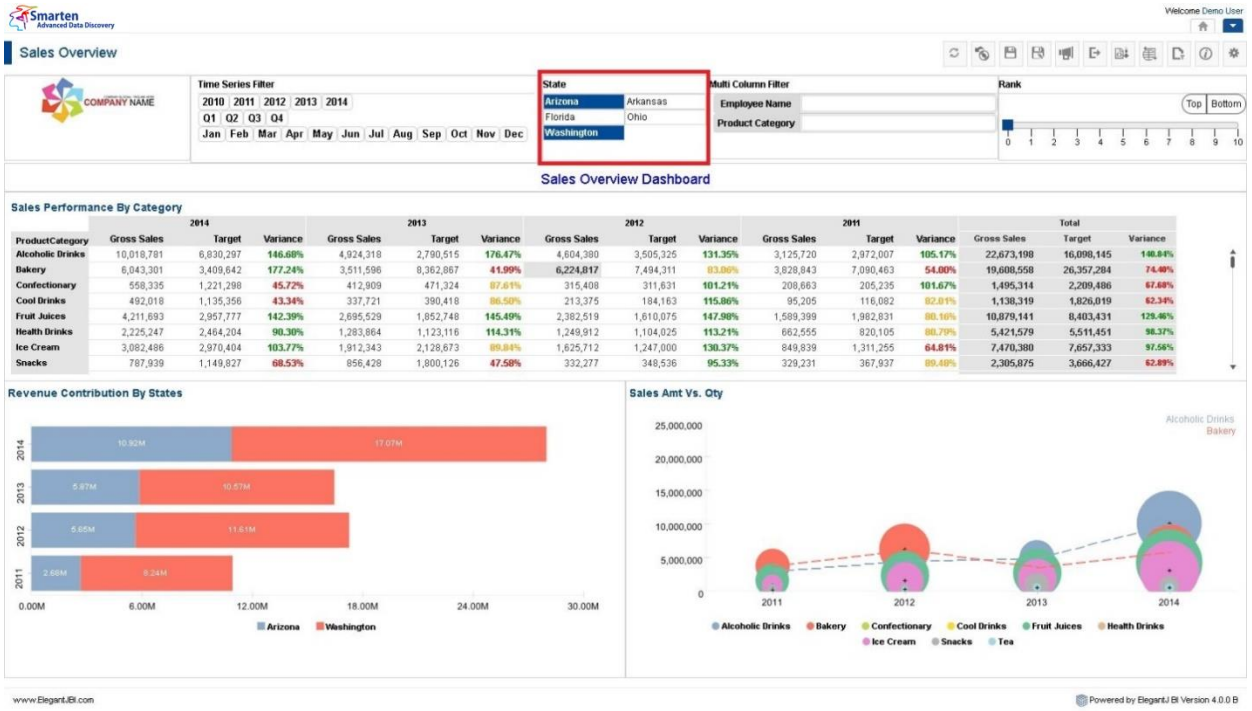
You can apply Single Column filter on associated dashboard objects. The single column filter is associated with one cube column.



BEFORE APPLYING SINGLE COLUMN FILTER

Procedure

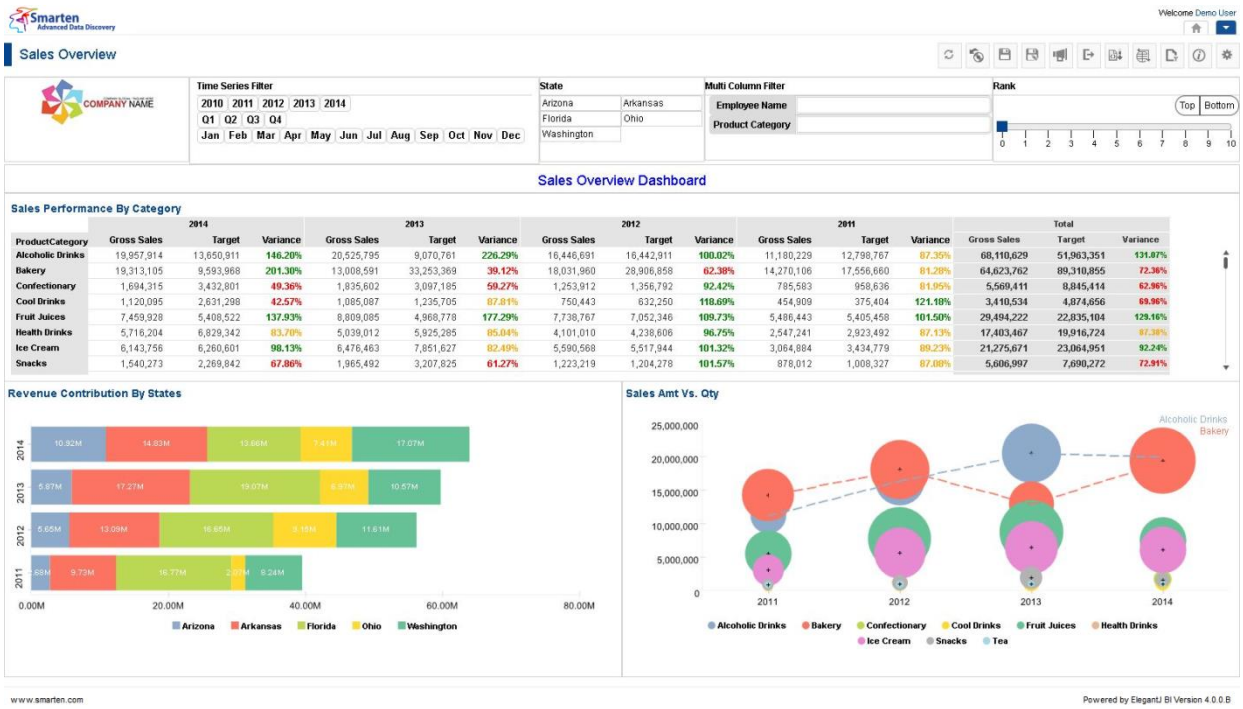
1. In the **Repository**, open dashboard.
   The system displays the selected dashboard.
2. In a column (e.g., **State**), select a value from the drop-down list (e.g., **Arizona**).
   The system will filter all the associated objects with the selected filter—**State, Arizona.**



AFTER APPLYING SINGLE COLUMN FILTER FOR STATE (ARIZONA, WASHINGTON)

8.3.11.1.3 Multicolumn

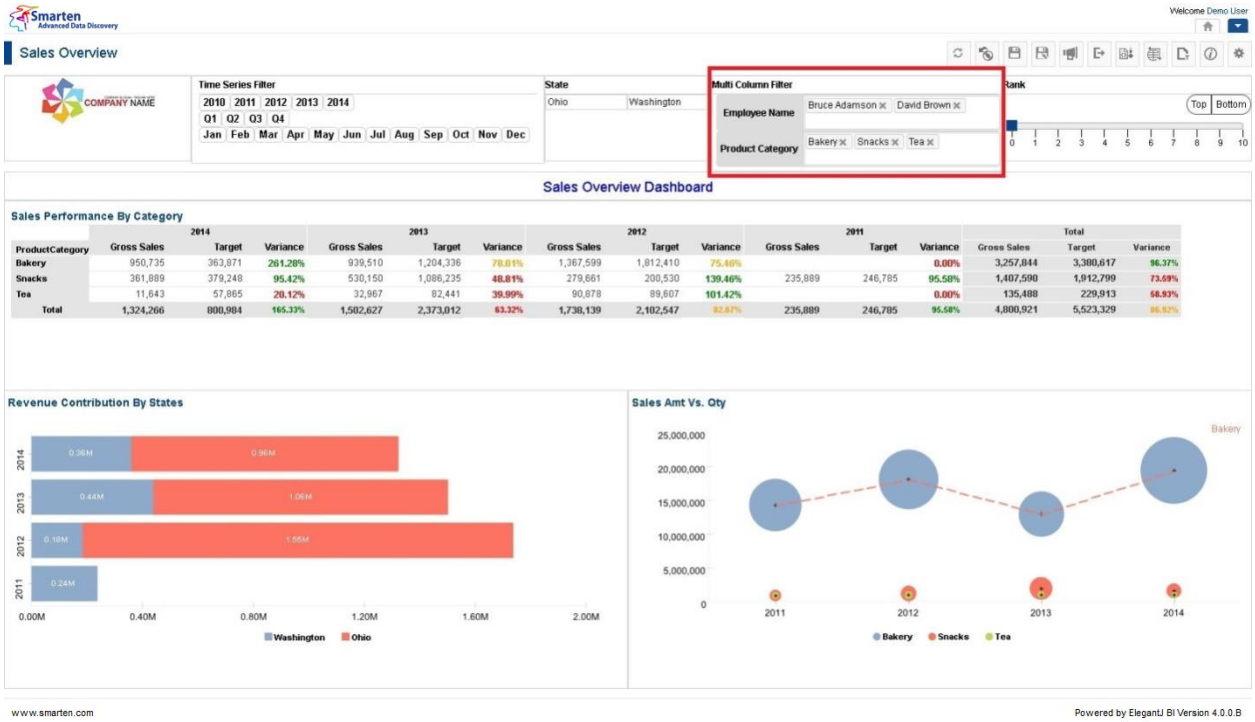
You can apply Multicolumn filter on associated dashboard objects. The multicolumn filter is associated with multiple cube columns.



BEFORE APPLYING MULTICOLUMN FILTER

Procedure

1. In the **Repository**, open dashboard.
   The system displays the selected dashboard.
2. In multiple columns (e.g., **ProductCategory** and **EmployeeName,**) select values from the drop-down lists.
   The system will filter all the associated objects according to selected column values, i.e., **ProductCategory** and **EmployeeName.**



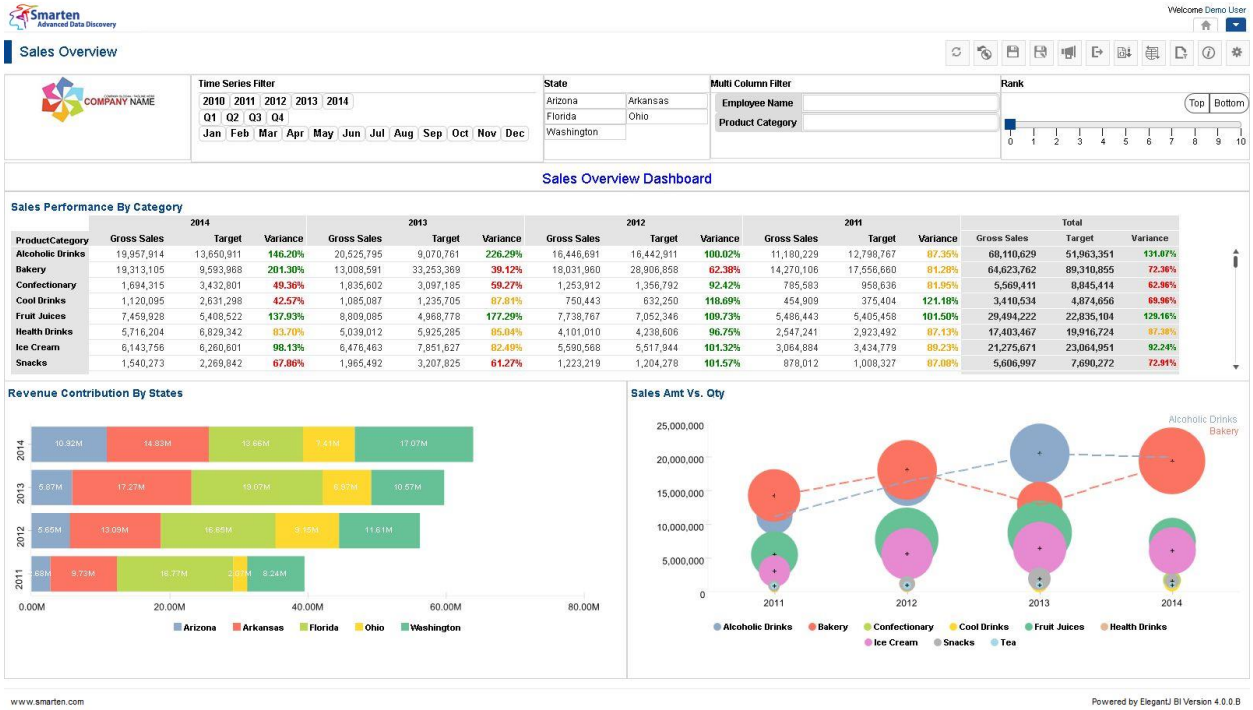
AFTER APPLYING MULTICOLUMN FILTER FOR (PRODUCT CATEGORY AND EMPLOYEE NAME)

8.3.11.1.4 Time series

You can apply Time series filter on associated dashboard objects. The time series filter is associated with one date-type column of the cube.

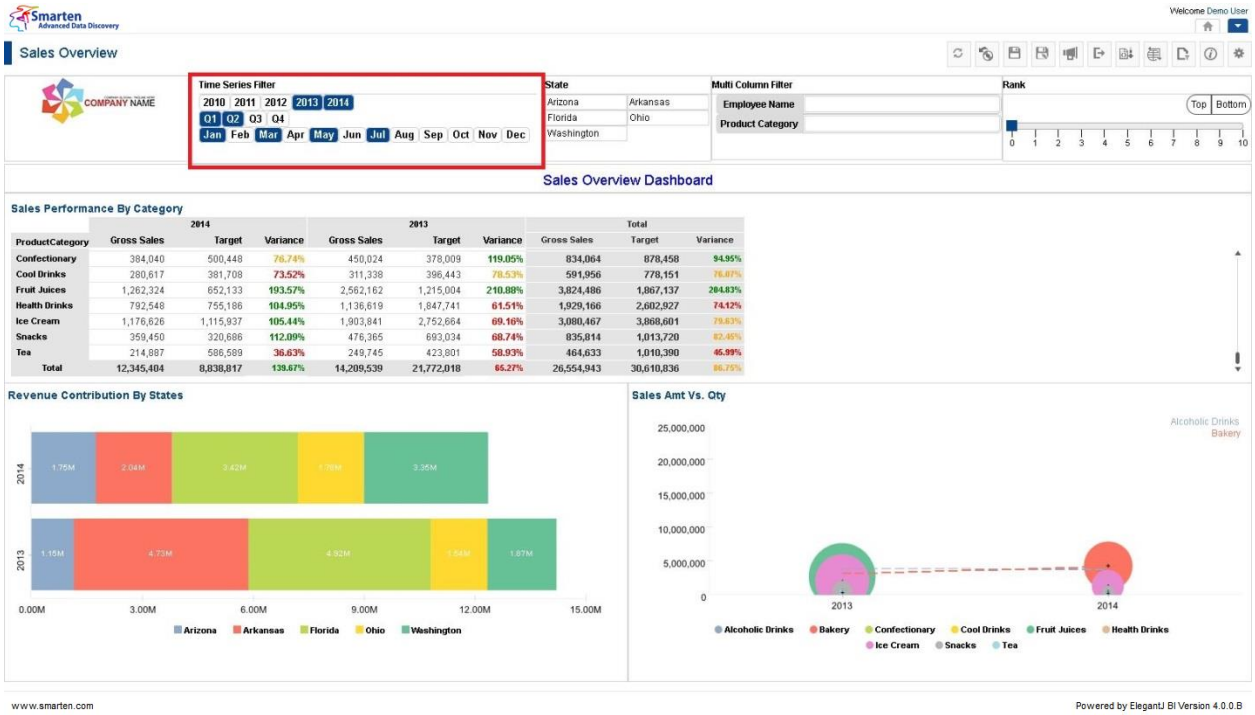
Procedure

1. In the **Repository**, open dashboard.
   The system displays the selected dashboard.
2. In the **Time series filter** section, select **Year, Quarter, Month, Number of Weeks, Weekdays,** and **Date.**
   The system filters all the associated objects according to the selected Time series component.



ProductCategory	2014 Gross Sales	2014 Target	2014 Variance	2013 Gross Sales	2013 Target	2013 Variance	2012 Gross Sales	2012 Target	2012 Variance	2011 Gross Sales	2011 Target	2011 Variance	Total Gross Sales	Total Target	Total Variance
Alcoholic Drinks	19,957,914	13,650,911	146.20%	20,525,795	9,070,761	226.29%	16,446,691	16,442,911	100.02%	11,180,229	12,798,767	87.35%	68,110,629	51,963,351	131.07%
Bakery	19,313,105	9,593,968	201.30%	13,008,591	33,253,369	39.12%	18,031,960	28,906,858	62.38%	14,270,106	17,556,660	81.28%	64,623,762	89,310,855	72.36%
Confectionary	1,694,315	3,432,801	49.36%	1,835,602	3,097,185	59.27%	1,253,912	1,356,792	92.42%	785,583	958,636	81.95%	5,569,411	8,845,414	62.96%
Cool Drinks	1,120,095	2,631,298	42.57%	1,085,087	1,235,705	87.81%	750,443	632,250	118.69%	454,909	375,404	121.18%	3,410,534	4,874,656	69.96%
Fruit Juices	7,459,928	5,408,522	137.93%	8,809,085	4,968,778	177.29%	7,738,767	7,052,346	109.73%	5,486,443	5,405,458	101.50%	29,494,222	22,835,104	129.16%
Health Drinks	5,716,204	6,829,342	83.70%	5,039,012	5,925,285	85.04%	4,101,010	4,238,606	96.75%	2,547,241	2,923,492	87.13%	17,403,467	19,916,724	87.38%
Ice Cream	6,143,756	6,260,601	98.13%	6,476,463	7,851,627	82.49%	5,590,568	5,517,944	101.32%	3,064,884	3,434,779	89.23%	21,275,671	23,064,951	92.24%
Snacks	1,540,273	2,269,842	67.86%	1,965,492	3,207,825	61.27%	1,223,219	1,204,278	101.57%	878,012	1,008,327	87.08%	5,606,997	7,690,272	72.91%

BEFORE APPLYING TIME SERIES FILTER



AFTER APPLYING TIME SERIES FILTER

Reference: **Concept Manual > Filters and Expressions > Time Series**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

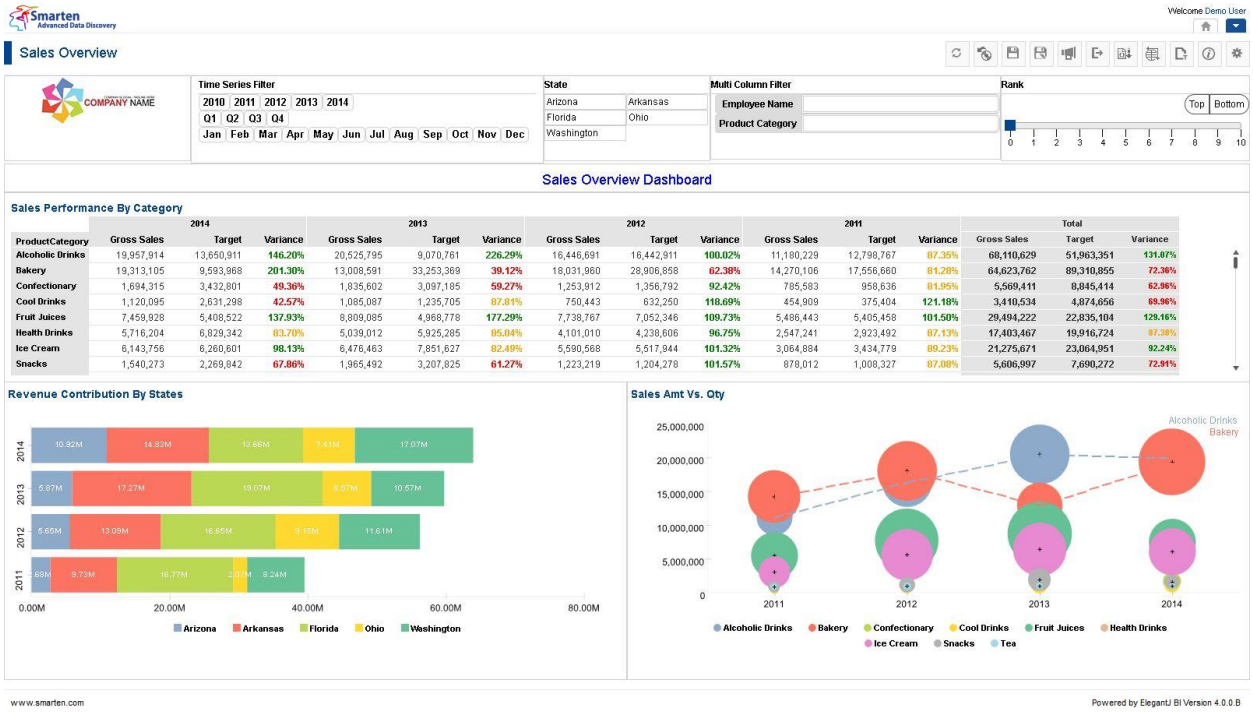
8.3.11.1.5 Rank

You can apply Rank filter on associated dashboard objects. The rank filter is applied on a dimension and a measure of associated objects in a dashboard.

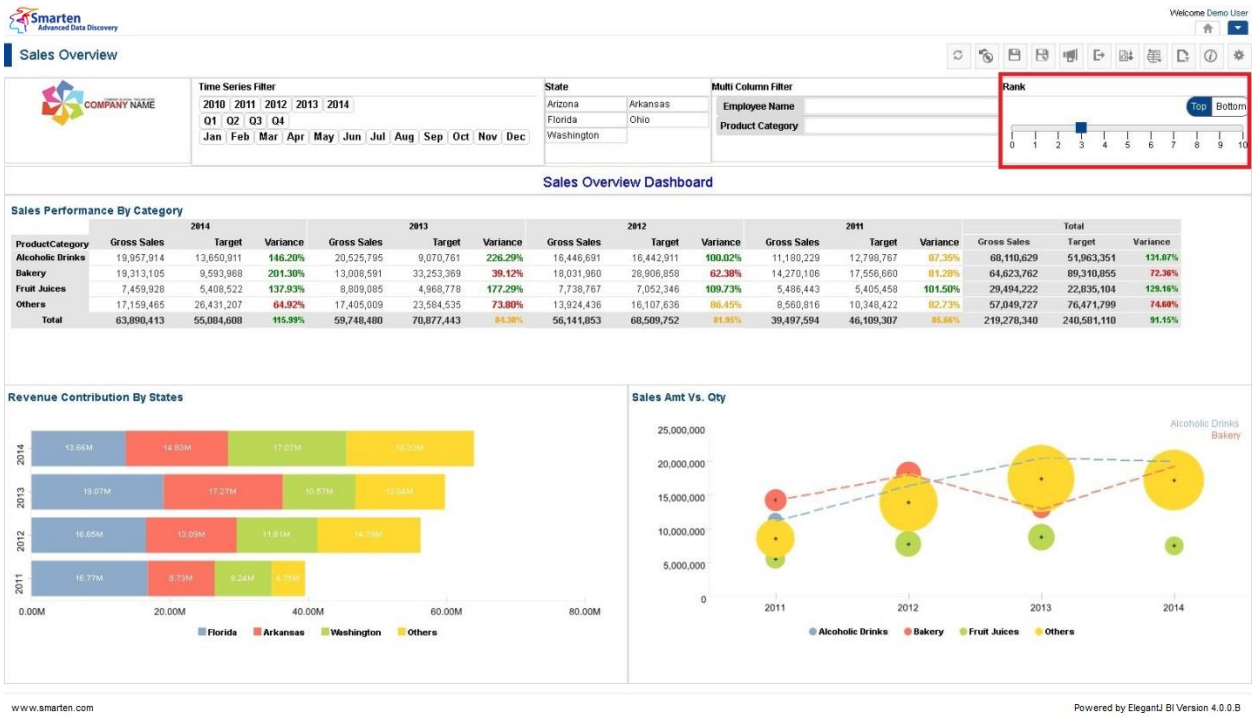
Procedure

1. In the **Repository**, open dashboard.
   The system displays the selected dashboard.
2. In the **Rank** section, select rank value.

   The system filters all the objects according to the applied rank component. For example, if Rank value is 3, the top 3 records would be displayed in all associated dashboard objects. Rank would be associated with a particular dimension and measure.



BEFORE APPLYING RANK



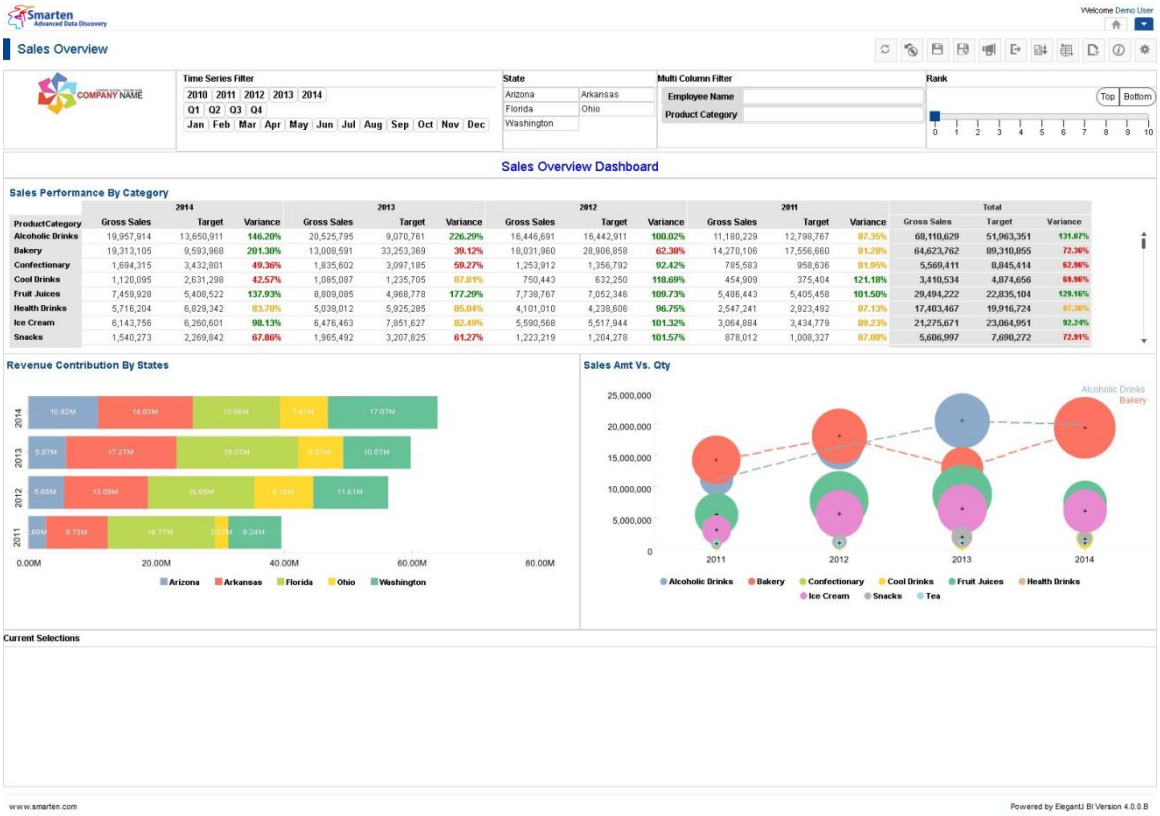
AFTER APPLYING RANK

Reference: **Concept Manual > Filters and Expressions > Rank**

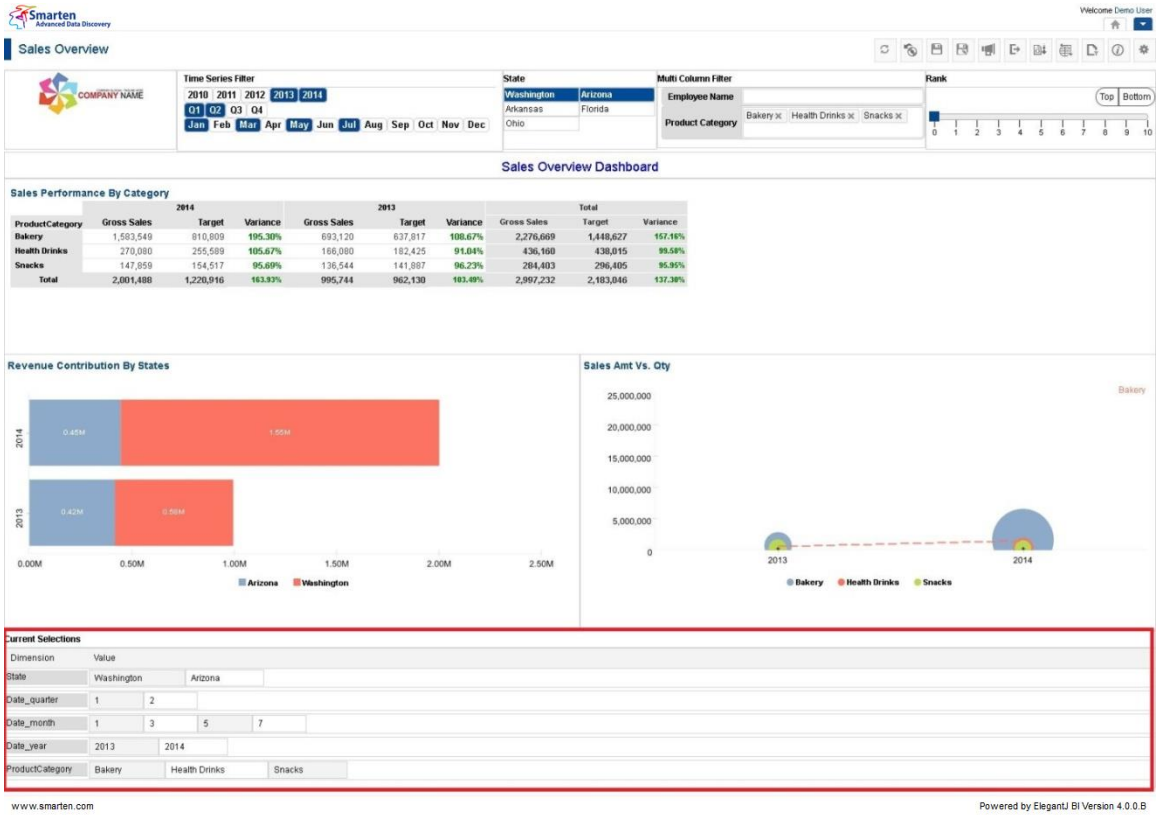
8.3.11.1.6 Current selections

Procedure

1. In the **Repository**, open dashboard.
   The system displays the selected dashboard.
   Current selections section will display all the filters applied in the dashboard through various filter components with **Field name** and **Values**.



CURRENT SELECTIONS: BEFORE APPLYING ANY FILTER



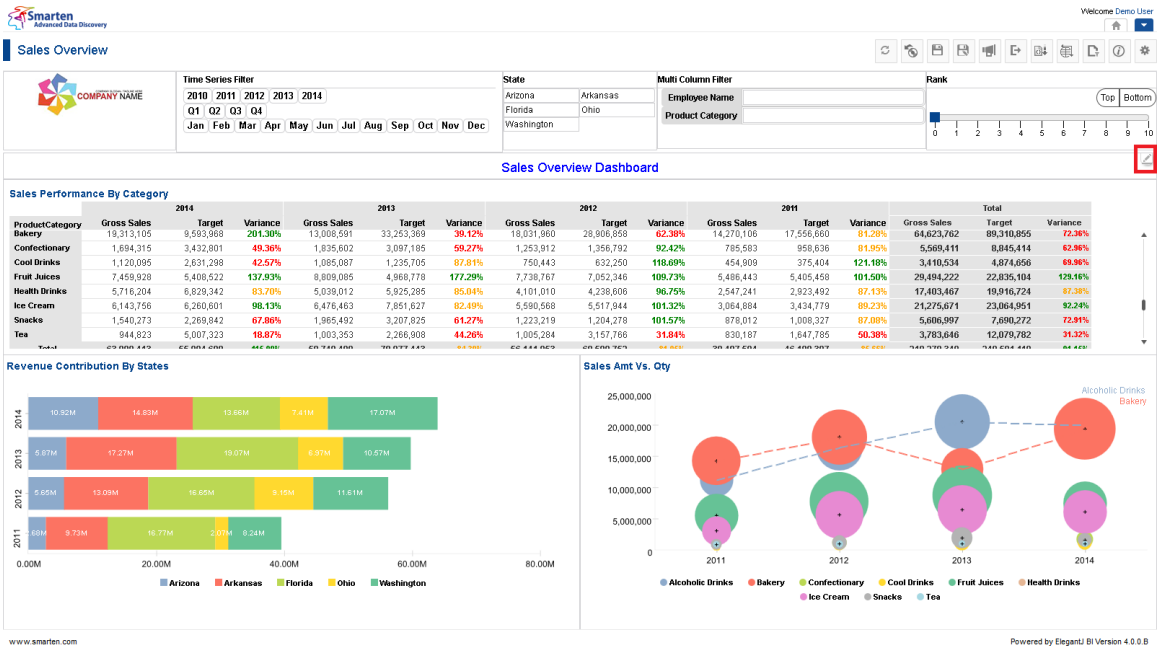
CURRENT SELECTIONS: AFTER APPLYING FILTERS

8.3.11.1.7 Edit Text

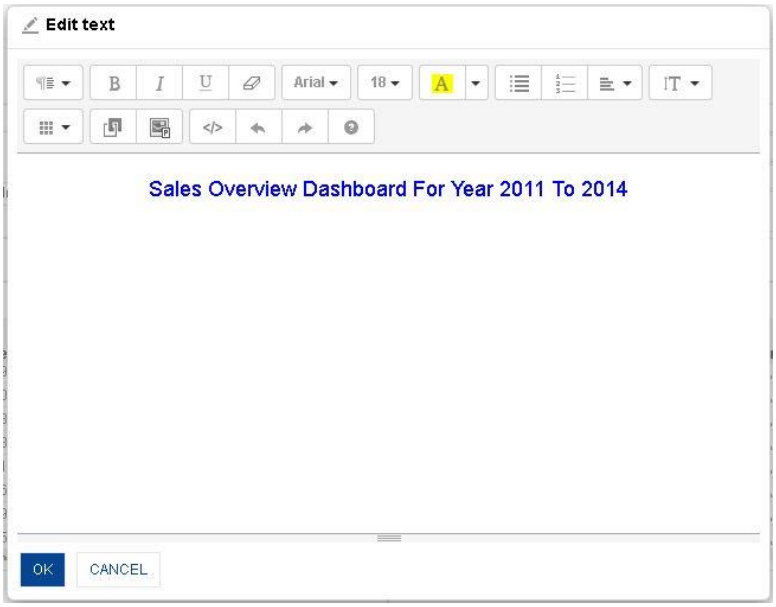
Procedure

1. In the **Repository**, open dashboard.
   The system displays the selected dashboard.
2. Click the **Edit Text** icon.
   The system displays the **Edit text** dialog box.

3. In the **Edit text** dialog box, edit the text using the various toolbar options.
4. Click **OK.**

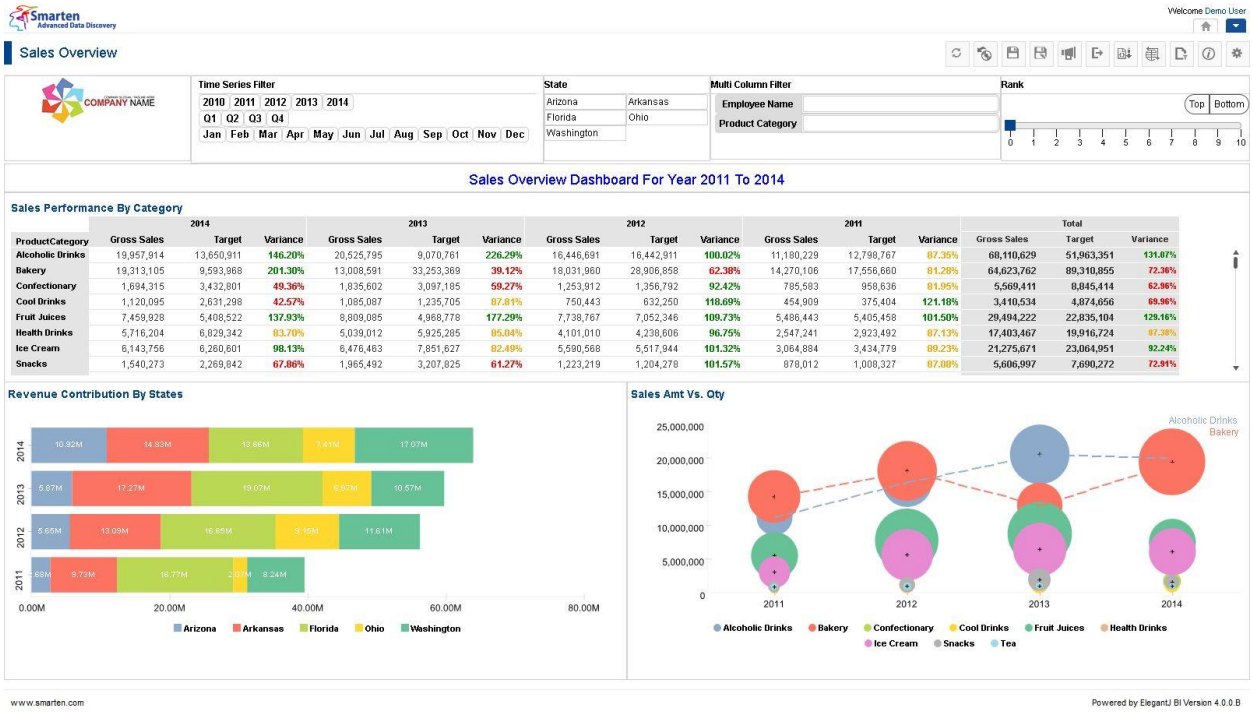


EDIT TEXT ICON



DASHBOARD: EDIT TEXT

DASHBOARD: EDIT TEXT DIALOG TOOLBAR



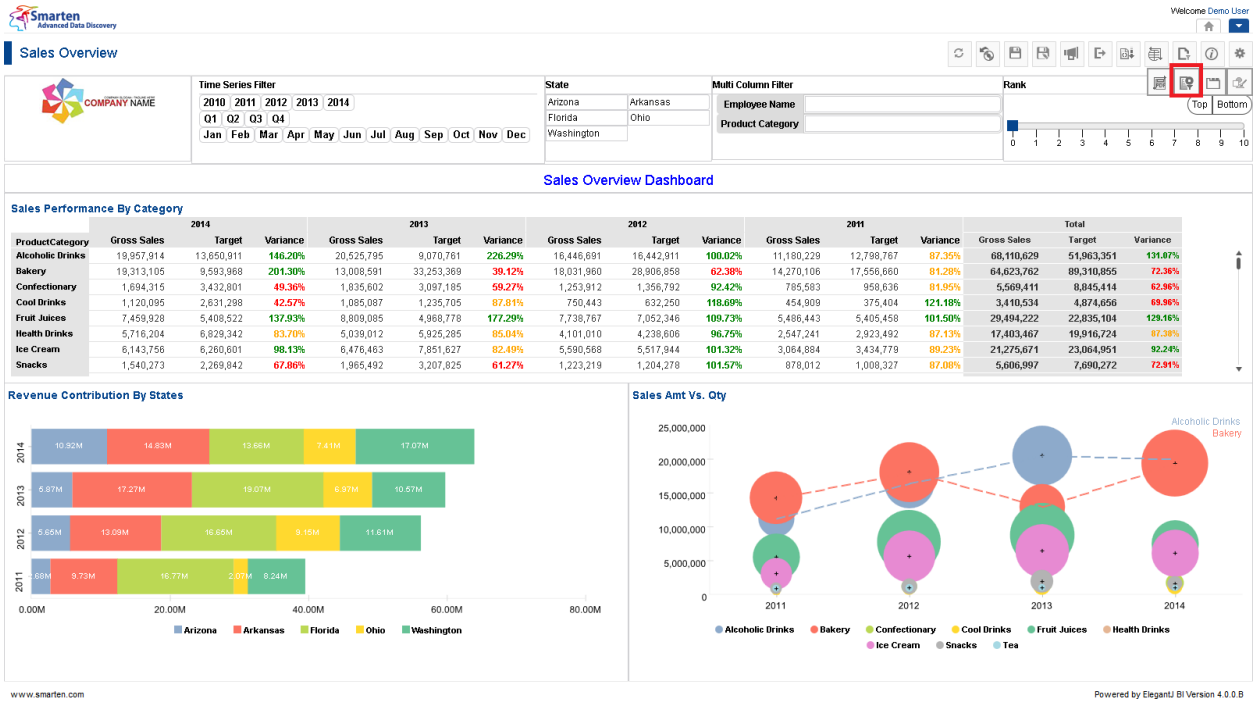
ProductCategory	2014 Gross Sales	2014 Target	2014 Variance	2013 Gross Sales	2013 Target	2013 Variance	2012 Gross Sales	2012 Target	2012 Variance	2011 Gross Sales	2011 Target	2011 Variance	Total Gross Sales	Total Target	Total Variance
Alcoholic Drinks	19,957,914	13,650,911	146.20%	20,525,795	9,070,761	226.29%	16,446,691	16,442,911	100.02%	11,180,229	12,798,767	87.35%	68,110,629	51,963,351	131.07%
Bakery	19,313,105	9,593,988	201.30%	13,008,591	33,253,369	39.12%	18,031,960	28,906,858	62.38%	14,270,106	17,556,660	81.28%	64,623,762	89,310,855	72.36%
Confectionary	1,694,315	3,432,801	49.36%	1,835,602	3,097,185	59.27%	1,253,912	1,356,792	92.42%	785,583	958,636	81.95%	5,569,411	8,845,414	62.96%
Cool Drinks	1,120,095	2,631,298	42.57%	1,085,087	1,235,705	87.81%	750,443	632,250	118.69%	454,909	375,404	121.18%	3,410,534	4,874,656	69.96%
Fruit Juices	7,459,928	5,408,522	137.93%	8,809,085	4,968,778	177.29%	7,738,767	7,052,346	109.73%	5,486,443	5,405,458	101.50%	29,494,222	22,835,104	129.16%
Health Drinks	5,716,204	6,829,342	83.70%	5,039,012	5,925,285	85.04%	4,101,010	4,238,606	96.75%	2,547,241	2,923,492	87.13%	17,403,467	19,916,724	87.38%
Ice Cream	6,143,756	6,260,601	98.13%	6,476,463	7,851,627	82.49%	5,590,568	5,517,944	101.32%	3,064,884	3,434,779	89.23%	21,275,671	23,064,951	92.24%
Snacks	1,540,273	2,269,842	67.86%	1,965,492	3,207,825	61.27%	1,223,219	1,204,278	101.57%	878,012	1,008,327	87.08%	5,606,997	7,690,272	72.91%

DASHBOARD AFTER EDITING TEXT

8.3.11.2 Page filter

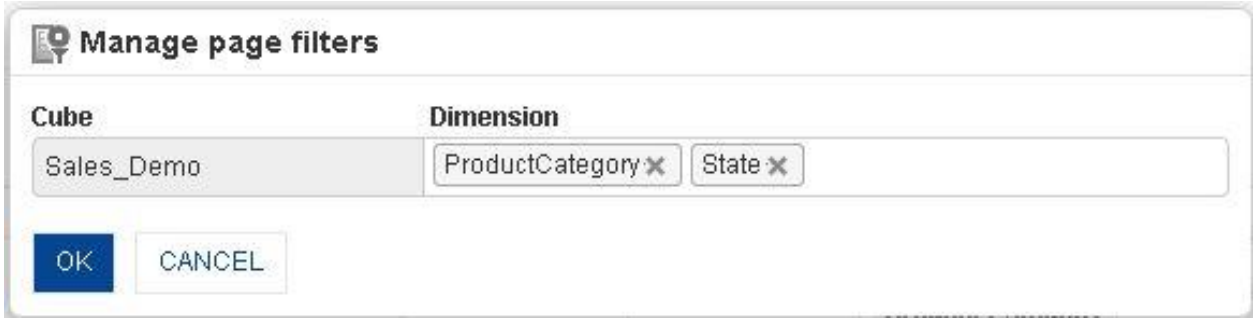
Procedure

1. In the **Repository**, open dashboard.
   The system displays the selected dashboard.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. In the Setting Toolbar, click **Manage page filters**.
   The system displays the **Manage page filters** dialog box.



ProductCategory	2014 Gross Sales	2014 Target	2014 Variance	2013 Gross Sales	2013 Target	2013 Variance	2012 Gross Sales	2012 Target	2012 Variance	2011 Gross Sales	2011 Target	2011 Variance	Total Gross Sales	Total Target	Total Variance
Alcoholic Drinks	19,957,914	13,650,911	146.20%	20,525,795	9,070,761	226.29%	16,446,691	16,442,911	100.02%	11,180,229	12,798,767	87.35%	68,110,629	51,963,351	131.07%
Bakery	19,313,105	9,593,968	201.30%	13,008,591	33,253,369	39.12%	18,031,960	28,906,858	62.38%	14,270,106	17,556,660	81.28%	64,623,762	89,310,855	72.36%
Confectionary	1,694,315	3,432,801	49.36%	1,835,602	3,097,185	59.27%	1,253,912	1,356,792	92.42%	785,583	958,636	81.95%	5,569,411	8,845,414	62.96%
Cool Drinks	1,120,095	2,631,298	42.57%	1,085,087	1,235,705	87.81%	750,443	632,250	118.69%	454,909	375,404	121.18%	3,410,534	4,874,656	69.96%
Fruit Juices	7,459,928	5,408,522	137.93%	8,809,085	4,968,778	177.29%	7,738,767	7,052,346	109.73%	5,486,443	5,405,458	101.50%	29,494,222	22,835,104	129.16%
Health Drinks	5,716,204	6,829,342	83.70%	5,039,012	5,925,285	85.04%	4,101,010	4,238,606	96.75%	2,547,241	2,923,492	87.13%	17,403,467	19,916,724	87.38%
Ice Cream	6,143,756	6,260,601	98.13%	6,476,463	7,851,627	82.49%	5,590,568	5,517,944	101.32%	3,064,884	3,434,779	89.23%	21,275,671	23,064,951	92.24%
Snacks	1,540,273	2,269,842	67.86%	1,965,492	3,207,825	61.27%	1,223,219	1,204,278	101.57%	878,012	1,008,327	87.08%	5,606,997	7,690,272	72.91%

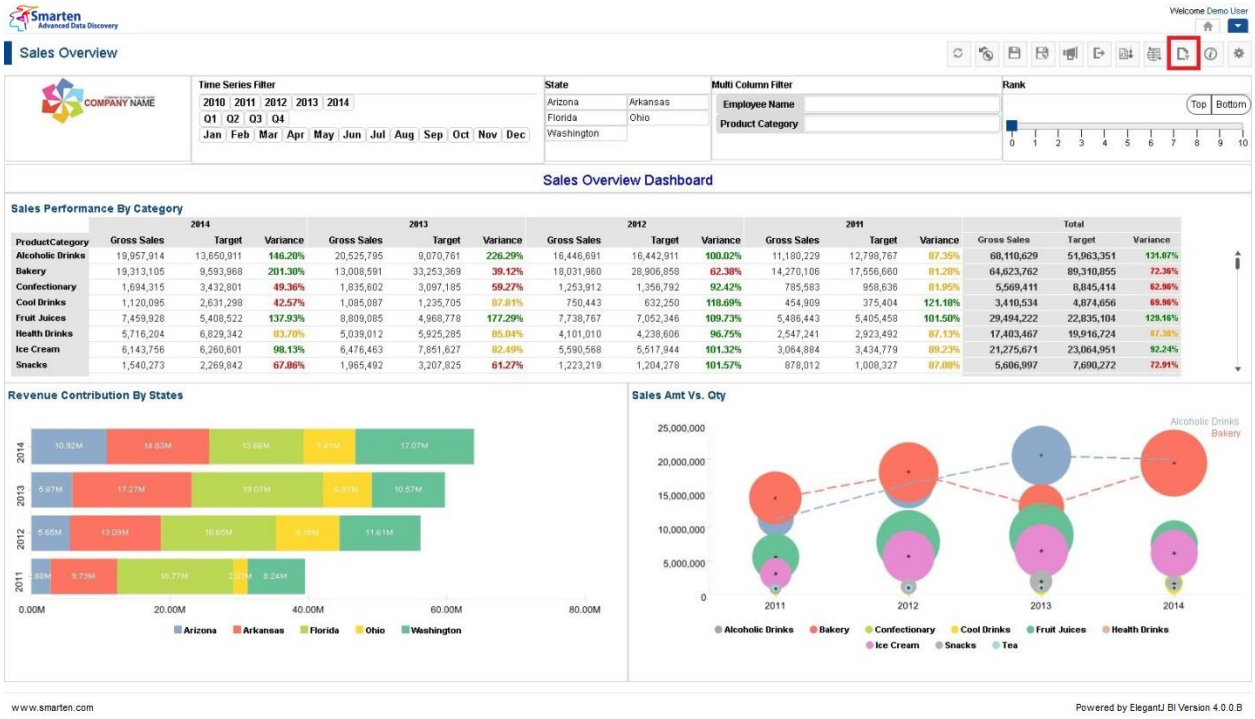
MANAGE PAGE FILTER ICON



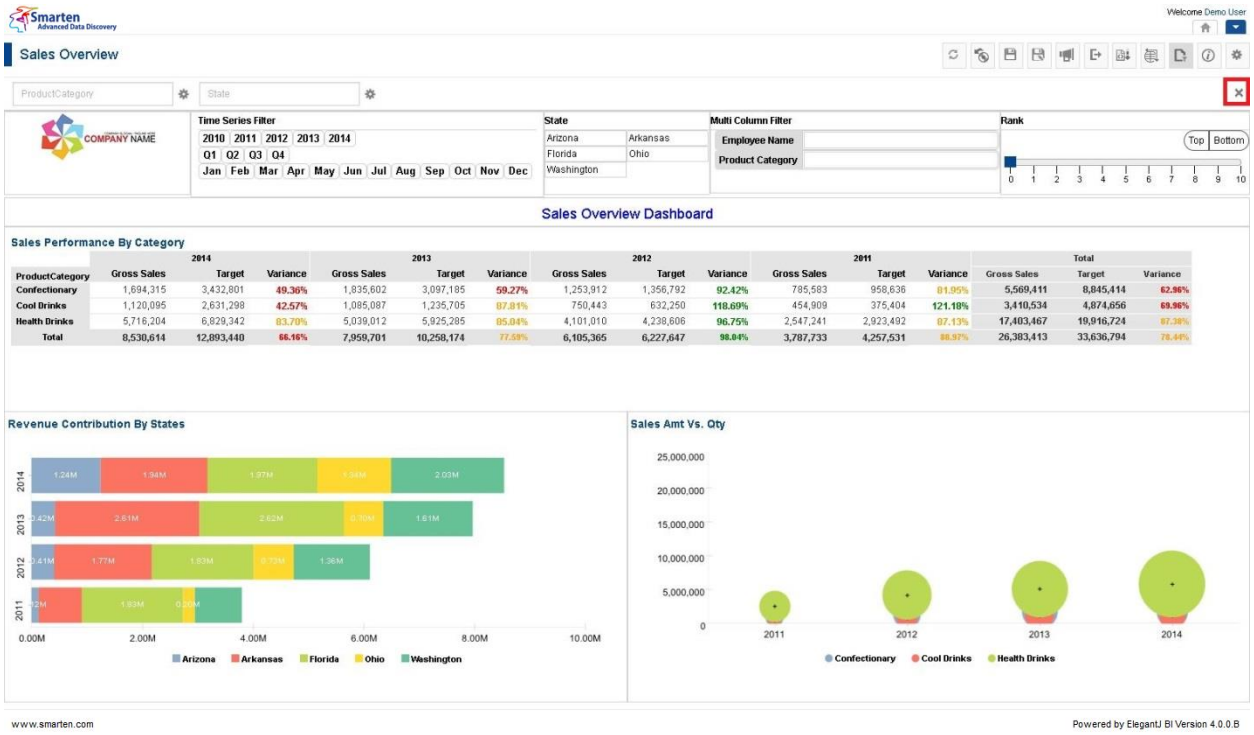
PAGE FILTER: SETTING PAGE FILTER COLUMNS

4. In the **Dimension** field, select dimension(s) from the drop-down list.
5. Click **OK.**

   The system will display page filter on the topmost part of dashboard. If the page filter panel is not visible, you can click page filter icon on the toolbar. It is a toggle icon and will show / hide page filter panel.

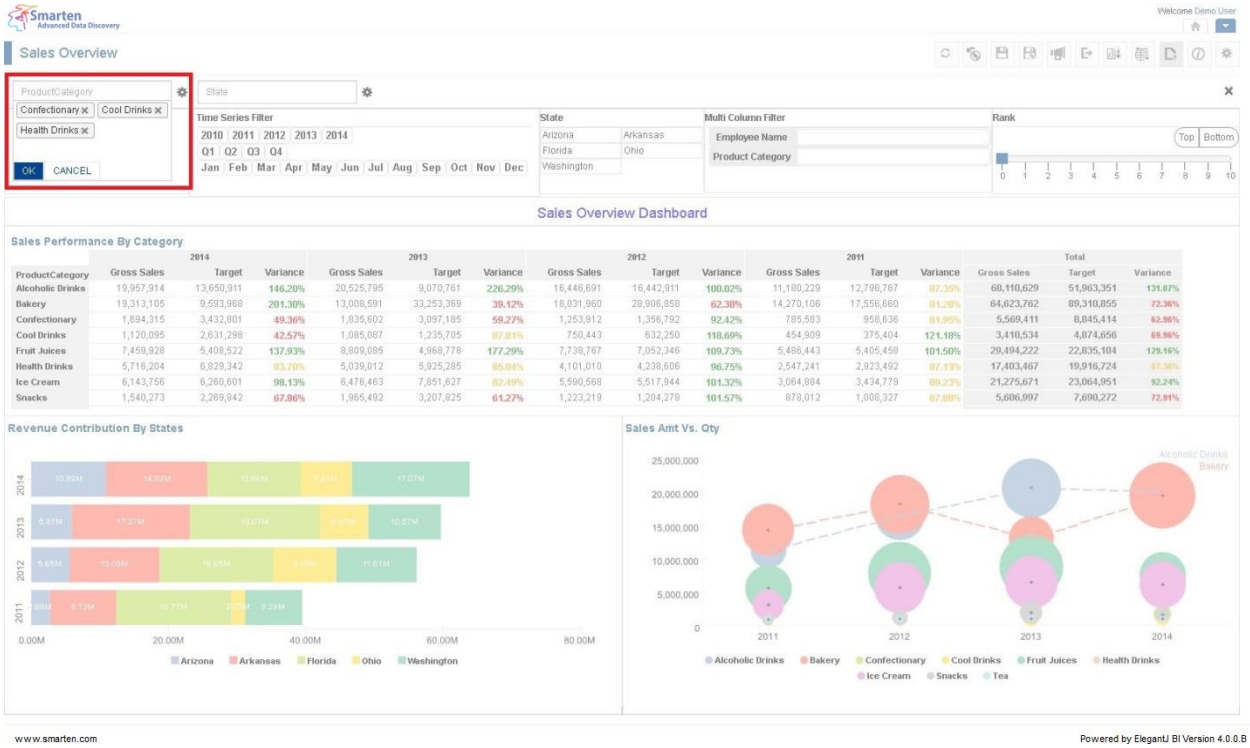


PAGE FILTER: ICON TO SHOW PAGE FILTER PANEL

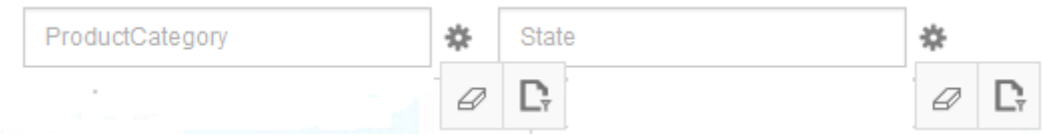


ICON TO HIDE PAGE FILTER PANEL

6. To apply page filter, you can simply enter values in the text field of page filter.



PAGE FILTER: SELECTING FILTER CRITERIA

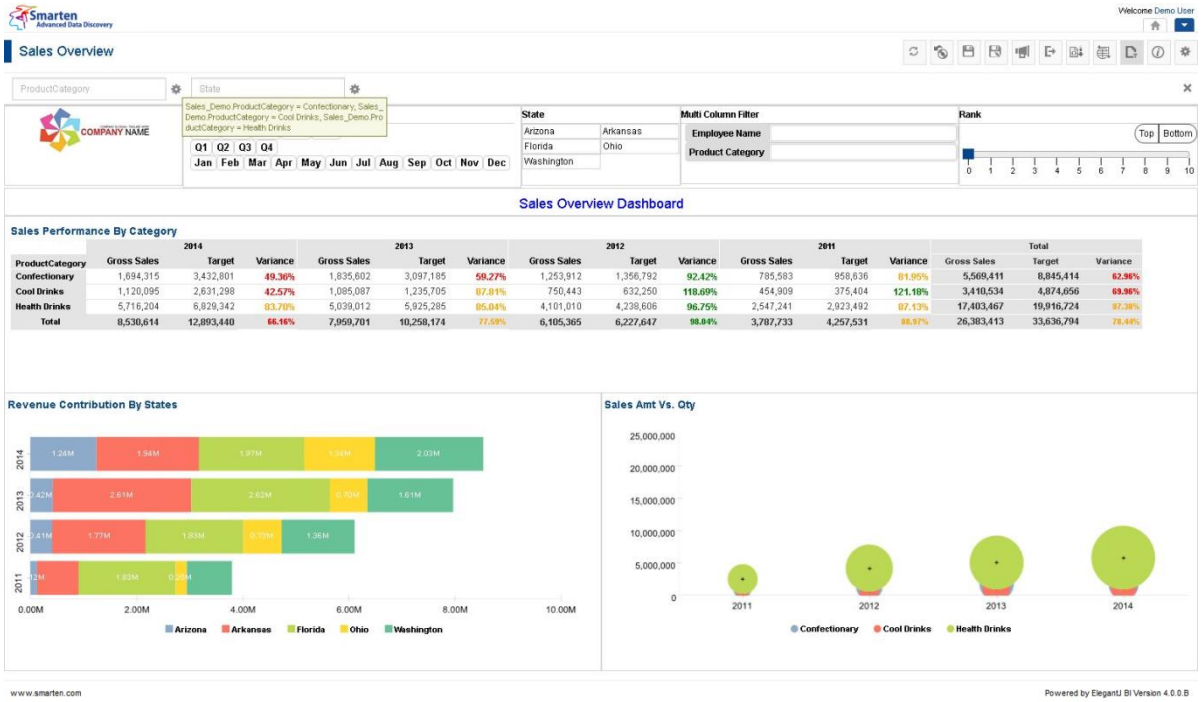


DASHBOARD: PAGE FILTER IN THE PAGE FILTER PANEL

7. Beside the page filter text box, click the **Setting** icon.
   The system displays two icons: **Delete** and **Advanced**.
8. Click **Delete** to remove the page filter values.
9. Click the **Advanced** icon.
   The system displays the **Advanced filter** dialog box based on column data type.

Reference: **User Manual > Working with Analysis > Operations on Crosstab > Page Dimension Filter**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**



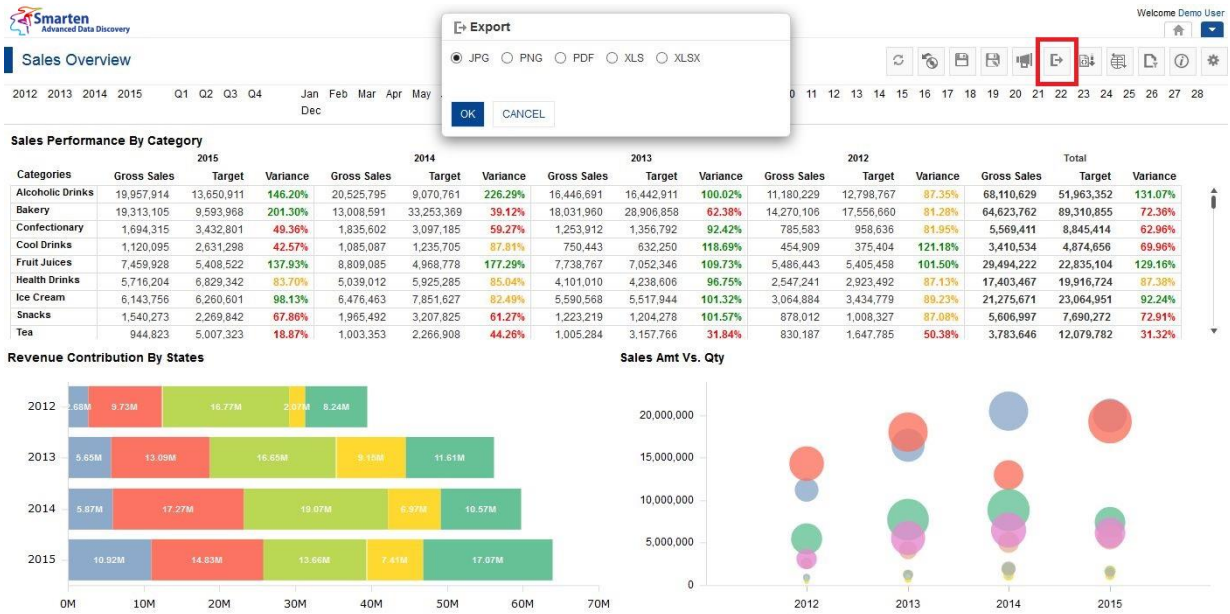
DASHBAORD AFTER APPLYING PAGE FILTER

8.3.11.3 Export Dashboard

Dashboard can be exported to JPG, PNG, PDF, XLS, or XLSX formats for optimal interoperability with other business applications.

Procedure

1. In the **Repository**, open dashboard.
   The system displays the dashboard.
2. In the Dashboard Toolbar, click **Export.**
   The system displays the **Export** dialog box.
3. Select the desired radio button (JPG, PNG, PDF, XLS and XLSX).
4. Click **OK.**



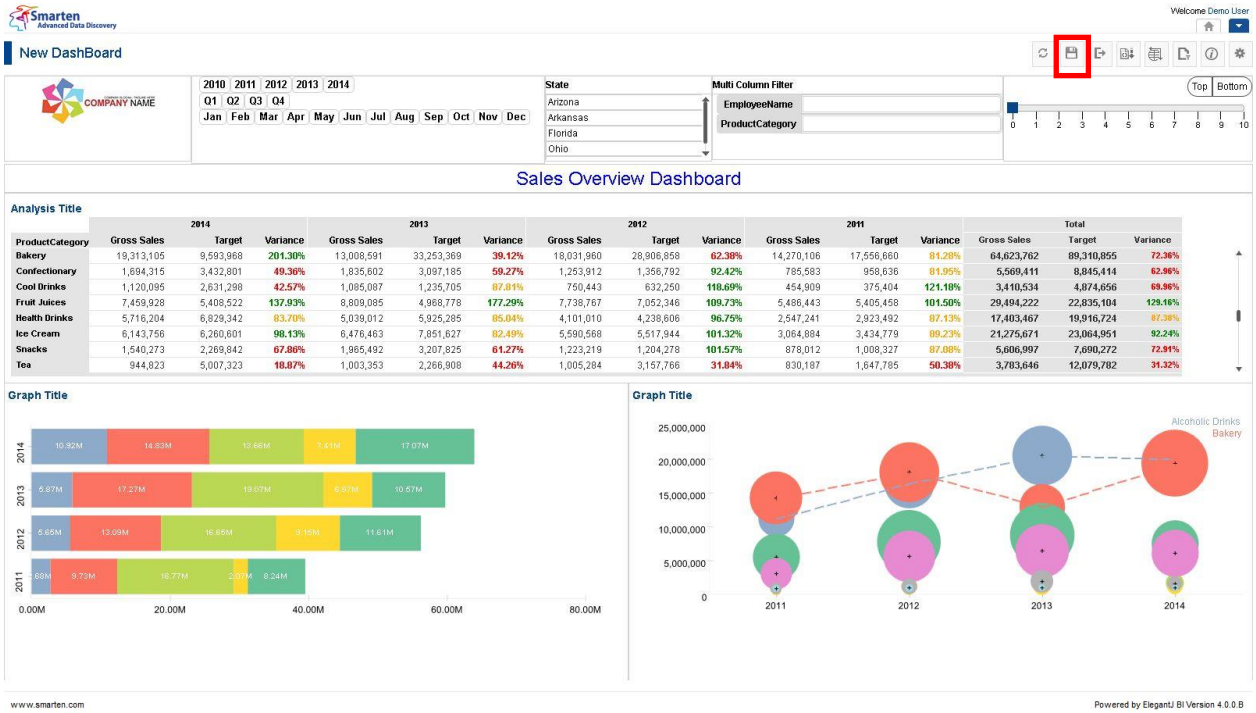
DASHBOARD: EXPORT ICON AND DIALOG

> Note:
> While you export crosstab to XLS format, colour of exported files may not exactly match colour of crosstab on screen due to limitations on support of colour.

8.3.11.4 Save Dashboard

You have the following functions to Save Dashboard:

- Save
- Save As



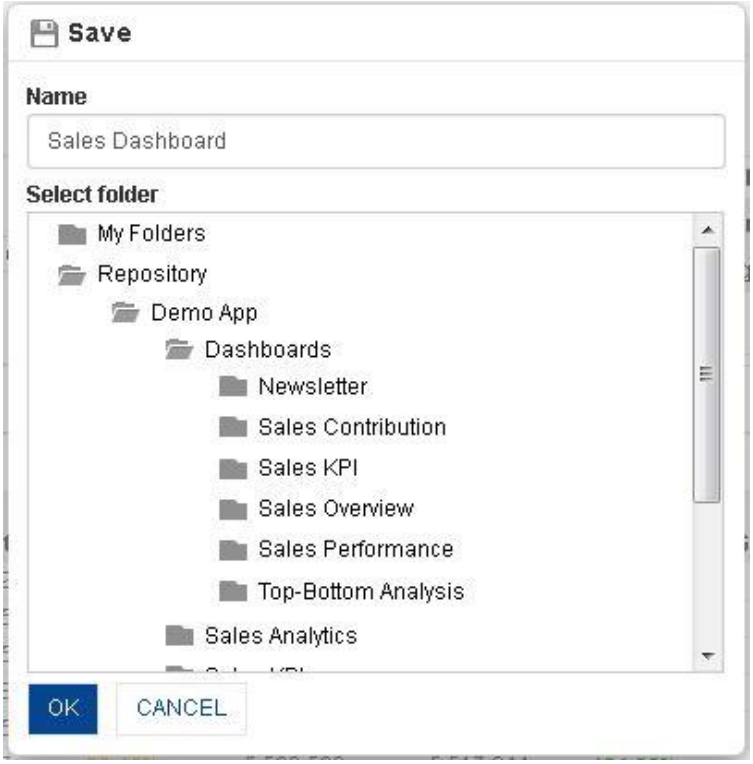
DASHBOARD: SAVE ICON

8.3.11.4.1 Save

You can either create and save a new dashboard or modify and save an existing dashboard.

Procedure

1. In the **Repository**, open dashboard.
   The system displays the dashboard.
2. In the Dashboard Toolbar, click **Save.**
   The system displays the **Save** dialog box.



DASHBOARD: SAVE DIALOG

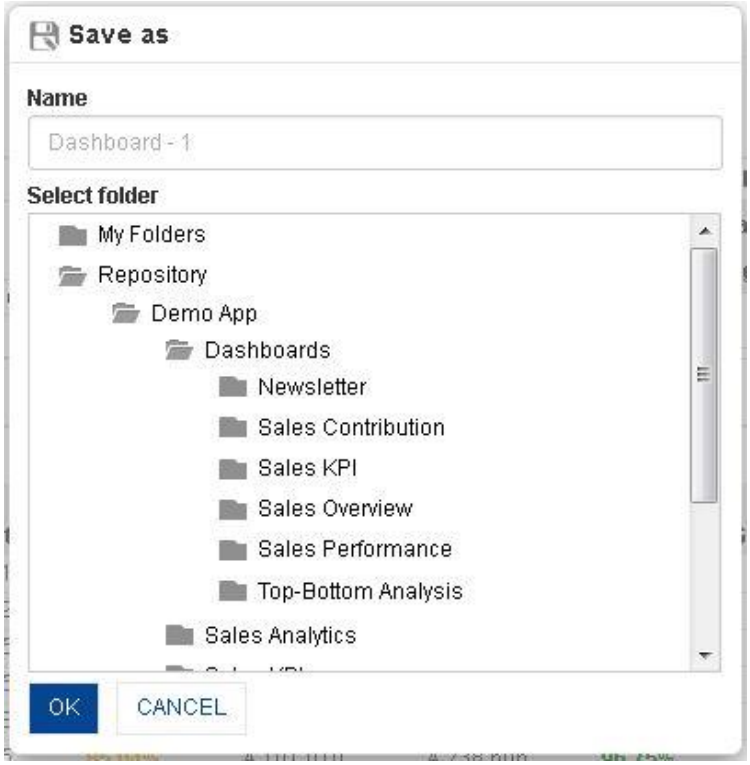
3. In the **Name** field, enter a name.
4. In the **Select Folder** box, choose a folder.
5. Click **OK.**
   The system displays the newly saved dashboard.

8.3.11.4.2 Save As

You can use this option to save a copy of dashboard with a new name.

Procedure

1. Follow the **Procedure** of **Save** given above or open an existing dashboard.
2. In the Dashboard Toolbar, click **Save as.**
   The system displays the **Save as** dialog box.



DASHBOARD: SAVE AS DIALOG

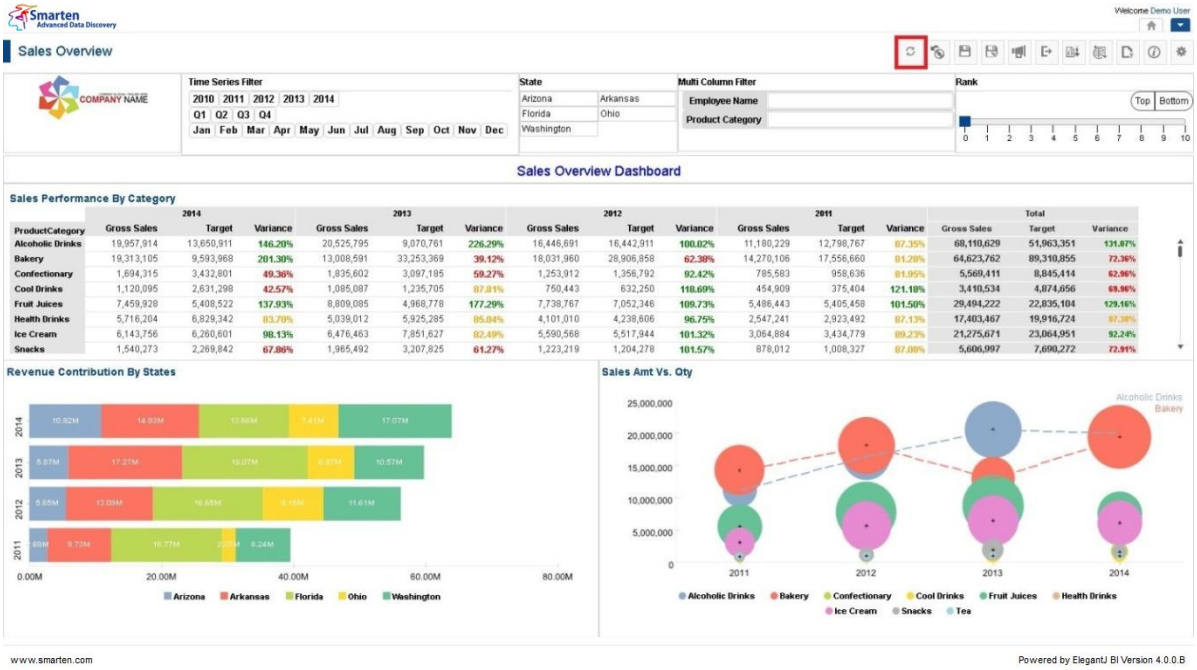
3. In the **Name** field, enter a name.
4. In the **Select Folder** box, choose a folder.
5. Click **OK.**
   The system creates a copy of an existing dashboard with a new name.

8.3.11.5 Refresh

This option is used to update dashboard data from its source cube(s).

Procedure

1. In the **Repository**, open dashboard.
   The system displays the dashboard.
2. In the Dashboard Toolbar, click **Refresh.**



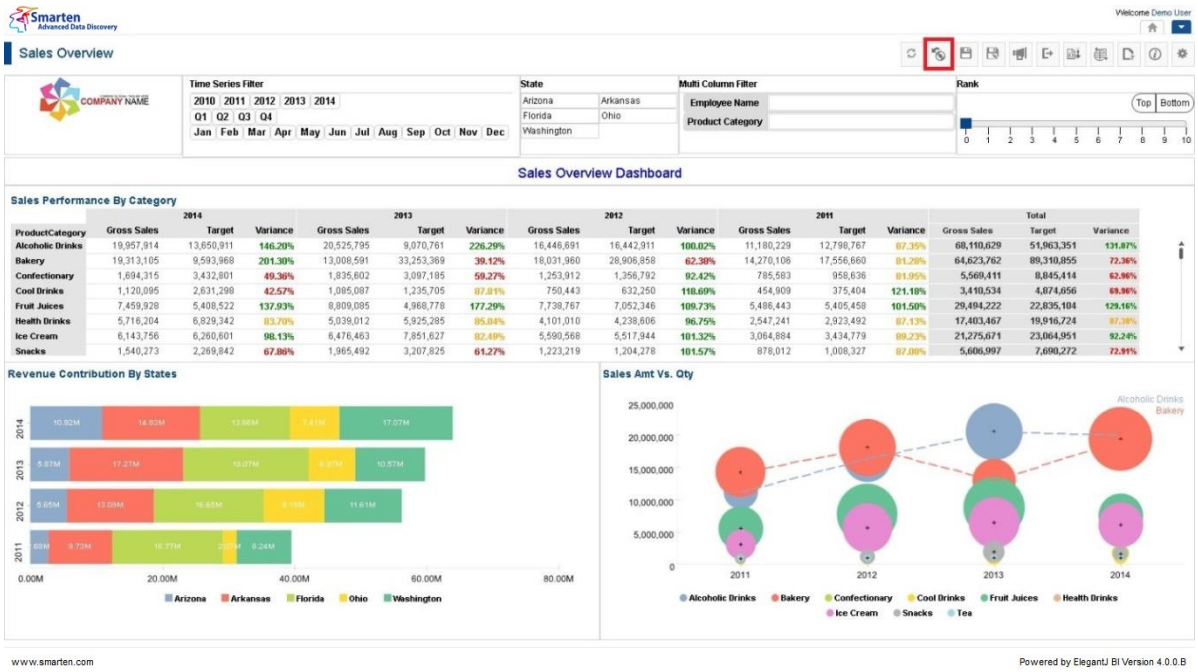
DASHBOARD: REFRESH ICON

8.3.11.6 Restore

You can use this option to restore the last saved version of dashboard without loading fresh data from cube(s).

Procedure

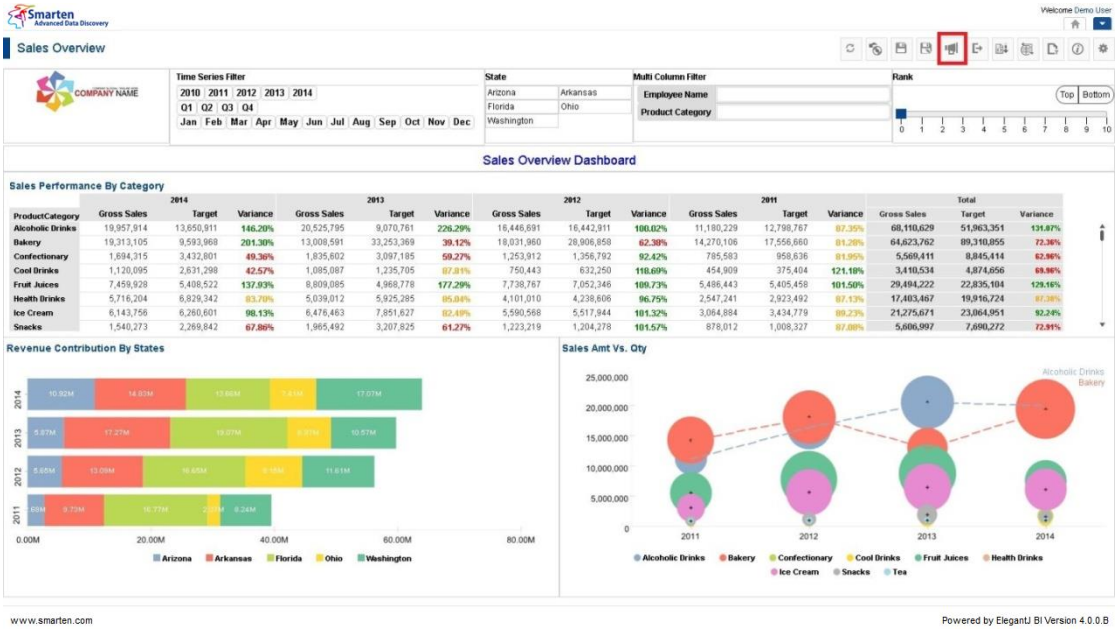
1. In the **Repository**, open dashboard.
   The system displays the dashboard.
2. In the Dashboard Toolbar, click **Restore.**



DASHBOARD: RESTORE ICON

8.3.11.7 Publish now

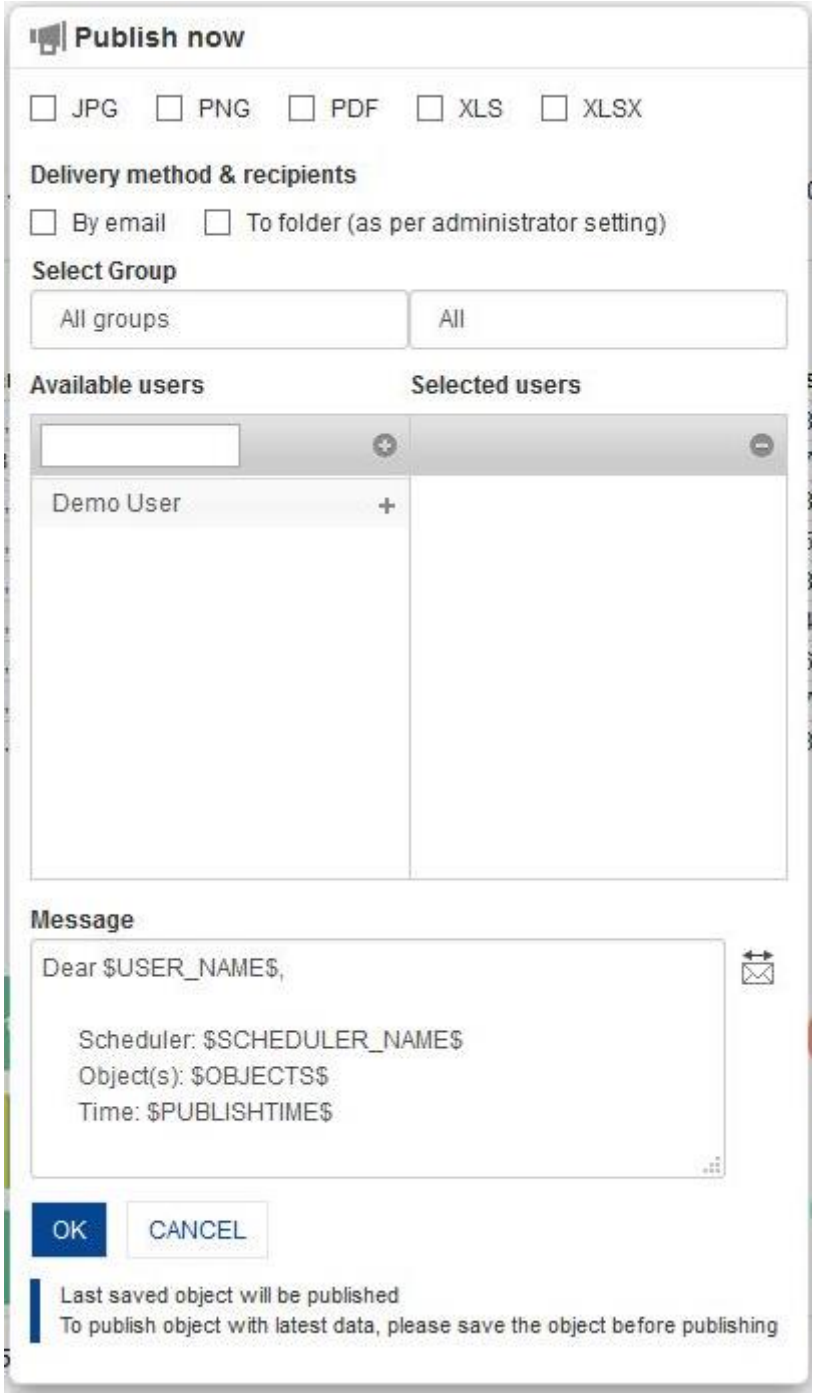
You can publish the dashboard on the fly with the use of **Publish Now** option. This option is used to publish specific crosstab in **JPG**, PNG, **PDF**, **XLS,** and **XLXS** formats together. It is visible only after saving the dashboard.



DASHBOARD: PUBLISH NOW ICON

Procedure

1. In the **Repository**, open dashboard.
   The system displays the dashboard.
2. In the Dashboard Toolbar, click **Publish now.**
   The system displays the **Publish now** dialog box.

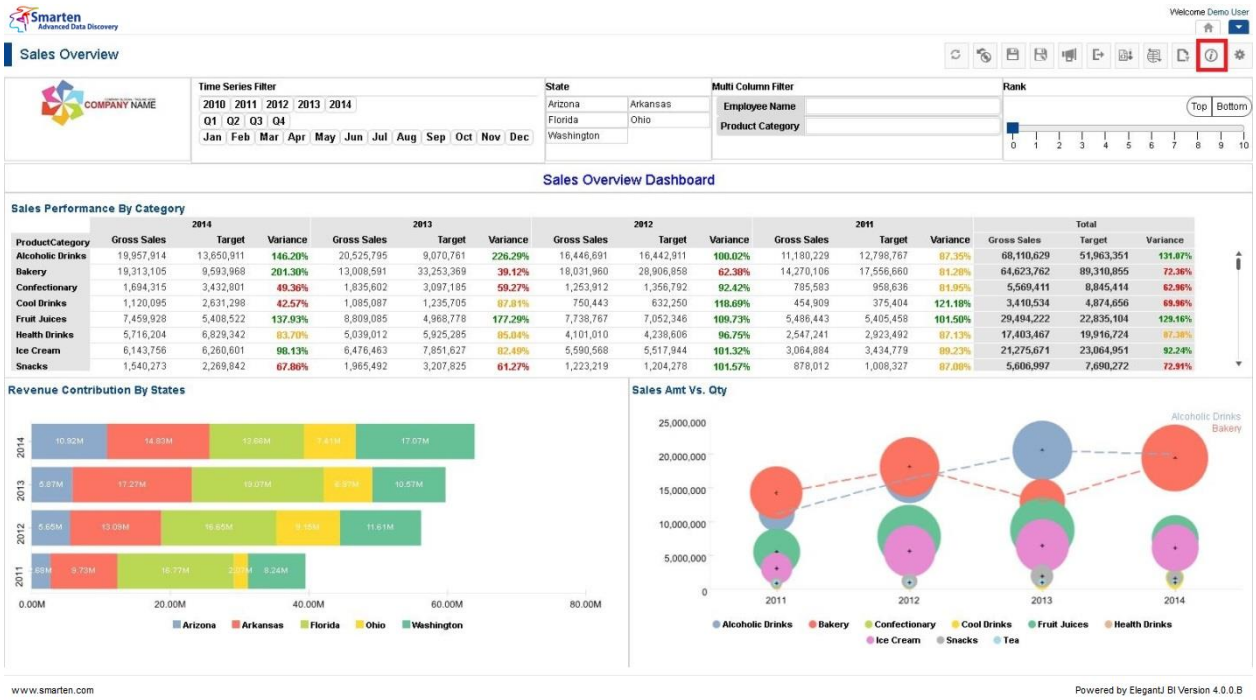


DASHBOARD: PUBLISH NOW SETTINGS

3. In the **Publish now** dialog box, select the checkbox to choose the output type (JPG, PNG, PDF, XLS, or XLXS).
4. In the **Delivery method & recipients** section, select the checkbox(es) (by email and to folder).
5. In the **Select group** section, select the group from the drop-down list.
   The system displays the list of users in the **Available users** column according to the group selected.
6. In the **Available users** column, select the users. System displays list of users as per access rights policy defined by Administrator.
   The system displays the selected users in the **Selected users** column.
7. In the **Message** box, enter the message.
8. Click **OK.**

8.3.11.8 Object information

Object information displays information about object metadata and various operations applied on dashboard.

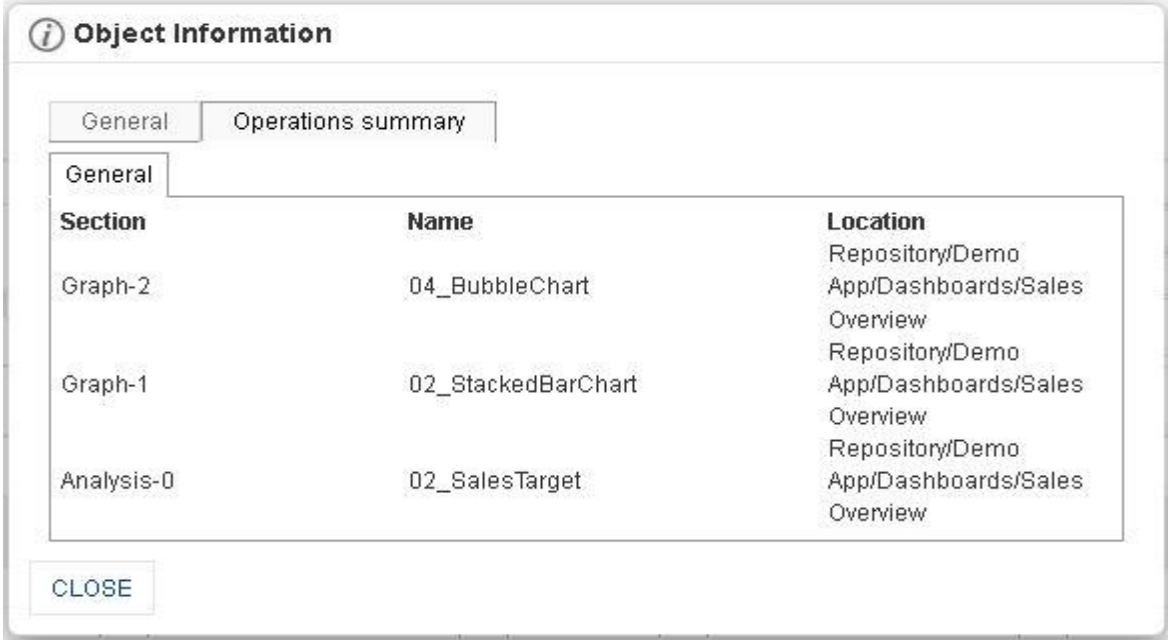


DASHBOARD: OBJECT INFORMATION ICON

Procedure

1. In the **Repository**, open dashboard.
   The system displays the selected dashboard.
2. In the Dashboard Toolbar, click **Object information.**
   The system displays the **Object information** dialog box with various information displayed in the two tabs, namely General and Operations summary, as shown below.

DASHBOARD: OBJECT INFORMATION: GENERAL TAB



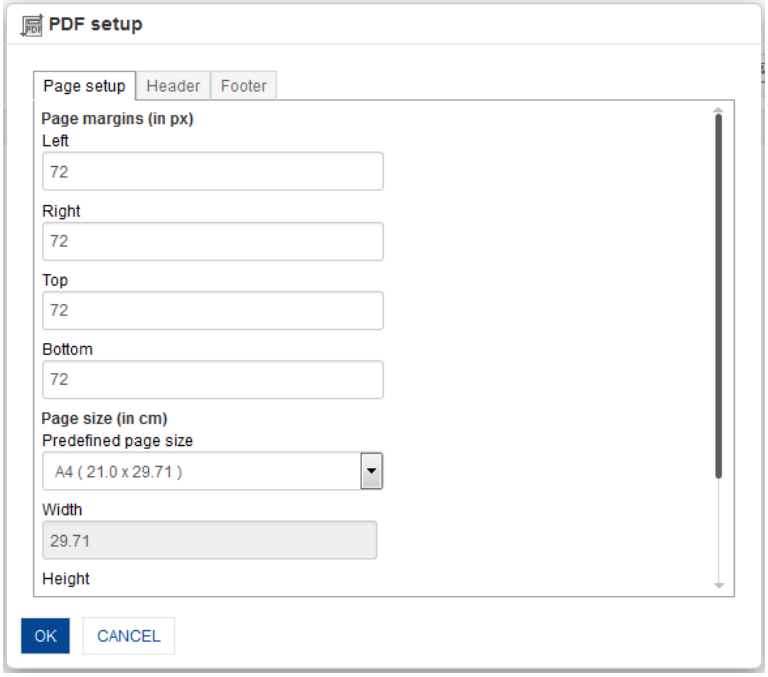
DASHBOARD: OBJECT INFORMATION: OPERATIONS SUMMARY TAB

3. Click **Close** after viewing the information.

8.3.11.9 PDF Page setup

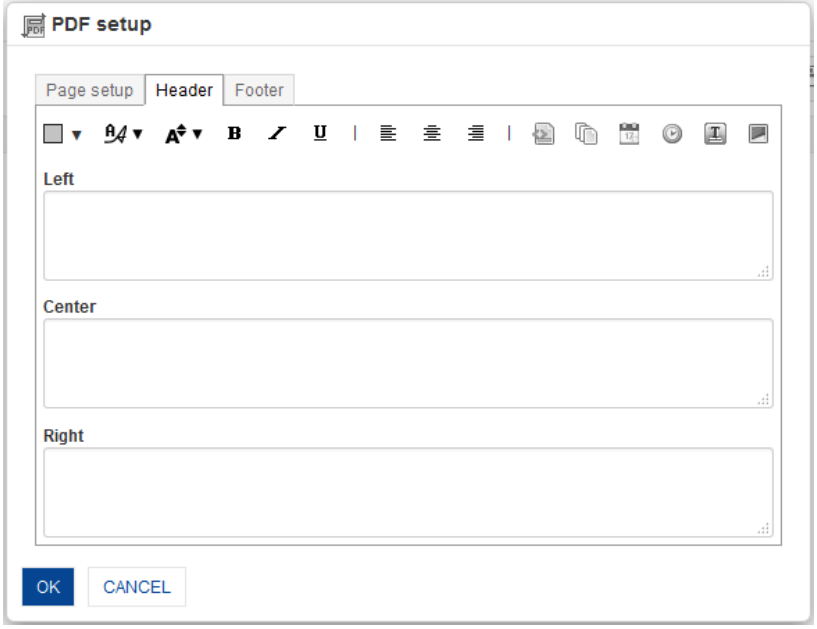
Procedure

1. In the **Repository**, open dashboard.
   System displays the selected dashboard.
2. In the upper right-hand corner, click **Setting.**
   System displays the Setting Toolbar.
3. Click **PDF setup.**
   System displays the **PDF setup** dialog box.



PDF SETUP: PAGE SETUP

4. **Page setup:**
   - Enter **Page Margins** to set top, bottom, left, and right margins for page.
   - From the **Predefined page size** drop-down list, select size.
   - Customize the **Height** and **Width** for page
   - Select the page orientation, either **Portrait** or **Landscape.**

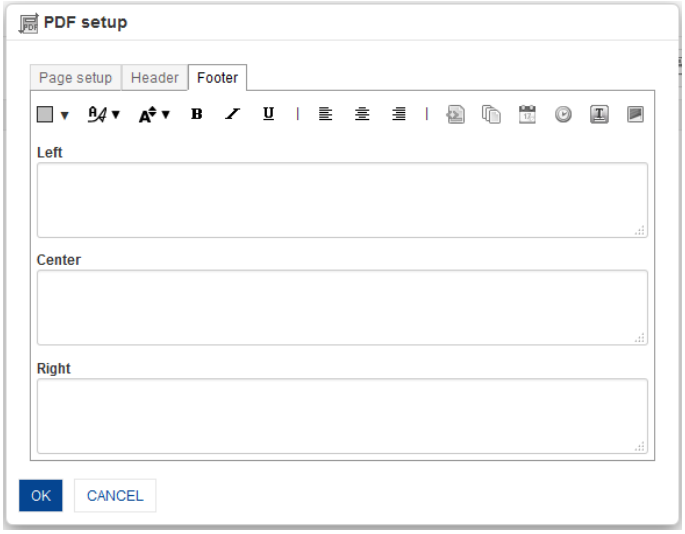


PDF SETUP: HEADER

5. **Header:**
   - Enter values or variables required for left, centre and right sections of the header. You can select Page Number, Number of Pages, Date, Time, Object Title and Image as variable.

     You can also add custom text along with variables.

     Some examples:
     Report Date: $DATE$ $TIME$
     Page: $PAGE_NUMBER$ of $TOTAL_PAGES$



PDF SETUP: FOOTER

6. **Footer:**
   - Enter values or variables required for left, centre and right sections of the footer.
     You can select Page Number, Number of Pages, Date, Time, Object Title and Image as variable.

     You can also add custom text along with variables.

     Some examples:
     Report Date: $DATE$ $TIME$
     Page: $PAGE_NUMBER$ of $TOTAL_PAGES$
7. Click **OK**.

Tools	Description
	Font Colour
	Font Name
	Font Size
	Bold Style
	Italic Style
	Underline
	Left Alignment
	Centre Alignment
	Right Alignment

PDF SETUP TOOLBAR: FORMATTING OPTIONS

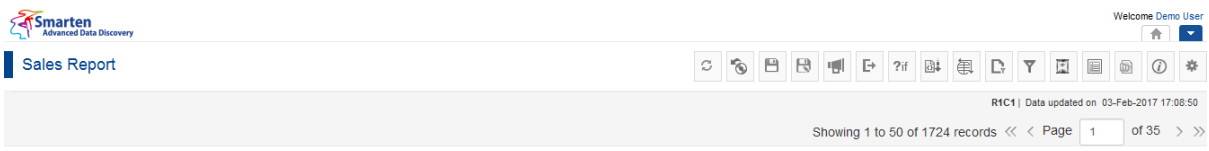
Tools		Description
	Page Number	Current Page Number
	Number of Pages	Total Number of Pages
	Date	Current Date on which object is exported
	Time	Current Time when object is exported
	Object Title	Title saved in object
	Image	Company logo or any other Image

PDF SETUP TOOLBAR: HEADER/FOOTER VARIABLES

9. Working with Tabular

This chapter highlights the use of tabular analysis in Smarten and illustrates the steps for creating tabular.

The following images demonstrate how Smarten Tabular analysis renders differently in different target devices.



Monthly Sales Report

Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267.00	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	Mints	330.00	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	Pineapple	282.00	218.73	20768.41
Jan	Arkansas	Conway	Ice Cream	Vanilla	378.00	315.03	39977.31
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1452.00	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	975.00	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	957.00	2266.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	675.00	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5061.00	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1080.00	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	228.00	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.00	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	729.00	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1536.00	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1725.00	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1374.00	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1128.00	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.00	200.76	7046.68
Jan	Florida	Lakeland	Ice Cream	Pineapple	561.00	387.78	36262.40
Jan	Florida	Lakeland	Ice Cream	Vanilla	3132.00	888.63	335588.10
Jan	Florida	Lakeland	Snacks	Macaroni	267.00	194.58	17337.08
Jan	Florida	Lakeland	Snacks	Noodles	531.00	359.88	31537.82
Jan	Florida	Lakeland	Tea	Ginger Tea	1056.00	655.53	115299.11
Jan	Florida	Lakeland	Tea	Green Tea	438.00	508.53	37157.68
Jan	Florida	Orlando	Alcoholic Drinks	Beer	114.00	699.03	26737.90
Jan	Florida	Orlando	Alcoholic Drinks	Whisky	84.00	1015.02	29232.58
Jan	Florida	Orlando	Bakery	Cake	141.00	300.15	14317.16
Jan	Florida	Orlando	Bakery	Cookies	855.00	824.49	235227.00
Jan	Florida	Orlando	Confectionary	Toffees	57.00	119.67	2315.61
Jan	Florida	Orlando	Cool Drinks	Cola	57.00	134.10	2594.84
Jan	Florida	Orlando	Cool Drinks	Soda	75.00	136.89	3511.23
Jan	Florida	Orlando	Fruit Juices	Apple	561.00	299.13	55997.14

TABULAR—DESKTOP VIEW

Smarten Advanced Data Discovery

Welcome Demo User

Sales Report

R1C1 | Data updated on 03-Feb-2017 17:08:50

Showing 1 to 50 of 1724 records

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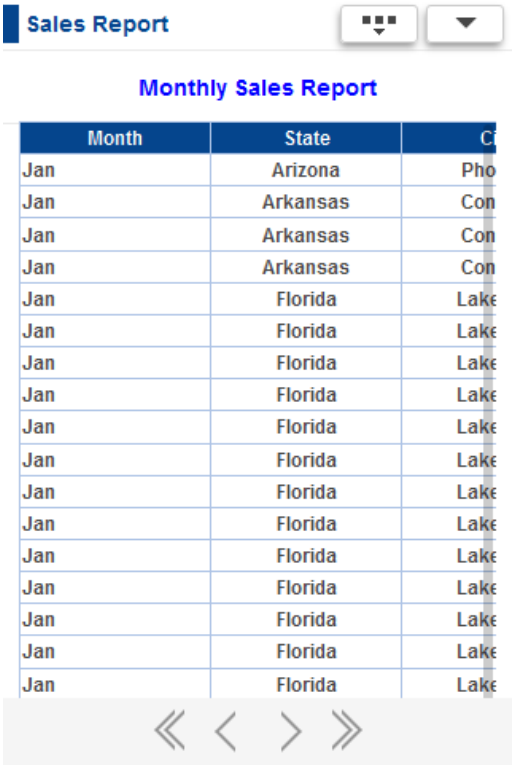
Monthly Sales Report

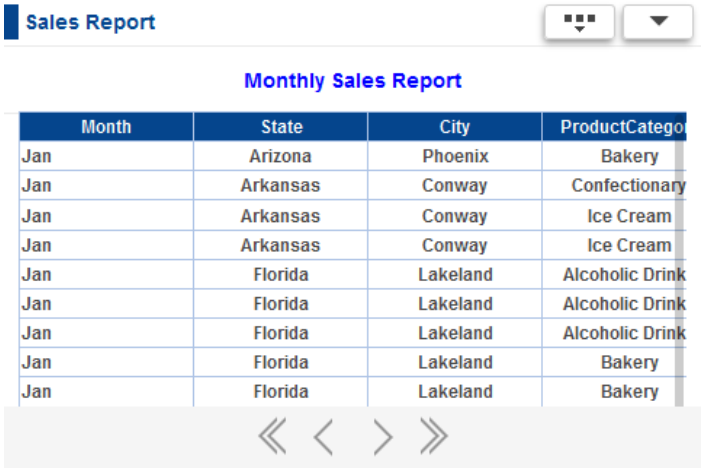
Month	State	City	ProductCategory	ProductName	SalesQty
Jan	Arizona	Phoenix	Bakery	Cookies	267.00
Jan	Arkansas	Conway	Confectionary	Mints	330.00
Jan	Arkansas	Conway	Ice Cream	Pineapple	282.00
Jan	Arkansas	Conway	Ice Cream	Vanilla	378.00
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1452.00
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	975.00
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	957.00
Jan	Florida	Lakeland	Bakery	Cake	675.00
Jan	Florida	Lakeland	Bakery	Cookies	5061.00
Jan	Florida	Lakeland	Confectionary	Mints	1080.00
Jan	Florida	Lakeland	Confectionary	Toffees	228.00
Jan	Florida	Lakeland	Cool Drinks	Cola	114.00
Jan	Florida	Lakeland	Cool Drinks	Soda	729.00
Jan	Florida	Lakeland	Fruit Juices	Apple	1536.00
Jan	Florida	Lakeland	Fruit Juices	Mango	1725.00
Jan	Florida	Lakeland	Fruit Juices	Orange	1374.00
Jan	Florida	Lakeland	Health Drinks	Chocolate	1128.00
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.00
Jan	Florida	Lakeland	Ice Cream	Pineapple	561.00
Jan	Florida	Lakeland	Ice Cream	Vanilla	3132.00
Jan	Florida	Lakeland	Snacks	Macaroni	267.00
Jan	Florida	Lakeland	Snacks	Noodles	531.00
Jan	Florida	Lakeland	Tea	Ginger Tea	1056.00
Jan	Florida	Lakeland	Tea	Green Tea	438.00
Jan	Florida	Orlando	Alcoholic Drinks	Beer	114.00
Jan	Florida	Orlando	Alcoholic Drinks	Whisky	84.00
Jan	Florida	Orlando	Bakery	Cake	141.00
Jan	Florida	Orlando	Bakery	Cookies	855.00
Jan	Florida	Orlando	Confectionary	Toffees	57.00
Jan	Florida	Orlando	Cool Drinks	Cola	57.00
Jan	Florida	Orlando	Cool Drinks	Soda	75.00
Jan	Florida	Orlando	Fruit Juices	Apple	561.00

TABULAR—TABLET VIEW



Month	State	Ci
Jan	Arizona	Pho
Jan	Arkansas	Con
Jan	Arkansas	Con
Jan	Arkansas	Con
Jan	Florida	Lake
Jan	Florida	Lake
Jan	Florida	Lake
Jan	Florida	Lake
Jan	Florida	Lake
Jan	Florida	Lake
Jan	Florida	Lake
Jan	Florida	Lake
Jan	Florida	Lake
Jan	Florida	Lake
Jan	Florida	Lake
Jan	Florida	Lake
Jan	Florida	Lake

TABULAR—SMARTPHONE: PORTRAIT VIEW

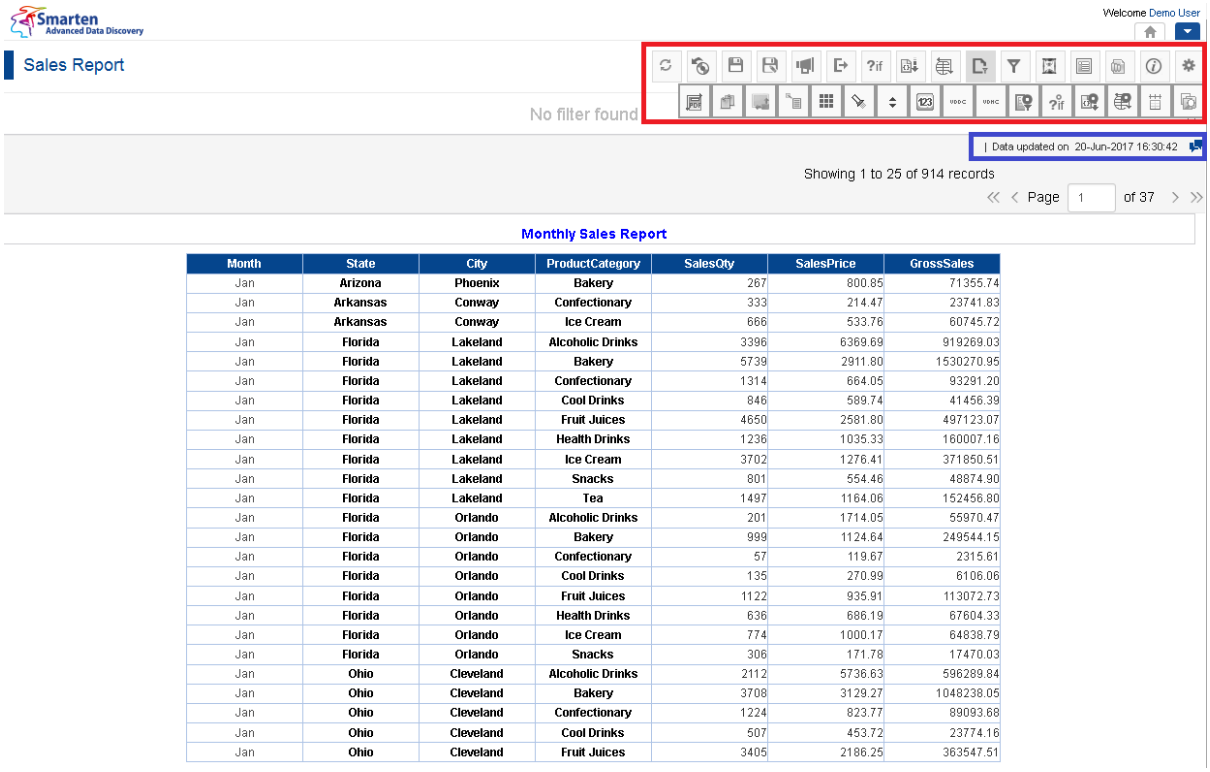


Month	State	City	ProductCategor
Jan	Arizona	Phoenix	Bakery
Jan	Arkansas	Conway	Confectionary
Jan	Arkansas	Conway	Ice Cream
Jan	Arkansas	Conway	Ice Cream
Jan	Florida	Lakeland	Alcoholic Drink
Jan	Florida	Lakeland	Alcoholic Drink
Jan	Florida	Lakeland	Alcoholic Drink
Jan	Florida	Lakeland	Bakery
Jan	Florida	Lakeland	Bakery

TABULAR—SMARTPHONE: LANDSCAPE VIEW

9.1 Becoming Familiar with Tabular Menus and Toolbars

You can use various tabular tools to edit and format tabular.



Month	State	City	ProductCategory	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	267	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	333	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	666	533.76	60745.72
Jan	Florida	Lakeland	Alcoholic Drinks	3396	6369.69	919269.03
Jan	Florida	Lakeland	Bakery	5739	2911.80	1530270.95
Jan	Florida	Lakeland	Confectionary	1314	664.05	93291.20
Jan	Florida	Lakeland	Cool Drinks	846	589.74	41456.39
Jan	Florida	Lakeland	Fruit Juices	4650	2581.80	497123.07
Jan	Florida	Lakeland	Health Drinks	1236	1035.33	160007.16
Jan	Florida	Lakeland	Ice Cream	3702	1276.41	371850.51
Jan	Florida	Lakeland	Snacks	801	554.46	48874.90
Jan	Florida	Lakeland	Tea	1497	1164.06	152456.80
Jan	Florida	Orlando	Alcoholic Drinks	201	1714.05	55970.47
Jan	Florida	Orlando	Bakery	999	1124.64	249544.15
Jan	Florida	Orlando	Confectionary	57	119.67	2315.61
Jan	Florida	Orlando	Cool Drinks	135	270.99	6106.06
Jan	Florida	Orlando	Fruit Juices	1122	935.91	113072.73
Jan	Florida	Orlando	Health Drinks	636	686.19	67604.33
Jan	Florida	Orlando	Ice Cream	774	1000.17	64838.79
Jan	Florida	Orlando	Snacks	306	171.78	17470.03
Jan	Ohio	Cleveland	Alcoholic Drinks	2112	5736.63	596289.84
Jan	Ohio	Cleveland	Bakery	3708	3129.27	1048238.05
Jan	Ohio	Cleveland	Confectionary	1224	823.77	89093.68
Jan	Ohio	Cleveland	Cool Drinks	507	453.72	23774.16
Jan	Ohio	Cleveland	Fruit Juices	3405	2186.25	363547.51

TABULAR: TOOLBAR

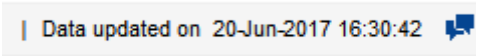
TABULAR TOOLBAR

Icon	Icon name
	Refresh
	Restore
	Save
	Save as
	Publish now
	Export
	What-if
	Retrieval Parameters
	Global variables
	Page filter
	Filter
	Time series filter
	Outliner
	R script parameters
	Graph
	Object information
	Setting
	PDF setup
	Manage notes
	Manage subviews
	Manage data display value mapping
	Manage drill through columns
	Spotlighter
	Manage sort
	Manage rank
	Manage UDDC
	Manage UDHC
	Manage page filters

Icon	Icon name
	Select What-if variables
	Manage retrieval parameters
	Manage global variables
	Manage groups
	Tabular properties

TABULAR TOOLBAR OPTIONS

The tabular information bar displays date & time of last data update and Comments icon.



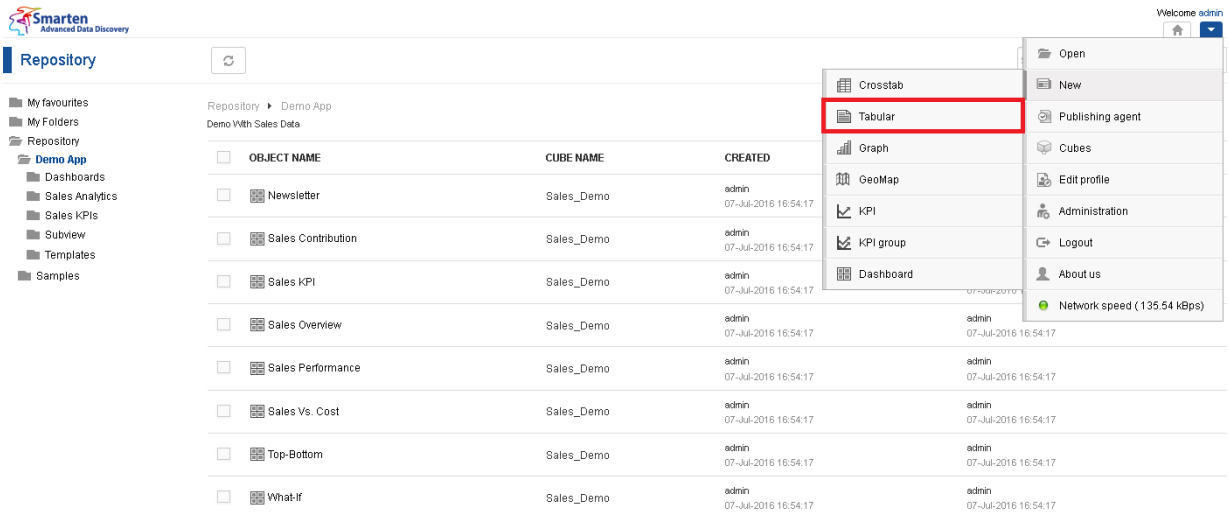
TABULAR INFORMATION BAR

9.2 Creating New Tabular

You can generate tabular analysis using interactive wizard in Smarten.

Procedure

1. In the upper right-hand corner, click the **down arrow** icon.
   The system displays the Main Menu.
2. In the Main Menu, mouse over on **New**.
   The system displays the Submenu.



NEW TABULAR

3. Click **Tabular**.

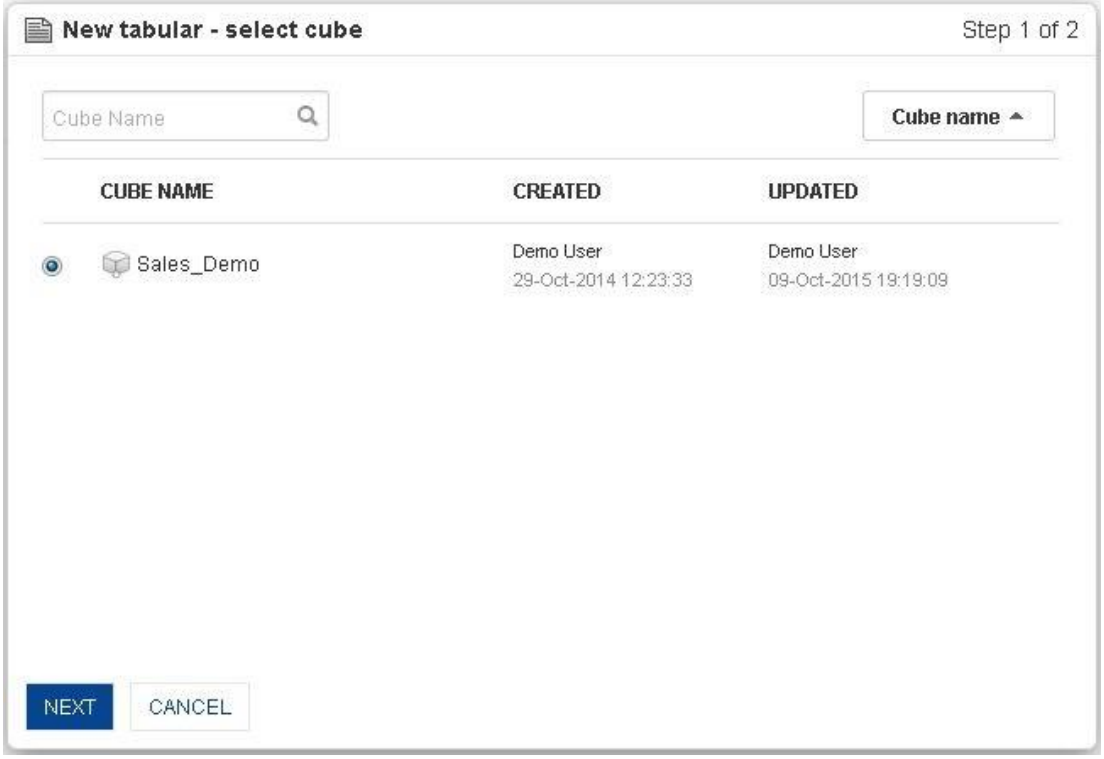
   Creating a report is a wizard-driven simple process and has the following steps:

- Step 1—Selecting Cube for Tabular
- Step 2—Selecting Tabular Columns

9.2.1 Selecting Cube for Tabular

Procedure

1. Follow the **Procedure** of **Creating Tabular.**
   The system displays the **New Tabular – select cube** dialog box.



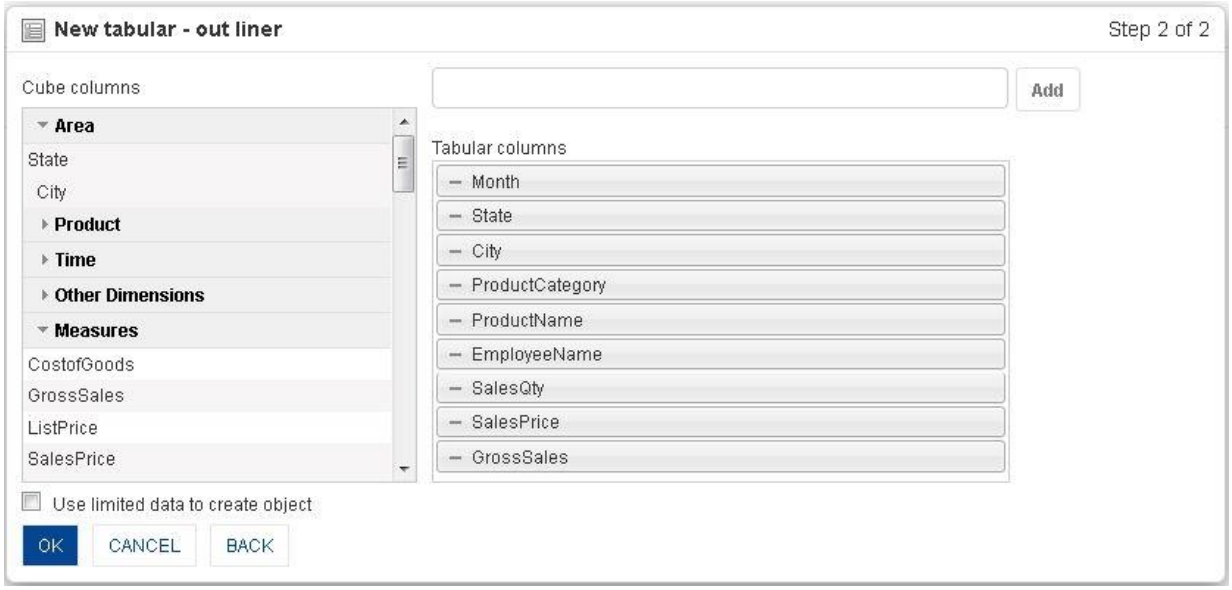
TABULAR: SELECT CUBE

2. Click the radio button to select the cube name.
3. Click **Next.**

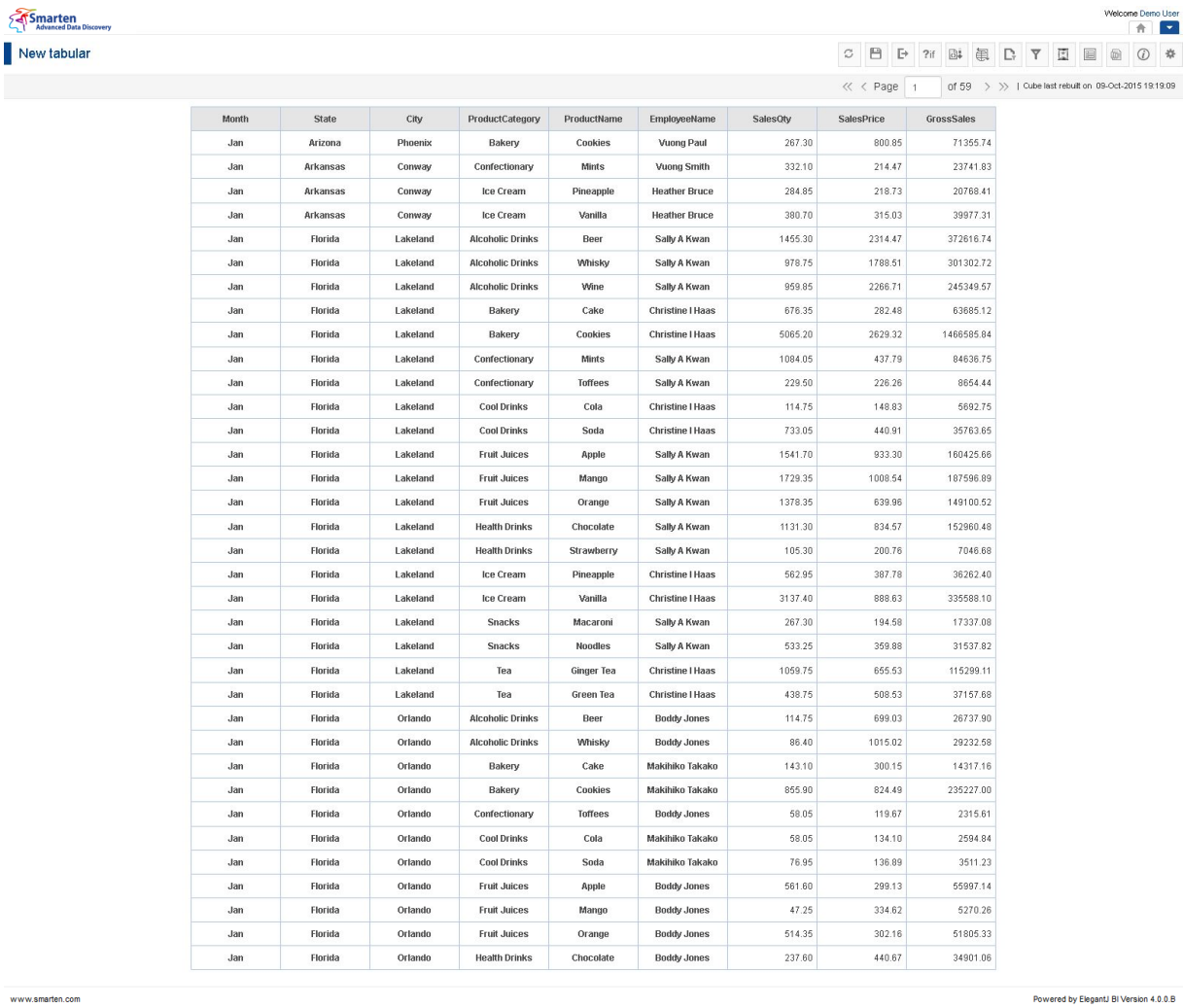
9.2.2 Selecting Tabular Columns

Procedure

1. Follow the **Procedure** of **Selecting Cube for Tabular**.
   The system displays the **New tabular – out liner** dialog box.
2. Select columns from the **Cube columns**.
3. Drag and drop the selected dimensions or measures in **Tabular columns**.
4. Click **OK**.
   The system displays the newly generated tabular.



TABULAR: SELECT REPORT COLUMNS



Smarten Advanced Data Discovery

Welcome Demo User

New tabular

Page 1 of 59 | Cube last rebuilt on 09-Oct-2015 19:19:09

Month	State	City	ProductCategory	ProductName	EmployeeName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	Vuong Paul	267.30	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	Mints	Vuong Smith	332.10	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	Pineapple	Heather Bruce	284.85	218.73	20768.41
Jan	Arkansas	Conway	Ice Cream	Vanilla	Heather Bruce	380.70	315.03	39977.31
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	Sally A Kwan	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	Sally A Kwan	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	Sally A Kwan	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	Christine I Haas	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	Christine I Haas	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	Sally A Kwan	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	Sally A Kwan	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	Christine I Haas	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	Christine I Haas	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	Sally A Kwan	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	Sally A Kwan	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	Sally A Kwan	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	Sally A Kwan	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	Sally A Kwan	105.30	200.76	7046.68
Jan	Florida	Lakeland	Ice Cream	Pineapple	Christine I Haas	562.95	387.78	36262.40
Jan	Florida	Lakeland	Ice Cream	Vanilla	Christine I Haas	3137.40	888.63	335588.10
Jan	Florida	Lakeland	Snacks	Macaroni	Sally A Kwan	267.30	194.58	17337.08
Jan	Florida	Lakeland	Snacks	Noodles	Sally A Kwan	533.25	359.88	31537.82
Jan	Florida	Lakeland	Tea	Ginger Tea	Christine I Haas	1059.75	655.53	115299.11
Jan	Florida	Lakeland	Tea	Green Tea	Christine I Haas	438.75	508.53	37157.68
Jan	Florida	Orlando	Alcoholic Drinks	Beer	Boddy Jones	114.75	699.03	26737.90
Jan	Florida	Orlando	Alcoholic Drinks	Whisky	Boddy Jones	86.40	1015.02	29232.58
Jan	Florida	Orlando	Bakery	Cake	Makihiko Takako	143.10	300.15	14317.16
Jan	Florida	Orlando	Bakery	Cookies	Makihiko Takako	855.90	824.49	235227.00
Jan	Florida	Orlando	Confectionary	Toffees	Boddy Jones	58.05	119.67	2315.61
Jan	Florida	Orlando	Cool Drinks	Cola	Makihiko Takako	58.05	134.10	2594.84
Jan	Florida	Orlando	Cool Drinks	Soda	Makihiko Takako	76.95	136.89	3511.23
Jan	Florida	Orlando	Fruit Juices	Apple	Boddy Jones	561.60	299.13	55997.14
Jan	Florida	Orlando	Fruit Juices	Mango	Boddy Jones	47.25	334.62	5270.26
Jan	Florida	Orlando	Fruit Juices	Orange	Boddy Jones	514.35	302.16	51805.33
Jan	Florida	Orlando	Health Drinks	Chocolate	Boddy Jones	237.60	440.67	34901.06

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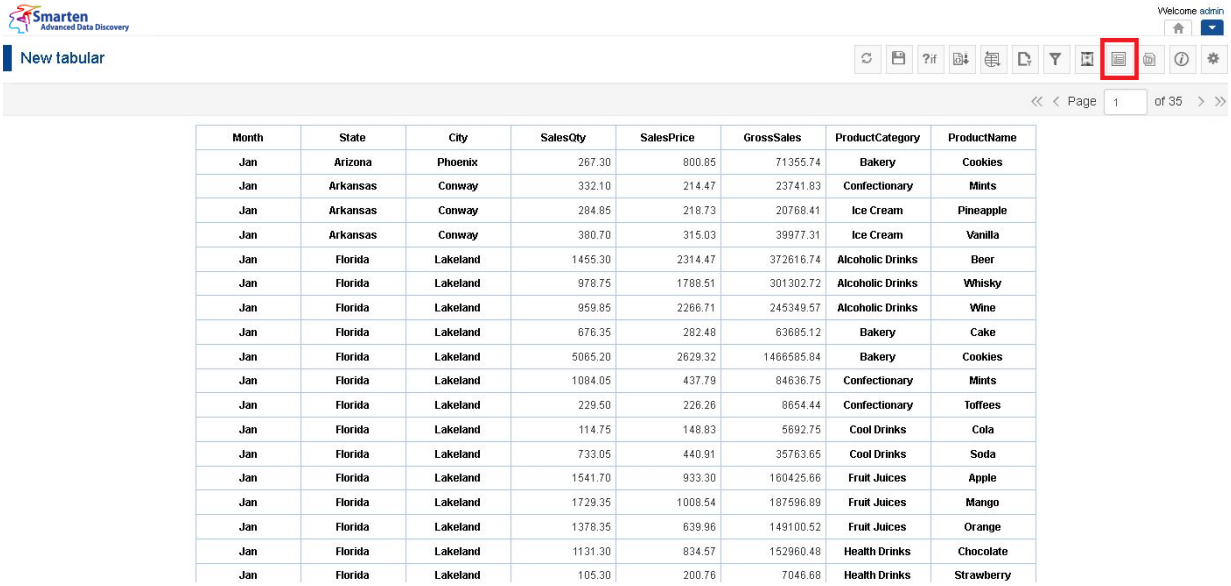
NEWLY GENERATED TABULAR

9.3 Operations on Tabular

9.3.1 Outliner

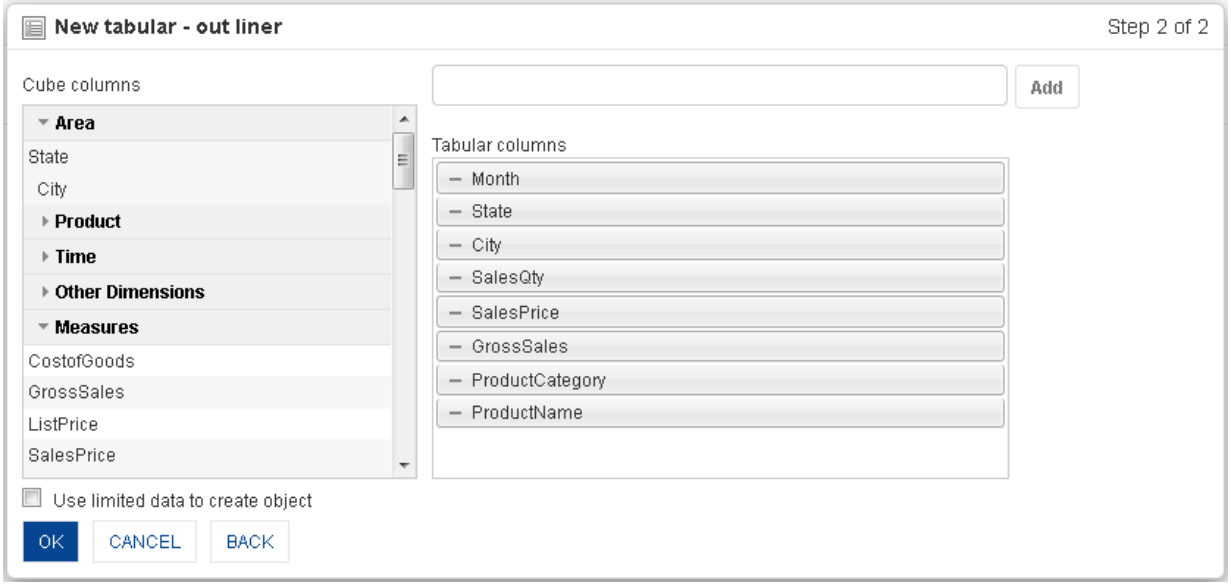
Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the Tabular Toolbar, select **Outliner**.
   The system displays the **Outliner** dialog box.



Month	State	City	SalesQty	SalesPrice	GrossSales	ProductCategory	ProductName
Jan	Arizona	Phoenix	267.30	800.85	71355.74	Bakery	Cookies
Jan	Arkansas	Conway	332.10	214.47	23741.83	Confectionary	Mints
Jan	Arkansas	Conway	284.85	218.73	20768.41	Ice Cream	Pineapple
Jan	Arkansas	Conway	380.70	315.03	39977.31	Ice Cream	Vanilla
Jan	Florida	Lakeland	1455.30	2314.47	372616.74	Alcoholic Drinks	Beer
Jan	Florida	Lakeland	978.75	1788.51	301302.72	Alcoholic Drinks	Whisky
Jan	Florida	Lakeland	959.85	2266.71	245349.57	Alcoholic Drinks	Wine
Jan	Florida	Lakeland	676.35	282.48	63685.12	Bakery	Cake
Jan	Florida	Lakeland	5065.20	2629.32	1466585.84	Bakery	Cookies
Jan	Florida	Lakeland	1084.05	437.79	84636.75	Confectionary	Mints
Jan	Florida	Lakeland	229.50	226.26	8654.44	Confectionary	Toffees
Jan	Florida	Lakeland	114.75	148.83	5692.75	Cool Drinks	Cola
Jan	Florida	Lakeland	733.05	440.91	35763.65	Cool Drinks	Soda
Jan	Florida	Lakeland	1541.70	933.30	160425.66	Fruit Juices	Apple
Jan	Florida	Lakeland	1729.35	1008.54	187596.89	Fruit Juices	Mango
Jan	Florida	Lakeland	1378.35	639.96	149100.52	Fruit Juices	Orange
Jan	Florida	Lakeland	1131.30	834.57	152960.48	Health Drinks	Chocolate
Jan	Florida	Lakeland	105.30	200.76	7046.68	Health Drinks	Strawberry

OUTLINER ICON



TABULAR: OUTLINER

3. From the **Available columns** list, you can drag and drop the cube columns to the **Tabular columns** list or deselect the tabular columns by moving the columns back from the **Tabular columns**. Also, move up and down to change the order of columns in the **Tabular columns.**

4. Click **OK.**

9.3.2 Drill down and drill up

The drill down and drill up operation provides interactive data analysis through predefined dimension hierarchy. Using drill down and drill up, you can perform hierarchical drilling on column headings available as links in tabular.

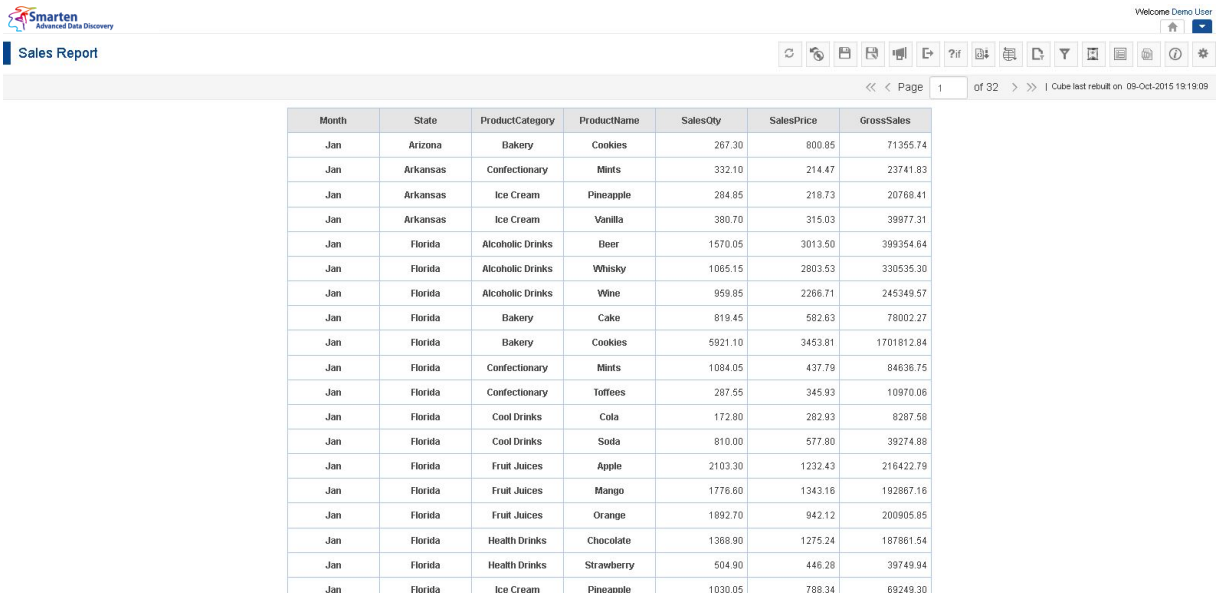
9.3.2.1 Performing the drill down and drill up operation

About this task

You can use the drill down option to navigate from less-detailed aggregated information to view data that is more granular.

Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the Tabular Toolbar, click the dimension on which you want to perform the drill down operation.
   The system displays the results page.



Month	State	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Bakery	Cookies	267.30	800.85	71355.74
Jan	Arkansas	Confectionary	Mints	332.10	214.47	23741.83
Jan	Arkansas	Ice Cream	Pineapple	284.85	218.73	20768.41
Jan	Arkansas	Ice Cream	Vanilla	380.70	315.03	39977.31
Jan	Florida	Alcoholic Drinks	Beer	1570.05	3013.50	399354.64
Jan	Florida	Alcoholic Drinks	Whisky	1065.15	2803.53	330535.30
Jan	Florida	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
Jan	Florida	Bakery	Cake	819.45	582.63	78002.27
Jan	Florida	Bakery	Cookies	5921.10	3453.81	1701812.84
Jan	Florida	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Confectionary	Toffees	287.55	345.93	10970.06
Jan	Florida	Cool Drinks	Cola	172.80	282.93	8287.58
Jan	Florida	Cool Drinks	Soda	810.00	577.80	39274.88
Jan	Florida	Fruit Juices	Apple	2103.30	1232.43	216422.79
Jan	Florida	Fruit Juices	Mango	1776.60	1343.16	192867.16
Jan	Florida	Fruit Juices	Orange	1892.70	942.12	200905.85
Jan	Florida	Health Drinks	Chocolate	1368.90	1275.24	187861.54
Jan	Florida	Health Drinks	Strawberry	504.90	446.28	39749.94
Jan	Florida	Ice Cream	Pineapple	1030.05	788.34	69249.30

TABULAR BEFORE DRILL DOWN

Smarten Advanced Data Discovery

Welcome Demo User

Sales Report

Row / Arkansas

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Month	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Conway	Confectionary	Mints	332.10	214.47	23741.83
Jan	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
Jan	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
Feb	Conway	Alcoholic Drinks	Beer	1020.65	2072.14	304025.30
Feb	Conway	Alcoholic Drinks	Whisky	319.25	999.89	98952.71
Feb	Conway	Alcoholic Drinks	Wine	271.30	738.09	69656.55
Feb	Conway	Bakery	Cake	554.48	584.02	66580.01
Feb	Conway	Bakery	Cookies	1401.08	1938.40	436679.35
Feb	Conway	Confectionary	Mints	933.40	639.10	87678.99
Feb	Conway	Confectionary	Toffees	211.00	91.10	9131.48
Feb	Conway	Cool Drinks	Cola	88.00	106.86	4478.40
Feb	Conway	Cool Drinks	Soda	281.40	225.65	15425.19
Feb	Conway	Fruit Juices	Apple	697.50	698.19	78998.64
Feb	Conway	Fruit Juices	Mango	1083.95	1308.10	140505.97
Feb	Conway	Fruit Juices	Orange	1160.35	583.04	137760.16
Feb	Conway	Health Drinks	Chocolate	499.40	501.64	82933.27
Feb	Conway	Health Drinks	Strawberry	940.10	383.48	72466.96
Feb	Conway	Ice Cream	Pineapple	1268.30	804.71	113332.80
Feb	Conway	Ice Cream	Vanilla	2202.10	797.18	251103.07
Feb	Conway	Snacks	Macaroni	487.25	288.31	32817.15
Feb	Conway	Snacks	Noodles	577.65	350.78	41288.78
Feb	Conway	Tea	Ginger Tea	58.08	620.94	7620.88
Feb	Conway	Tea	Green Tea	60.19	436.45	5270.15
Feb	Springdale	Bakery	Cake	58.00	149.42	8666.36
Feb	Springdale	Confectionary	Mints	94.00	92.57	8701.58
Mar	Conway	Alcoholic Drinks	Beer	1809.00	2221.11	510058.61
Mar	Conway	Alcoholic Drinks	Whisky	2552.55	3298.11	956135.88
Mar	Conway	Alcoholic Drinks	Wine	670.40	1482.47	168203.06
Mar	Conway	Bakery	Cake	1651.12	910.82	183984.20
Mar	Conway	Bakery	Cookies	2049.96	2621.26	662051.14
Mar	Conway	Confectionary	Mints	625.35	604.92	58093.60
Mar	Conway	Cool Drinks	Cola	107.10	164.51	5939.91
Mar	Conway	Cool Drinks	Soda	476.25	214.43	26677.81
Mar	Conway	Fruit Juices	Apple	983.10	743.03	107868.57
Mar	Conway	Fruit Juices	Mango	1487.60	1004.42	199316.78

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TABULAR AFTER DRILL DOWN

When you perform the drill down operation, Smarten displays the results for all the areas under the selected dimension. In the above screenshots, when Arkansas is selected, Smarten displays the data for cities that fall under Arkansas.

To drill up back to the original results, click the Back arrow key next to the Dimension name.

Reference: **Concept Manual > Analytic Functions> Drill Down and Drill Up**

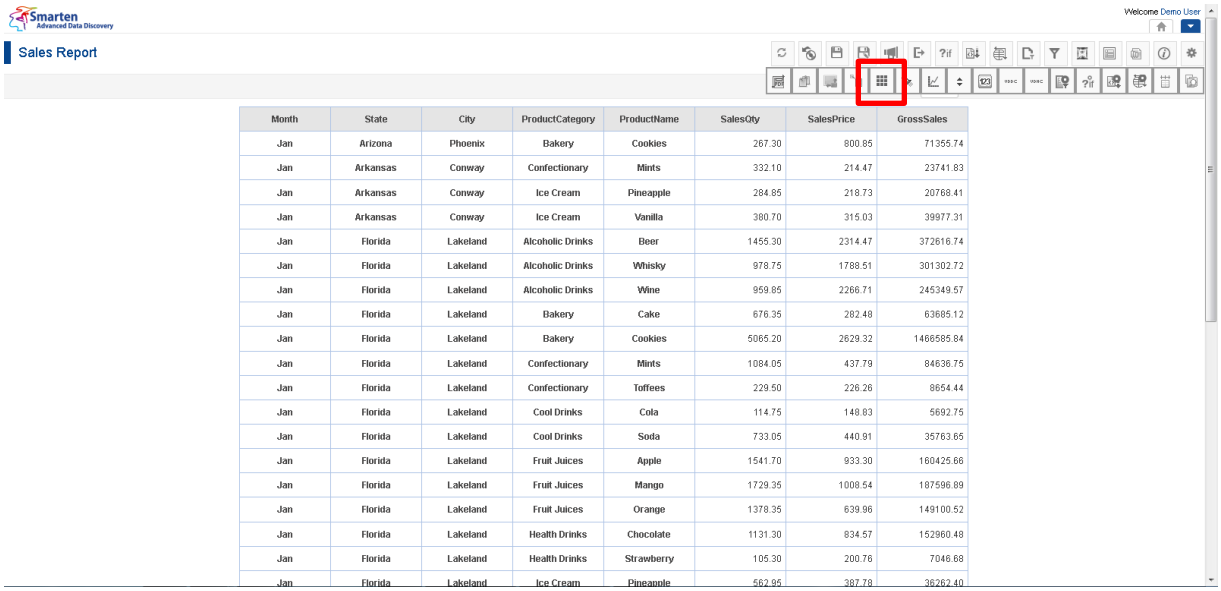
9.3.3 Drill through

You can use the drill through operation on tabular to retrieve detailed row-level and transaction-level data from cubes. You can access the underlying transactional or row-level view of selected tabular columns, row, or cell. For example, performing the drill through operation on the cell for state Arkansas, year 2014 displays all the row-level records that contribute to the sales of state Arkansas for year 2014.

9.3.3.1 Performing the drill through operation

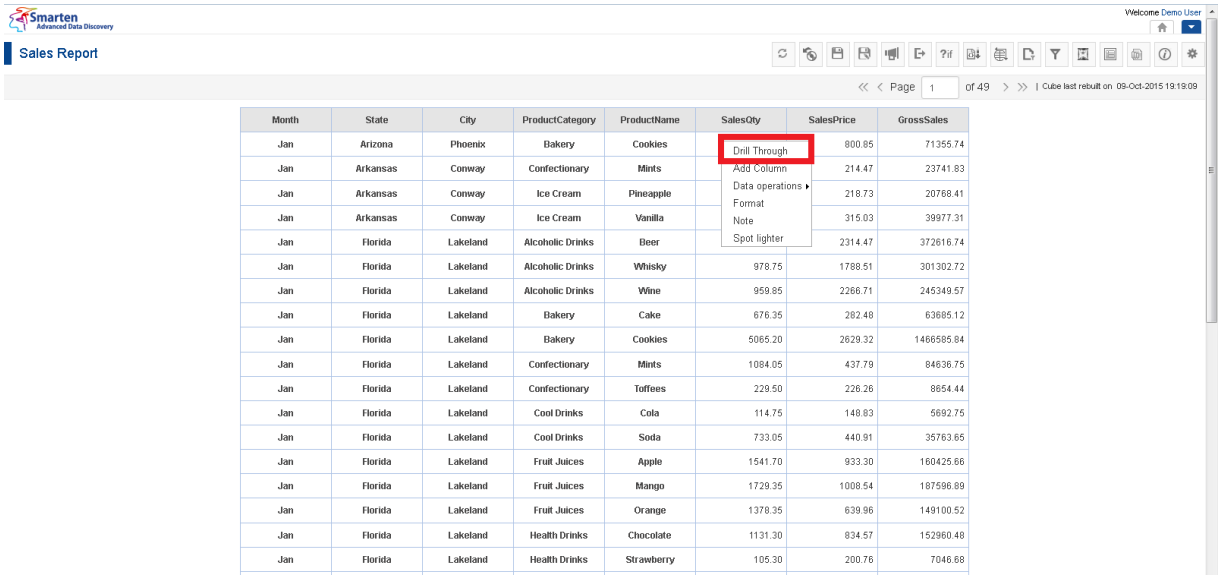
Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. You can perform drill through operation from the Tabular Toolbar.
   Or
   In the tabular, right-click on a specific cell.



Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
Jan	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68
Jan	Florida	Lakeland	Ice Cream	Pineapple	562.95	387.78	36262.40

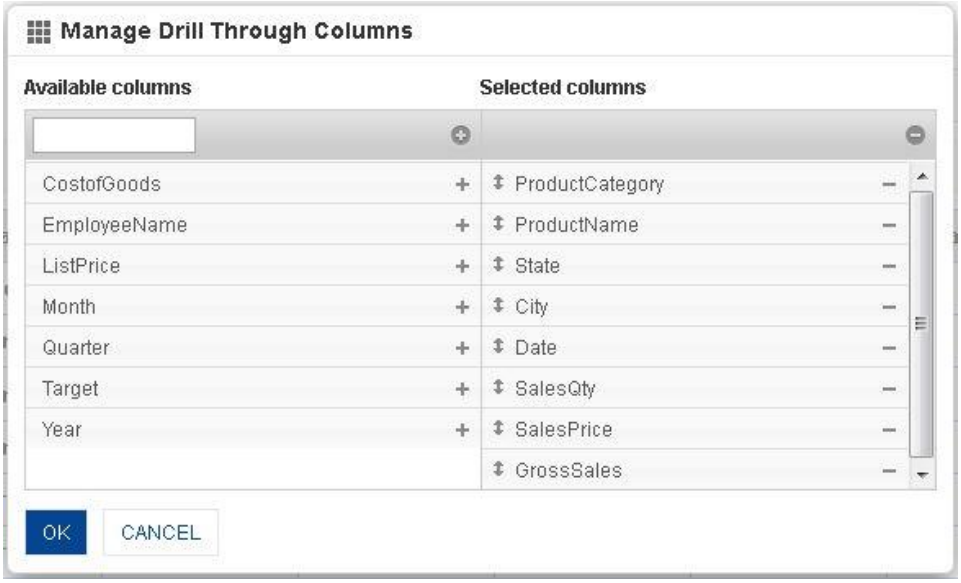
DRILL THROUGH OPERATION FROM TOOLBAR



Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies		800.85	71355.74
Jan	Arkansas	Conway	Confectionary	Mints		214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	Pineapple		218.73	20768.41
Jan	Arkansas	Conway	Ice Cream	Vanilla		315.03	39977.31
Jan	Florida	Lakeland	Alcoholic Drinks	Beer		2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68

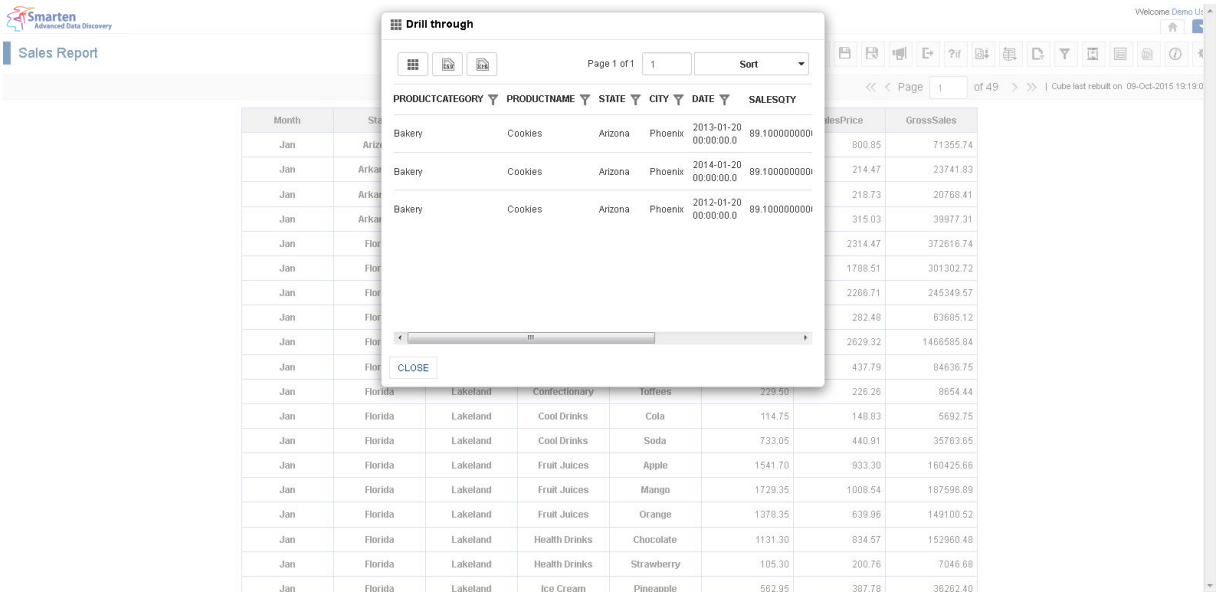
DRILL THROUGH OPERATION FROM TABULAR

The system displays the **Manage Drill through Columns** dialog box if columns are not selected for drill through earlier. If drill through columns are selected earlier, the system will straightaway open drill through view.



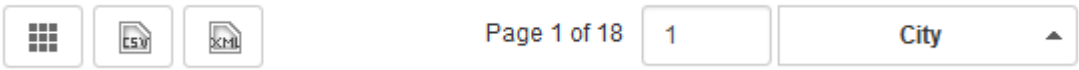
MANAGE DRILL THROUGH COLUMNS

3. On the **Manage Drill through Columns** screen, drag and drop the columns from the **Available Columns** section to the **Selected Columns** section. You can set the order of the selected columns by moving up and down the columns from **Selected Columns** section.



DRILL THROUGH DATA

4. Click **OK**.
   The system displays the drill through screen with all records for the selected cell.



TABULAR: DRILL THROUGH DIALOG OPTIONS

Icon	Icon name
	Manage drill through columns
	CSV export

Icon	Icon name
XML	XML export
Page 1 of 18 1	Page navigation
City	Sorting on column

TABULAR: DRILL THROUGH DIALOG OPTIONS

Reference: **Concept Manual > Analytic Functions > Drill Through**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

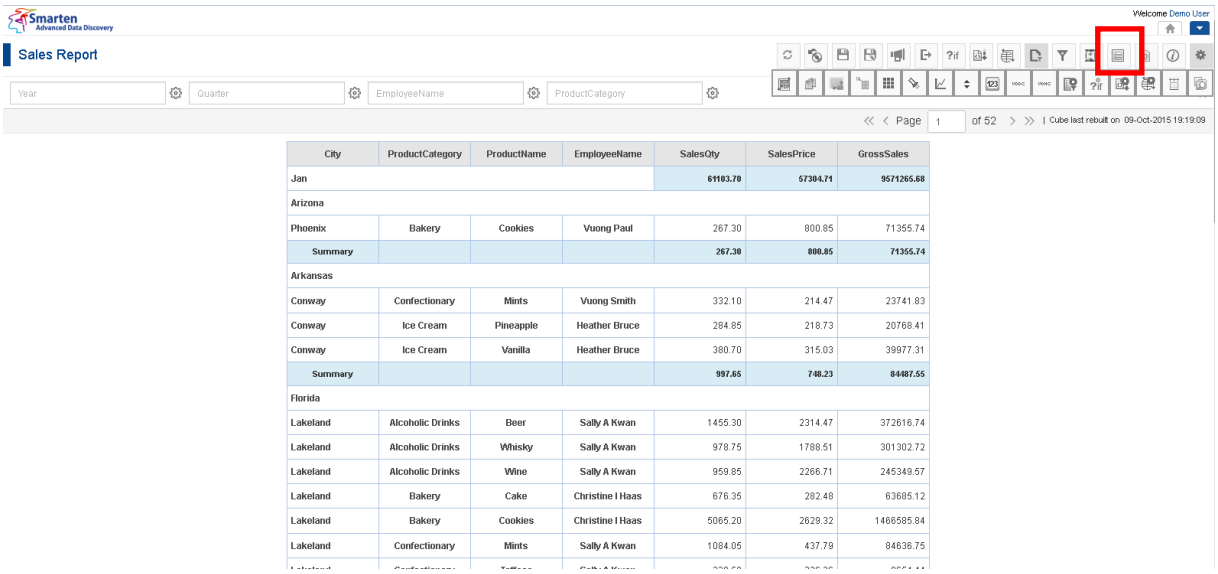
9.3.4 Retrieval parameters

By default, Smarten tabular objects are loaded with full data from the cube. To see tabular objects with filtered views, retrieval parameters are required. These are run-time parameters for analysing the tabular objects. You can select retrieval parameters for dimensions.

9.3.4.1 Creating & Managing Retrieval parameters

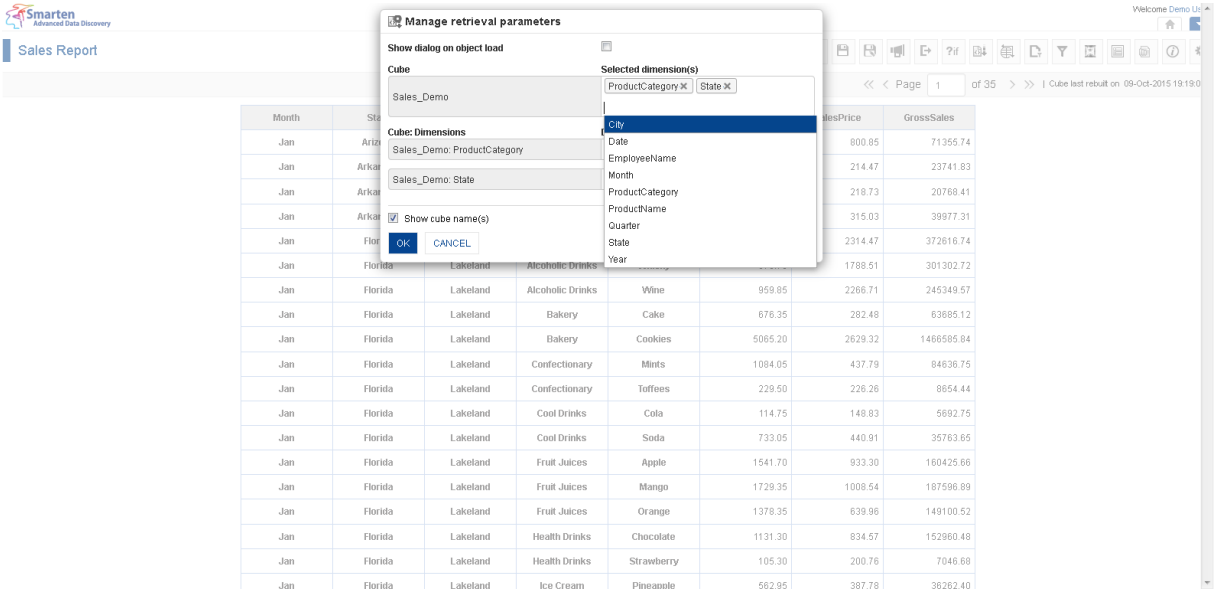
Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage retrieval parameters.**
   The system displays the **Manage retrieval parameters** dialog box.



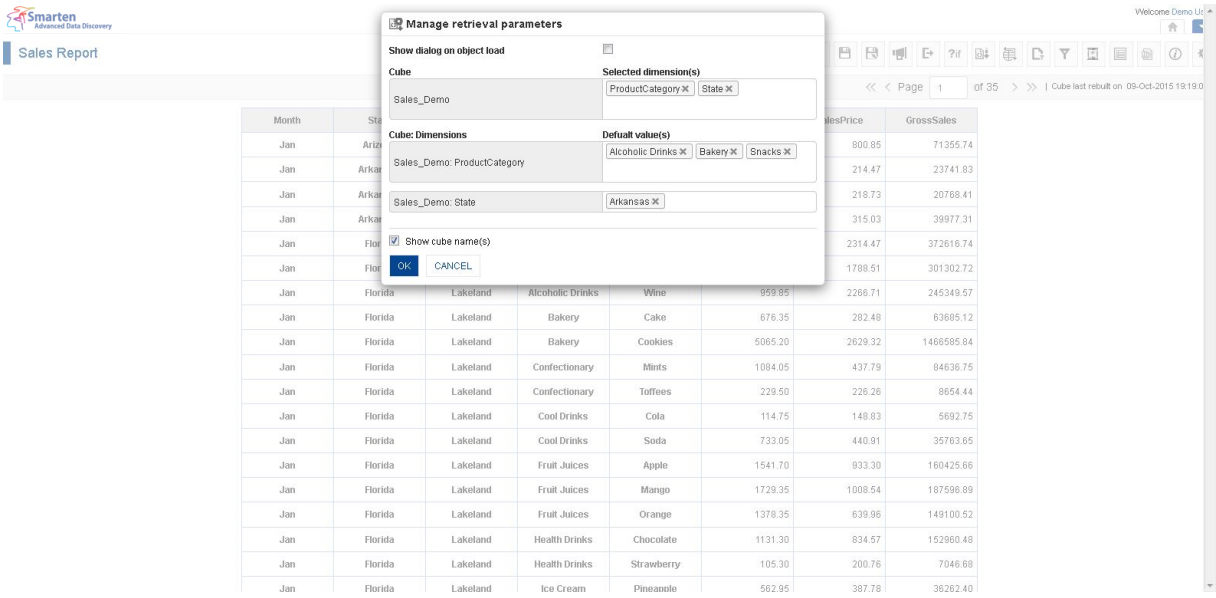
City	ProductCategory	ProductName	EmployeeName	SalesQty	SalesPrice	GrossSales
Jan				61103.70	57304.71	9571265.68
Arizona						
Phoenix	Bakery	Cookies	Vuong Paul	267.30	800.85	71355.74
Summary				267.30	800.85	71355.74
Arkansas						
Conway	Confectionary	Mints	Vuong Smith	332.10	214.47	23741.83
Conway	Ice Cream	Pineapple	Heather Bruce	284.85	218.73	20768.41
Conway	Ice Cream	Vanilla	Heather Bruce	380.70	315.03	39977.31
Summary				997.65	748.23	84487.55
Florida						
Lakeland	Alcoholic Drinks	Beer	Sally A Kwan	1455.30	2314.47	372616.74
Lakeland	Alcoholic Drinks	Whisky	Sally A Kwan	978.75	1788.51	301302.72
Lakeland	Alcoholic Drinks	Wine	Sally A Kwan	959.85	2266.71	245349.57
Lakeland	Bakery	Cake	Christine I Haas	676.35	282.48	63685.12
Lakeland	Bakery	Cookies	Christine I Haas	5065.20	2629.32	1466585.84
Lakeland	Confectionary	Mints	Sally A Kwan	1084.05	437.79	84636.75

CREATING RETRIEVAL PARAMETERS



MANAGE RETRIEVAL PARAMETERS

4. In the **Show dialog on object load** field, check the checkbox to display retrieval parameters dialog on object load
5. In the **Selected dimension(s)** field, select the dimensions from the drop-down list.
   You can remove retrieval parameters by deleting dimensions from the selected dimensions.
6. In the **Default value(s)** field, select the value from the drop-down list.
7. Click **OK** to save settings.



SETTING DEFAULT VALUE FOR RETRIEVAL PARAMETERS

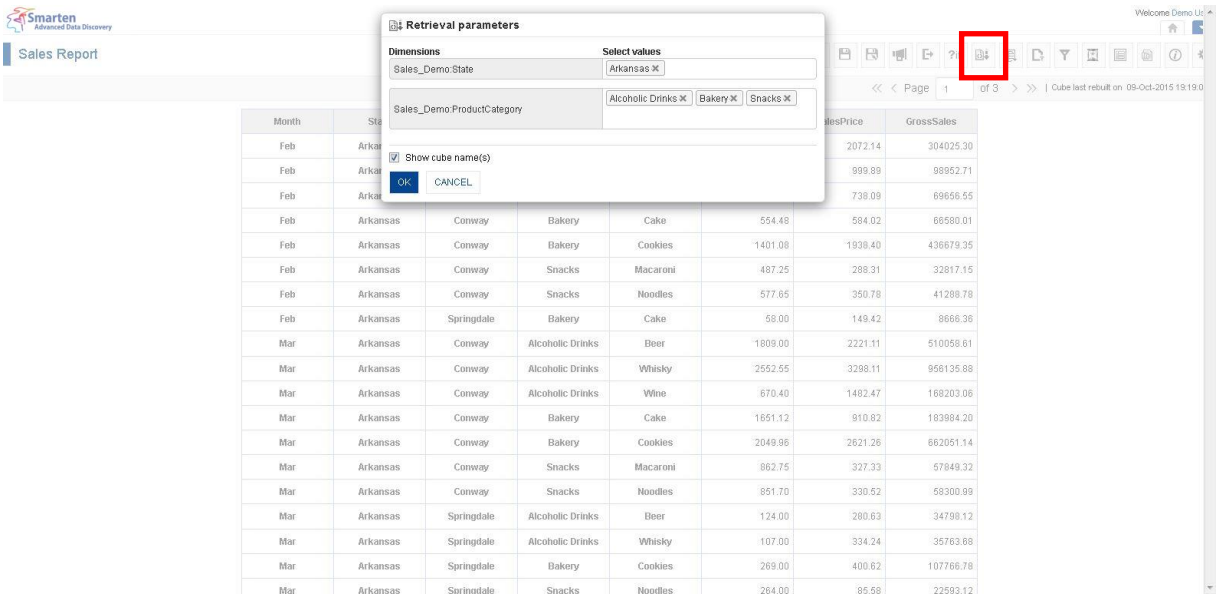
Reference: **Concept Manual > Filters and Expressions > Retrieval Parameters**

9.3.4.2 Applying Retrieval parameters

After creating retrieval parameters, you can filter the tabular by applying the retrieval parameter.

Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the Tabular Toolbar, click **Retrieval parameters**.
   The system displays a list of retrieval parameters created through **Manage retrieval parameters.**
3. Select the value of retrieval parameters as needed.
4. Click **OK**.



APPLYING RETRIEVAL PARAMETERS

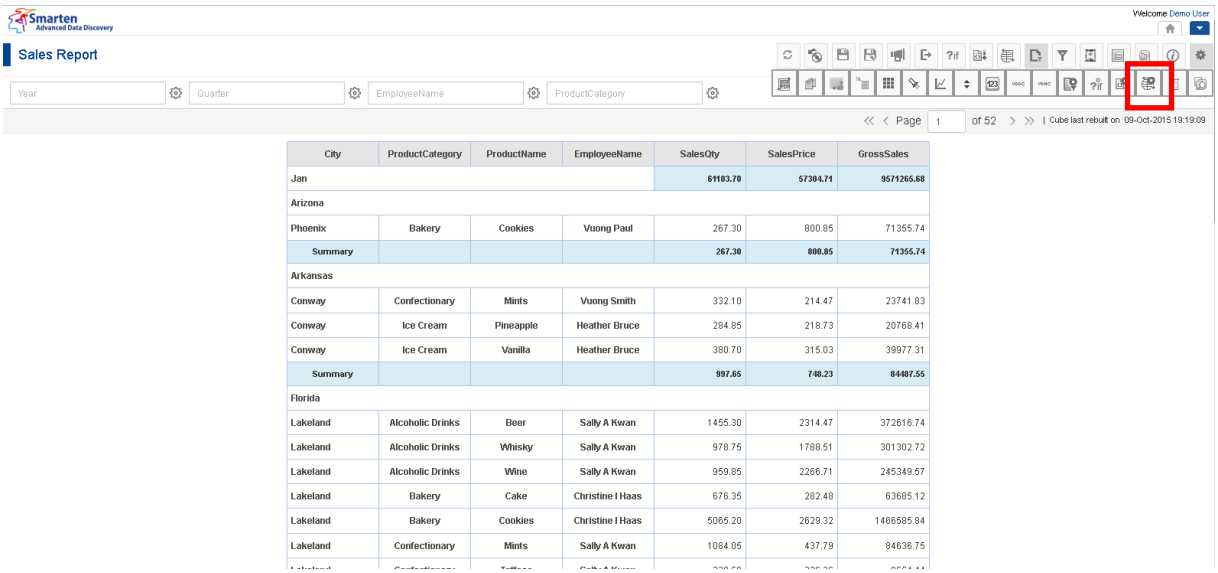
9.3.5 Global Variables

Variables that can be globally accessed with different expressions and filters for objects within Smarten are known as Global variables.

9.3.5.1 Creating Global variables

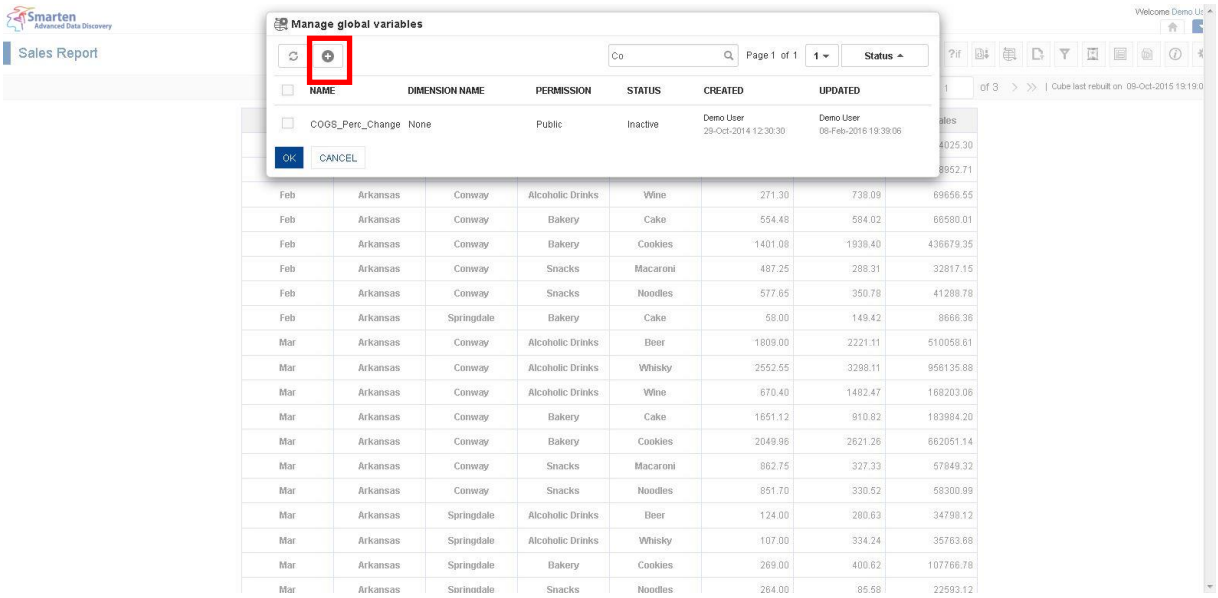
Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the Tabular Toolbar, click **Manage global variables**.
   The system displays the **Manage global variables** dialog box.



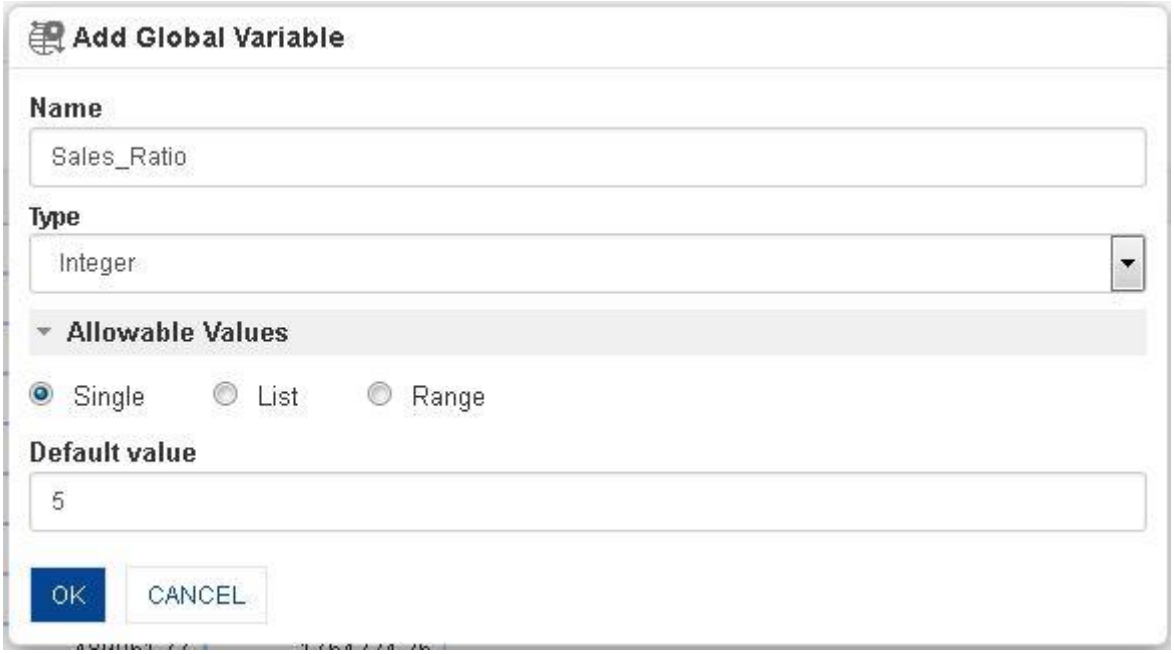
City	ProductCategory	ProductName	EmployeeName	SalesQty	SalesPrice	GrossSales
Jan				61103.70	57304.71	9571265.68
Arizona						
Phoenix	Bakery	Cookies	Vuong Paul	267.30	800.85	71355.74
Summary				267.30	800.85	71355.74
Arkansas						
Conway	Confectionary	Mints	Vuong Smith	332.10	214.47	23741.93
Conway	Ice Cream	Pineapple	Heather Bruce	284.85	218.73	20768.41
Conway	Ice Cream	Vanilla	Heather Bruce	380.70	315.03	39977.31
Summary				997.65	748.23	84487.55
Florida						
Lakeland	Alcoholic Drinks	Beer	Sally A Kwan	1455.30	2314.47	372616.74
Lakeland	Alcoholic Drinks	Whisky	Sally A Kwan	978.75	1788.51	301302.72
Lakeland	Alcoholic Drinks	Wine	Sally A Kwan	959.85	2266.71	245349.57
Lakeland	Bakery	Cake	Christine I Haas	676.35	282.48	63685.12
Lakeland	Bakery	Cookies	Christine I Haas	5065.20	2629.32	1466585.84
Lakeland	Confectionary	Mints	Sally A Kwan	1084.05	437.79	84636.75

GLOBAL VARIABLES



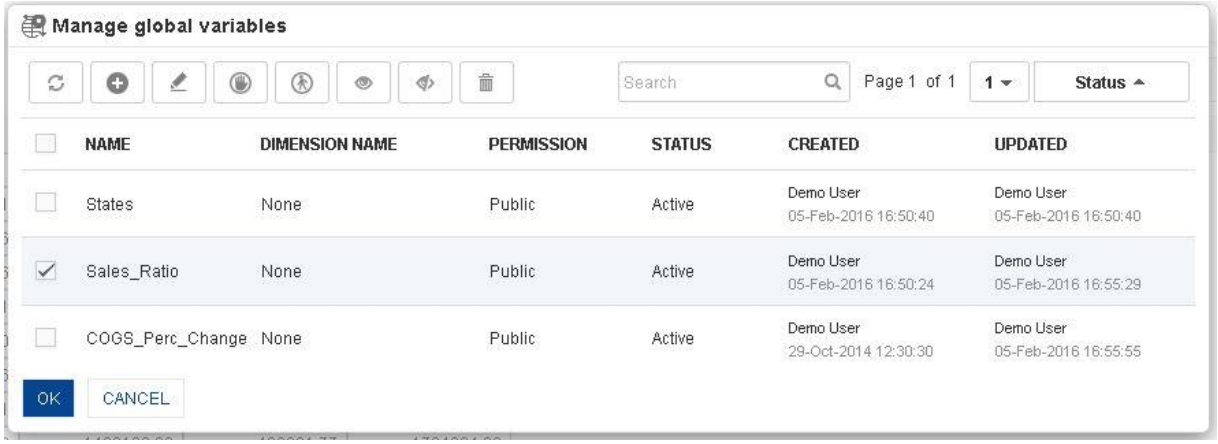
ADDING GLOBAL VARIABLES

3. In the **Manage global variables** dialog box, click the **Add** icon.
   The system displays the **Add Global Variable** dialog box.



REPORT: ADD NEW GLOBAL VARIABLE

4. In the **Name** field, enter the name of global variable.
5. In the **Type** field, select a type from the drop-down list.
6. In the **Allowable Values** field, select **Single** radio button option
7. In the **Default value** field, enter a value.
8. Click **OK.**
   The system displays the **Manage global variables list** with all the global variables created.
9. Click **OK.**



LIST OF GLOBAL VARIABLES

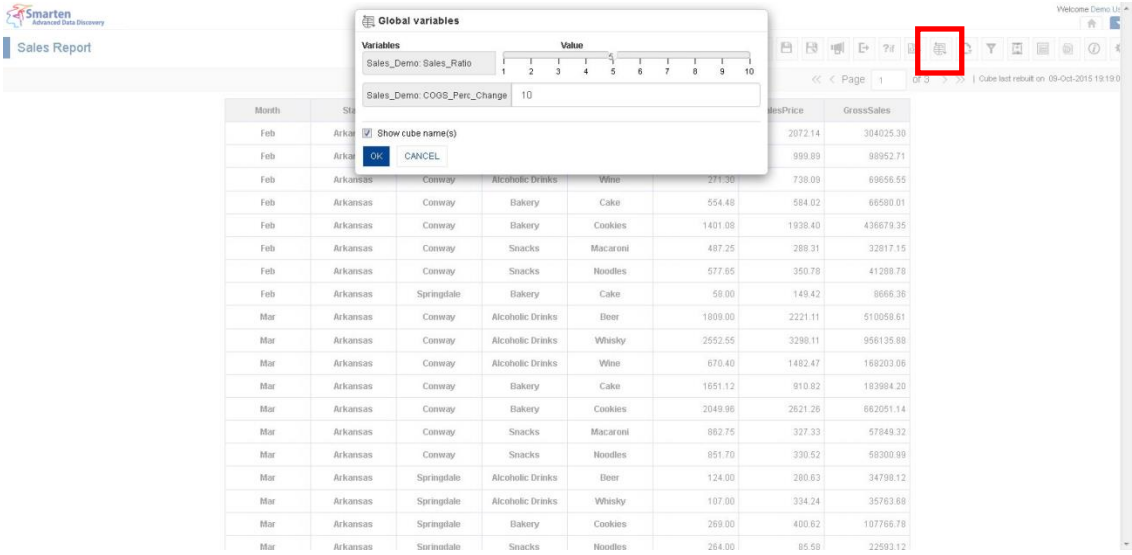
Reference: **Concept Manual > Filters and Expressions > Global Variables**

Reference: **User Manual > Working with Crosstab > Global Variables**

9.3.5.2 Applying Global variables

Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the Tabular Toolbar, click **Global variables**.
   The system displays a list of global variables created through **Manage global variables.**
3. Select the value of global variables as needed.
4. Click **OK**.



APPLYING GLOBAL VARIABLES

9.3.5.3 Create & Manage Templates

Global variable templates for tabular can be shared with other Smarten modules, such as Crosstab and Graphs.

Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage global variables.**
   The system displays the **Manage global variables** dialog box. Select a checkbox in front of a global variable name.
   The system displays a toolbar for managing global variables template.

GLOBAL VARIABLES—CREATE AND MANAGE GLOBAL VARIABLES TEMPLATE TOOLBAR

GLOBAL VARIABLES: CREATE AND MANAGE GLOBAL VARIABLES TEMPLATE TOOLBAR

Icon	Icon name
	Refresh
	Add
	Edit
	Private
	Public
	Active
	Inactive
	Delete

GLOBAL VARIABLES: CREATE AND MANAGE GLOBAL VARIABLES TEMPLATE TOOLBAR OPTIONS

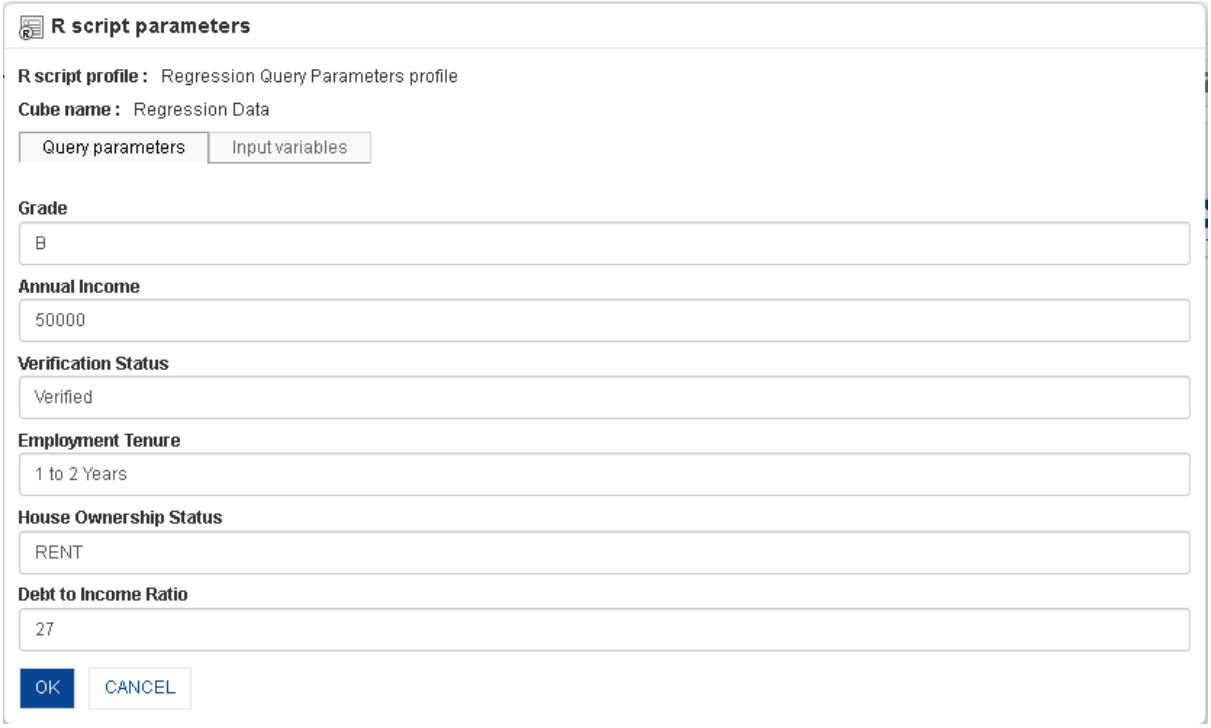
> Note:
> Templates can be edited or deleted only by creator of the template or the administrator.

9.3.6 R script parameters

By default, Real-time Tabular objects are loaded with data stored in the Real-time R cube with default Query parameters applied. You can regenerate the real-time object with different output by entering different values of Query parameters from the object itself. You can change the values of Query parameters in run-time through the “R script parameters” icon in the toolbar of the object. As a result, the R script will be re-executed with new values of Query parameters, and the real-time R cube will be rebuilt to store the new output, which will, in turn, be instantly reflected in the real-time object.

Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the Tabular Toolbar, click **R script parameters**.
   The system displays the **R script parameters** dialog box.



R SCRIPT PARAMETERS

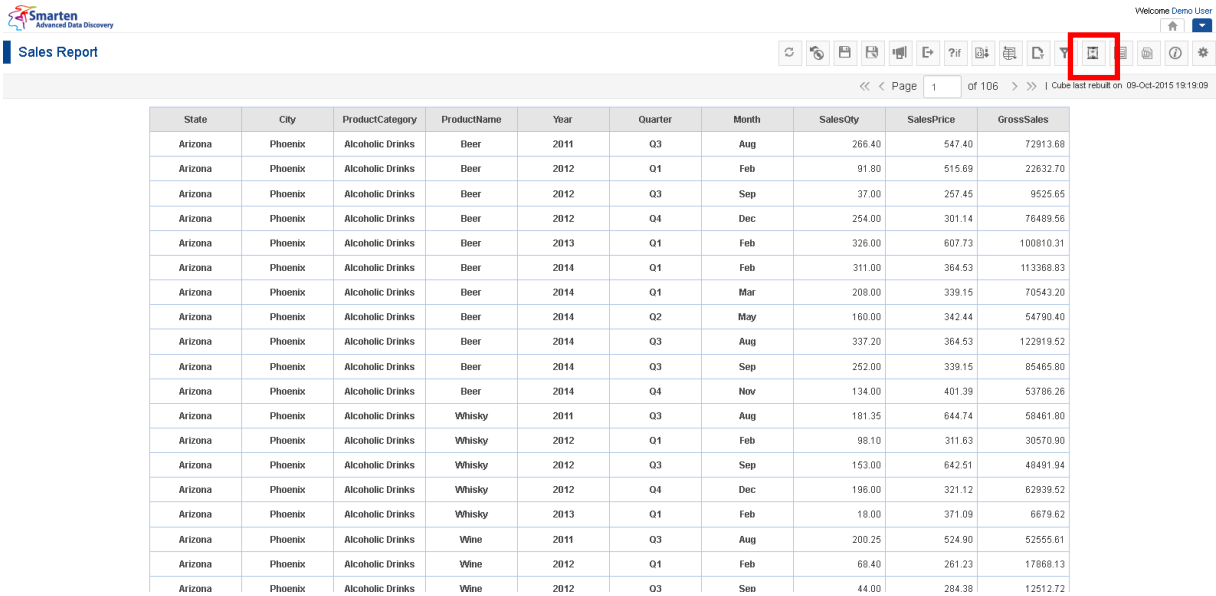
3. Enter new query parameters values.
4. Click **OK**.

Reference: **Working with R Integration**

> Note:
> R script parameters icon will be displayed only when the tabular is a Real-time object created from a Real-time R cube.

9.3.7 Time series

Time series helps you understand the relationship and performance of dimensions and measures over the period of time. Using the time series filtering options in Smarten—absolute, relative, or range time series filtering—you can quickly analyse data across financial and calendar years and drill down up to half years, quarters, months, weeks, days, and dates.

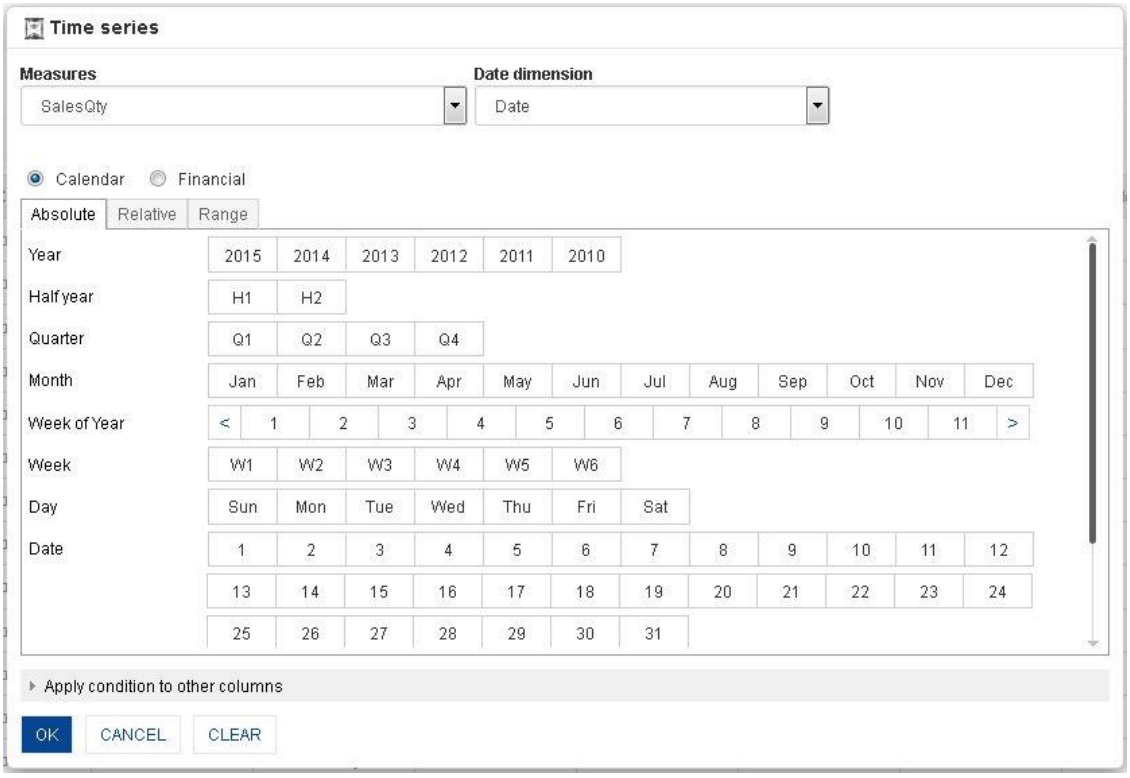


State	City	ProductCategory	ProductName	Year	Quarter	Month	SalesQty	SalesPrice	GrossSales
Arizona	Phoenix	Alcoholic Drinks	Beer	2011	Q3	Aug	266.40	547.40	72913.68
Arizona	Phoenix	Alcoholic Drinks	Beer	2012	Q1	Feb	91.80	515.69	22632.70
Arizona	Phoenix	Alcoholic Drinks	Beer	2012	Q3	Sep	37.00	257.45	9525.65
Arizona	Phoenix	Alcoholic Drinks	Beer	2012	Q4	Dec	254.00	301.14	76489.56
Arizona	Phoenix	Alcoholic Drinks	Beer	2013	Q1	Feb	326.00	607.73	100810.31
Arizona	Phoenix	Alcoholic Drinks	Beer	2014	Q1	Feb	311.00	364.53	113368.83
Arizona	Phoenix	Alcoholic Drinks	Beer	2014	Q1	Mar	208.00	339.15	70543.20
Arizona	Phoenix	Alcoholic Drinks	Beer	2014	Q2	May	160.00	342.44	54790.40
Arizona	Phoenix	Alcoholic Drinks	Beer	2014	Q3	Aug	337.20	364.53	122919.52
Arizona	Phoenix	Alcoholic Drinks	Beer	2014	Q3	Sep	252.00	339.15	85485.80
Arizona	Phoenix	Alcoholic Drinks	Beer	2014	Q4	Nov	134.00	401.39	53786.26
Arizona	Phoenix	Alcoholic Drinks	Whisky	2011	Q3	Aug	181.35	644.74	58461.80
Arizona	Phoenix	Alcoholic Drinks	Whisky	2012	Q1	Feb	98.10	311.63	30570.90
Arizona	Phoenix	Alcoholic Drinks	Whisky	2012	Q3	Sep	153.00	642.51	48491.94
Arizona	Phoenix	Alcoholic Drinks	Whisky	2012	Q4	Dec	196.00	321.12	62939.52
Arizona	Phoenix	Alcoholic Drinks	Whisky	2013	Q1	Feb	18.00	371.09	6679.62
Arizona	Phoenix	Alcoholic Drinks	Wine	2011	Q3	Aug	200.25	524.90	52555.61
Arizona	Phoenix	Alcoholic Drinks	Wine	2012	Q1	Feb	68.40	261.23	17868.13
Arizona	Phoenix	Alcoholic Drinks	Wine	2012	Q3	Sep	44.00	284.38	12512.72

TABULAR: TIME SERIES ICON

Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the Tabular Toolbar, click **Time series.**
   The system displays the **Time series** dialog box.

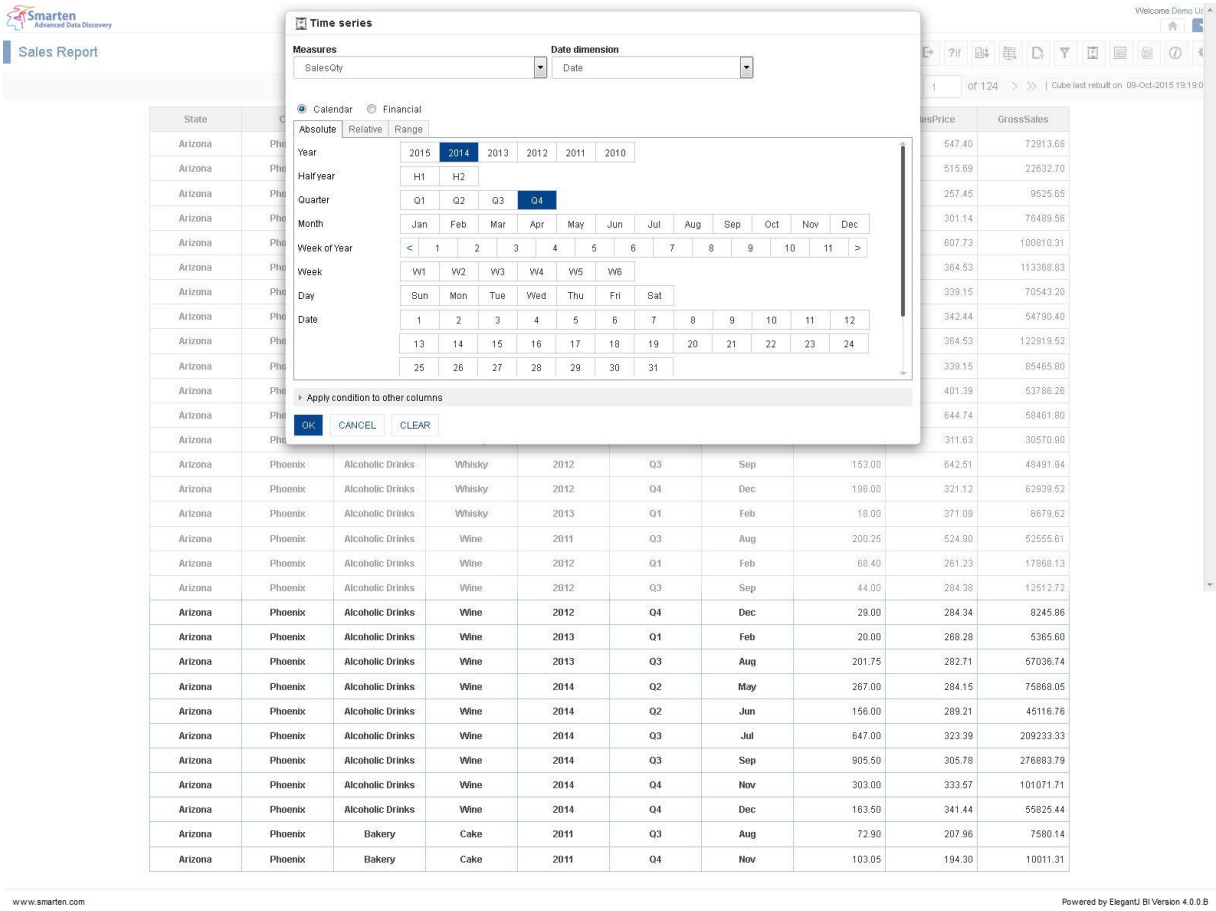


TIME SERIES FILTER DIALOG

9.3.7.1 Absolute Time Series Filter

The Absolute filter option is used to filter value of a measure on a particular year or half year or quarter or month or week or day or date. It has no dependency or relevance to the current date.

For example, to view tabular analysis for Q2 (second quarter) of year 2014, use the absolute time series filtering option.



TABULAR: TIME SERIES: ABSOLUTE FILTER

Smarten Advanced Data Discovery

Welcome Demo User

Sales Report

Page 1 of 9 | Cube last rebuilt on 09-Oct-2015 19:19:09

State	City	ProductCategory	ProductName	Year	Quarter	Month	SalesQty	SalesPrice	GrossSales
Arizona	Phoenix	Alcoholic Drinks	Beer	2014	Q4	Nov	134.00	401.39	53786.26
Arizona	Phoenix	Alcoholic Drinks	Wine	2014	Q4	Nov	303.00	333.57	101071.71
Arizona	Phoenix	Alcoholic Drinks	Wine	2014	Q4	Dec	163.50	341.44	55825.44
Arizona	Phoenix	Bakery	Cake	2014	Q4	Dec	659.25	161.43	106422.73
Arizona	Phoenix	Bakery	Cookies	2014	Q4	Nov	384.75	370.16	142419.06
Arizona	Phoenix	Confectionary	Mints	2014	Q4	Nov	139.50	103.79	14478.71
Arizona	Phoenix	Cool Drinks	Cola	2014	Q4	Dec	149.20	72.46	10811.03
Arizona	Phoenix	Fruit Juices	Apple	2014	Q4	Oct	373.00	138.59	51694.07
Arizona	Phoenix	Fruit Juices	Apple	2014	Q4	Nov	220.80	143.83	31757.66
Arizona	Phoenix	Fruit Juices	Mango	2014	Q4	Oct	151.50	159.26	24127.89
Arizona	Phoenix	Health Drinks	Strawberry	2014	Q4	Dec	216.90	83.54	18120.69
Arizona	Phoenix	Ice Cream	Pineapple	2014	Q4	Oct	224.25	129.93	29136.80
Arizona	Phoenix	Ice Cream	Pineapple	2014	Q4	Nov	258.80	125.54	32489.75
Arizona	Phoenix	Snacks	Macaroni	2014	Q4	Nov	342.50	105.26	36051.55
Arizona	Phoenix	Snacks	Macaroni	2014	Q4	Dec	106.00	95.54	10127.24
Arizona	Phoenix	Snacks	Noodles	2014	Q4	Nov	105.50	97.70	10307.35
Arizona	Phoenix	Tea	Ginger Tea	2014	Q4	Nov	39.06	159.56	6232.41
Arizona	Phoenix	Tea	Ginger Tea	2014	Q4	Dec	37.62	154.53	5813.42
Arizona	Scottsdale	Alcoholic Drinks	Beer	2014	Q4	Nov	233.00	336.78	78469.74
Arizona	Scottsdale	Alcoholic Drinks	Beer	2014	Q4	Dec	655.00	767.60	246650.00
Arizona	Scottsdale	Alcoholic Drinks	Whisky	2014	Q4	Nov	285.00	463.57	132117.45
Arizona	Scottsdale	Alcoholic Drinks	Whisky	2014	Q4	Dec	241.00	505.33	121784.53
Arizona	Scottsdale	Alcoholic Drinks	Wine	2014	Q4	Nov	603.50	700.17	214515.91
Arizona	Scottsdale	Bakery	Cake	2014	Q4	Dec	206.25	146.08	30129.00
Arizona	Scottsdale	Bakery	Cookies	2014	Q4	Nov	423.00	814.26	172587.99
Arizona	Scottsdale	Confectionary	Mints	2014	Q4	Nov	110.62	117.71	13021.67
Arizona	Scottsdale	Confectionary	Toffees	2014	Q4	Dec	324.38	64.96	21071.40
Arizona	Scottsdale	Cool Drinks	Cola	2014	Q4	Oct	208.50	123.20	12916.31
Arizona	Scottsdale	Cool Drinks	Cola	2014	Q4	Dec	151.80	83.38	12657.08
Arizona	Scottsdale	Fruit Juices	Apple	2014	Q4	Oct	1353.00	771.84	208830.77

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TABULAR AFTER APPLYING ABSOLUTE TIME SERIES FILTER

Reference: **Concept Manual > Filters and Expressions > Time Series**

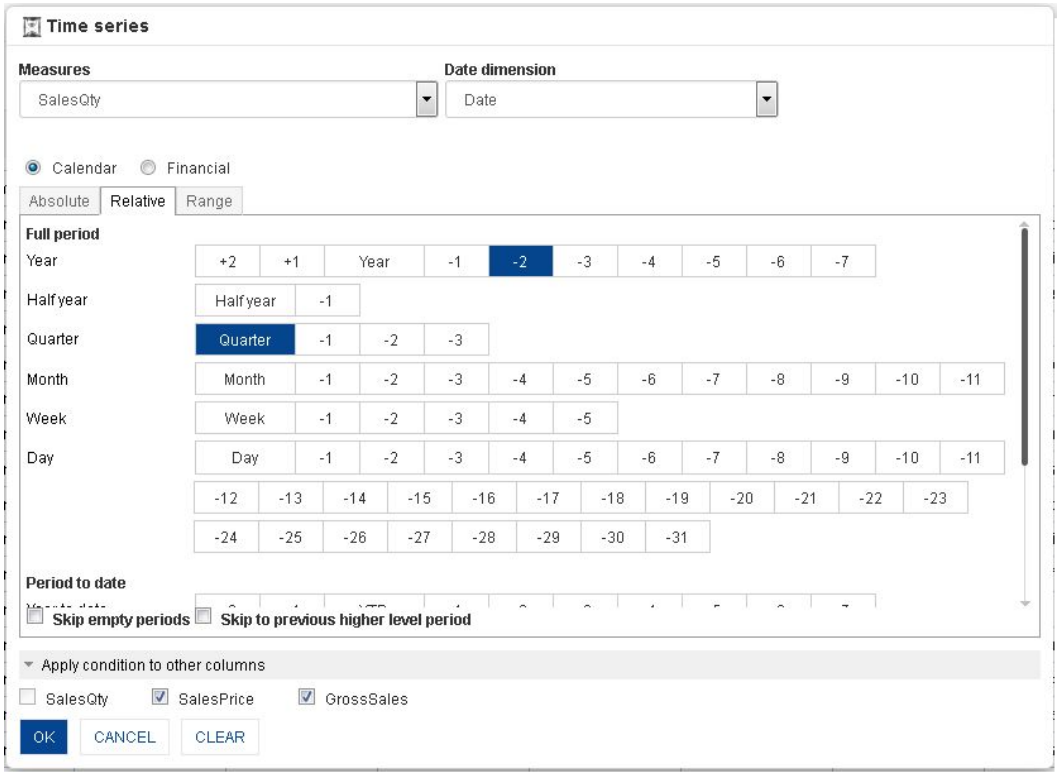
Reference: **User Manual > Working with Crosstab > Time Series**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

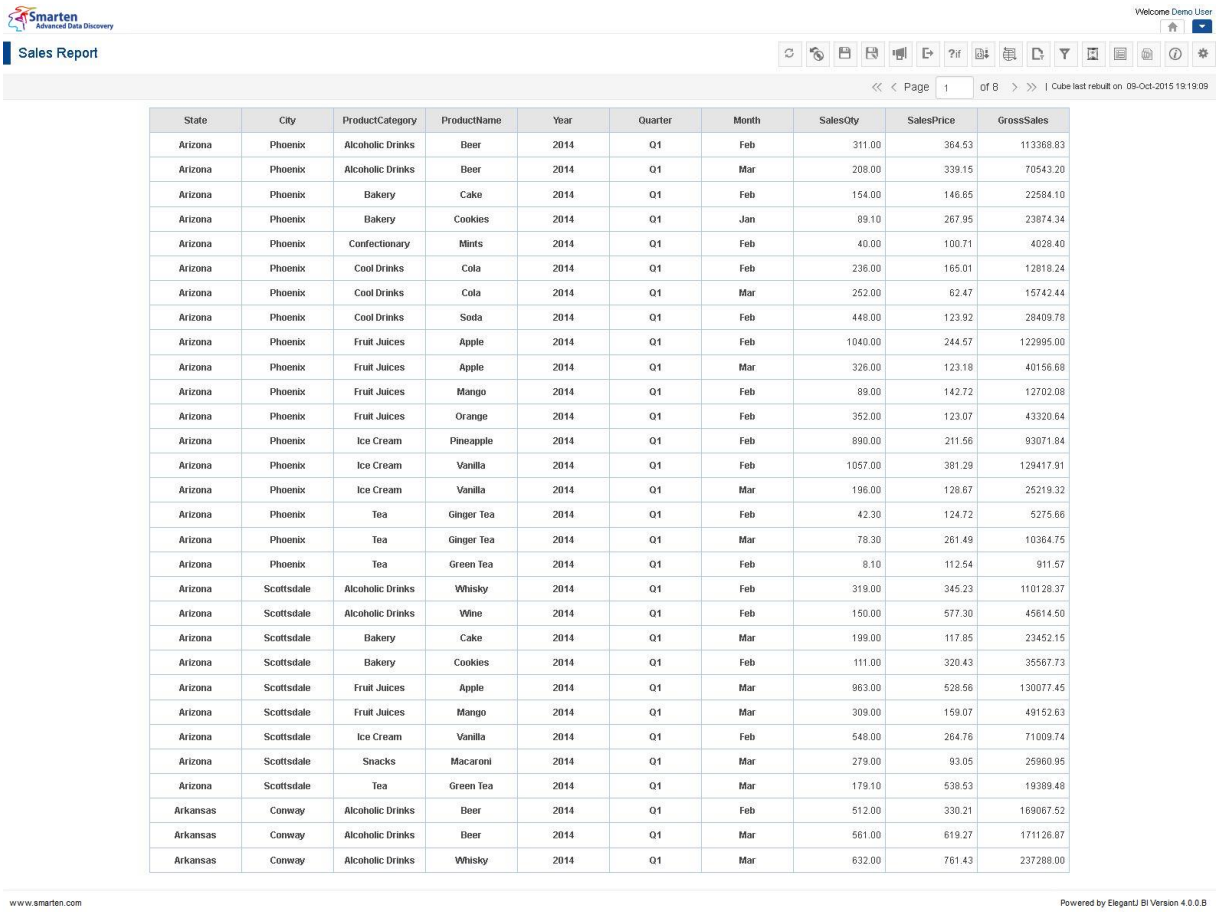
9.3.7.2 Relative Time Series Filter (Full Period)

Filters value of a measure at a particular period relative for the full period. Here the current date value affects definition of time series periods.

For example, to view tabular analysis for the current quarter of year before previous year, use relative filtering.



TABULAR: TIME SERIES: RELATIVE FILTERING



State	City	ProductCategory	ProductName	Year	Quarter	Month	SalesQty	SalesPrice	GrossSales
Arizona	Phoenix	Alcoholic Drinks	Beer	2014	Q1	Feb	311.00	364.53	113368.83
Arizona	Phoenix	Alcoholic Drinks	Beer	2014	Q1	Mar	208.00	339.15	70543.20
Arizona	Phoenix	Bakery	Cake	2014	Q1	Feb	154.00	146.65	22584.10
Arizona	Phoenix	Bakery	Cookies	2014	Q1	Jan	89.10	267.95	23874.34
Arizona	Phoenix	Confectionary	Mints	2014	Q1	Feb	40.00	100.71	4028.40
Arizona	Phoenix	Cool Drinks	Cola	2014	Q1	Feb	236.00	165.01	12818.24
Arizona	Phoenix	Cool Drinks	Cola	2014	Q1	Mar	252.00	62.47	15742.44
Arizona	Phoenix	Cool Drinks	Soda	2014	Q1	Feb	448.00	123.92	28409.78
Arizona	Phoenix	Fruit Juices	Apple	2014	Q1	Feb	1040.00	244.57	122995.00
Arizona	Phoenix	Fruit Juices	Apple	2014	Q1	Mar	326.00	123.18	40156.68
Arizona	Phoenix	Fruit Juices	Mango	2014	Q1	Feb	89.00	142.72	12702.08
Arizona	Phoenix	Fruit Juices	Orange	2014	Q1	Feb	352.00	123.07	43320.64
Arizona	Phoenix	Ice Cream	Pineapple	2014	Q1	Feb	890.00	211.56	93071.84
Arizona	Phoenix	Ice Cream	Vanilla	2014	Q1	Feb	1057.00	381.29	129417.91
Arizona	Phoenix	Ice Cream	Vanilla	2014	Q1	Mar	196.00	128.67	25219.32
Arizona	Phoenix	Tea	Ginger Tea	2014	Q1	Feb	42.30	124.72	5275.66
Arizona	Phoenix	Tea	Ginger Tea	2014	Q1	Mar	78.30	261.49	10364.75
Arizona	Phoenix	Tea	Green Tea	2014	Q1	Feb	8.10	112.54	911.57
Arizona	Scottsdale	Alcoholic Drinks	Whisky	2014	Q1	Feb	319.00	345.23	110128.37
Arizona	Scottsdale	Alcoholic Drinks	Wine	2014	Q1	Feb	150.00	577.30	45614.50
Arizona	Scottsdale	Bakery	Cake	2014	Q1	Mar	199.00	117.85	23452.15
Arizona	Scottsdale	Bakery	Cookies	2014	Q1	Feb	111.00	320.43	35567.73
Arizona	Scottsdale	Fruit Juices	Apple	2014	Q1	Mar	963.00	528.56	130077.45
Arizona	Scottsdale	Fruit Juices	Mango	2014	Q1	Mar	309.00	159.07	49152.63
Arizona	Scottsdale	Ice Cream	Vanilla	2014	Q1	Feb	548.00	264.76	71009.74
Arizona	Scottsdale	Snacks	Macaroni	2014	Q1	Mar	279.00	93.05	25960.95
Arizona	Scottsdale	Tea	Green Tea	2014	Q1	Mar	179.10	538.53	19389.48
Arkansas	Conway	Alcoholic Drinks	Beer	2014	Q1	Feb	512.00	330.21	169067.52
Arkansas	Conway	Alcoholic Drinks	Beer	2014	Q1	Mar	561.00	619.27	171126.87
Arkansas	Conway	Alcoholic Drinks	Whisky	2014	Q1	Mar	632.00	761.43	237288.00

TABULAR AFTER APPLYING RELATIVE TIME SERIES FILTER USING FULL PERIOD

Reference: **Concept Manual > Filters and Expressions > Time Series**

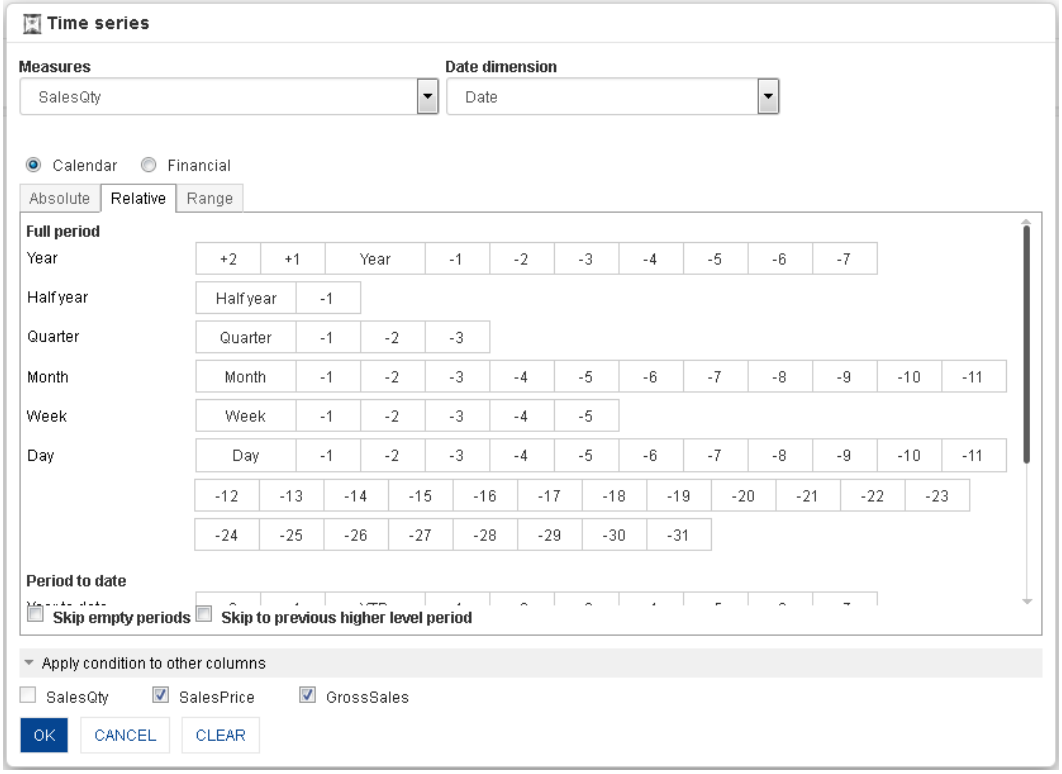
Reference: **User Manual > Working with Crosstab > Time Series**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

9.3.7.3 Relative Time Series Filter (period to date)

Filters value of a measure at a particular period relative to current date, up to the current date. Here the current value affects definition of time series periods.

For example, to view tabular analysis for current quarter of year before previous year up to current date, you can use relative filtering (period to date).



TABULAR: TIME SERIES: RELATIVE FILTERING: PERIOD TO DATE

Smarten Advanced Data Discovery

Welcome Demo User

Sales Report

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State	City	ProductCategory	ProductName	Year	Quarter	Month	SalesQty	SalesPrice	GrossSales
Arizona	Phoenix	Bakery	Cookies	2014	Q1	Jan	89.10	267.95	23874.34
Arizona	Phoenix	Cool Drinks	Cola	2014	Q1	Feb	54.00	57.47	3103.38
Arizona	Scottsdale	Alcoholic Drinks	Whisky	2014	Q1	Feb	319.00	345.23	110128.37
Arizona	Scottsdale	Ice Cream	Vanilla	2014	Q1	Feb	109.00	137.03	14936.27
Arkansas	Conway	Confectionary	Mints	2014	Q1	Jan	110.70	72.49	8024.64
Arkansas	Conway	Fruit Juices	Mango	2014	Q1	Feb	215.00	305.03	32873.85
Arkansas	Conway	Ice Cream	Pineapple	2014	Q1	Jan	94.95	73.91	7017.75
Arkansas	Conway	Ice Cream	Pineapple	2014	Q1	Feb	206.00	95.80	19734.80
Arkansas	Conway	Ice Cream	Vanilla	2014	Q1	Jan	126.90	106.01	13452.67
Arkansas	Springdale	Bakery	Cake	2014	Q1	Feb	58.00	149.42	8666.36
Arkansas	Springdale	Confectionary	Mints	2014	Q1	Feb	94.00	92.57	8701.58
Florida	Lakeland	Alcoholic Drinks	Beer	2014	Q1	Jan	485.10	774.49	124690.68
Florida	Lakeland	Alcoholic Drinks	Whisky	2014	Q1	Jan	326.25	598.17	100760.49
Florida	Lakeland	Alcoholic Drinks	Wine	2014	Q1	Jan	319.95	758.57	82103.14
Florida	Lakeland	Bakery	Cake	2014	Q1	Jan	225.45	95.16	21453.82
Florida	Lakeland	Bakery	Cookies	2014	Q1	Jan	1688.40	879.44	490550.35
Florida	Lakeland	Bakery	Cookies	2014	Q1	Feb	442.00	401.43	177432.06
Florida	Lakeland	Confectionary	Mints	2014	Q1	Jan	361.35	147.93	28573.60
Florida	Lakeland	Confectionary	Toffees	2014	Q1	Jan	76.50	77.42	2961.32
Florida	Lakeland	Confectionary	Toffees	2014	Q1	Feb	80.00	52.04	4163.20
Florida	Lakeland	Cool Drinks	Cola	2014	Q1	Jan	38.25	50.61	1935.83
Florida	Lakeland	Cool Drinks	Soda	2014	Q1	Jan	244.35	149.97	12165.57
Florida	Lakeland	Fruit Juices	Apple	2014	Q1	Jan	513.90	314.10	53989.12
Florida	Lakeland	Fruit Juices	Mango	2014	Q1	Jan	576.45	339.18	63108.75
Florida	Lakeland	Fruit Juices	Orange	2014	Q1	Jan	459.45	215.32	50159.62
Florida	Lakeland	Health Drinks	Chocolate	2014	Q1	Jan	377.10	280.19	51363.93
Florida	Lakeland	Health Drinks	Strawberry	2014	Q1	Jan	35.10	67.92	2383.99
Florida	Lakeland	Ice Cream	Pineapple	2014	Q1	Jan	187.65	131.26	12275.12
Florida	Lakeland	Ice Cream	Vanilla	2014	Q1	Jan	1045.80	299.21	112908.50
Florida	Lakeland	Snacks	Macaroni	2014	Q1	Jan	89.10	65.86	5868.13

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TABULAR AFTER APPPLYING RELATIVE TIME SERIES FILTER USING PERIOD TO DATE

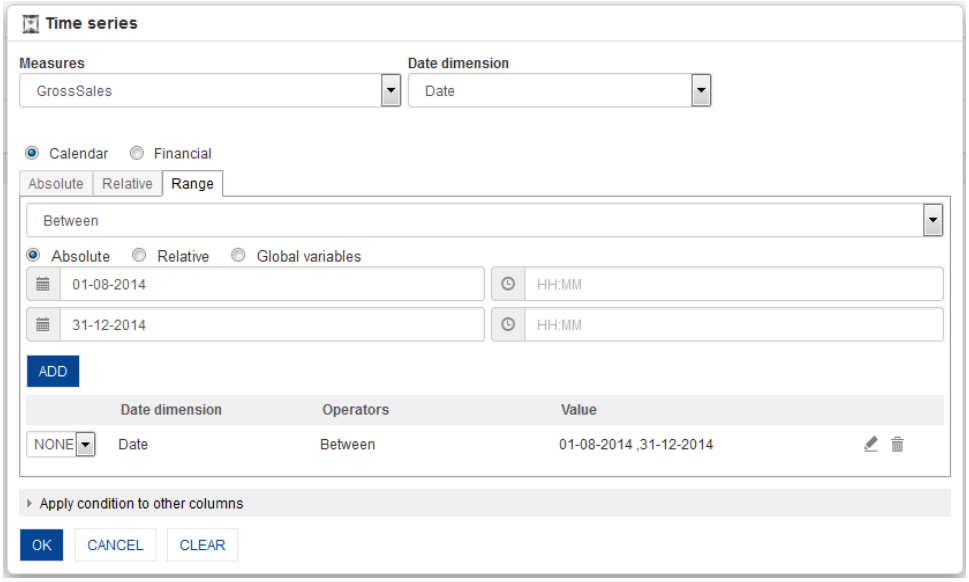
Reference: **Concept Manual > Filters and Expressions > Time Series**

Reference: **User Manual > Working with Crosstab > Time Series**

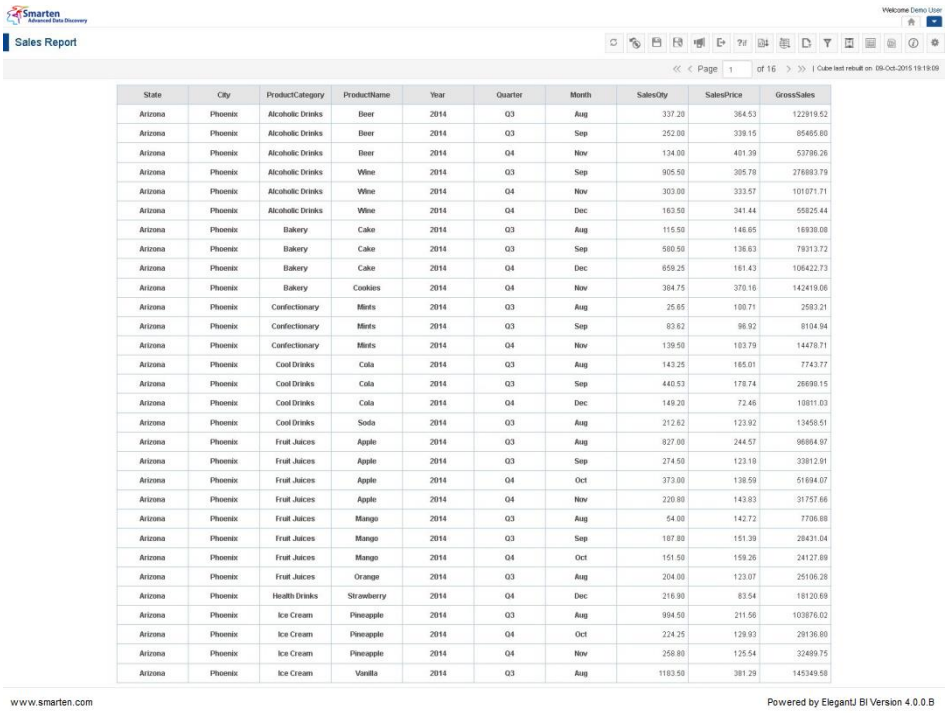
Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

9.3.7.4 Range Time Series Filter

This option is used to filter time based on range and custom periods.
For example, to view tabular analysis for specific period, use range filtering.



TABULAR: TIME SERIES: RANGE FILTERING



State	City	ProductCategory	ProductName	Year	Quarter	Month	SalesQty	SalesPrice	GrossSales
Arizona	Phoenix	Alcoholic Drinks	Beer	2014	Q3	Aug	337.20	364.53	122919.52
Arizona	Phoenix	Alcoholic Drinks	Beer	2014	Q3	Sep	252.00	339.15	85465.80
Arizona	Phoenix	Alcoholic Drinks	Beer	2014	Q4	Nov	134.00	401.39	53786.26
Arizona	Phoenix	Alcoholic Drinks	Wine	2014	Q3	Sep	905.50	305.78	276893.79
Arizona	Phoenix	Alcoholic Drinks	Wine	2014	Q4	Nov	303.00	333.57	101071.71
Arizona	Phoenix	Alcoholic Drinks	Wine	2014	Q4	Dec	163.50	341.44	55825.44
Arizona	Phoenix	Bakery	Cake	2014	Q3	Aug	115.50	146.65	16936.08
Arizona	Phoenix	Bakery	Cake	2014	Q3	Sep	580.50	136.63	79313.72
Arizona	Phoenix	Bakery	Cake	2014	Q4	Dec	659.25	161.43	106422.73
Arizona	Phoenix	Bakery	Cookies	2014	Q4	Nov	384.75	370.16	142419.06
Arizona	Phoenix	Confectionary	Mints	2014	Q3	Aug	25.85	100.71	2593.21
Arizona	Phoenix	Confectionary	Mints	2014	Q3	Sep	83.62	96.92	8104.94
Arizona	Phoenix	Confectionary	Mints	2014	Q4	Nov	139.50	103.79	14478.71
Arizona	Phoenix	Cool Drinks	Cola	2014	Q3	Aug	143.25	165.01	7743.77
Arizona	Phoenix	Cool Drinks	Cola	2014	Q3	Sep	440.53	176.74	26690.15
Arizona	Phoenix	Cool Drinks	Cola	2014	Q4	Dec	149.20	72.46	10811.03
Arizona	Phoenix	Cool Drinks	Soda	2014	Q3	Aug	212.62	123.92	13458.51
Arizona	Phoenix	Fruit Juices	Apple	2014	Q3	Aug	827.00	244.57	96884.97
Arizona	Phoenix	Fruit Juices	Apple	2014	Q3	Sep	274.50	123.18	33812.91
Arizona	Phoenix	Fruit Juices	Apple	2014	Q4	Oct	373.00	138.59	51694.07
Arizona	Phoenix	Fruit Juices	Apple	2014	Q4	Nov	220.80	143.83	31757.66
Arizona	Phoenix	Fruit Juices	Mango	2014	Q3	Aug	54.00	142.72	7706.88
Arizona	Phoenix	Fruit Juices	Mango	2014	Q3	Sep	187.80	151.39	28431.04
Arizona	Phoenix	Fruit Juices	Mango	2014	Q4	Oct	151.50	159.26	24127.89
Arizona	Phoenix	Fruit Juices	Orange	2014	Q3	Aug	204.00	123.07	25106.28
Arizona	Phoenix	Health Drinks	Strawberry	2014	Q4	Dec	216.90	83.54	18120.69
Arizona	Phoenix	Ice Cream	Pineapple	2014	Q3	Aug	994.50	211.56	103876.02
Arizona	Phoenix	Ice Cream	Pineapple	2014	Q4	Oct	224.25	129.93	29136.80
Arizona	Phoenix	Ice Cream	Pineapple	2014	Q4	Nov	258.80	125.54	32489.75
Arizona	Phoenix	Ice Cream	Vanilla	2014	Q3	Aug	1183.50	381.29	145349.58

TABULAR AFTER APPLYING RANGE TIME SERIES FILTER

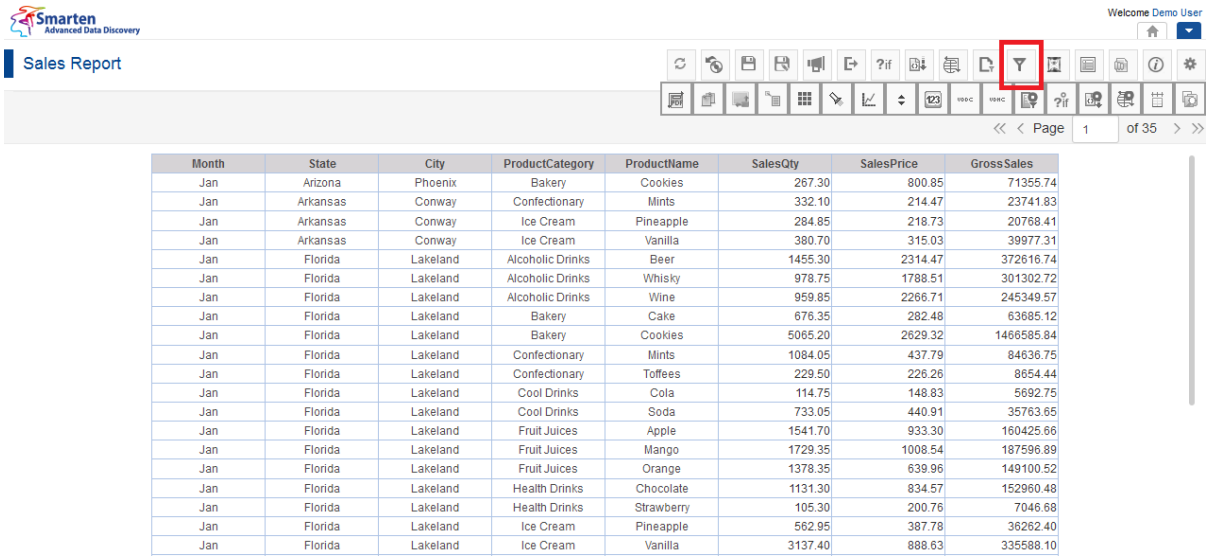
Reference: **Concept Manual > Filters and Expressions > Time Series**

Reference: **User Manual > Working with Crosstab > Time Series**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

9.3.8 Filter

You can use Filters in Smarten tabular analysis to filter based on dimensions and measures in tabular data.

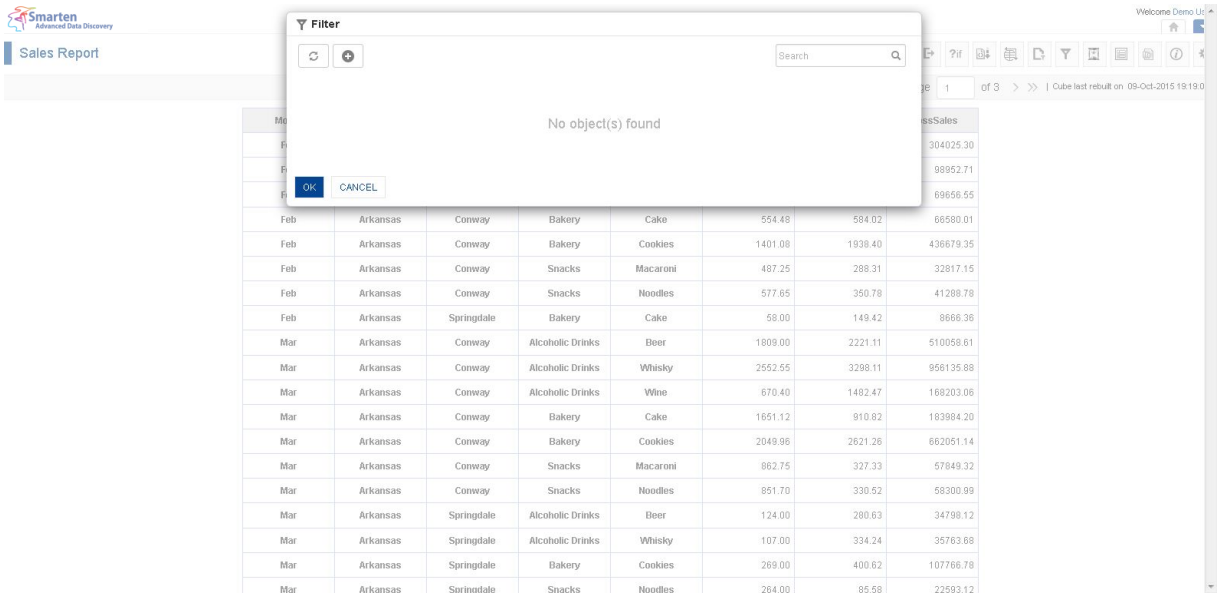


Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
Jan	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68
Jan	Florida	Lakeland	Ice Cream	Pineapple	562.95	387.78	36262.40
Jan	Florida	Lakeland	Ice Cream	Vanilla	3137.40	888.63	335588.10

TABULAR: FILTER ICON TOOLBAR

Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. You can open the **Filter** dialog box from the Tabular Toolbar.
   The system displays the **Filter** dialog box.



FILTER: MANAGE FILTER TEMPLATE DIALOG

The **Filter** dialog box opens with filter based on data type of column—Numeric dimension, String dimension, Date dimension, or Measure.

You can filter either on back-end data (cube data) or front-end data (object data). Back-end filters apply filter on cube data, while front-end filters apply filter on front-end (crosstab) data.

> Note:
> If cube data filter (back-end filter) is selected, the system will display all dimensions available in the cube and will not display any measures. Back-end filter on measure or custom measure is not available.
> If object data filter (front-end filter) is selected, the system will display all columns (dimensions, measures, and custom measures) available in the tabular. It will not display any other columns available in the cube except the columns that are used in the tabular.

Reference: **Concept Manual > Filters and Expressions**

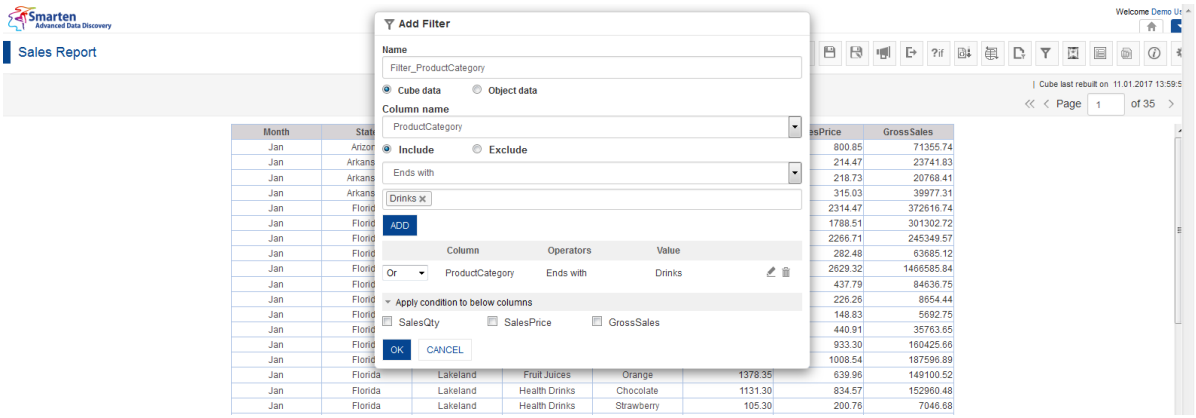
Reference: **User Manual > Working with Crosstab > Filters**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

9.3.8.1 String-Type Dimension Filter

Procedure

1. Follow the **Procedure** of **Filter**.
2. In the **Filter** dialog box, click **Add** icon.
   The system displays the **Add Filter** dialog box.



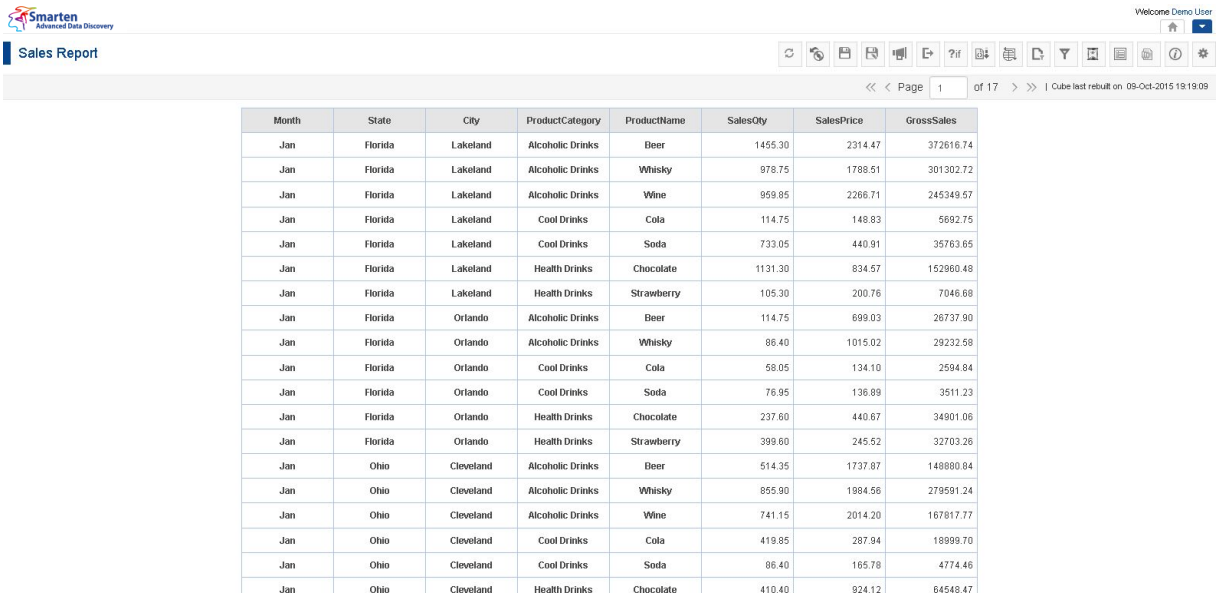
FILTER: ADD STRING-TYPE DIMENSION FILTER

3. In the **Name** field, enter a name.
4. Select the **Cube data** or **Object data** filter option depending on back-end or front-end filter need.
5. Select the radio button, either **Include** or **Exclude**.
6. From the operator's drop-down list, select an operator (=, NULL, NOT NULL, STARTS WITH, ENDS WITH, or CONTAINS)
7. Click **ADD**. You can also include multiple conditions by clicking **Add**.
   The system displays the column name, selected operator, and value.
   You can edit the condition by clicking **Edit** icon.
   You can also delete the added condition by clicking **Delete** icon.
8. From the drop-down list, select a logical operator (either AND or OR) to join two conditions. Select None if you do not want to add any other condition.
9. Click **Apply to below conditions columns** and that will display list of other columns in the tabular.

10. Select column(s) to apply this filter condition to multiple column(s).
11. Click **OK**.

Field	Description
Column name	Selected String Dimension name
Include	Includes the values in tabular satisfying the filter criteria
Exclude	Excludes the values in tabular satisfying the filter criteria
	= Specified Single or Multiple values
	Null
	Not Null
	Starts with
	Ends with
	Contains

TABLE: ADD STRING-TYPE DIMENSION FILTER



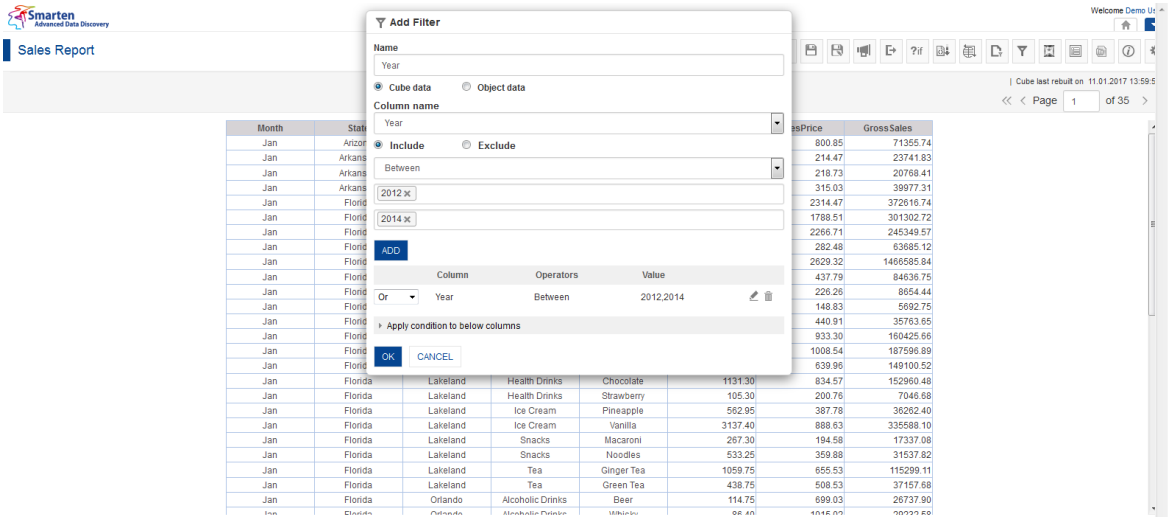
Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68
Jan	Florida	Orlando	Alcoholic Drinks	Beer	114.75	699.03	26737.90
Jan	Florida	Orlando	Alcoholic Drinks	Whisky	86.40	1015.02	29232.58
Jan	Florida	Orlando	Cool Drinks	Cola	58.05	134.10	2594.84
Jan	Florida	Orlando	Cool Drinks	Soda	76.95	136.89	3511.23
Jan	Florida	Orlando	Health Drinks	Chocolate	237.60	440.67	34901.06
Jan	Florida	Orlando	Health Drinks	Strawberry	399.60	245.52	32703.26
Jan	Ohio	Cleveland	Alcoholic Drinks	Beer	514.35	1737.87	148880.84
Jan	Ohio	Cleveland	Alcoholic Drinks	Whisky	855.90	1984.56	279591.24
Jan	Ohio	Cleveland	Alcoholic Drinks	Wine	741.15	2014.20	167817.77
Jan	Ohio	Cleveland	Cool Drinks	Cola	419.85	287.94	18999.70
Jan	Ohio	Cleveland	Cool Drinks	Soda	86.40	165.78	4774.46
Jan	Ohio	Cleveland	Health Drinks	Chocolate	410.40	924.12	64548.47

TABULAR RESULTS FOR PRODUCT CATEGORY ENDING WITH DRINK

9.3.8.2 Numeric-Type Dimension Filter

Procedure

1. Follow the **Procedure** of **Filter**.
2. In the **Filter** dialog box, click Add icon.
   The system displays the **Add Filter** dialog box.

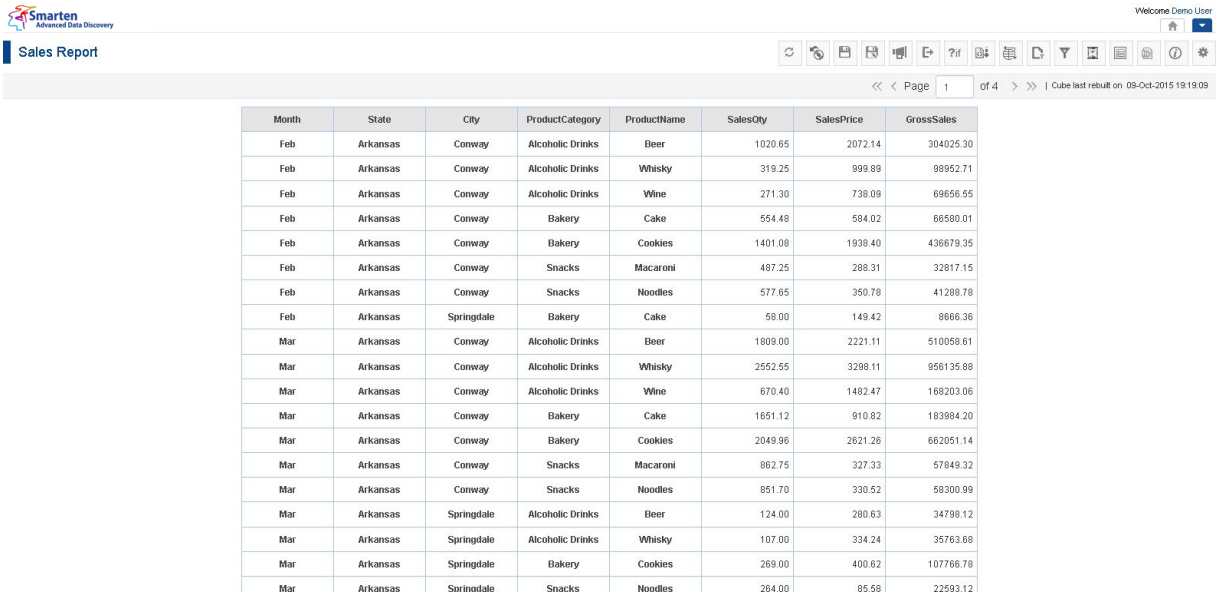


FILTER: ADD NUMERIC-TYPE DIMENSION FILTER

3. In the **Name** field, enter a name.
4. Select the **Cube data** or **Object data** filter option depending on back-end or front-end filter need.
5. Select the radio button, either **Include** or **Exclude**.
6. From the operator's drop-down list, select an operator (=, <, >, <=, <= etc.)
7. Click **ADD**. You can also include multiple conditions by clicking **Add**.
   The system displays the column name, selected operator, and value.
   You can edit the condition by clicking **Edit** icon.
   You can also delete the added condition by clicking **Delete** icon.
8. From the drop-down list, select a logical operator (either AND or OR) to join two conditions. Select None if you do not want to add any other condition.
9. Click **Apply to below conditions columns** and that will display list of other columns in the tabular.
   Select column(s) to apply this filter condition to multiple column(s).
10. Click **OK**.

Field	Description
Column name	Selected Numeric Dimension name
Include	Includes the values in tabular satisfying the filter criteria
Exclude	Excludes the values in tabular satisfying the filter criteria
	= Specified Single or Multiple values
	<
	>
	<=
	<=
	Null
	Not null
	Between

TABLE: ADD NUMERIC-TYPE DIMENSION FILTER



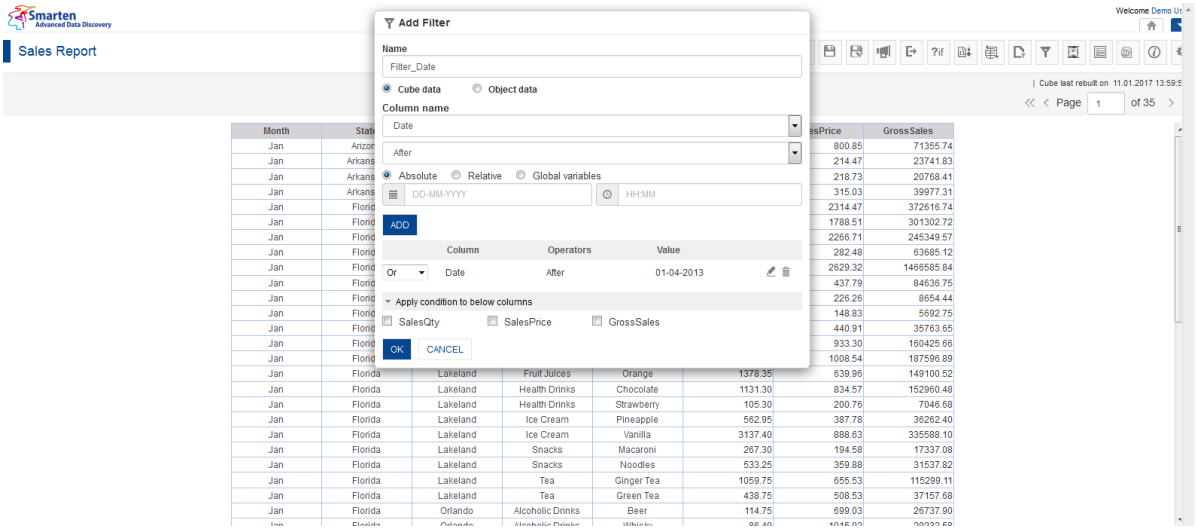
Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Feb	Arkansas	Conway	Alcoholic Drinks	Beer	1020.65	2072.14	304025.30
Feb	Arkansas	Conway	Alcoholic Drinks	Whisky	319.25	999.89	98952.71
Feb	Arkansas	Conway	Alcoholic Drinks	Wine	271.30	738.09	69656.55
Feb	Arkansas	Conway	Bakery	Cake	554.48	584.02	66580.01
Feb	Arkansas	Conway	Bakery	Cookies	1401.08	1938.40	436679.35
Feb	Arkansas	Conway	Snacks	Macaroni	487.25	288.31	32817.15
Feb	Arkansas	Conway	Snacks	Noodles	577.65	350.78	41288.78
Feb	Arkansas	Springdale	Bakery	Cake	58.00	149.42	8666.36
Mar	Arkansas	Conway	Alcoholic Drinks	Beer	1809.00	2221.11	510058.61
Mar	Arkansas	Conway	Alcoholic Drinks	Whisky	2552.55	3298.11	956135.88
Mar	Arkansas	Conway	Alcoholic Drinks	Wine	670.40	1482.47	168203.06
Mar	Arkansas	Conway	Bakery	Cake	1651.12	910.82	183984.20
Mar	Arkansas	Conway	Bakery	Cookies	2049.96	2621.26	662051.14
Mar	Arkansas	Conway	Snacks	Macaroni	862.75	327.33	57849.32
Mar	Arkansas	Conway	Snacks	Noodles	851.70	330.52	58300.99
Mar	Arkansas	Springdale	Alcoholic Drinks	Beer	124.00	280.63	34798.12
Mar	Arkansas	Springdale	Alcoholic Drinks	Whisky	107.00	334.24	35763.68
Mar	Arkansas	Springdale	Bakery	Cookies	269.00	400.62	107766.78
Mar	Arkansas	Springdale	Snacks	Noodles	264.00	85.58	22593.12

TABULAR RESULTS FOR YEARS 2012 TO 2014

9.3.8.3 Date-Type Dimension Filter

Procedure

1. Follow the **Procedure** of **Filter**.
2. In the **Filter** dialog box, click Add icon.
   The system displays the **Add Filter** dialog box.



FILTER: ADD DATE-TYPE DIMENSION FILTER

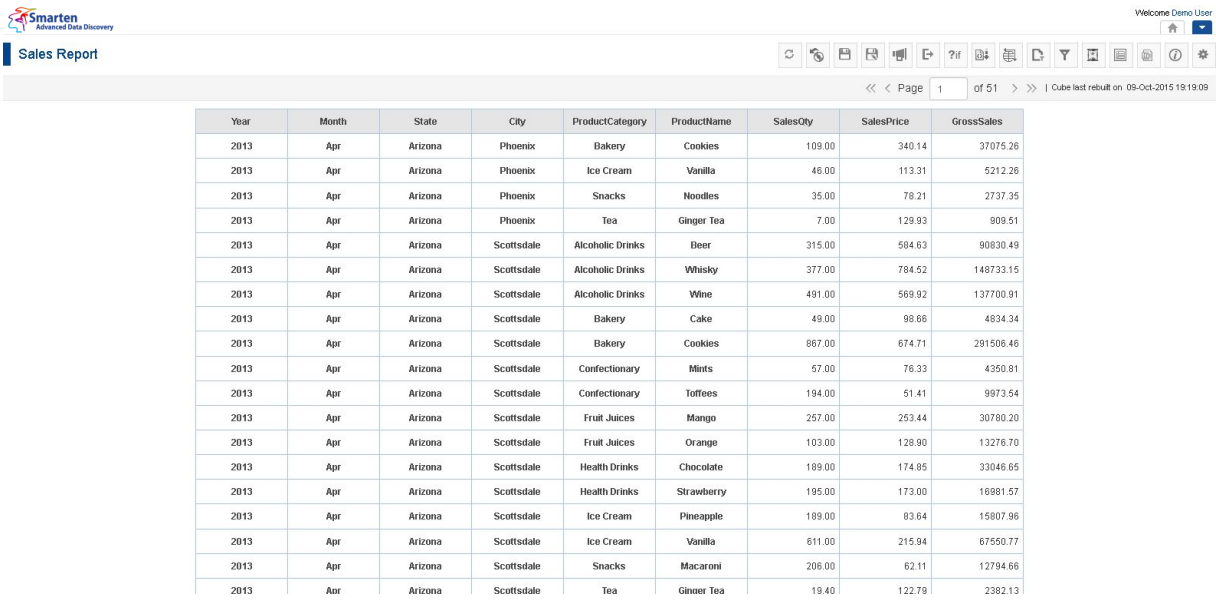
3. In the **Name** field, enter a name.
4. Select the **Cube data** or **Object data** filter option depending on back-end or front-end filter need.
5. From the operator's drop-down list, select an operator (BEFORE, AFTER, BETWEEN, or NOT BETWEEN).
   The system displays calendar and time control based on the option selected.
6. In the **Calendar** field, select a date.
7. In the **Time** field, select a time.
8. Click **ADD**. You can also include multiple conditions by clicking **Add**.
   The system displays the column name, selected operator, and value.

You can edit the condition by clicking **Edit** icon.
You can also delete the added condition by clicking **Delete** icon.

9. From the drop-down list, select a logical operator (either AND or OR) to join two conditions. Select None if you do not want to add any other condition.
10. Click **Apply to below conditions columns** and that will display list of other columns in the tabular.
11. Select column(s) to apply this filter condition to multiple column(s).
12. Click **OK**.

Field	Description
Column name	Selected Date Dimension name
Include	Includes the values in tabular satisfying the filter criteria
Exclude	Excludes the values in tabular satisfying the filter criteria
	Value
	Before
	After
	Between
	Not Between

TABLE: ADD DATE-TYPE DIMENSION FILTER



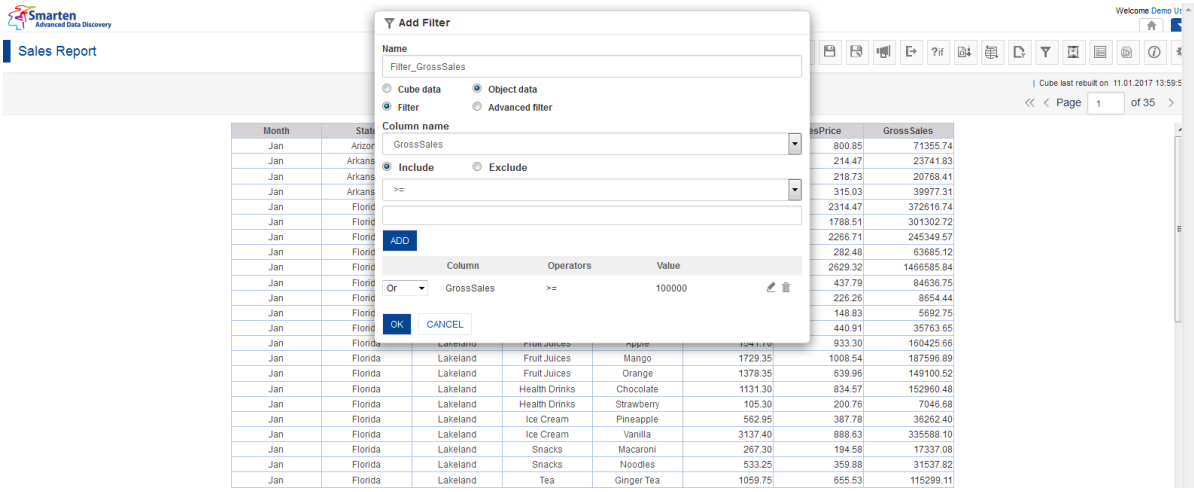
Year	Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
2013	Apr	Arizona	Phoenix	Bakery	Cookies	109.00	340.14	37075.26
2013	Apr	Arizona	Phoenix	Ice Cream	Vanilla	46.00	113.31	5212.26
2013	Apr	Arizona	Phoenix	Snacks	Noodles	35.00	78.21	2737.35
2013	Apr	Arizona	Phoenix	Tea	Ginger Tea	7.00	129.93	909.51
2013	Apr	Arizona	Scottsdale	Alcoholic Drinks	Beer	315.00	584.63	90830.49
2013	Apr	Arizona	Scottsdale	Alcoholic Drinks	Whisky	377.00	784.52	148733.15
2013	Apr	Arizona	Scottsdale	Alcoholic Drinks	Wine	491.00	569.92	137700.91
2013	Apr	Arizona	Scottsdale	Bakery	Cake	49.00	98.66	4834.34
2013	Apr	Arizona	Scottsdale	Bakery	Cookies	867.00	674.71	291506.46
2013	Apr	Arizona	Scottsdale	Confectionary	Mints	57.00	76.33	4350.81
2013	Apr	Arizona	Scottsdale	Confectionary	Toffees	194.00	51.41	9973.54
2013	Apr	Arizona	Scottsdale	Fruit Juices	Mango	257.00	253.44	30780.20
2013	Apr	Arizona	Scottsdale	Fruit Juices	Orange	103.00	128.90	13276.70
2013	Apr	Arizona	Scottsdale	Health Drinks	Chocolate	189.00	174.85	33046.65
2013	Apr	Arizona	Scottsdale	Health Drinks	Strawberry	195.00	173.00	16981.57
2013	Apr	Arizona	Scottsdale	Ice Cream	Pineapple	189.00	83.64	15807.96
2013	Apr	Arizona	Scottsdale	Ice Cream	Vanilla	611.00	215.94	67550.77
2013	Apr	Arizona	Scottsdale	Snacks	Macaroni	206.00	62.11	12794.66
2013	Apr	Arizona	Scottsdale	Tea	Ginger Tea	19.40	122.79	2382.13

TABULAR RESULTS FOR DATE AFTER 1 APR 2013

9.3.8.4 Measure Filter

Procedure

1. Follow the **Procedure** of **Filter**.
2. In the **Filter** dialog box, click Add icon.
   The system displays the **Add Filter** dialog box.

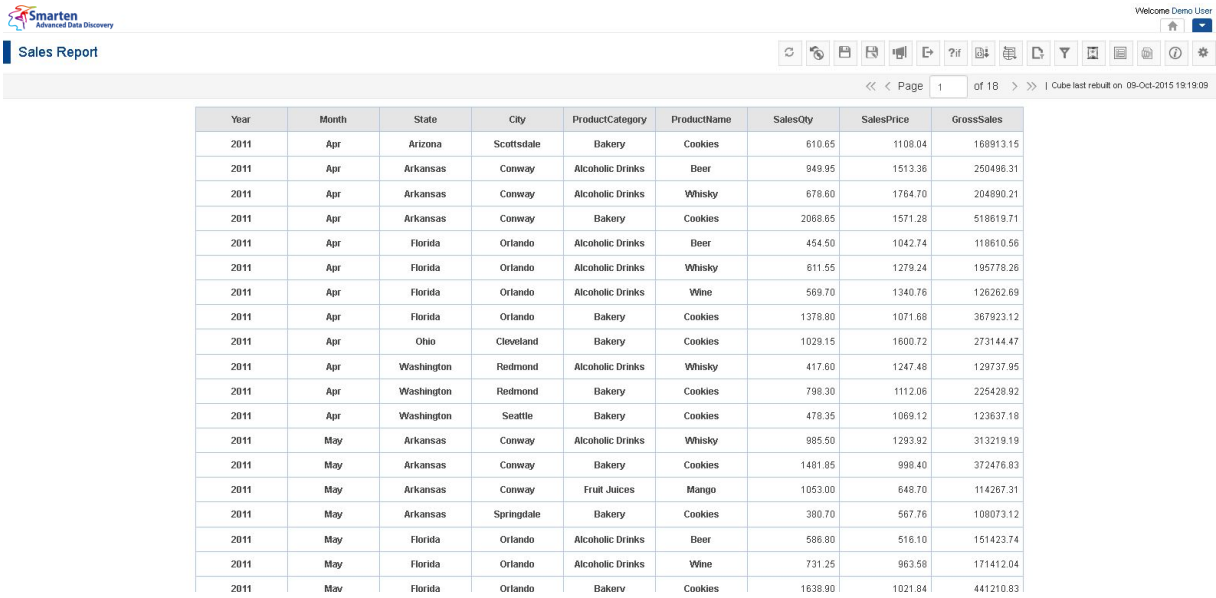


ADD MEASURE FILTER

3. In the **Name** field, enter a name.
4. Select the **Object data** filter option to apply front-end filter.
5. Select the radio button, either **Include** or **Exclude**.
6. From the operator's drop-down list, select an operator (=, <, >, <=, <=, etc.).
7. From the value drop-down list, select a value.
8. Click **ADD**. You can also include multiple conditions by clicking **Add**.
   The system displays the column name, selected operator, and value.
   You can edit the condition by clicking **Edit** icon.
   You can also delete the added condition by clicking **Delete** icon.
9. From the drop-down list, select a logical operator (either AND or OR) to join multiple conditions. Select None if you do not want to add any other condition.
10. Click **OK**.

Field	Description
Column name	Selected Numeric Dimension name
Include	Includes the values in tabular satisfying the filter criteria
Exclude	Excludes the values in tabular satisfying the filter criteria
	= Specified Single or Multiple values
	<
	>
	<=
	>=
	Null
	Not null
	Between

TABLE: ADD MEASURE FILTER



Year	Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
2011	Apr	Arizona	Scottsdale	Bakery	Cookies	610.65	1108.04	168913.15
2011	Apr	Arkansas	Conway	Alcoholic Drinks	Beer	949.95	1513.36	250496.31
2011	Apr	Arkansas	Conway	Alcoholic Drinks	Whisky	678.60	1764.70	204890.21
2011	Apr	Arkansas	Conway	Bakery	Cookies	2068.65	1571.28	518619.71
2011	Apr	Florida	Orlando	Alcoholic Drinks	Beer	454.50	1042.74	118610.56
2011	Apr	Florida	Orlando	Alcoholic Drinks	Whisky	611.55	1279.24	195778.26
2011	Apr	Florida	Orlando	Alcoholic Drinks	Wine	569.70	1340.76	126262.69
2011	Apr	Florida	Orlando	Bakery	Cookies	1378.80	1071.68	367923.12
2011	Apr	Ohio	Cleveland	Bakery	Cookies	1029.15	1600.72	273144.47
2011	Apr	Washington	Redmond	Alcoholic Drinks	Whisky	417.60	1247.48	129737.95
2011	Apr	Washington	Redmond	Bakery	Cookies	798.30	1112.06	225428.92
2011	Apr	Washington	Seattle	Bakery	Cookies	478.35	1069.12	123637.18
2011	May	Arkansas	Conway	Alcoholic Drinks	Whisky	985.50	1293.92	313219.19
2011	May	Arkansas	Conway	Bakery	Cookies	1481.85	998.40	372476.83
2011	May	Arkansas	Conway	Fruit Juices	Mango	1053.00	648.70	114267.31
2011	May	Arkansas	Springdale	Bakery	Cookies	380.70	567.76	108073.12
2011	May	Florida	Orlando	Alcoholic Drinks	Beer	586.80	516.10	151423.74
2011	May	Florida	Orlando	Alcoholic Drinks	Wine	731.25	963.58	171412.04
2011	May	Florida	Orlando	Bakery	Cookies	1638.90	1021.84	441210.83

TABULAR RESULTS FOR FILTER BY GROSS SALES

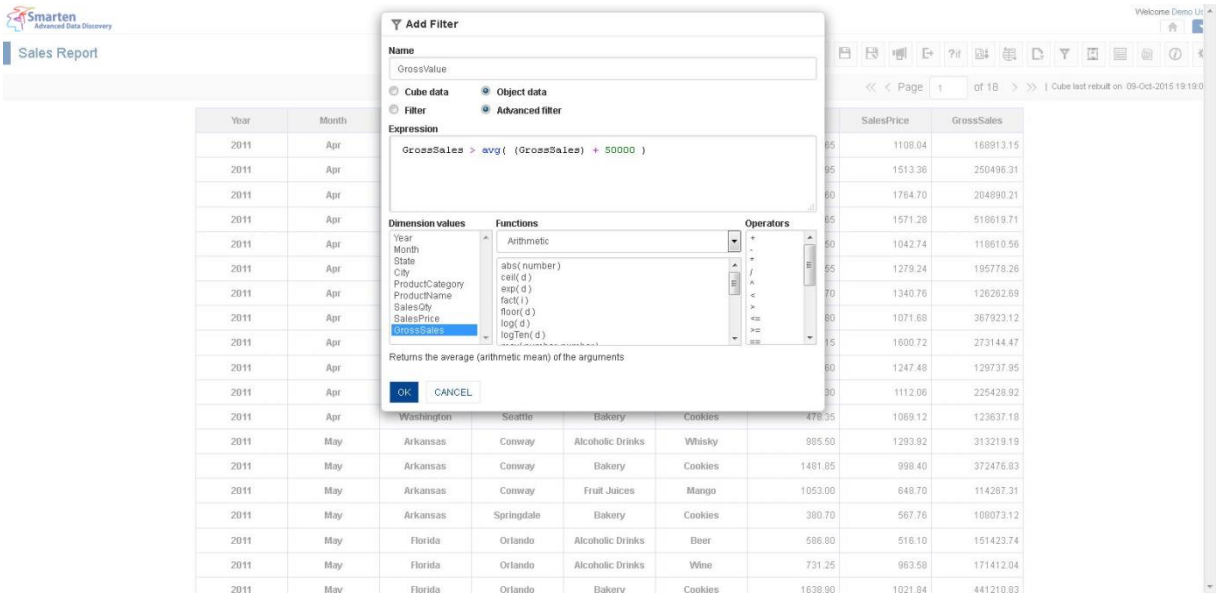
9.3.8.5 Advanced Filter

The advanced filter option in Smarten allows you to create filters based on various string, arithmetic, date, statistics, trigonometry, or conditional statements using various arithmetic operators (like +, -, /, etc.) or comparison operators (like =, >, < etc.). A wide range of functions, including **Arithmetic**, **Date**, **Statistical**, **String**, **Trigonometric,** and **Miscellaneous,** are available in Smarten.

It is available as object—front-end filter only.

Procedure

1. Follow the **Procedure** of **Filter**.
2. In the **Filter** dialog box, click Add icon.
   The system displays the **Add Filter** dialog box.



TABULAR: ADVANCED FILTER

3. In the **Name** field, enter a name.
4. Select the **Object data** radio button to apply front-end filter.
5. Select the **Advanced filter** radio button.

6. In the **Expression box**, enter the expression.
   The system displays the expression in **Expression** box.
7. You can create or edit expression by direct edit in the **Expression** box or by selecting values from Dimension Values, Functions, and Operators boxes.
8. Click **OK**.

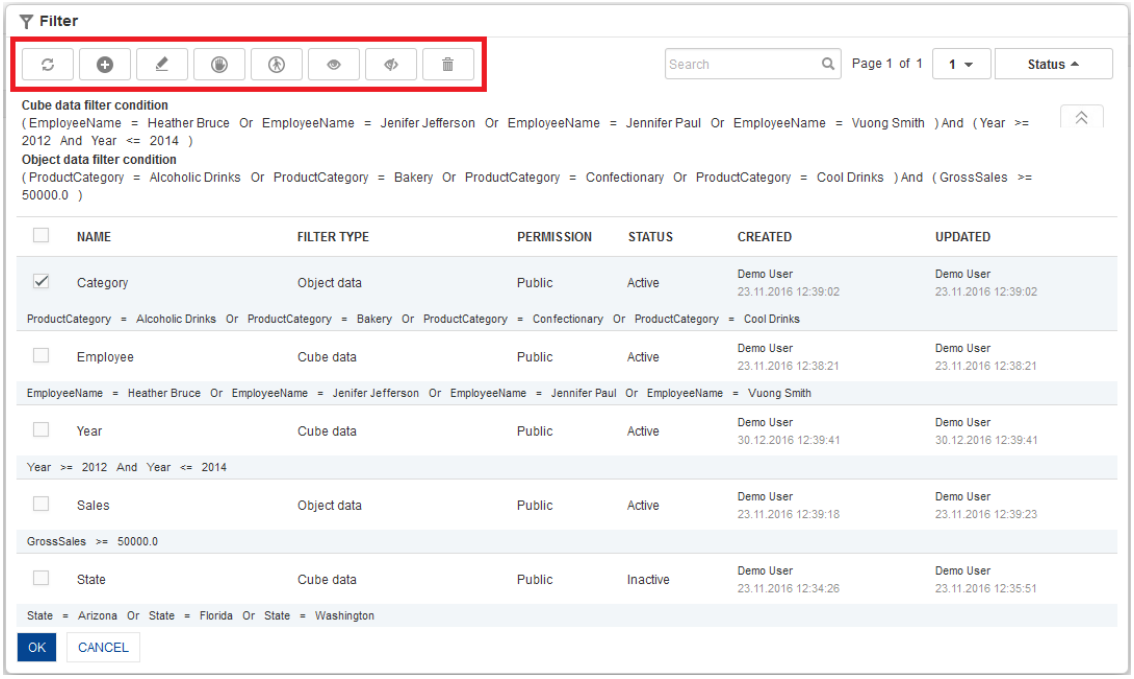
Reference: **Concept Manual > Filters and Expressions > Advanced Filter**

9.3.8.6 Create & Manage Templates

Filter templates created in tabular can be used in other Smarten modules, such as Crosstab and Graphs, and the templates created in other Smarten modules can be used in tabular.

Procedure

1. Follow the **Procedure** of **Filter**.
2. In the **Filter** dialog box, select a checkbox in front of a filter.
   The system displays a toolbar for managing tool template.



TABULAR: CREATE AND MANAGE FILTER TEMPLATE TOOLBAR

TABULAR: CREATE AND MANAGE FILTER TEMPLATE TOOLBAR

Icon	Icon name
	Refresh
	Add
	Edit

Icon	Icon name
	Private
	Public
	Active
	Inactive
	Delete

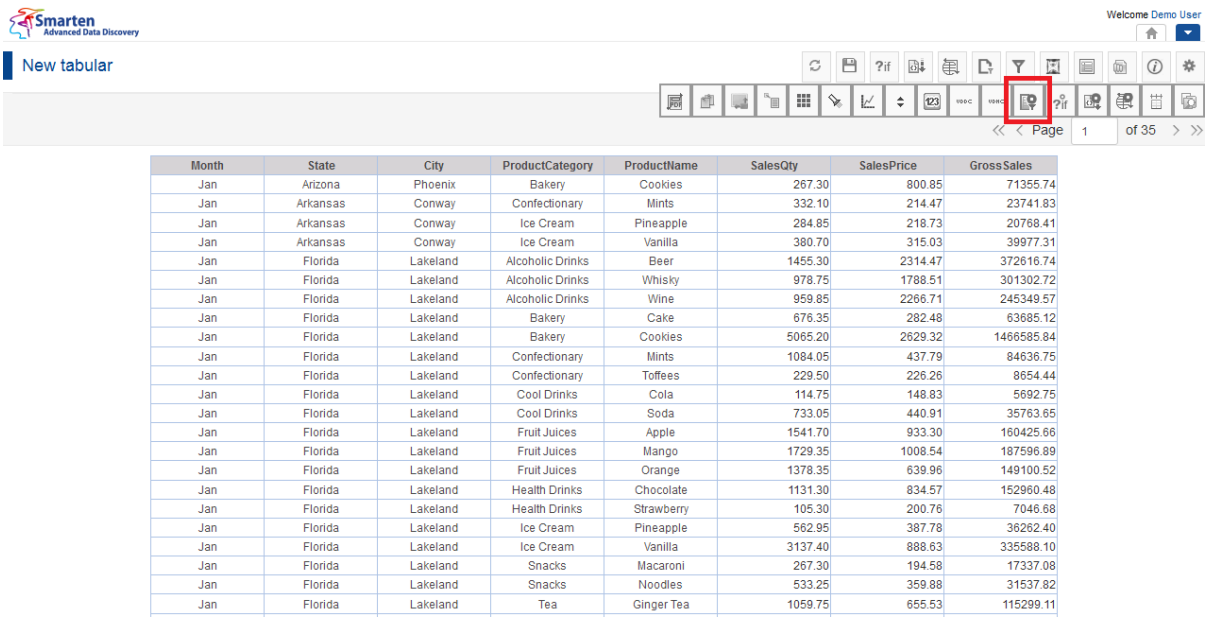
TABULAR: CREATE AND MANAGE FILTER TEMPLATE TOOLBAR OPTIONS

> Note:
> Templates can be edited or deleted only by creator of the template or the administrator.

9.3.9 Page Filter

Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. In the Setting Toolbar, click **Manage page filters**.
   The system displays the **Manage page filters** dialog box.

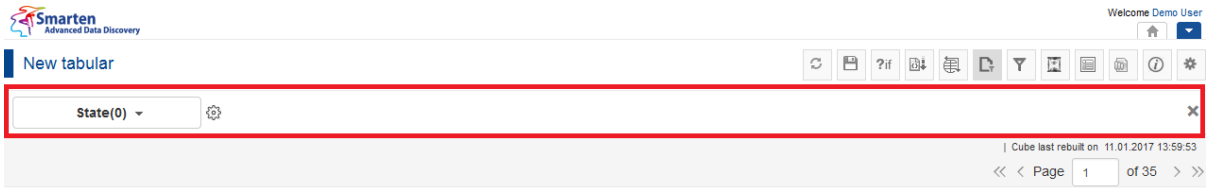


Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
Jan	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68
Jan	Florida	Lakeland	Ice Cream	Pineapple	562.95	387.78	36262.40
Jan	Florida	Lakeland	Ice Cream	Vanilla	3137.40	888.63	335588.10
Jan	Florida	Lakeland	Snacks	Macaroni	267.30	194.58	17337.08
Jan	Florida	Lakeland	Snacks	Noodles	533.25	359.88	31537.82
Jan	Florida	Lakeland	Tea	Ginger Tea	1059.75	655.53	115299.11

TABULAR: MANAGE PAGE FILTER ICON

PAGE FILTER: SETTING PAGE FILTER COLUMN

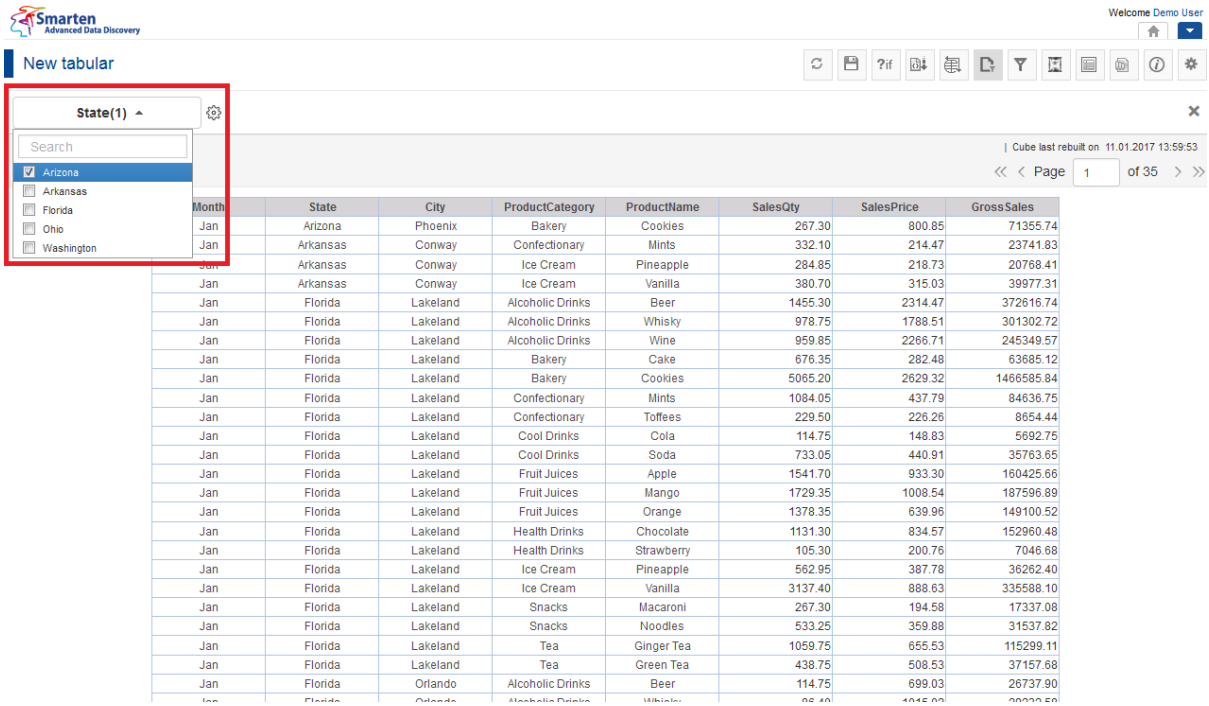
4. In the **Select Column** field, select column(s) from the drop-down list.
5. Click **OK.**
   The system will display page filter on the topmost part of tabular. If the page filter panel is not visible, you can click **Page Filter** icon on the toolbar. It is a toggle icon and will show / hide page filter panel.



Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
Jan	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68
Jan	Florida	Lakeland	Ice Cream	Pineapple	562.95	387.78	36262.40
Jan	Florida	Lakeland	Ice Cream	Vanilla	3137.40	888.63	335588.10
Jan	Florida	Lakeland	Snacks	Macaroni	267.30	194.58	17337.08
Jan	Florida	Lakeland	Snacks	Noodles	533.25	359.88	31537.82
Jan	Florida	Lakeland	Tea	Ginger Tea	1059.75	655.53	115299.11
Jan	Florida	Lakeland	Tea	Green Tea	438.75	508.53	37157.68
Jan	Florida	Orlando	Alcoholic Drinks	Beer	114.75	699.03	26737.90

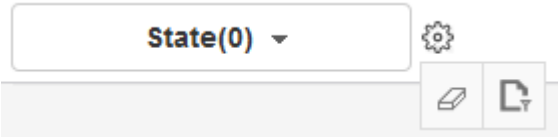
PAGE FILTER PANEL IN TABULAR

6. To apply page filter, you can simply enter values in the text field of page filter.



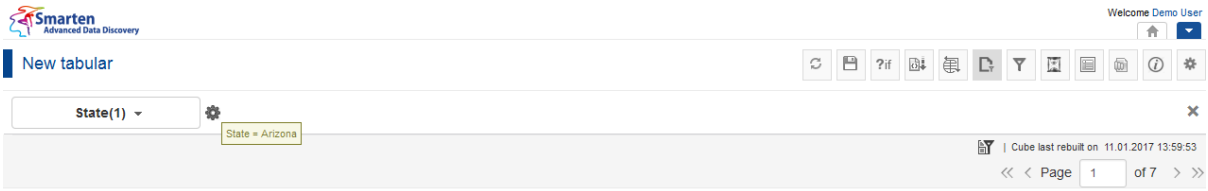
Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	Gross Sales
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83
	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
Jan	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68
Jan	Florida	Lakeland	Ice Cream	Pineapple	562.95	387.78	36262.40
Jan	Florida	Lakeland	Ice Cream	Vanilla	3137.40	888.63	335588.10
Jan	Florida	Lakeland	Snacks	Macaroni	267.30	194.58	17337.08
Jan	Florida	Lakeland	Snacks	Noodles	533.25	359.88	31537.82
Jan	Florida	Lakeland	Tea	Ginger Tea	1059.75	655.53	115299.11
Jan	Florida	Lakeland	Tea	Green Tea	438.75	508.53	37157.68
Jan	Florida	Orlando	Alcoholic Drinks	Beer	114.75	699.03	26737.90

PAGE FILTER: SELECTING FILTER CRITERIA



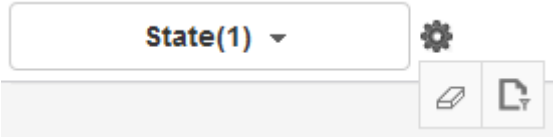
TABULAR: PAGE FILTER IN THE PAGE FILTER PANEL BEFORE APLLYING FILTER CONDITION

7. Beside the page filter text box, click the **Setting** icon
   The system displays two icons: **Clear** and **Advanced**.
8. Click **Clear** to remove the page filter values.
9. Click the **Advanced** icon.
   The system displays the **Advanced filter** dialog box based on column data type.



Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
Feb	Arizona	Phoenix	Alcoholic Drinks	Beer	728.80	1487.95	236811.84
Feb	Arizona	Phoenix	Alcoholic Drinks	Whisky	116.10	682.72	37250.52
Feb	Arizona	Phoenix	Alcoholic Drinks	Wine	88.40	529.51	23233.73
Feb	Arizona	Phoenix	Bakery	Cake	576.04	599.33	68734.92
Feb	Arizona	Phoenix	Bakery	Cookies	463.56	1250.28	146415.25
Feb	Arizona	Phoenix	Confectionary	Mints	158.10	255.65	13190.79
Feb	Arizona	Phoenix	Cool Drinks	Cola	372.65	382.54	20065.24
Feb	Arizona	Phoenix	Cool Drinks	Soda	1016.90	333.35	57545.96
Feb	Arizona	Phoenix	Fruit Juices	Apple	1308.00	533.01	148683.54
Feb	Arizona	Phoenix	Fruit Juices	Mango	255.60	623.81	33379.30
Feb	Arizona	Phoenix	Fruit Juices	Orange	587.65	559.98	69738.43
Feb	Arizona	Phoenix	Health Drinks	Chocolate	134.70	490.23	22436.47
Feb	Arizona	Phoenix	Health Drinks	Strawberry	88.80	164.83	7520.91
Feb	Arizona	Phoenix	Ice Cream	Pineapple	2034.30	704.44	196447.36
Feb	Arizona	Phoenix	Ice Cream	Vanilla	1933.45	876.51	222544.01
Feb	Arizona	Phoenix	Snacks	Macaroni	120.00	71.81	8617.20
Feb	Arizona	Phoenix	Tea	Ginger Tea	168.28	740.86	21399.64
Feb	Arizona	Phoenix	Tea	Green Tea	104.59	463.63	9655.25
Feb	Arizona	Scottsdale	Alcoholic Drinks	Whisky	319.00	345.23	110128.37
Feb	Arizona	Scottsdale	Alcoholic Drinks	Wine	216.20	1078.77	60503.90
Feb	Arizona	Scottsdale	Bakery	Cookies	131.88	576.38	40911.97
Feb	Arizona	Scottsdale	Health Drinks	Chocolate	52.20	142.28	7427.02
Feb	Arizona	Scottsdale	Ice Cream	Vanilla	574.10	374.51	73874.22
Mar	Arizona	Phoenix	Alcoholic Drinks	Beer	208.00	339.15	70543.20

TABULAR AFTER APPLYING PAGE FILTER



TABULAR: PAGE FILTER IN THE PAGE FILTER PANEL AFTER APLLYING FILTER CONDITION

Reference: **User Manual > Working with Analysis > Page Dimension Filter**

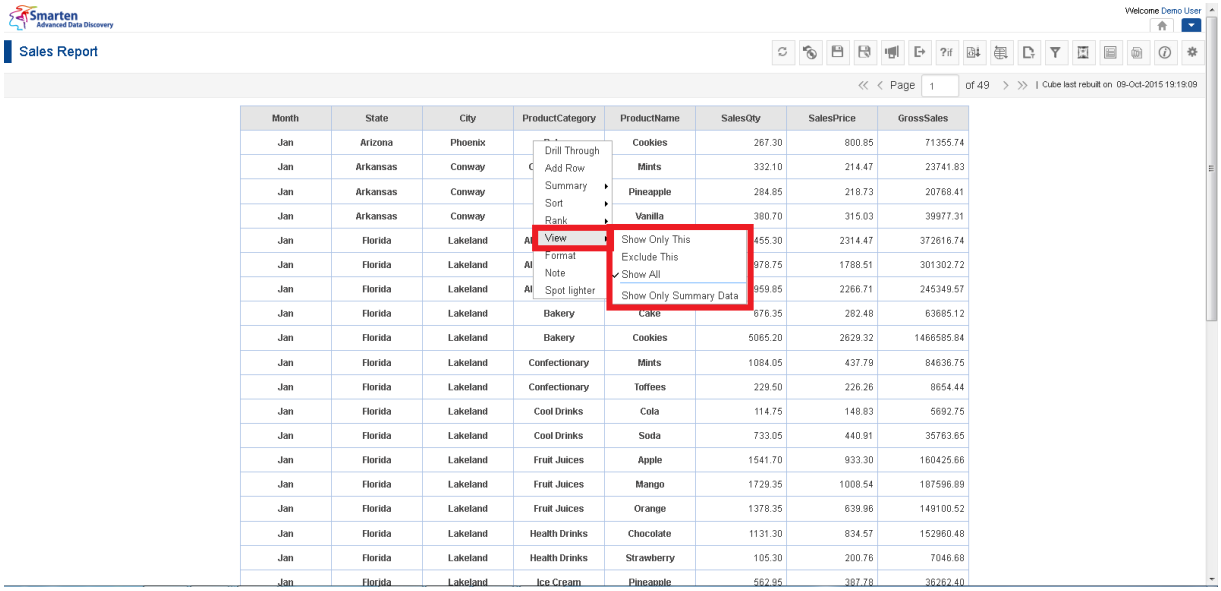
Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

9.3.10 Show/Hide

Show/Hide is used to show or hide row. You can show or hide multiple rows.

Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the tabular, right-click on a specific cell.
   The system displays the menu.
3. In the menu, select **View**.
   The system displays the submenu with various options, such as Show Only This, Exclude This, Show All, and Show Only Summary Data.
4. In the submenu, select the required option.
   The system displays the tabular according to the view option selected as displayed in the images below.



TABULAR: VIEW OPTIONS

For more details on view (Show/Hide):

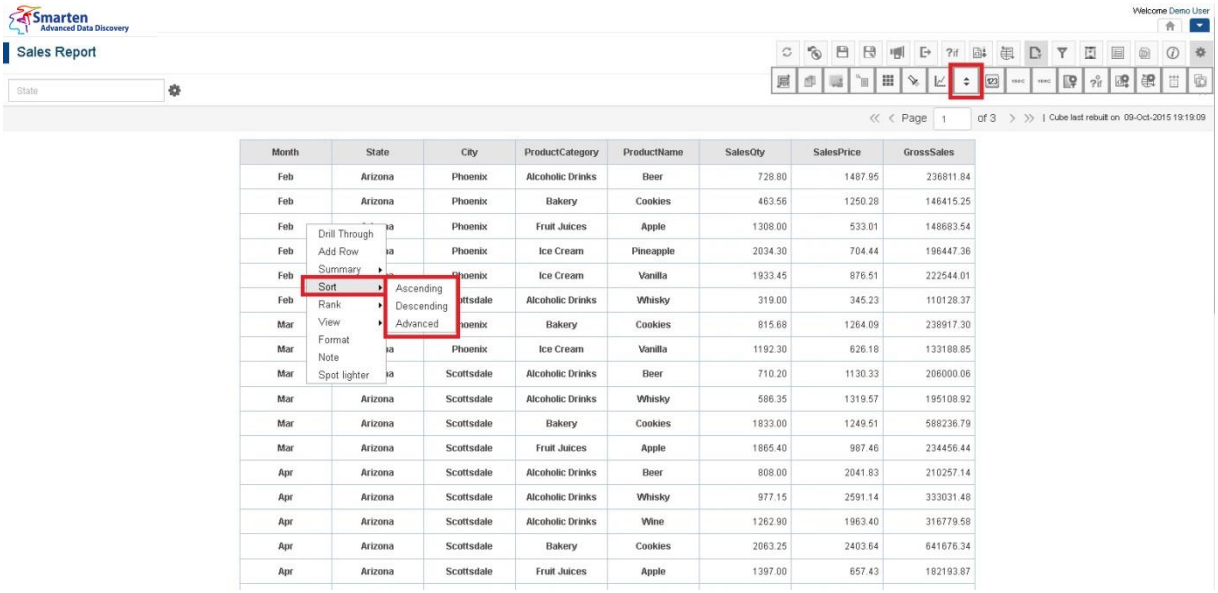
Reference: **User manual > Working with Crosstab > Show/Hide**

9.3.11 Sort

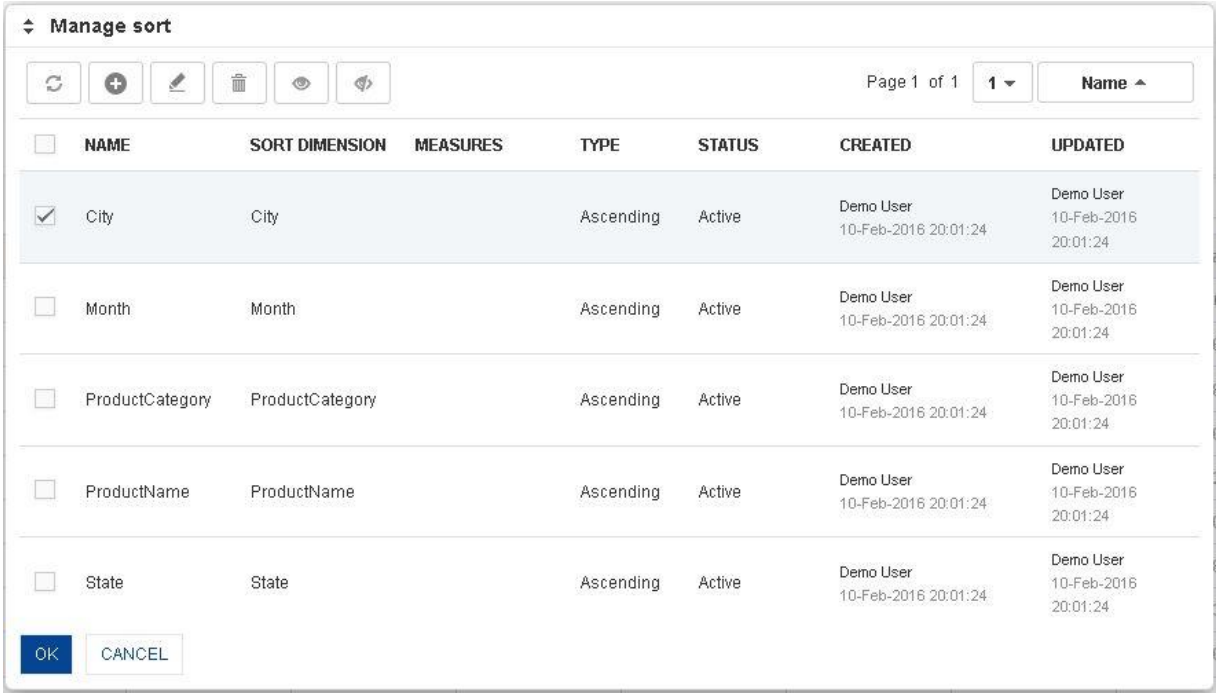
Use this option to sort the tabular based on sorting criteria of columns. This will arrange column data in ascending or descending order.

Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. You can perform general sort from the Tabular Toolbar.
   Or
   In the tabular, right-click on a specific cell.



TABULAR: SORT OPTIONS



TABULAR: MANAGE SORT DIALOG

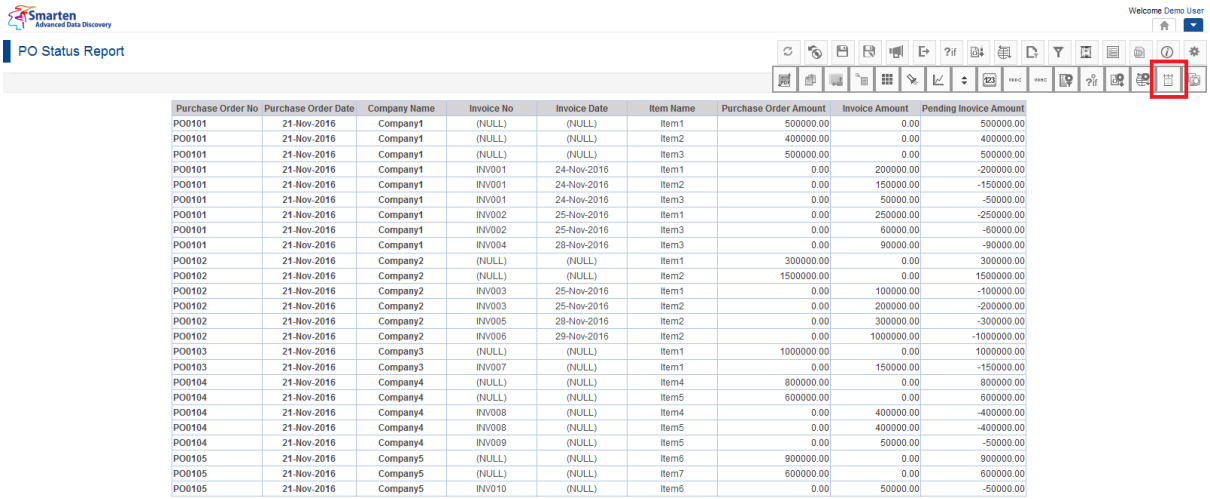
For more details on sort:

Reference: **User manual > Working with Crosstab > Sort**
Reference: **Concept Manual > Analytic Functions > Sort**

9.3.12 Master detail configuration

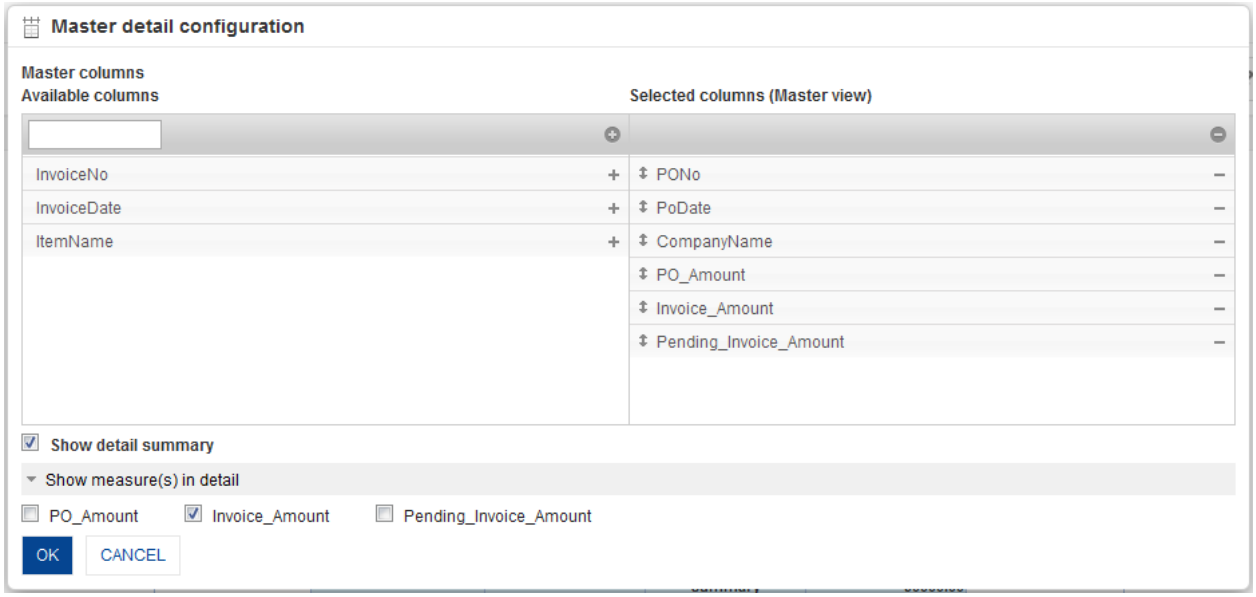
Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Master detail configuration.**
   The system displays the **Master detail configuration** dialog box.



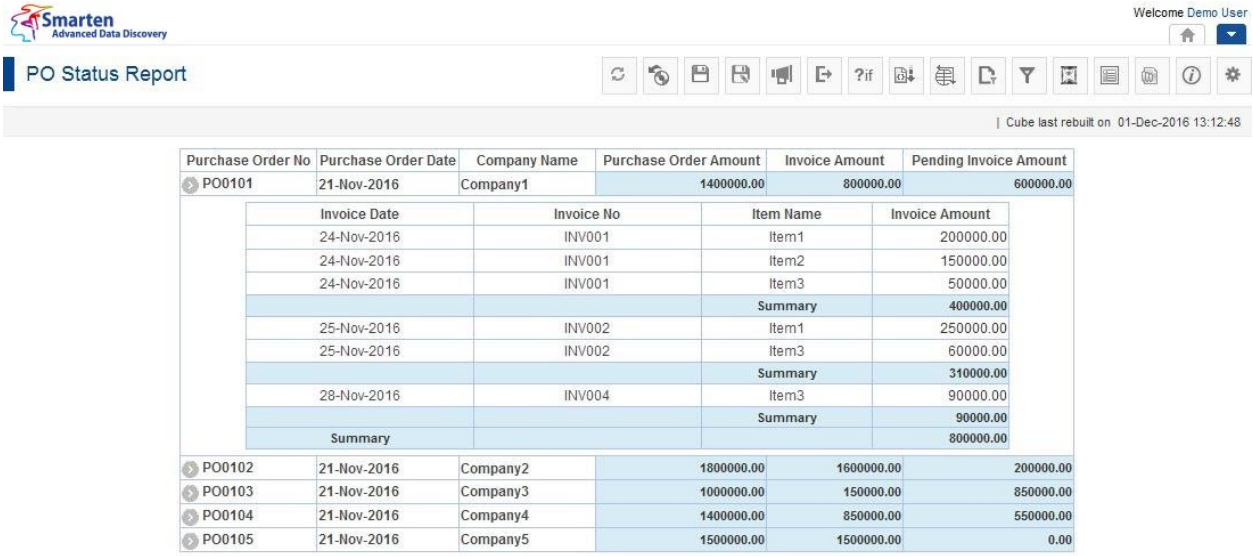
Purchase Order No	Purchase Order Date	Company Name	Invoice No	Invoice Date	Item Name	Purchase Order Amount	Invoice Amount	Pending Inovice Amount
PO0101	21-Nov-2016	Company1	(NULL)	(NULL)	Item1	500000.00	0.00	500000.00
PO0101	21-Nov-2016	Company1	(NULL)	(NULL)	Item2	400000.00	0.00	400000.00
PO0101	21-Nov-2016	Company1	(NULL)	(NULL)	Item3	500000.00	0.00	500000.00
PO0101	21-Nov-2016	Company1	INV001	24-Nov-2016	Item1	0.00	200000.00	-200000.00
PO0101	21-Nov-2016	Company1	INV001	24-Nov-2016	Item2	0.00	150000.00	-150000.00
PO0101	21-Nov-2016	Company1	INV001	24-Nov-2016	Item3	0.00	50000.00	-50000.00
PO0101	21-Nov-2016	Company1	INV002	25-Nov-2016	Item1	0.00	250000.00	-250000.00
PO0101	21-Nov-2016	Company1	INV002	25-Nov-2016	Item3	0.00	60000.00	-60000.00
PO0101	21-Nov-2016	Company1	INV004	28-Nov-2016	Item3	0.00	90000.00	-90000.00
PO0102	21-Nov-2016	Company2	(NULL)	(NULL)	Item1	300000.00	0.00	300000.00
PO0102	21-Nov-2016	Company2	(NULL)	(NULL)	Item2	1500000.00	0.00	1500000.00
PO0102	21-Nov-2016	Company2	INV003	25-Nov-2016	Item1	0.00	100000.00	-100000.00
PO0102	21-Nov-2016	Company2	INV003	25-Nov-2016	Item2	0.00	200000.00	-200000.00
PO0102	21-Nov-2016	Company2	INV005	28-Nov-2016	Item2	0.00	300000.00	-300000.00
PO0102	21-Nov-2016	Company2	INV006	29-Nov-2016	Item2	0.00	1000000.00	-1000000.00
PO0103	21-Nov-2016	Company3	(NULL)	(NULL)	Item1	1000000.00	0.00	1000000.00
PO0103	21-Nov-2016	Company3	INV007	(NULL)	Item1	0.00	150000.00	-150000.00
PO0104	21-Nov-2016	Company4	(NULL)	(NULL)	Item4	800000.00	0.00	800000.00
PO0104	21-Nov-2016	Company4	(NULL)	(NULL)	Item5	600000.00	0.00	600000.00
PO0104	21-Nov-2016	Company4	INV008	(NULL)	Item4	0.00	400000.00	-400000.00
PO0104	21-Nov-2016	Company4	INV008	(NULL)	Item5	0.00	400000.00	-400000.00
PO0104	21-Nov-2016	Company4	INV009	(NULL)	Item5	0.00	50000.00	-50000.00
PO0105	21-Nov-2016	Company5	(NULL)	(NULL)	Item6	900000.00	0.00	900000.00
PO0105	21-Nov-2016	Company5	(NULL)	(NULL)	Item7	600000.00	0.00	600000.00
PO0105	21-Nov-2016	Company5	INV010	(NULL)	Item6	0.00	50000.00	-50000.00

TABULAR: MASTER DETAIL CONFIGURATION ICON



TABULAR: MASTER DETAIL CONFIGURATION

4. In the **Selected columns (Master view)**, select dimensions and measures from **Available columns** list
5. Check the checkbox of **Show detail summary** to display summary value in detail.
6. Click **Show measure(s) in detail** and that will display list of selected measures in **Selected columns (Master view)**.
   Select measure(s) to show in detail view also.
7. Click **OK.**



Purchase Order No	Purchase Order Date	Company Name	Purchase Order Amount	Invoice Amount	Pending Invoice Amount
PO0101	21-Nov-2016	Company1	1400000.00	800000.00	600000.00

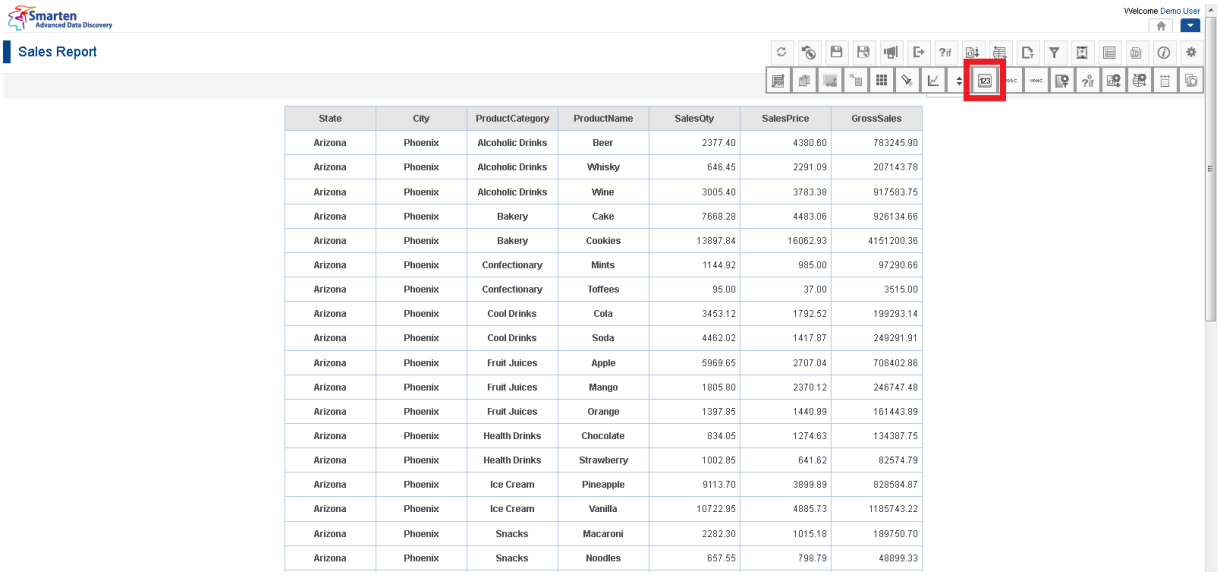
Invoice Date	Invoice No	Item Name	Invoice Amount
24-Nov-2016	INV001	Item1	200000.00
24-Nov-2016	INV001	Item2	150000.00
24-Nov-2016	INV001	Item3	50000.00
		Summary	400000.00
25-Nov-2016	INV002	Item1	250000.00
25-Nov-2016	INV002	Item3	60000.00
		Summary	310000.00
28-Nov-2016	INV004	Item3	90000.00
		Summary	90000.00
Summary			800000.00

PO0102	21-Nov-2016	Company2	1800000.00	1600000.00	200000.00
PO0103	21-Nov-2016	Company3	1000000.00	150000.00	850000.00
PO0104	21-Nov-2016	Company4	1400000.00	850000.00	550000.00
PO0105	21-Nov-2016	Company5	1500000.00	1500000.00	0.00

TABULAR AFTER CONFIGURING MASTER DETAIL

9.3.13 Rank

This option is used to assign ranks to data rows. You can analyse and compare data based on top-bottom, high-low, or maximum and minimum ranking.



State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Arizona	Phoenix	Alcoholic Drinks	Beer	2377.40	4380.60	783245.90
Arizona	Phoenix	Alcoholic Drinks	Whisky	646.45	2291.09	207143.78
Arizona	Phoenix	Alcoholic Drinks	Wine	3005.40	3783.38	917583.75
Arizona	Phoenix	Bakery	Cake	7668.28	4483.06	926134.66
Arizona	Phoenix	Bakery	Cookies	13897.84	16062.93	4151200.38
Arizona	Phoenix	Confectionary	Mints	1144.92	985.00	97290.66
Arizona	Phoenix	Confectionary	Toffees	95.00	37.00	3515.00
Arizona	Phoenix	Cool Drinks	Cola	3453.12	1792.52	199293.14
Arizona	Phoenix	Cool Drinks	Soda	4462.02	1417.87	249291.91
Arizona	Phoenix	Fruit Juices	Apple	5969.65	2707.04	708402.86
Arizona	Phoenix	Fruit Juices	Mango	1805.80	2370.12	246747.48
Arizona	Phoenix	Fruit Juices	Orange	1397.85	1440.99	161443.89
Arizona	Phoenix	Health Drinks	Chocolate	834.05	1274.63	134387.75
Arizona	Phoenix	Health Drinks	Strawberry	1002.85	641.62	82574.79
Arizona	Phoenix	Ice Cream	Pineapple	9113.70	3899.89	828584.87
Arizona	Phoenix	Ice Cream	Vanilla	10722.95	4885.73	1185743.22
Arizona	Phoenix	Snacks	Macaroni	2282.30	1015.18	189750.70
Arizona	Phoenix	Snacks	Noodles	657.55	798.79	48899.33

TABULAR: RANK SETTTING

Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. You can assign rank from the Tabular Toolbar.

Or

In the tabular, right-click on a specific cell.

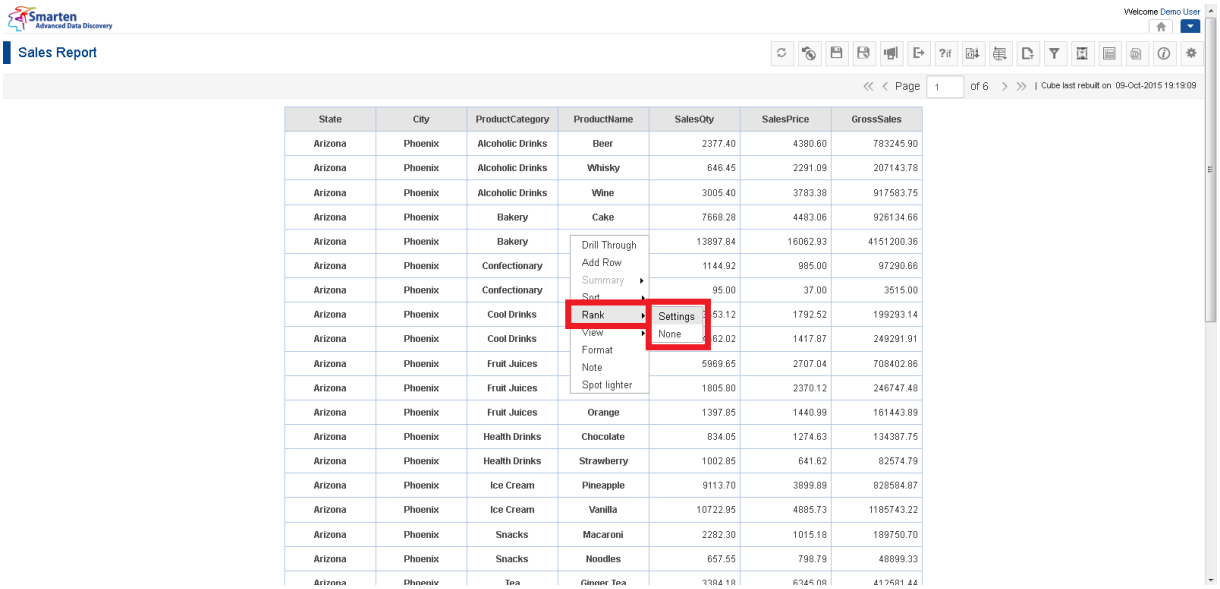
The system displays the menu.

3. In the menu, select **Rank.**

   The system displays the submenu with options such as Settings and None.

4. In the submenu, select **Settings.**

   The system displays the **Add rank** dialog box.

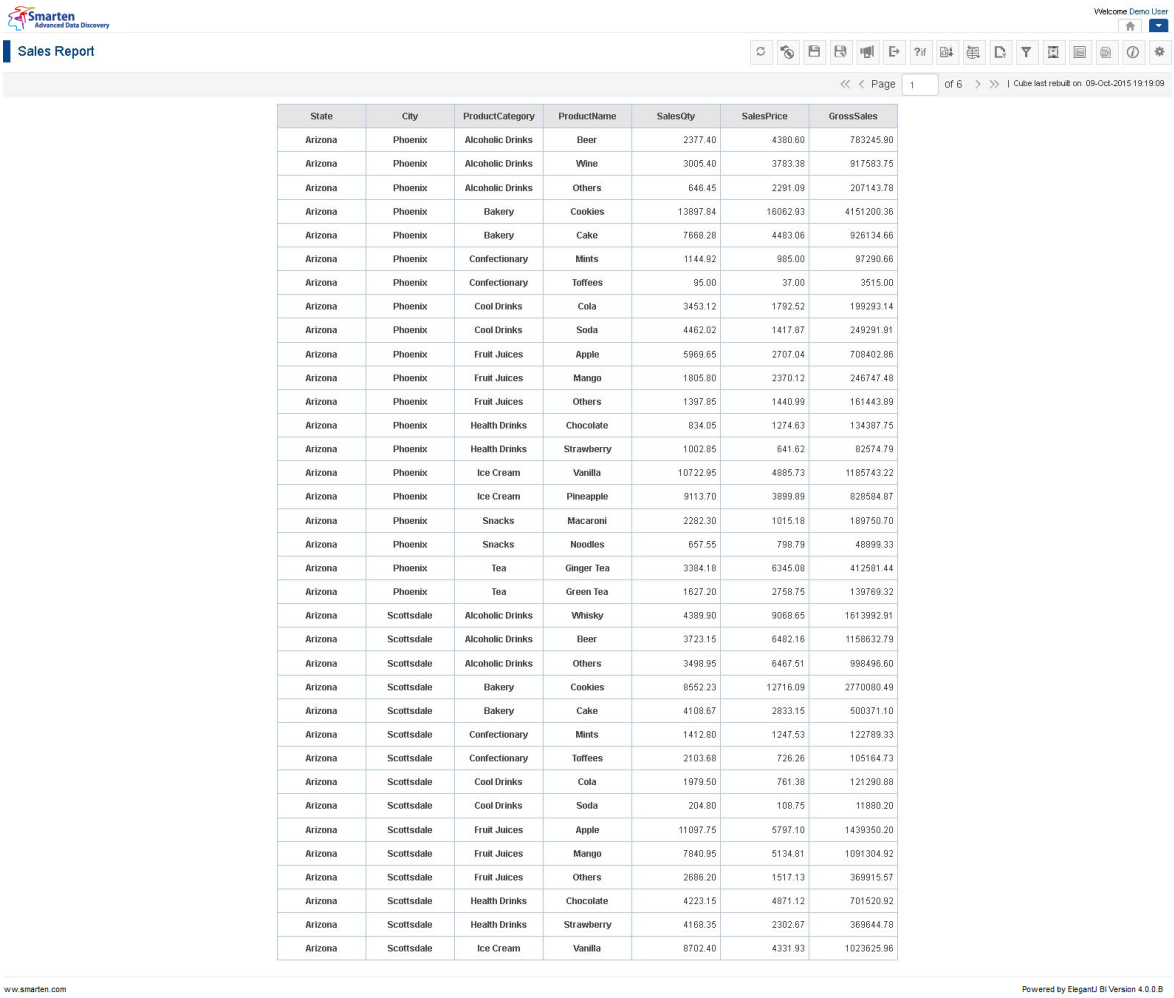


TABULAR: RANK SETTTING

TABULAR: RANK: WITH SHOW OTHERS AND WITHOUT FILTER COLUMN

5. In the **Name** field, enter a name.
6. In the **Rank dimension** drop-down list, select a dimension.
7. In the **Measure** drop-down list, select a measure.
8. In the **Ranking Criteria** section, select a radio button, either Top or Bottom.
9. In the **Ranking Criteria** section, enter a value in the field.
10. Select the **Band rank value** checkbox to apply band ranking.
11. Select the **Show others** checkbox to show others column.

12. Click **OK.**



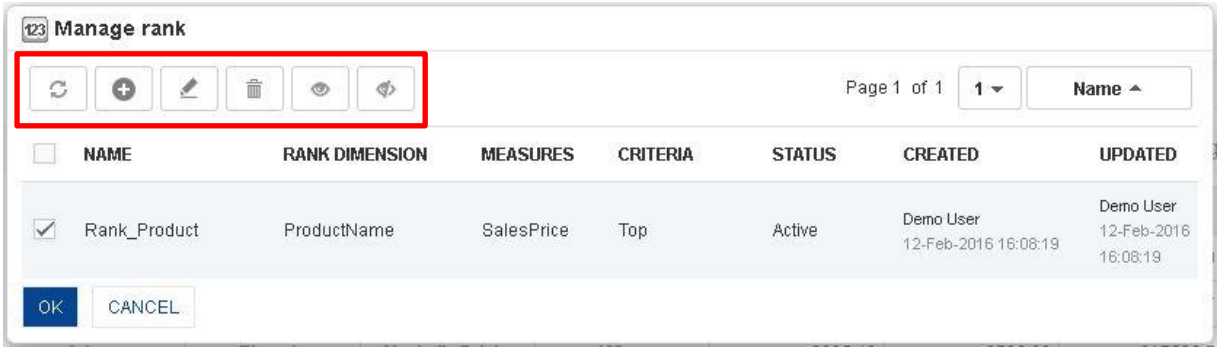
State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Arizona	Phoenix	Alcoholic Drinks	Beer	2377.40	4380.60	783245.90
Arizona	Phoenix	Alcoholic Drinks	Wine	3005.40	3783.38	917583.75
Arizona	Phoenix	Alcoholic Drinks	Others	646.45	2291.09	207143.78
Arizona	Phoenix	Bakery	Cookies	13897.84	16062.93	4151200.36
Arizona	Phoenix	Bakery	Cake	7668.28	4483.06	926134.66
Arizona	Phoenix	Confectionary	Mints	1144.92	985.00	97290.66
Arizona	Phoenix	Confectionary	Toffees	95.00	37.00	3515.00
Arizona	Phoenix	Cool Drinks	Cola	3453.12	1792.52	199293.14
Arizona	Phoenix	Cool Drinks	Soda	4462.02	1417.87	249291.91
Arizona	Phoenix	Fruit Juices	Apple	5969.65	2707.04	708402.86
Arizona	Phoenix	Fruit Juices	Mango	1805.80	2370.12	246747.48
Arizona	Phoenix	Fruit Juices	Others	1397.85	1440.99	161443.89
Arizona	Phoenix	Health Drinks	Chocolate	834.05	1274.63	134387.75
Arizona	Phoenix	Health Drinks	Strawberry	1002.85	641.62	82574.79
Arizona	Phoenix	Ice Cream	Vanilla	10722.95	4885.73	1185743.22
Arizona	Phoenix	Ice Cream	Pineapple	9113.70	3899.89	828584.87
Arizona	Phoenix	Snacks	Macaroni	2282.30	1015.18	189750.70
Arizona	Phoenix	Snacks	Noodles	657.55	798.79	48899.33
Arizona	Phoenix	Tea	Ginger Tea	3384.18	6345.08	412581.44
Arizona	Phoenix	Tea	Green Tea	1627.20	2758.75	139769.32
Arizona	Scottsdale	Alcoholic Drinks	Whisky	4389.90	9068.65	1613992.91
Arizona	Scottsdale	Alcoholic Drinks	Beer	3723.15	6482.16	1158632.79
Arizona	Scottsdale	Alcoholic Drinks	Others	3498.95	6467.51	998496.60
Arizona	Scottsdale	Bakery	Cookies	8552.23	12716.09	2770080.49
Arizona	Scottsdale	Bakery	Cake	4108.67	2833.15	500371.10
Arizona	Scottsdale	Confectionary	Mints	1412.80	1247.53	122789.33
Arizona	Scottsdale	Confectionary	Toffees	2103.68	726.26	105164.73
Arizona	Scottsdale	Cool Drinks	Cola	1979.50	761.38	121290.88
Arizona	Scottsdale	Cool Drinks	Soda	204.80	108.75	11880.20
Arizona	Scottsdale	Fruit Juices	Apple	11097.75	5797.10	1439350.20
Arizona	Scottsdale	Fruit Juices	Mango	7840.95	5134.81	1091304.92
Arizona	Scottsdale	Fruit Juices	Others	2686.20	1517.13	369915.57
Arizona	Scottsdale	Health Drinks	Chocolate	4223.15	4871.12	701520.92
Arizona	Scottsdale	Health Drinks	Strawberry	4168.35	2302.67	369644.78
Arizona	Scottsdale	Ice Cream	Vanilla	8702.40	4331.93	1023625.96

TABULAR AFTER APPLYING RANK

9.3.13.1 Create & Manage Templates

Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage Rank.**
   The system displays the **Manage Rank** dialog box. Select a checkbox in front of a rank name.
   The system displays a toolbar for managing rank template.



TABULAR: CREATE AND MANAGE RANK TEMPLATE

TABULAR: CREATE AND MANAGE RANK TEMPLATE TOOLBAR

Icon	Icon name
	Refresh
	Add
	Edit
	Delete
	Active
	Inactive

TABULAR: CREATE AND MANAGE RANK TEMPLATE TOOLBAR OPTIONS

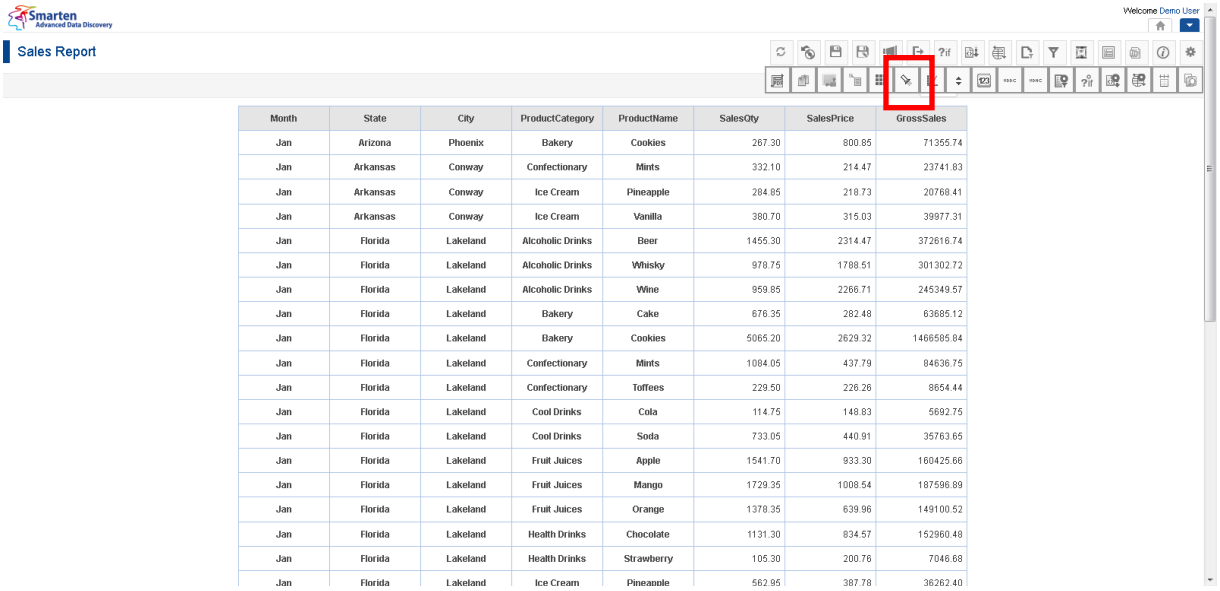
Reference: **Concept Manual > Filters and Expressions > Rank**

9.3.14 Spotlighter

Spotlighter is used to highlight specific cells based on conditional values to view data patterns at a glance. You can highlight multiple cells. You can assign background colour, text colour, font style, and alternative text to highlight the cell.

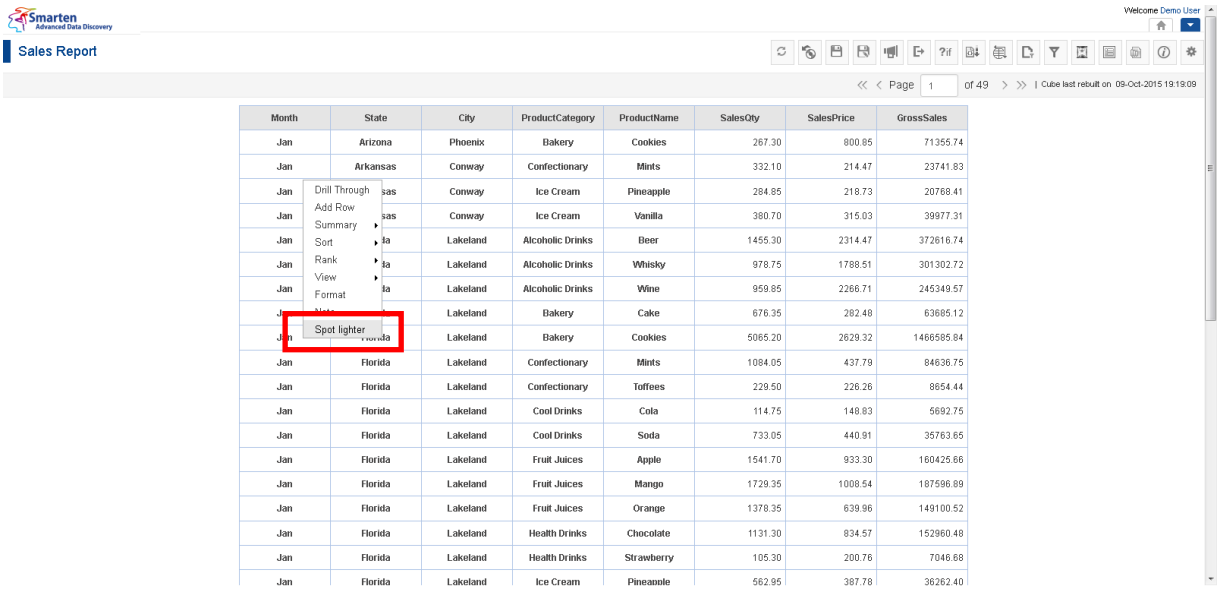
Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. You can apply spotlighter from the Tabular Toolbar.
   Or
   In the tabular, right-click on a specific cell.
   The system displays the menu.
3. In the menu, select **Spotlighter.**
   The system displays the **Add Spotlighters** dialog box.

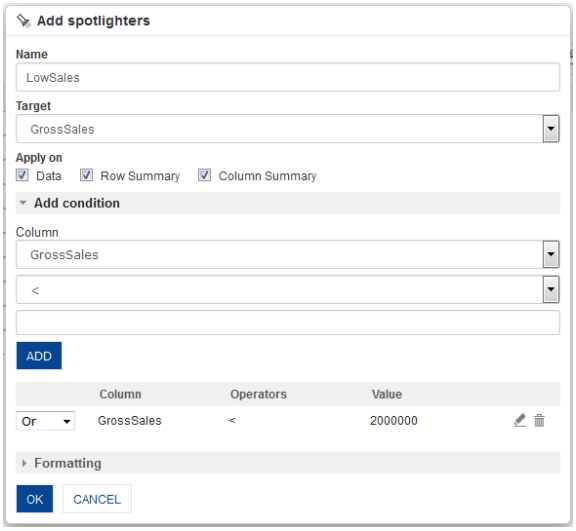


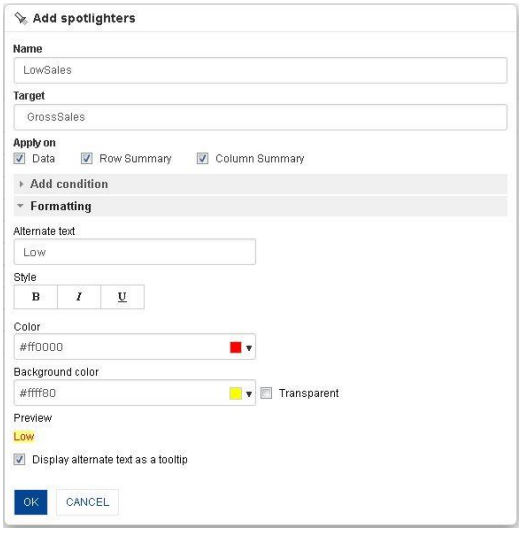
Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
Jan	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68
Jan	Florida	Lakeland	Ice Cream	Pineapple	562.95	387.78	36262.40

TABULAR: SPOTLIGHTER OPTION IN TOOLBAR



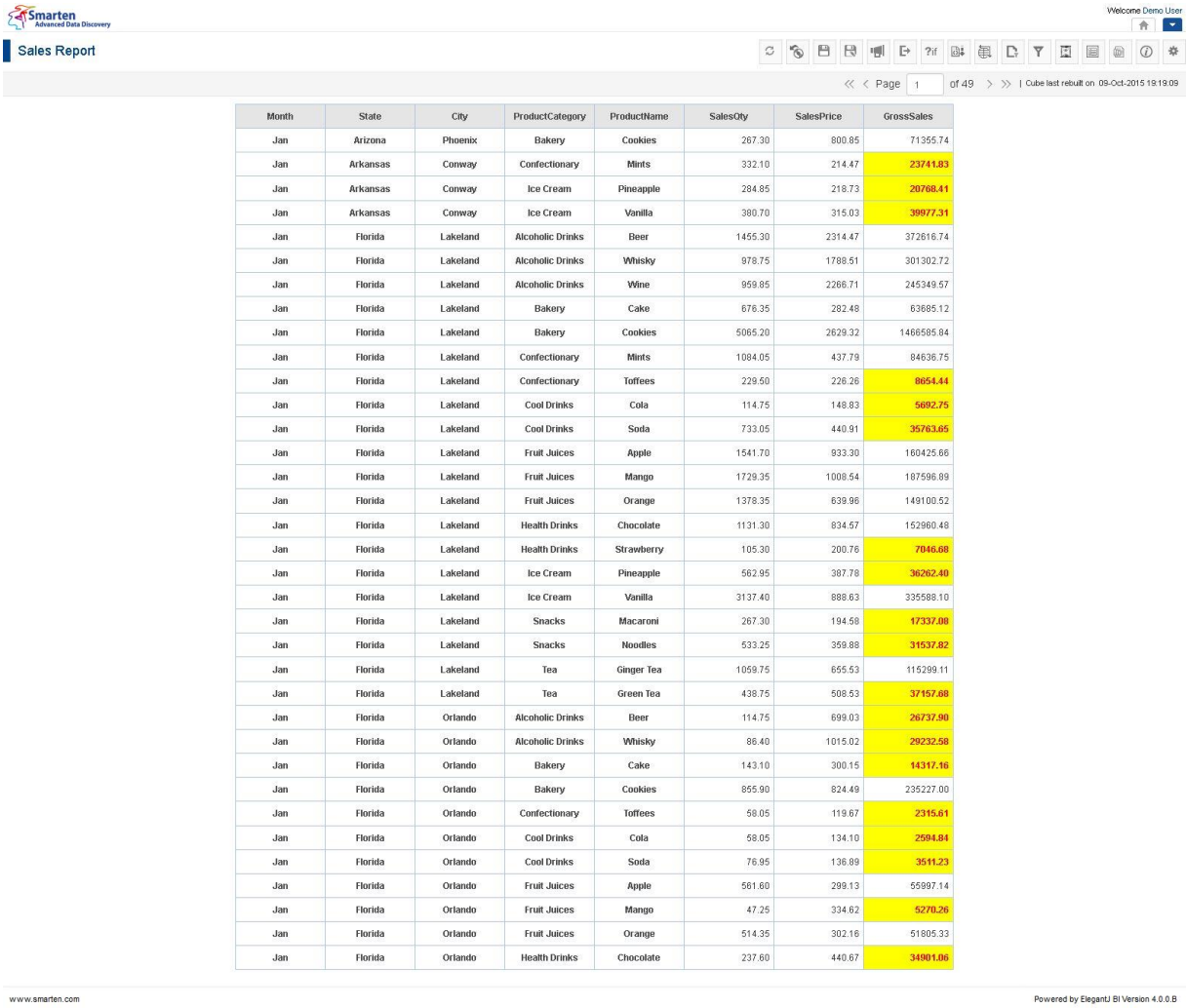
TABULAR: SPOTLIGHTER OPTION IN RIGHT CLICK MENU





TABULAR: ADD SPOTLIGHTER

4. In the **Name** field, enter a name.
5. In the **Target** drop-down list, select a value.
6. In the **Apply on** section, select appropriate checkbox (Data, Row Summary, and Column Summary)
7. In the **Add Condition** section, select a value from the **Column** drop-down list.
8. In the **Operator** drop-down list, select an operator.
9. In the drop-down list, select a value.
10. Click **ADD.** You can also include multiple conditions by clicking **Add.**
    The system displays the column name, selected operator, value and operator dropdown.
    You can edit the condition by clicking **Edit** icon.
    You can also delete the added condition by clicking **Delete** icon.
11. In the **Formatting** section, enter value in the **Alternate text** field.
12. In the **Style** field, select style (Bold, Italics, and Underline)
13. In the **Colour** field, select a colour.
14. In the **Background colour** field, select a colour.
    The **Preview** section displays the alternate text as it would appear on screen.
15. Select the **Display alternate text as a tooltip** checkbox if needed.
16. Click **OK.**



Sales Report

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Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
Jan	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68
Jan	Florida	Lakeland	Ice Cream	Pineapple	562.95	387.78	36262.40
Jan	Florida	Lakeland	Ice Cream	Vanilla	3137.40	888.63	335588.10
Jan	Florida	Lakeland	Snacks	Macaroni	267.30	194.58	17337.08
Jan	Florida	Lakeland	Snacks	Noodles	533.25	359.88	31537.82
Jan	Florida	Lakeland	Tea	Ginger Tea	1059.75	655.53	115299.11
Jan	Florida	Lakeland	Tea	Green Tea	438.75	508.53	37157.68
Jan	Florida	Orlando	Alcoholic Drinks	Beer	114.75	699.03	26737.90
Jan	Florida	Orlando	Alcoholic Drinks	Whisky	86.40	1015.02	29232.58
Jan	Florida	Orlando	Bakery	Cake	143.10	300.15	14317.16
Jan	Florida	Orlando	Bakery	Cookies	855.90	824.49	235227.00
Jan	Florida	Orlando	Confectionary	Toffees	58.05	119.67	2315.61
Jan	Florida	Orlando	Cool Drinks	Cola	58.05	134.10	2594.84
Jan	Florida	Orlando	Cool Drinks	Soda	76.95	136.89	3511.23
Jan	Florida	Orlando	Fruit Juices	Apple	561.60	299.13	55997.14
Jan	Florida	Orlando	Fruit Juices	Mango	47.25	334.62	5270.26
Jan	Florida	Orlando	Fruit Juices	Orange	514.35	302.16	51805.33
Jan	Florida	Orlando	Health Drinks	Chocolate	237.60	440.67	34901.06

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TABULAR: SPOTLIGHTER ON GROSS SALES

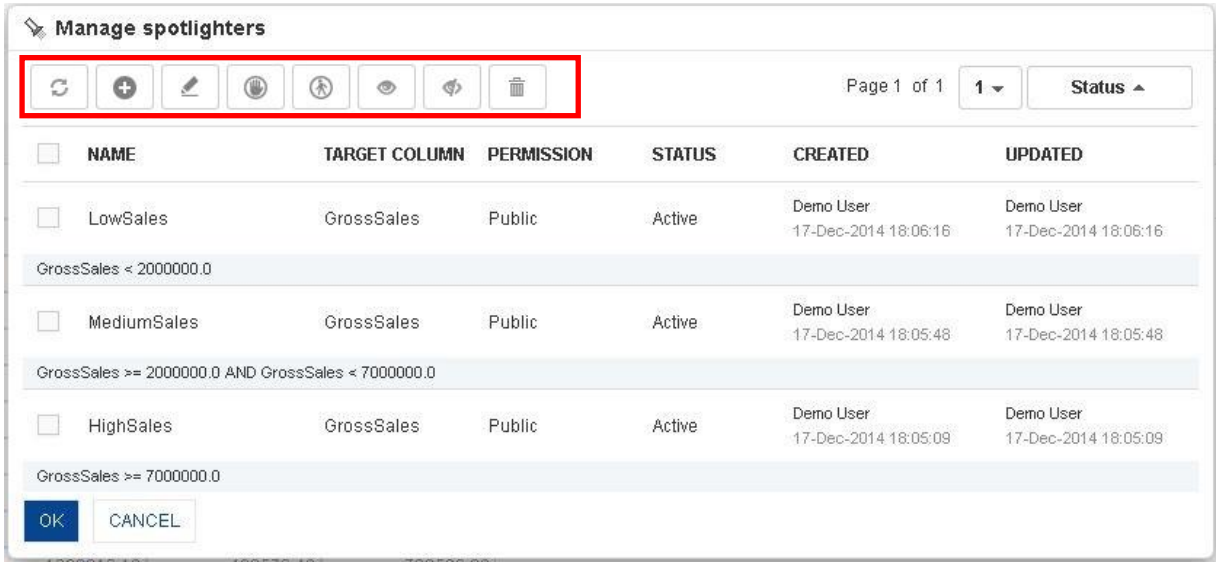
9.3.14.1 Create & Manage Templates

The created **Spotlighter** conditions can be saved in the **Spotlighter** template. These conditions can be reused by various users while creating different tabular.

Spotlighter templates created in tabular can be used in Crosstab, and the templates created in crosstab can be used in tabular.

Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage Spotlighters.**
   The system displays the **Manage Spotlighters** dialog box. Select a checkbox in front of a spotlighter name.



SPOTLIGHTER: CREATE AND MANAGE SPOTLIGHTERS TEMPLATES

TABULAR: CREATE AND MANAGE SPOTLIGHTERS TEMPLATE TOOLBAR

Icon	Icon name
	Refresh
	Add
	Edit
	Private
	Public
	Active
	Inactive
	Delete

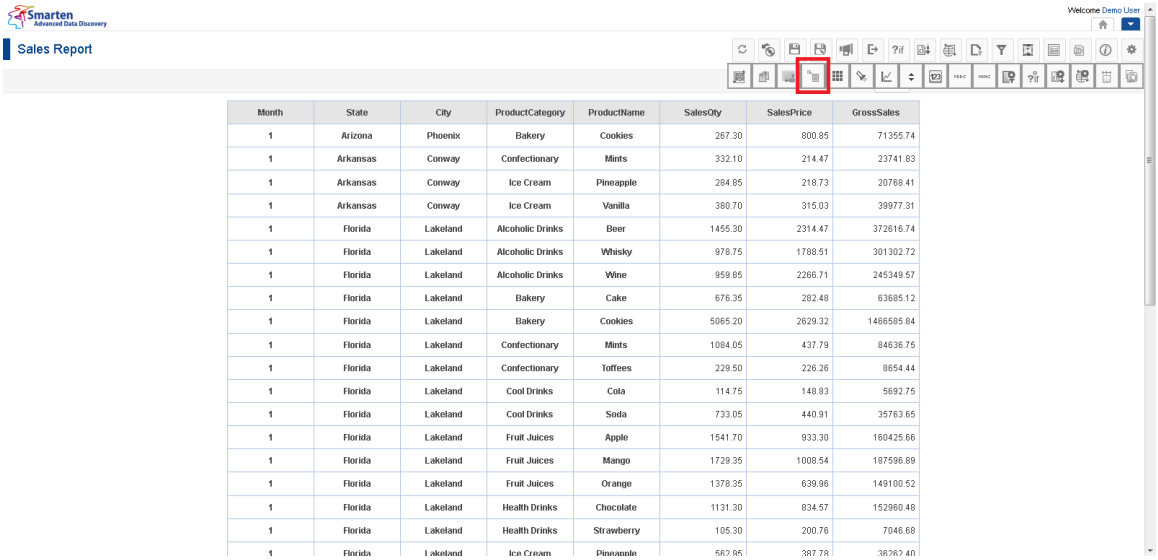
TABULAR: CREATE AND MANAGE SPOTLIGHTERS TEMPLATE TOOLBAR OPTIONS

Note:
Templates can be edited or deleted only by creator of the template or the administrator.

Reference: **Concept Manual > Analytic Functions > Spotlighter**

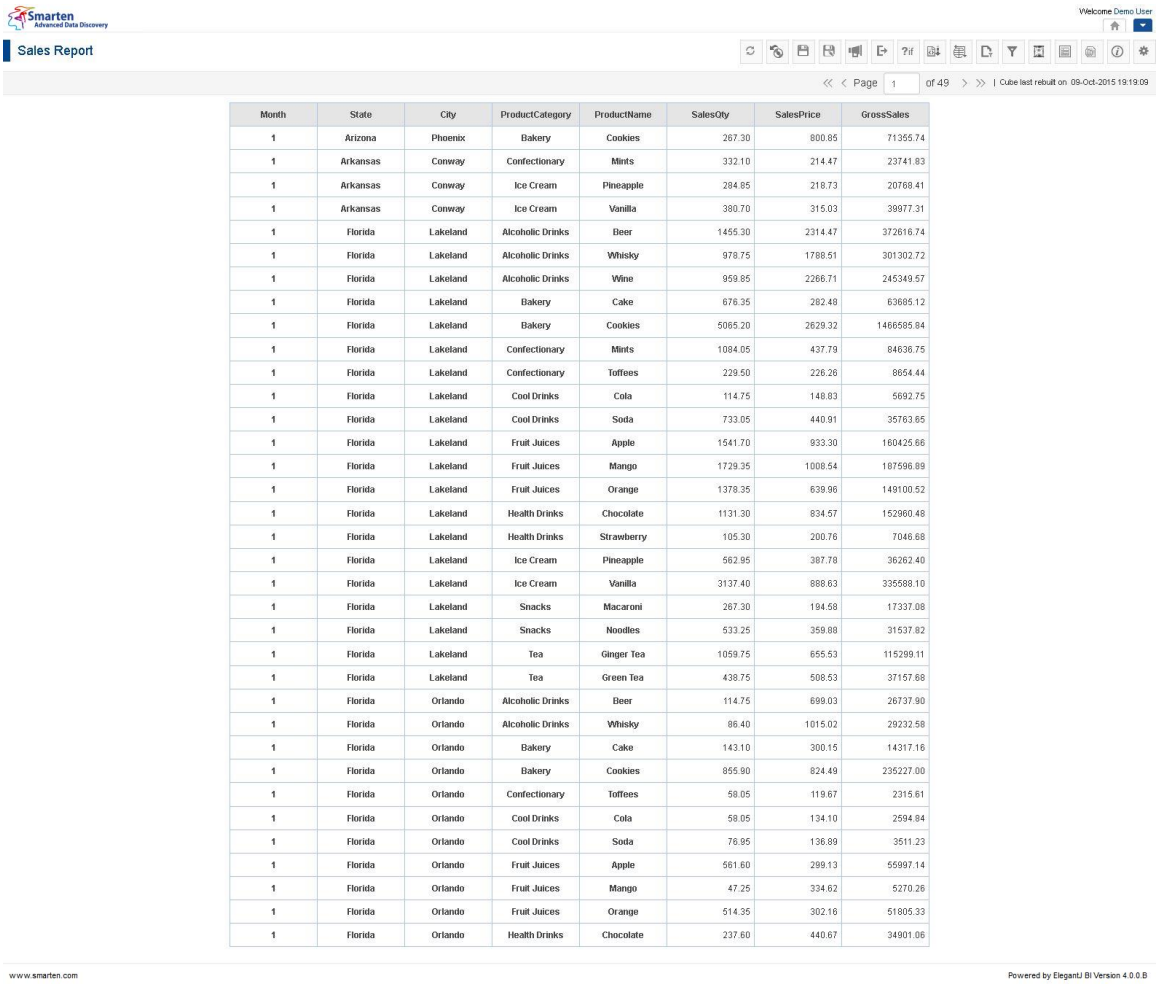
9.3.15 Data Value/Display Value Mapping

Use Data value/display value mapping to display alternate text for specific data values.



Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
1	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
1	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83
1	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
1	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
1	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
1	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
1	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
1	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
1	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
1	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
1	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
1	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
1	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
1	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
1	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
1	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
1	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
1	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68
1	Florida	Lakeland	Ice Cream	Pineapple	562.95	387.78	36262.40

TABULAR: DDVM ICON



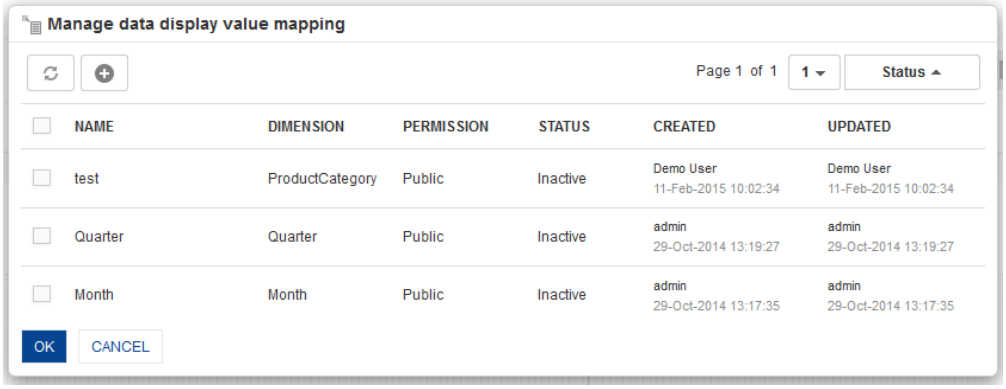
Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
1	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
1	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83
1	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
1	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
1	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
1	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
1	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
1	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
1	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
1	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
1	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
1	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
1	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
1	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
1	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
1	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
1	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
1	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68
1	Florida	Lakeland	Ice Cream	Pineapple	562.95	387.78	36262.40
1	Florida	Lakeland	Ice Cream	Vanilla	3137.40	888.63	335588.10
1	Florida	Lakeland	Snacks	Macaroni	267.30	194.58	17337.08
1	Florida	Lakeland	Snacks	Noodles	533.25	359.88	31537.82
1	Florida	Lakeland	Tea	Ginger Tea	1059.75	655.53	115299.11
1	Florida	Lakeland	Tea	Green Tea	438.75	508.53	37157.68
1	Florida	Orlando	Alcoholic Drinks	Beer	114.75	699.03	26737.90
1	Florida	Orlando	Alcoholic Drinks	Whisky	86.40	1015.02	29232.58
1	Florida	Orlando	Bakery	Cake	143.10	300.15	14317.16
1	Florida	Orlando	Bakery	Cookies	855.90	824.49	235227.00
1	Florida	Orlando	Confectionary	Toffees	58.05	119.67	2315.61
1	Florida	Orlando	Cool Drinks	Cola	58.05	134.10	2594.84
1	Florida	Orlando	Cool Drinks	Soda	76.95	136.89	3511.23
1	Florida	Orlando	Fruit Juices	Apple	561.60	299.13	55997.14
1	Florida	Orlando	Fruit Juices	Mango	47.25	334.62	5270.26
1	Florida	Orlando	Fruit Juices	Orange	514.35	302.16	51805.33
1	Florida	Orlando	Health Drinks	Chocolate	237.60	440.67	34901.06

TABULAR: BEFORE APPLYING DATA VALUE DISPLAY VALUE MAPPING

Procedure

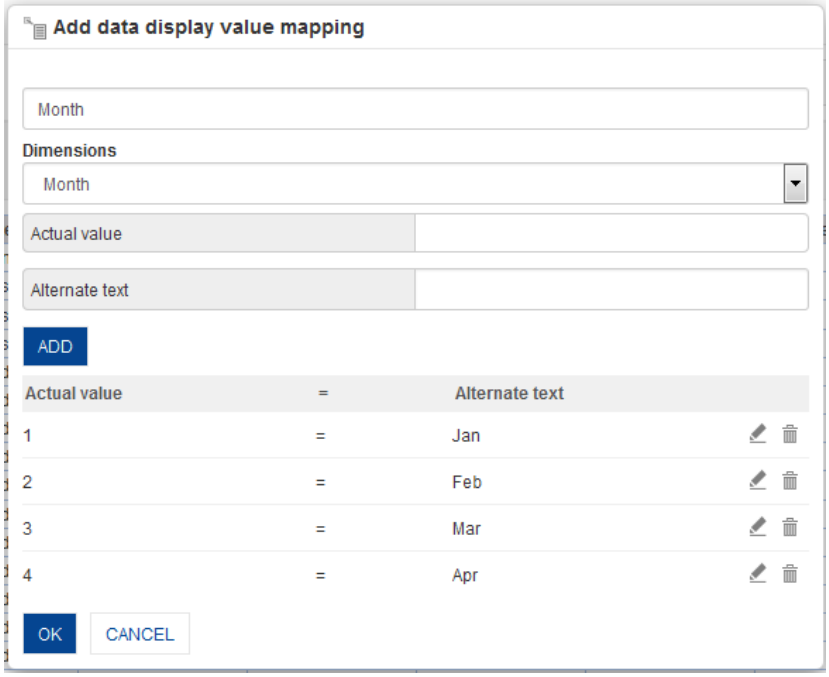
1. In the **Repository**, open tabular.
   The system displays the selected tabular.

2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage data display value mapping.**
   The system displays the **Manage data display value mapping** dialog box.



TABULAR: MANAGE DATA DISPLAY VALUE MAPPING

4. In the **Manage data display value mapping** dialog box, click **Add** icon.
   The system displays the **Add data display value mapping** dialog box.



TABULAR: MAP DATA VALUE: MAPPING DATA VALUE

5. In the **name** field, enter a name.
6. In the **Dimension** drop-down list, select a dimension.
7. In the **Actual value** field, select a value.
8. In the **Alternate text** field, enter a value.
9. Click **ADD.**
   The system displays the selected values.
   You can edit the condition by clicking **Edit** icon.
   You can also delete the added values by clicking **Delete** icon.
10. Click **OK.**

Sales Report

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Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
Jan	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68
Jan	Florida	Lakeland	Ice Cream	Pineapple	562.95	387.78	36262.40
Jan	Florida	Lakeland	Ice Cream	Vanilla	3137.40	888.63	335588.10
Jan	Florida	Lakeland	Snacks	Macaroni	267.30	194.58	17337.08
Jan	Florida	Lakeland	Snacks	Noodles	533.25	359.88	31537.82
Jan	Florida	Lakeland	Tea	Ginger Tea	1059.75	655.53	115299.11
Jan	Florida	Lakeland	Tea	Green Tea	438.75	508.53	37157.68
Jan	Florida	Orlando	Alcoholic Drinks	Beer	114.75	699.03	26737.90
Jan	Florida	Orlando	Alcoholic Drinks	Whisky	86.40	1015.02	29232.58
Jan	Florida	Orlando	Bakery	Cake	143.10	300.15	14317.16
Jan	Florida	Orlando	Bakery	Cookies	855.90	824.49	235227.00
Jan	Florida	Orlando	Confectionary	Toffees	58.05	119.67	2315.61
Jan	Florida	Orlando	Cool Drinks	Cola	58.05	134.10	2594.84
Jan	Florida	Orlando	Cool Drinks	Soda	76.95	136.89	3511.23
Jan	Florida	Orlando	Fruit Juices	Apple	561.60	299.13	55997.14
Jan	Florida	Orlando	Fruit Juices	Mango	47.25	334.62	5270.26
Jan	Florida	Orlando	Fruit Juices	Orange	514.35	302.16	51805.33
Jan	Florida	Orlando	Health Drinks	Chocolate	237.60	440.67	34901.06

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TABULAR: AFTER APPLYING DATA VALUE DISPLAY VALUE MAPPING

Reference: **Concept Manual > Analytic Functions > Data value / Display value mapping**

9.3.15.1 Create and Manage Templates

Data Value / Display Value mapping templates for tabular can be shared with other Smarten modules, such as Crosstab and Graphs.

Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage data display value mapping.**
   The system displays the **Manage data display value mapping** dialog box.
4. In the **Manage data display value mapping** dialog box, select a checkbox in front of a DDVM name.
   The system displays a toolbar for managing tool template.

TABULAR: CREATE AND MANAGE DATA DISPLAY VALUE MAPPING TEMPLATES

TABULAR: CREATE AND MANAGE DATA DISPLAY VALUE MAPPING TOOLBAR

Icon	Icon name
	Refresh
	Add
	Edit
	Private
	Public
	Active
	Inactive
	Delete

TABULAR: CREATE AND MANAGE DATA DISPLAY VALUE MAPPING TOOLBAR OPTIONS

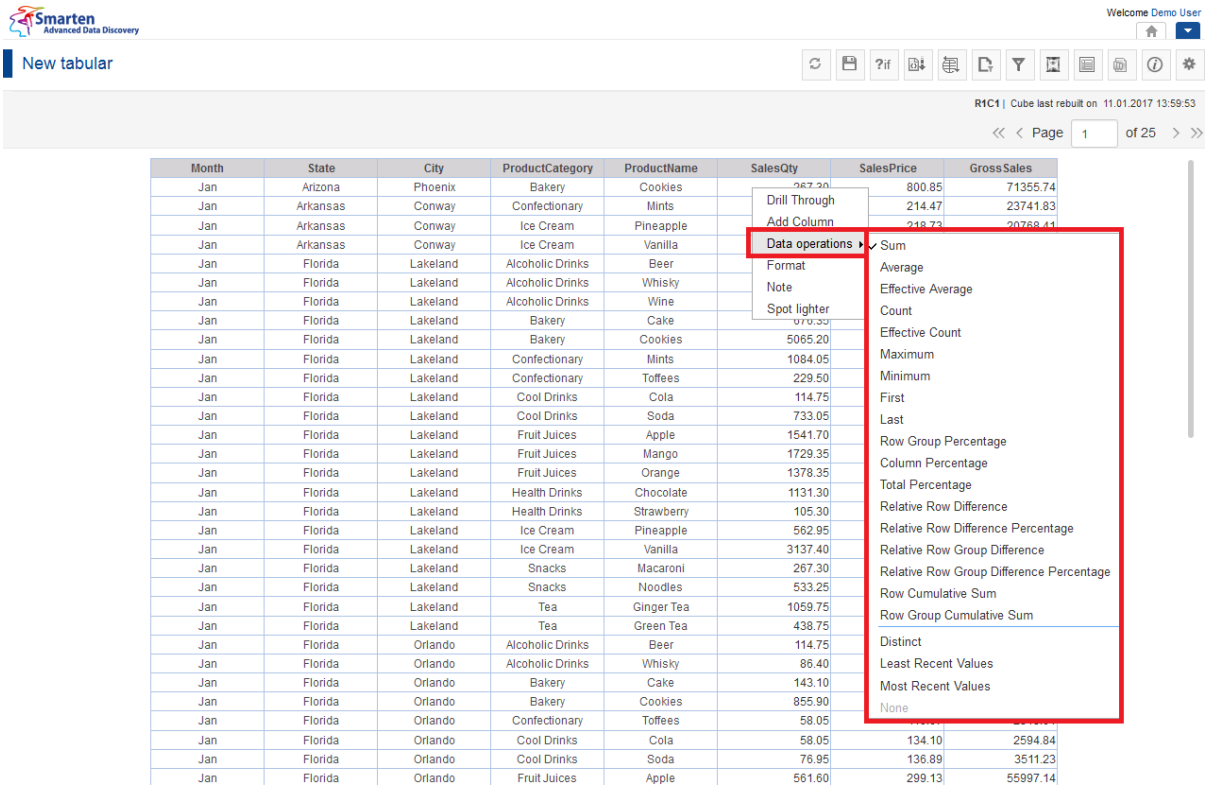
> Note:
> Templates can be edited or deleted only by creator of the template or the administrator.

9.3.16 Data Operations

The Data Operation function is used to perform various operations on any data in the tabular. You can perform Sum, Average, Effective Average, Count, Effective Count, and other available data operations on any number of columns in tabular.

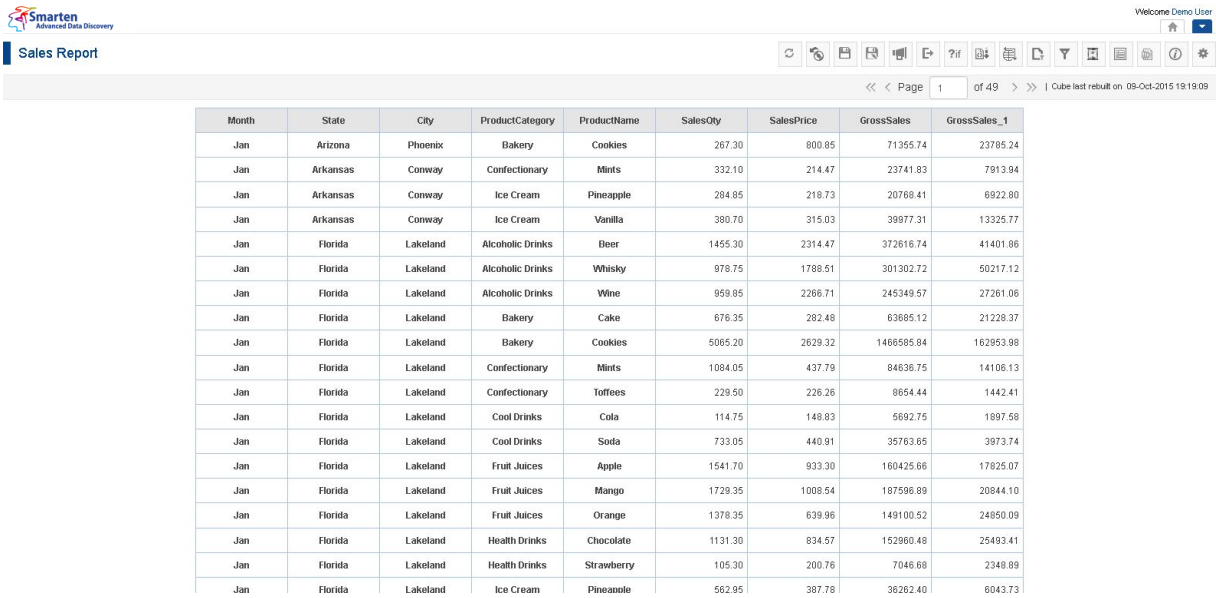
Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the tabular, right-click on a specific cell in measure or custom measure (UDDC) column.
   The system displays the menu with various options.
3. Select **Data operations.**
   The system displays the submenu with a list of data operations.



Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	[illegible]	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	Mints	[illegible]	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	Pineapple	[illegible]	[illegible]	[illegible]
Jan	Arkansas	Conway	Ice Cream	Vanilla	[illegible]	[illegible]	[illegible]
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	[illegible]	[illegible]	[illegible]
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	[illegible]	[illegible]	[illegible]
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	[illegible]	[illegible]	[illegible]
Jan	Florida	Lakeland	Bakery	Cake	[illegible]	[illegible]	[illegible]
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	[illegible]	[illegible]
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	[illegible]	[illegible]
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	[illegible]	[illegible]
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	[illegible]	[illegible]
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	[illegible]	[illegible]
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	[illegible]	[illegible]
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	[illegible]	[illegible]
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	[illegible]	[illegible]
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	[illegible]	[illegible]
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	[illegible]	[illegible]
Jan	Florida	Lakeland	Ice Cream	Pineapple	562.95	[illegible]	[illegible]
Jan	Florida	Lakeland	Ice Cream	Vanilla	3137.40	[illegible]	[illegible]
Jan	Florida	Lakeland	Snacks	Macaroni	267.30	[illegible]	[illegible]
Jan	Florida	Lakeland	Snacks	Noodles	533.25	[illegible]	[illegible]
Jan	Florida	Lakeland	Tea	Ginger Tea	1059.75	[illegible]	[illegible]
Jan	Florida	Lakeland	Tea	Green Tea	438.75	[illegible]	[illegible]
Jan	Florida	Orlando	Alcoholic Drinks	Beer	114.75	[illegible]	[illegible]
Jan	Florida	Orlando	Alcoholic Drinks	Whisky	86.40	[illegible]	[illegible]
Jan	Florida	Orlando	Bakery	Cake	143.10	[illegible]	[illegible]
Jan	Florida	Orlando	Bakery	Cookies	855.90	[illegible]	[illegible]
Jan	Florida	Orlando	Confectionary	Toffees	58.05	[illegible]	[illegible]
Jan	Florida	Orlando	Cool Drinks	Cola	58.05	134.10	2594.84
Jan	Florida	Orlando	Cool Drinks	Soda	76.95	136.89	3511.23
Jan	Florida	Orlando	Fruit Juices	Apple	561.60	299.13	55997.14

TABULAR: DATA OPERATIONS LIST



Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales	GrossSales_1
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74	23785.24
Jan	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83	7913.94
Jan	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41	6922.80
Jan	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31	13325.77
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74	41401.86
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72	50217.12
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57	27261.06
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12	21228.37
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84	162953.98
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75	14106.13
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44	1442.41
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75	1897.58
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65	3973.74
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66	17825.07
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89	20844.10
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52	24850.09
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48	25493.41
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68	2348.89
Jan	Florida	Lakeland	Ice Cream	Pineapple	562.95	387.78	36262.40	6043.73

TABULAR: DATA OPERATION: SUM OF GROSS SALES, AVG OF GROSSSALES_1

You can select from the available data operations:

- **Sum:** Total/Sum of all values across row or column in the crosstab
- **Average:** Average of all values at the cube record level
- **Effective Average:** Average of all "not null" values at the cube record level
- **Count:** Count of all values at cube record level
- **Effective count:** Count of all not null values at cube record level
- **Maximum:** Greatest among all the values at cube record level
- **Minimum:** Lowest among all the values at cube record level
- **First:** First among all the values at cube record level
- **Last:** Last among all the values at cube record level

- **Row Percentage:** Percentage value against row level summary within the same row
- **Row Group Percentage:** Percentage value against row group level summary (within the same group)
- **Relative Row Difference:** Difference with respect to the previous row value
- **Relative Row Difference Percentage:** Difference with respect to the previous row value in percentage
- **Relative Row Group Difference:** Difference with respect to the previous row value (within same group)
- **Relative Row Group Difference Percentage:** Difference with respect to the previous row value (within same group) in percentage
- **Row Cumulative Sum:** Row-wise cumulative sum of all previous values for every column
- **Row Group Cumulative Sum:** Row-wise cumulative sum of all previous values for every column (within the same group)
- **Distinct Count:** – Unique (Distinct) count value of specified dimension
- **Distinct Sum:** Sum of Unique (Distinct) values of specified dimension
- **Distinct Average:** Average of Unique (Distinct) values of specified dimension
- **Least Recent:** Least recent of all values
- **Most Recent:** Most recent of all values

Reference: **Concept Manual > Analytic Functions > Data Operations**

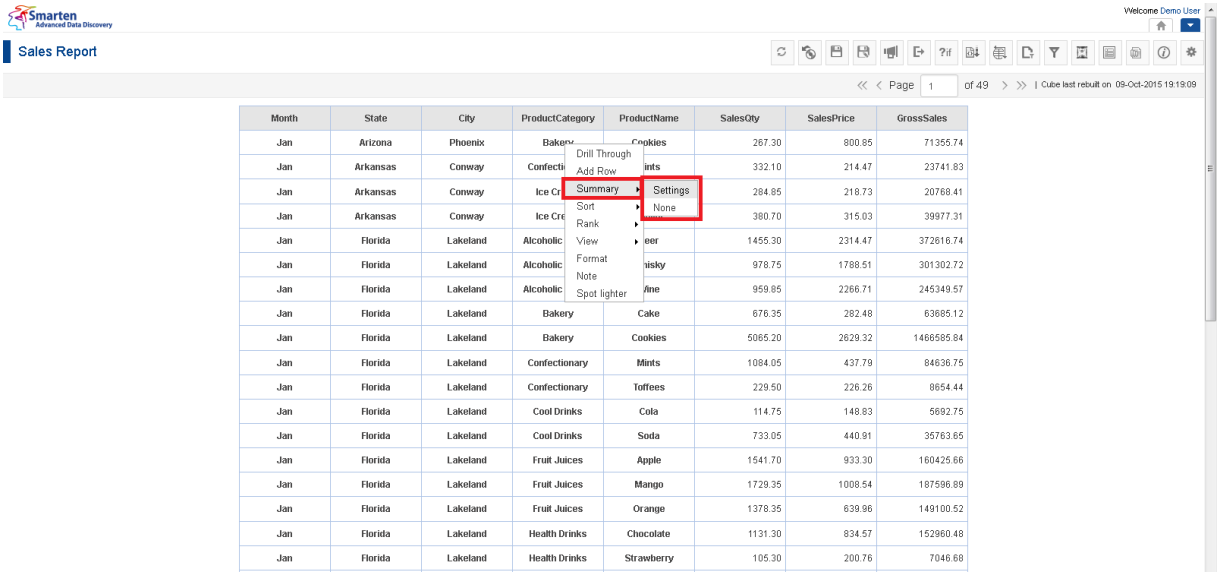
Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

9.3.17 Summary Operations

The Summary operation is used to calculate the summary on multiple column dimensions.

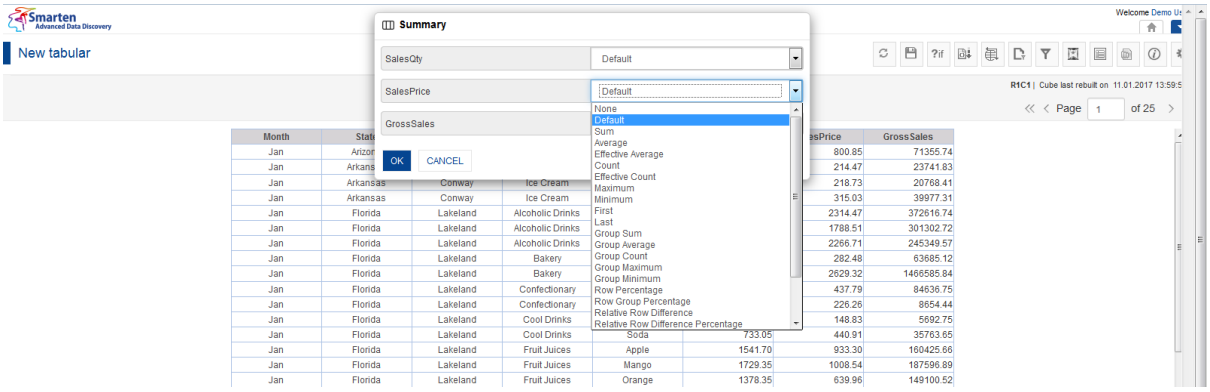
Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the tabular, right-click on a specific cell in row dimension.
   The system displays the menu with various options.
3. Select **Summary.**
   The system displays the submenu with two options: Settings and None.



TABULAR: SUMMARY OPERATION LINK

4. Click **Settings**.
   The system displays the **Summary** dialog box.
   It displays all the measures used in the tabular. You can select summary operations for these measures from the drop-down list, with all measures used in the tabular. Select default summary operation if you want to auto select summary operation based on data operation applied on that measure.
   If you select **None**, then any summary applied on that dimension will be removed.
5. Click **OK**.



TABULAR: SUMMARY OPERATIONS

Smarten Advanced Data Discovery

Welcome Demo User

Sales Report

Page 1 of 75 | Cube last rebuilt on 09-Oct-2015 19:19:09

Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
				Summary	**267.30**	**800.85**	**71355.74**
Jan	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83
				Summary	**332.10**	**214.47**	**23741.83**
Jan	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
Jan	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
				Summary	**665.55**	**533.76**	**60745.72**
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
				Summary	**3393.90**	**6369.69**	**919269.03**
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
				Summary	**5741.55**	**2911.80**	**1530270.95**
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
				Summary	**1313.55**	**664.05**	**93291.20**
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
				Summary	**847.80**	**589.74**	**41456.39**
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
				Summary	**4649.40**	**2581.80**	**497123.07**
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68
				Summary	**1236.60**	**1035.33**	**160007.16**
Jan	Florida	Lakeland	Ice Cream	Pineapple	562.95	387.78	36262.40
Jan	Florida	Lakeland	Ice Cream	Vanilla	3137.40	888.63	335588.10
				Summary	**3700.35**	**1276.41**	**371850.51**
Jan	Florida	Lakeland	Snacks	Macaroni	267.30	194.58	17337.08
Jan	Florida	Lakeland	Snacks	Noodles	533.25	359.88	31537.82
				Summary	**800.55**	**554.46**	**48874.90**
Jan	Florida	Lakeland	Tea	Ginger Tea	1059.75	655.53	115299.11
Jan	Florida	Lakeland	Tea	Green Tea	438.75	508.53	37157.68

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TABULAR: SUMMARY OPERATION: PRODUCTWISE SUM OF SALESQTY, SALESPRICE AND GROSS SALES

You can select different summary operations for different measures.

Reference: **Concept Manual > Analytic Functions > Summary Operations**

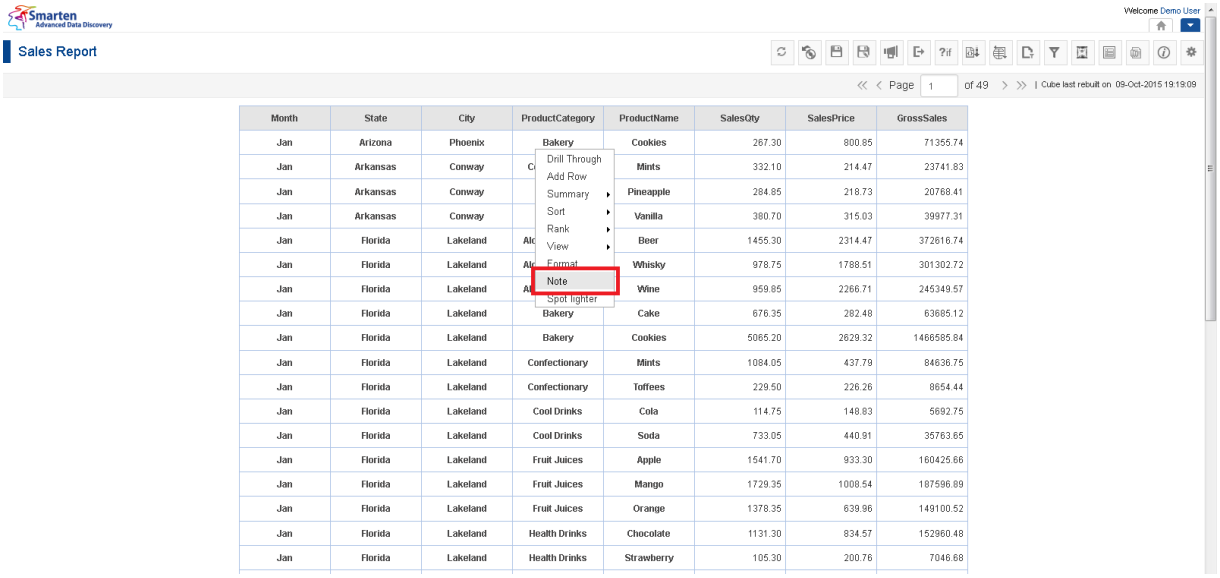
Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

9.3.18 Notes

This option is used to add note for specific cell in the tabular. This note will be shown at mouse over event of the cell. Note can be set as private or public view.

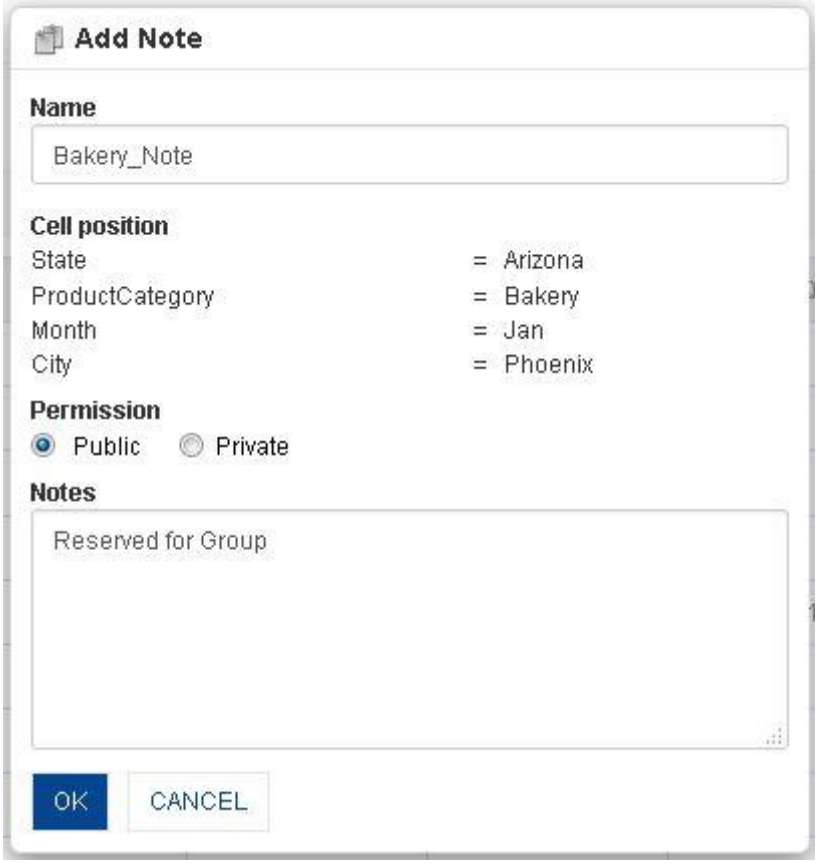
Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the tabular, right-click on a specific cell in row or column dimension.
   The system displays the menu with various options.
3. Select **Notes.**
   The system displays the **Add note** dialog box.



Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
Jan	Arkansas	Conway	C	Mints	332.10	214.47	23741.83
Jan	Arkansas	Conway		Pineapple	284.85	218.73	20768.41
Jan	Arkansas	Conway		Vanilla	380.70	315.03	39977.31
Jan	Florida	Lakeland	Alc	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alc	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Al	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68

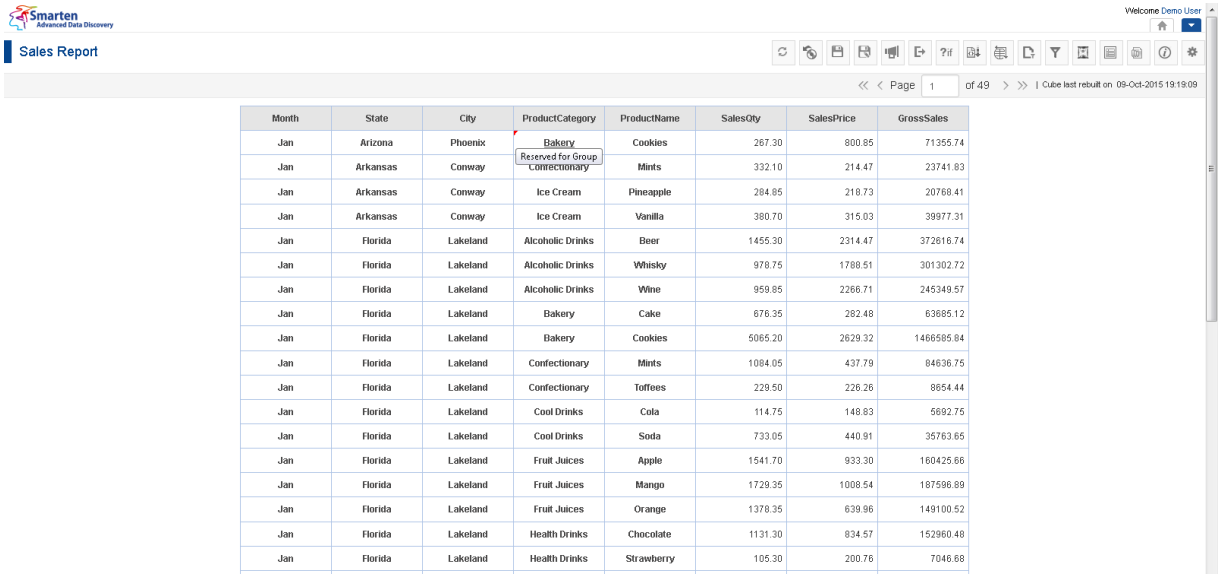
TABULAR: NOTES



TABULAR: NOTES: ADD NOTE

4. In the **Name** field, enter a name.
5. In **Permission** select either **Public** or **Private** radio button.
6. In the **Notes** field, enter the required information.
7. Click **OK.**

   Red pointer is displayed on the added note cell. If you mouse over on the cell, a note will be displayed.



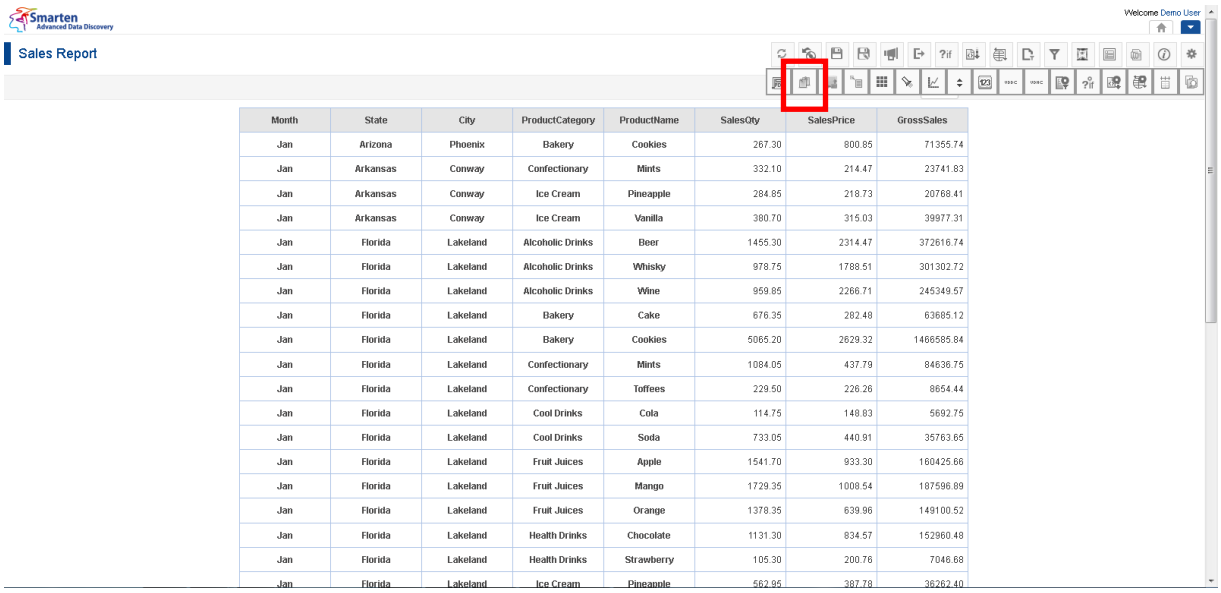
Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
Jan	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68

CROSSTAB: AFTER ADD NOTES

9.3.18.1 Manage Notes

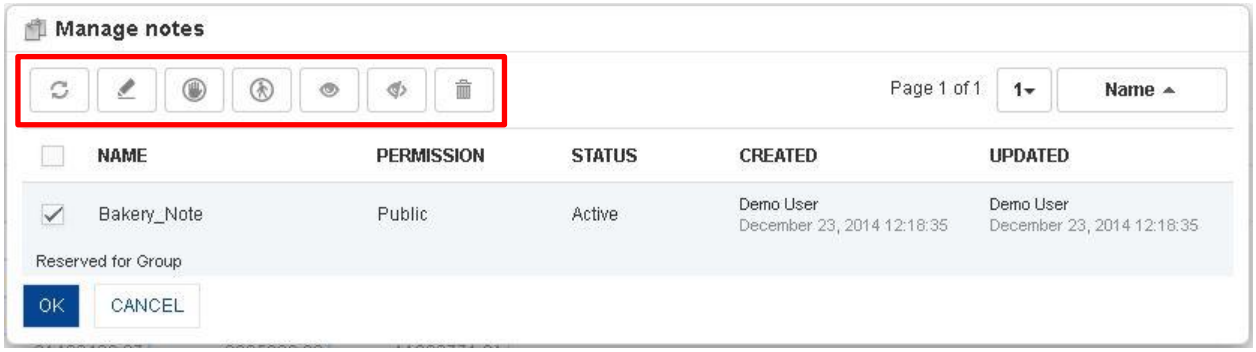
Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage notes.**
   The system displays the **Manage notes** dialog box.
4. In the **Manage notes** dialog box, select a checkbox in front of a note name.
   The system displays a toolbar to manage notes template.



Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
Jan	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68
Jan	Florida	Lakeland	Ice Cream	Pineapple	562.95	387.78	36262.40

TABULAR: MANAGE NOTES ICON



TABULAR: MANAGE NOTES

TABULAR: MANAGE NOTES TEMPLATE TOOLBAR

Icon	Icon name
	Refresh
	Edit
	Private
	Public
	Active
	Inactive
	Delete

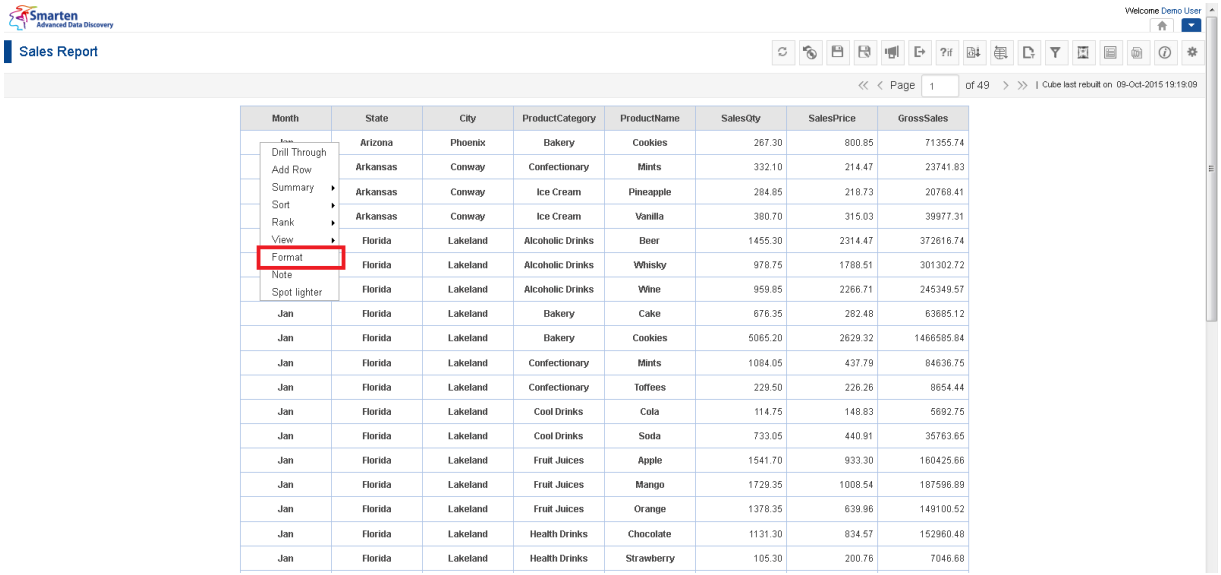
TABULAR: MANAGE NOTES TEMPLATE TOOLBAR OPTIONS

9.3.19 Format

This option is used to set the formatting options of a particular dimension or measure cell. You can also set the formatting options for summary cells using this option.

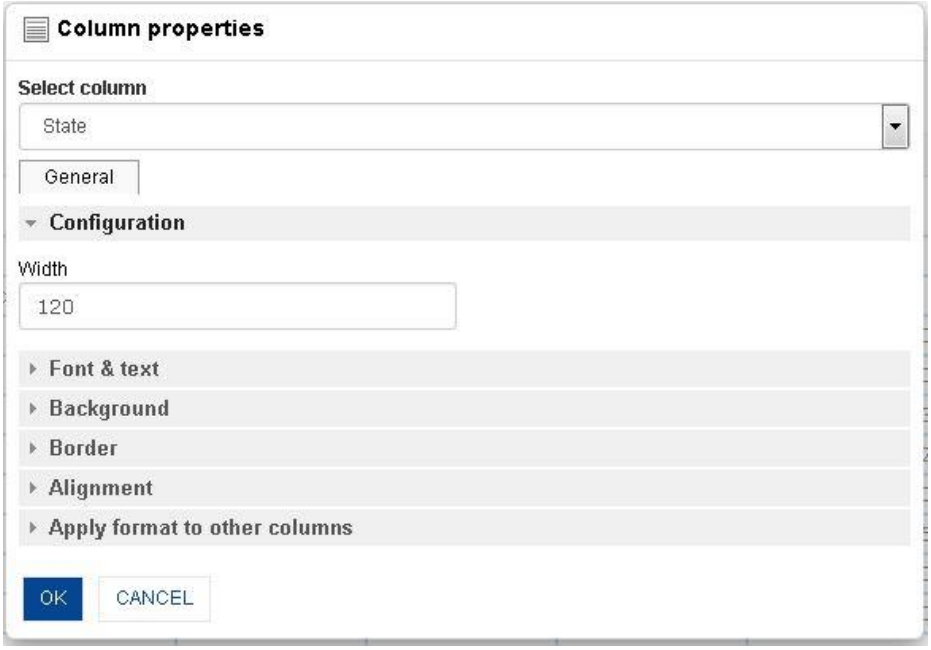
Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the tabular, right-click on a specific cell in row or column dimension.
   The system displays the menu with various options.
3. Select **Format.**
   The system displays the **Column properties** dialog box.

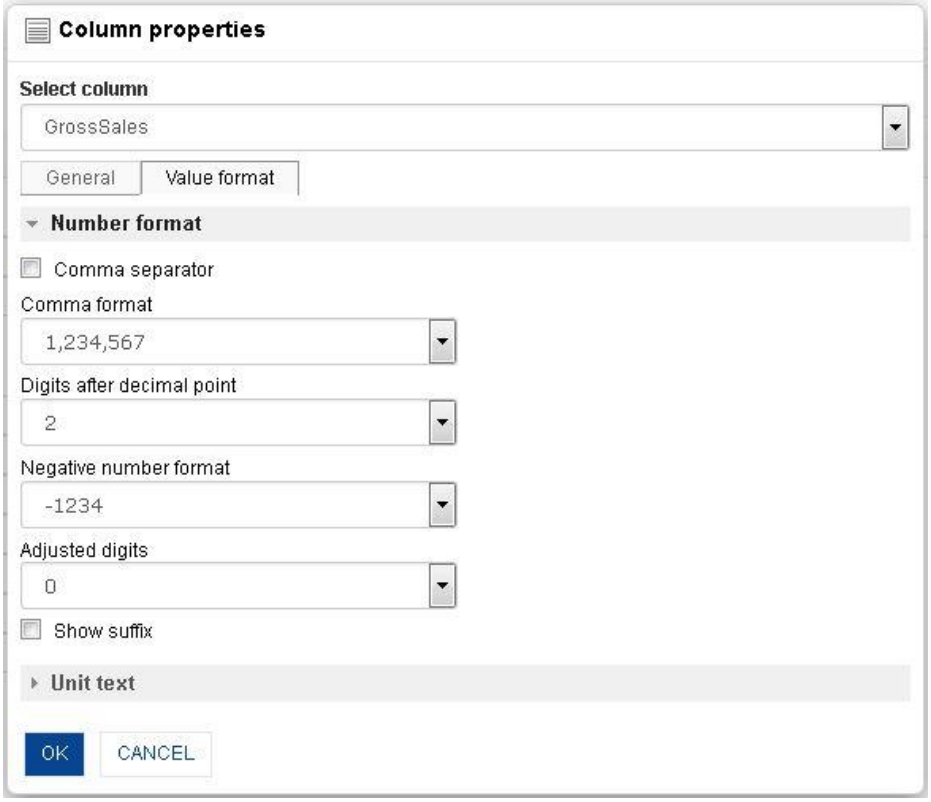


Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83
	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68

TABULAR: FORMAT

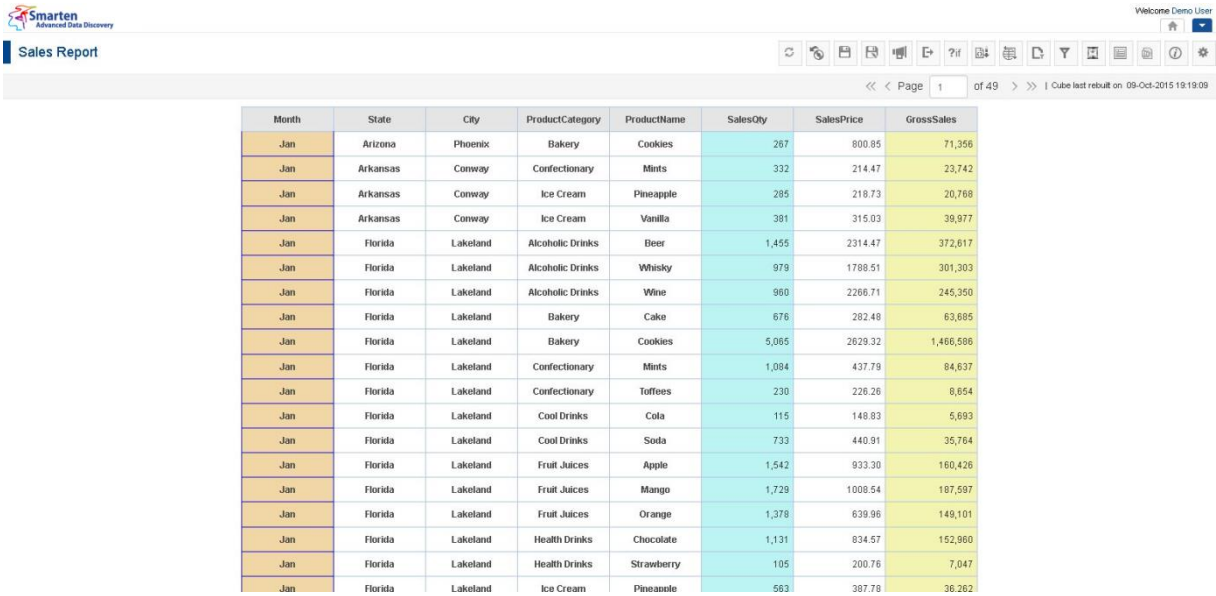


TABULAR: DIMENSION & SUMMARY COLUMNS FORMAT: GENERAL FORMATTING



TABULAR: MEASURE COLUMN FORMAT: VALUE FORMATTING

4. From the Select column drop-down list, select a value.
   The system displays **General** tab for both measures and dimensions. The system will display only value tab for measures and custom measures.
5. In the **General** tab,
   - In the **Width** field, enter width.
   - In the **Font & text** section, select the font name, size, style, and colour.
   - In the **Background** section, select background visibility and colour.
   - In the **Border** section, select border visibility, width, style, and colour.
   - In the **Alignment** section, select options in **Vertical** and **Horizontal** drop-down lists.
   - Select **Apply format to other columns** to apply the format options in this dialog box to other columns in the tabular, so you do not have to repeat the tasks.
6. In the **Value format** tab, this will be shown only for measures formatting.
   - In the **Date format** section, select date from the **Date** drop-down list.
   - In the **Time format** section, select date from the **Date** drop-down list.
7. Click **OK.**



Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267	800.85	71,356
Jan	Arkansas	Conway	Confectionary	Mints	332	214.47	23,742
Jan	Arkansas	Conway	Ice Cream	Pineapple	285	218.73	20,768
Jan	Arkansas	Conway	Ice Cream	Vanilla	381	315.03	39,977
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1,455	2314.47	372,617
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	979	1788.51	301,303
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	960	2266.71	245,350
Jan	Florida	Lakeland	Bakery	Cake	676	282.48	63,685
Jan	Florida	Lakeland	Bakery	Cookies	5,065	2629.32	1,466,586
Jan	Florida	Lakeland	Confectionary	Mints	1,084	437.79	84,637
Jan	Florida	Lakeland	Confectionary	Toffees	230	226.26	8,654
Jan	Florida	Lakeland	Cool Drinks	Cola	115	148.83	5,693
Jan	Florida	Lakeland	Cool Drinks	Soda	733	440.91	35,764
Jan	Florida	Lakeland	Fruit Juices	Apple	1,542	933.30	160,426
Jan	Florida	Lakeland	Fruit Juices	Mango	1,729	1008.54	187,597
Jan	Florida	Lakeland	Fruit Juices	Orange	1,378	639.96	149,101
Jan	Florida	Lakeland	Health Drinks	Chocolate	1,131	834.57	152,960
Jan	Florida	Lakeland	Health Drinks	Strawberry	105	200.76	7,047
Jan	Florida	Lakeland	Ice Cream	Pineapple	563	387.78	36,262

TABULAR: AFTER FORMATTING

Format Column Properties

Element	Properties	Sub Properties	Default Value	Values
Configuration	Width		120	0 – 999
	Column header			“Any String”
	Show NULL value as			
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#4a4949	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF

Element	Properties	Sub Properties	Default Value	Values
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
Alignment	Horizontal		Center	Left/Center/Right
	Vertical		Center	Left/Center/Right

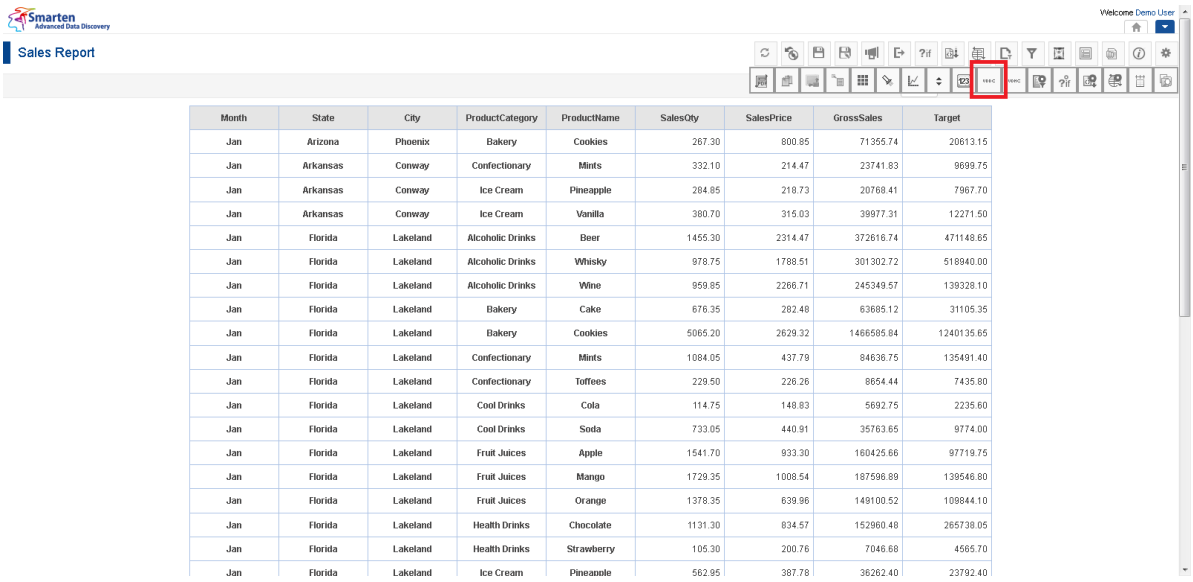
Column Properties - general

Element	Properties	Sub Properties	Default Value	Values
Number format	Comma separator		FALSE	True/False
	Comma format		1, 234, 567	1, 234, 567/ 12, 34 , 567
	Digits after decimal point		2	0 – 5
	Negative number format		-1234	
	Adjusted digits		0	0, 1/1000K, 1/100000L, 1/1000000M, 1/10000000Cr, 1/100000000Bn
	Show suffix		False	True/False
Unit text	Text		None	None,%,#,Rs, etc.
	Position		Prefix	Prefix/Suffix
Date format			01 – Sep – 2003	
Time format			03:02:05	

COLUMN PROPERTIES—MEASURE OR LABEL – VALUE FORMAT

9.3.20 Custom Measure UDDC

Custom measures can be created by building expression on existing columns.

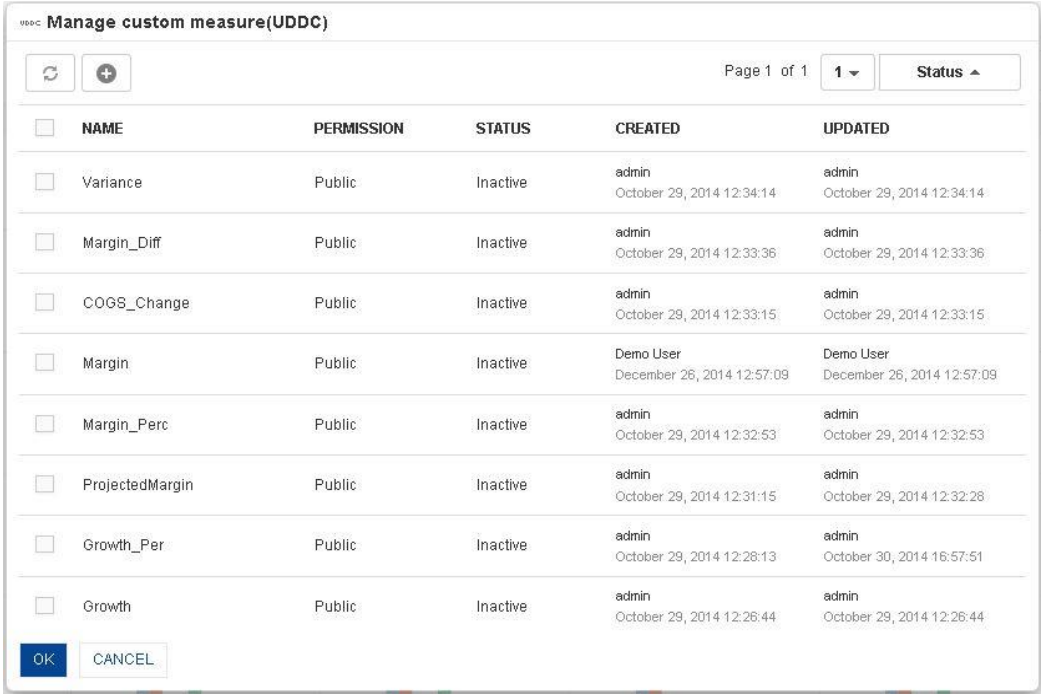


Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales	Target
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74	20613.15
Jan	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83	9699.75
Jan	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41	7967.70
Jan	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31	12271.50
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74	471148.65
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72	518940.00
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57	139328.10
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12	31105.35
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84	1240135.65
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75	135491.40
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44	7435.80
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75	2235.60
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65	9774.00
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66	97719.75
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89	139548.80
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52	109844.10
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48	265738.05
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68	4565.70
Jan	Florida	Lakeland	Ice Cream	Pineapple	562.95	387.78	36262.40	23792.40

TABULAR: MANAGE UDDC

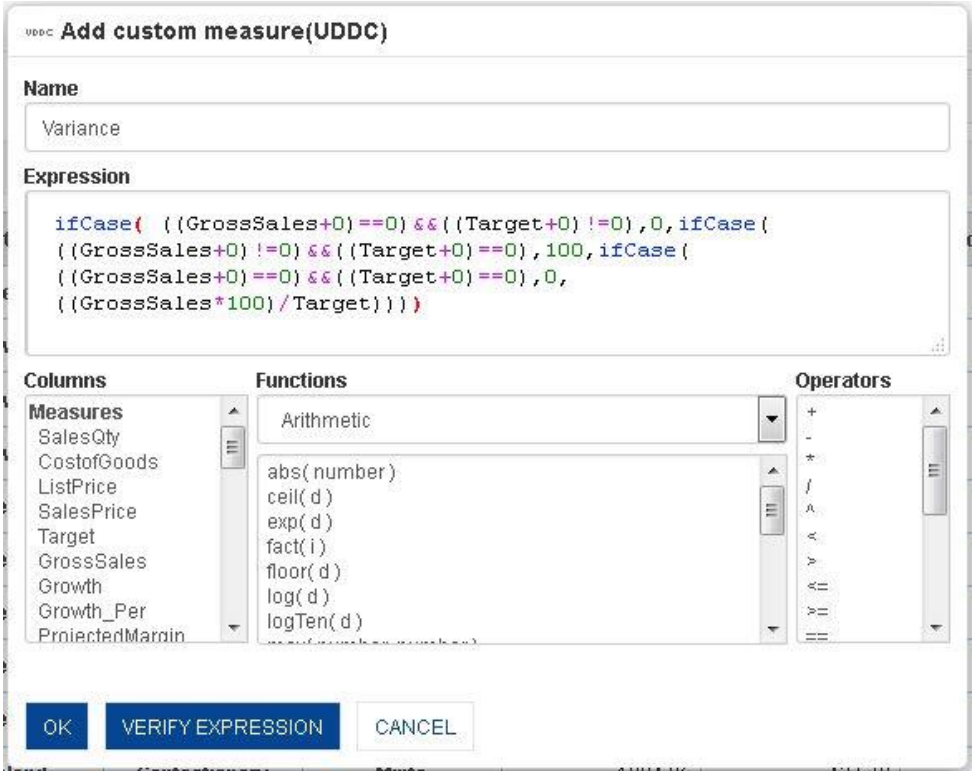
Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage UDDC.**
   The system displays the **Manage custom measure (UDDC)** dialog box.



TABULAR: CREATE AND MANAGE CUSTOM MEASURE (UDDC) TEMPLATE

4. In the **Manage custom measure (UDDC)** dialog box, click **Add** icon.
   The system displays the **Add custom measure (UDDC)** dialog box.



TABULAR: ADD CUSTOM MEASURES (UDDC)

5. In the **Name** field, enter a name.
6. You can create or edit expression by direct edit in the **Expression** box or by selecting values from Dimension Values, Functions, and Operators boxes.
7. Click **OK**.

Smarten Advanced Data Discovery

Welcome Demo User

Sales Report

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Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales	Target	Variance
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74	20613.15	346.17
Jan	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83	9699.75	244.77
Jan	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41	7967.70	260.66
Jan	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31	12271.50	325.77
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74	471148.65	79.09
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72	518940.00	58.06
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57	139328.10	176.09
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12	31105.35	204.74
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84	1240135.65	118.26
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75	135491.40	62.47
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44	7435.80	116.39
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75	2235.60	254.64
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65	9774.00	365.91
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66	97719.75	164.17
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89	139546.80	134.43
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52	109844.10	135.74
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48	265738.05	57.56
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68	4565.70	154.34
Jan	Florida	Lakeland	Ice Cream	Pineapple	562.95	387.78	36262.40	23792.40	152.41
Jan	Florida	Lakeland	Ice Cream	Vanilla	3137.40	888.63	335588.10	568085.40	59.07
Jan	Florida	Lakeland	Snacks	Macaroni	267.30	194.58	17337.08	39164.85	44.27
Jan	Florida	Lakeland	Snacks	Noodles	533.25	359.88	31537.82	12717.00	248.00
Jan	Florida	Lakeland	Tea	Ginger Tea	1059.75	655.53	115299.11	163888.65	70.35
Jan	Florida	Lakeland	Tea	Green Tea	438.75	508.53	37157.68	35572.50	104.46
Jan	Florida	Orlando	Alcoholic Drinks	Beer	114.75	699.03	26737.90	18771.75	142.44
Jan	Florida	Orlando	Alcoholic Drinks	Whisky	86.40	1015.02	29232.58	6332.85	461.60
Jan	Florida	Orlando	Bakery	Cake	143.10	300.15	14317.16	7218.45	198.34
Jan	Florida	Orlando	Bakery	Cookies	855.90	824.49	235227.00	150450.75	156.35
Jan	Florida	Orlando	Confectionary	Toffees	58.05	119.67	2315.61	1757.70	131.74
Jan	Florida	Orlando	Cool Drinks	Cola	58.05	134.10	2594.84	1193.40	217.43
Jan	Florida	Orlando	Cool Drinks	Soda	76.95	136.89	3511.23	1483.65	236.66
Jan	Florida	Orlando	Fruit Juices	Apple	561.60	299.13	55997.14	24871.05	225.15
Jan	Florida	Orlando	Fruit Juices	Mango	47.25	334.62	5270.26	1043.55	505.03
Jan	Florida	Orlando	Fruit Juices	Orange	514.35	302.16	51805.33	18505.80	279.94
Jan	Florida	Orlando	Health Drinks	Chocolate	237.60	440.67	34901.06	11264.40	309.84

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TABULAR: WITH CUSTOM MEASURE UDDC

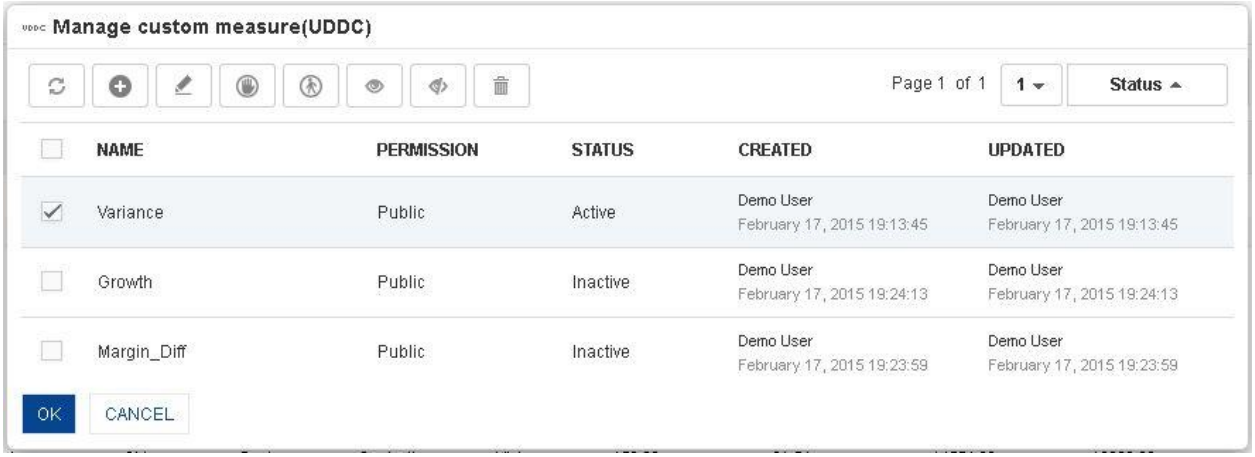
Reference: **Concept Manual > Designing the Data Model > Cube Repository Objects > Custom Measure (UDDC)**

9.3.20.1 Create & Manage Templates

Custom measure templates created in tabular can be used in other modules such as crosstab and graphs, and the templates created in other modules can be used in tabular.

Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage UDDC.**
   The system displays the **Manage custom measure (UDDC)** dialog box.
4. In the **Manage custom measure (UDDC)** dialog box, select a checkbox in front of a custom measure name.
   The system displays a toolbar for managing custom measure (UDDC) template.



TABULAR: MANAGE CUSTOM MEASURE (UDDC) TEMPLATE

TABULAR: MANAGE CUSTOM MEASURE (UDDC) TEMPLATE TOOLBAR

Icon	Icon name
	Refresh
	Add
	Private
	Public
	Active
	Inactive
	Delete

TABULAR: CUSTOM MEASURE (UDDC) TEMPLATE TOOLBAR OPTIONS

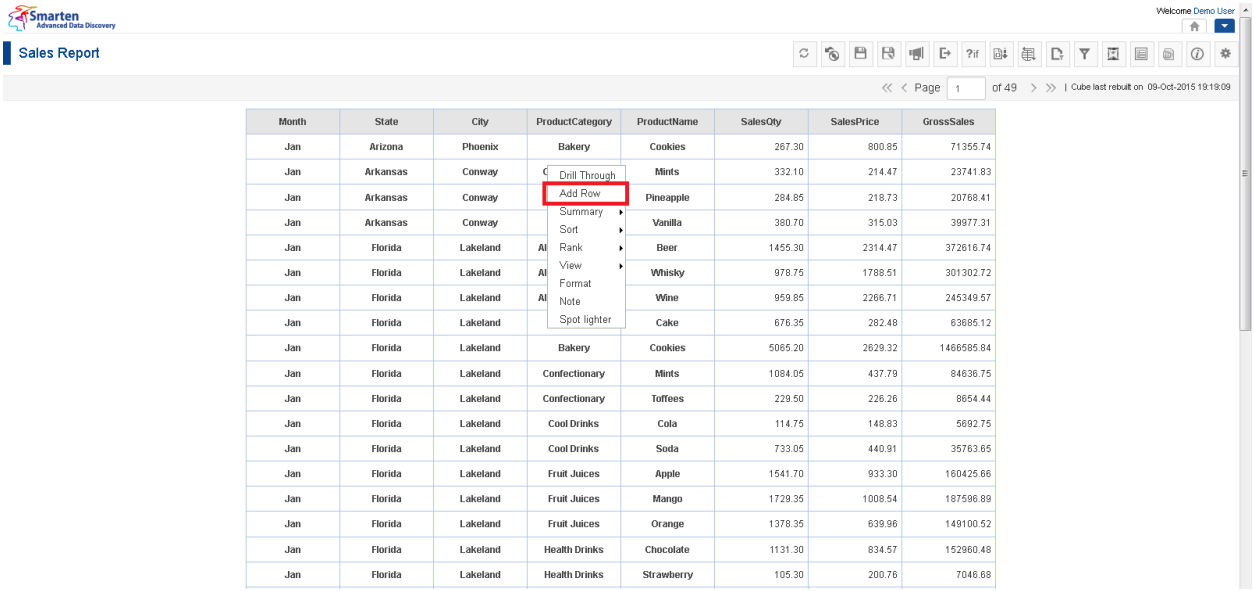
> Note:
> Templates can be edited or deleted only by creator of the template or the administrator.

9.3.21 Custom Dimension Value (UDHC)

Custom dimension value can be created by applying a formula to an existing row values as per the analysis or reporting requirements.

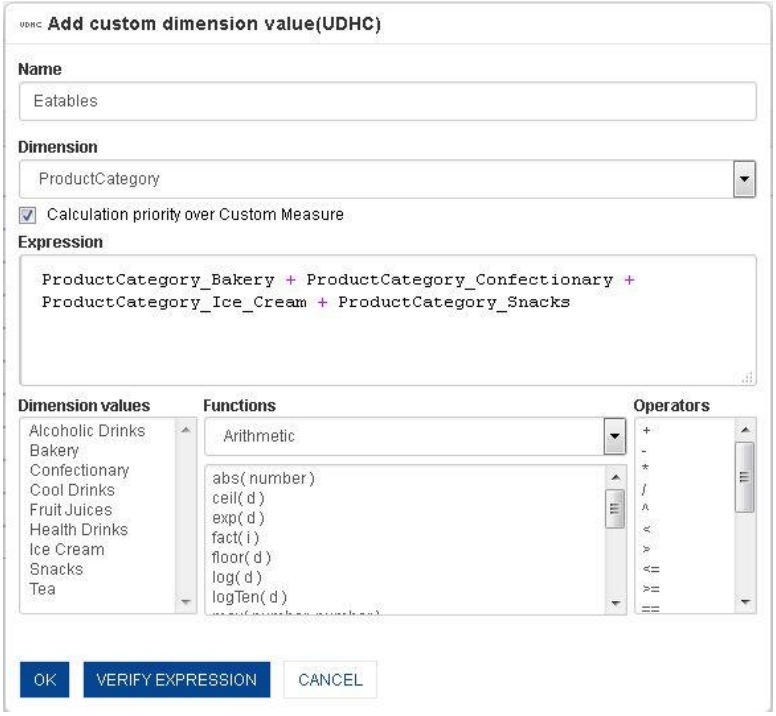
Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the tabular, right-click on a specific cell in column dimension.
   The system displays the menu.
3. In the menu, select **Add Row.**
   The system displays **Add custom dimension value (UDDC)** dialog box.



Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
Jan	Arkansas	Conway	C	Mints	332.10	214.47	23741.83
Jan	Arkansas	Conway		Pineapple	284.85	218.73	20768.41
Jan	Arkansas	Conway		Vanilla	380.70	315.03	39977.31
Jan	Florida	Lakeland	Al	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Al	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Al	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland		Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68

TABULAR: ADD ROW LINK FROM RIGHT-CLICK MENU



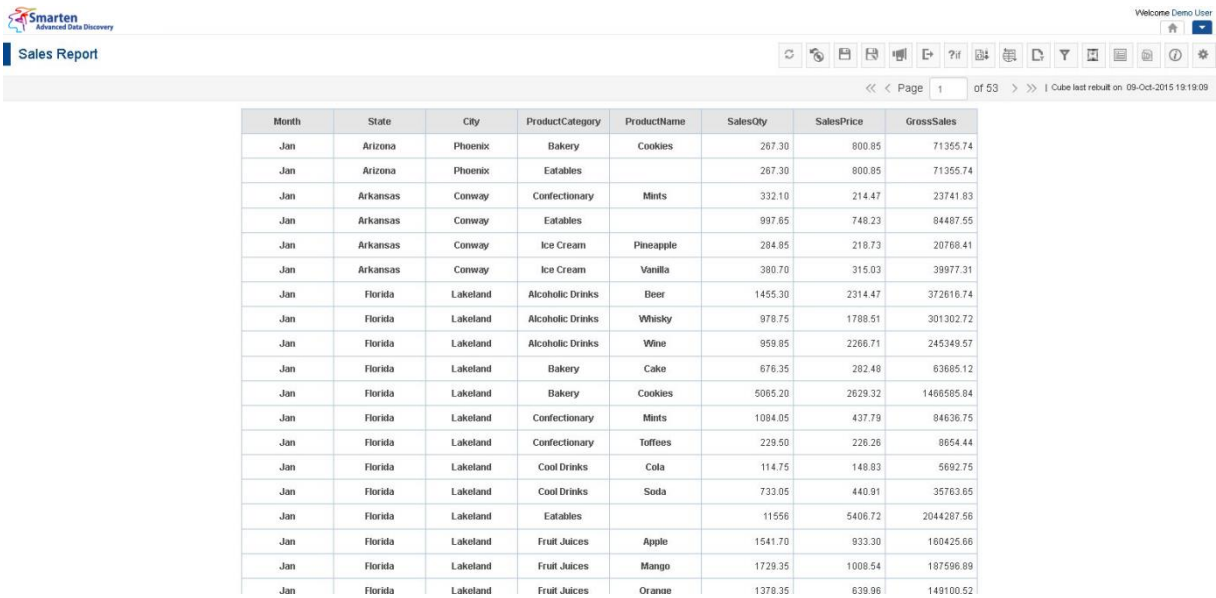
TABULAR: ADDING CUSTOM DIMENSION VALUES (UDHC)—ADD ROW

4. In the **Name** field, enter a name.
5. In the **Dimension** drop-down list, select a value.
6. Select **Calculation priority over Custom Measure** checkbox if you want to override priority of Custom Measure display value.
7. You can create or edit expression by direct edit in the **Expression** box or by selecting values from Dimension Values, Functions, and Operators boxes.
8. Click **OK.**

Field	Description
UDHC Name	Name of UDHC
Dimension	Displays list of dimensions

Calculation priority over Custom Measure	To choose the priority of intersection value based on the UDHC formula
Dimension values	Displays list of values of selected dimension
Functions	Select Functions from available list
Operators	Select any operator
Expression Builder	Created expression is displayed

TABLE: TABULAR: CUSTOM DIMENSION VALUES (UDHC)



Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
Jan	Arizona	Phoenix	Eatables		267.30	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83
Jan	Arkansas	Conway	Eatables		997.65	748.23	84487.55
Jan	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
Jan	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Eatables		11556	5406.72	2044287.56
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52

TABULAR: WITH CUSTOM DIMENSION VALUES (UDHC): EATABLES

For more details on UDHC:

Reference: **User manual > Working with Crosstab > Custom Dimension Values (UDHC)**

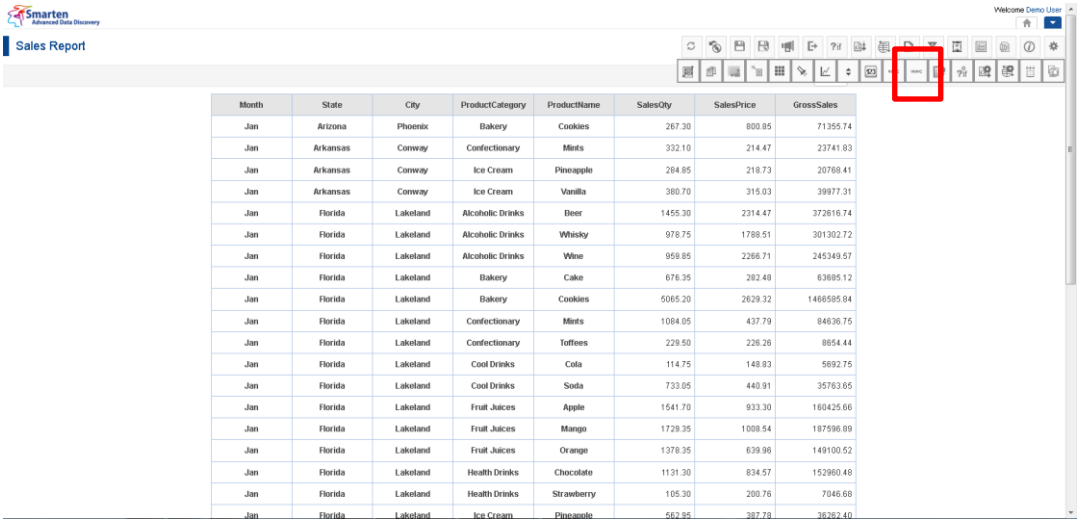
Reference: **Concept Manual > Analytic Functions > UDDC & UDHC > Custom Dimension Value (UDHC)**

Reference: **Concept Manual >Designing the Data Model >Cube Repository Objects > Custom Dimension Value (UDHC)**

9.3.21.1 Create & Manage Templates

Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage UDHC.**
   The system displays the **Manage custom dimension value (UDHC)** dialog box.

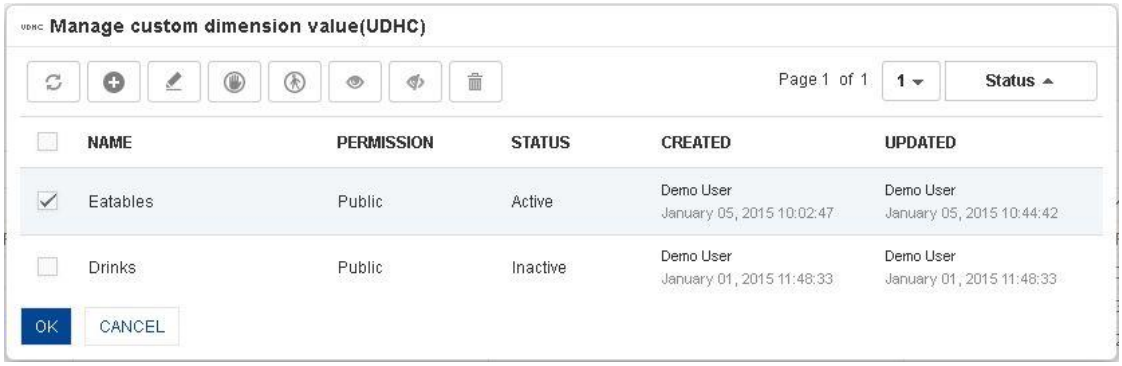


Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
Jan	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68
Jan	Florida	Lakeland	Ice Cream	Pineapple	562.95	387.78	36262.40

TABULAR: MANAGE UDHC ICON FROM TOOLBAR

4. In the **Manage custom dimension value (UDHC)** dialog box, select a checkbox in front of a custom dimension value name.

   The system displays a toolbar for managing custom dimension value (UDDC) template.



TABULAR: CUSTOM DIMENSION VALUES (UDHC) TEMPLATES

TABULAR: CUSTOM DIMENSION VALUES (UDHC) TEMPLATE TOOLBAR

Icon	Icon name
	Refresh
	Add
	Edit
	Private
	Public
	Active
	Inactive
	Delete

TABULAR: CUSTOM DIMENSION VALUES (UDHC) TEMPLATE TOOLBAR OPTIONS

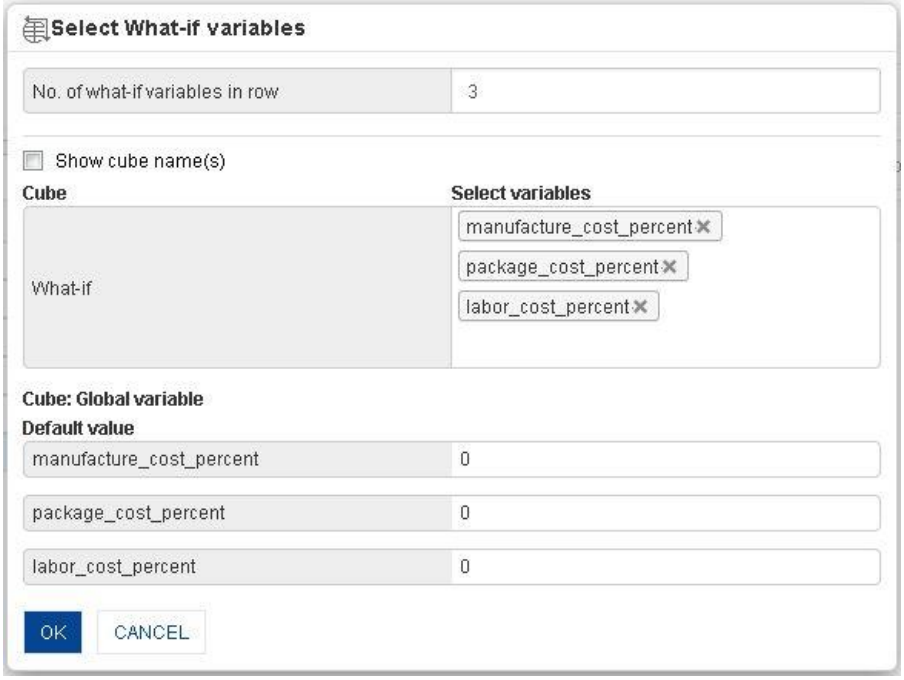
Note:
Templates can be edited or deleted only by creator of the template or the administrator.

9.3.22 What-if variables

Global variables used in Custom measures can be selected as what-if variables as per analysis or reporting requirements

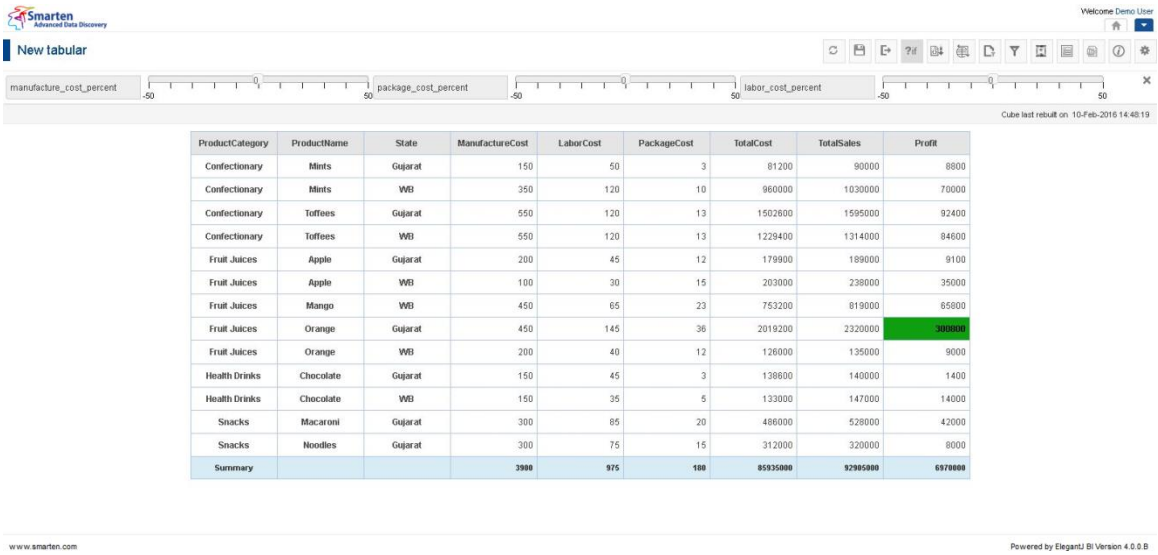
Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Select What-if variables.**
   The system displays the **Select What-if variables** dialog box.
4. In the **No. of what-if variables in row** field, enter a value



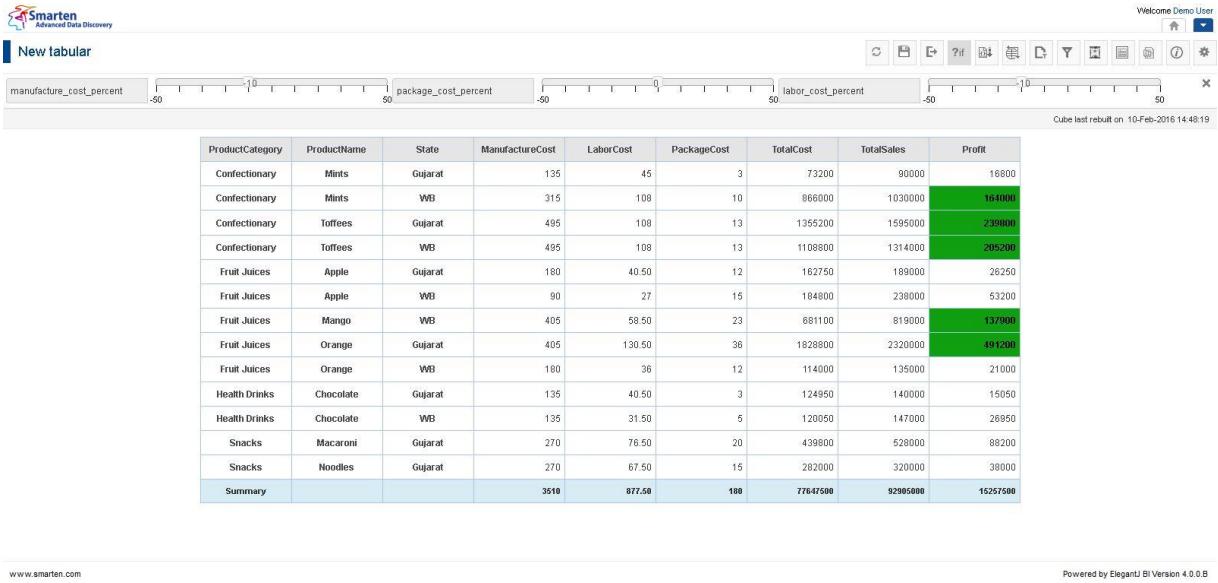
TABULAR: SELECT WHAT-IF VARIABLES: SELECTING WHAT-IF VARIABLES

5. In the **Select What-if variables** box, select variables from list of value.
   The system displays selected global variables with default value.



ProductCategory	ProductName	State	ManufactureCost	LaborCost	PackageCost	TotalCost	TotalSales	Profit
Confectionary	Mints	Gujarat	150	50	3	81200	90000	8800
Confectionary	Mints	WB	350	120	10	960000	1030000	70000
Confectionary	Toffees	Gujarat	550	120	13	1502600	1595000	92400
Confectionary	Toffees	WB	550	120	13	1229400	1314000	84600
Fruit Juices	Apple	Gujarat	200	45	12	179900	189000	9100
Fruit Juices	Apple	WB	100	30	15	203000	238000	35000
Fruit Juices	Mango	WB	450	65	23	753200	819000	65800
Fruit Juices	Orange	Gujarat	450	145	36	2019200	2320000	300800
Fruit Juices	Orange	WB	200	40	12	126000	135000	9000
Health Drinks	Chocolate	Gujarat	150	45	3	138600	140000	1400
Health Drinks	Chocolate	WB	150	35	5	133000	147000	14000
Snacks	Macaroni	Gujarat	300	85	20	486000	528000	42000
Snacks	Noodles	Gujarat	300	75	15	312000	320000	8000
Summary			3900	975	180	85935000	92905000	6970000

TABULAR BEFORE CHANGING WHAT-IF VARIABLE VALUE



ProductCategory	ProductName	State	ManufactureCost	LaborCost	PackageCost	TotalCost	TotalSales	Profit
Confectionary	Mints	Gujarat	135	45	3	73200	90000	16800
Confectionary	Mints	WB	315	108	10	866000	1030000	164000
Confectionary	Toffees	Gujarat	495	108	13	1355200	1595000	239800
Confectionary	Toffees	WB	495	108	13	1108800	1314000	205200
Fruit Juices	Apple	Gujarat	180	40.50	12	162750	189000	26250
Fruit Juices	Apple	WB	90	27	15	184800	238000	53200
Fruit Juices	Mango	WB	405	58.50	23	681100	819000	137900
Fruit Juices	Orange	Gujarat	405	130.50	36	1828800	2320000	491200
Fruit Juices	Orange	WB	180	36	12	114000	135000	21000
Health Drinks	Chocolate	Gujarat	135	40.50	3	124950	140000	15050
Health Drinks	Chocolate	WB	135	31.50	5	120050	147000	26950
Snacks	Macaroni	Gujarat	270	76.50	20	439800	528000	88200
Snacks	Noodles	Gujarat	270	67.50	15	282000	320000	38000
Summary			3510	877.50	180	77647500	92905000	15257500

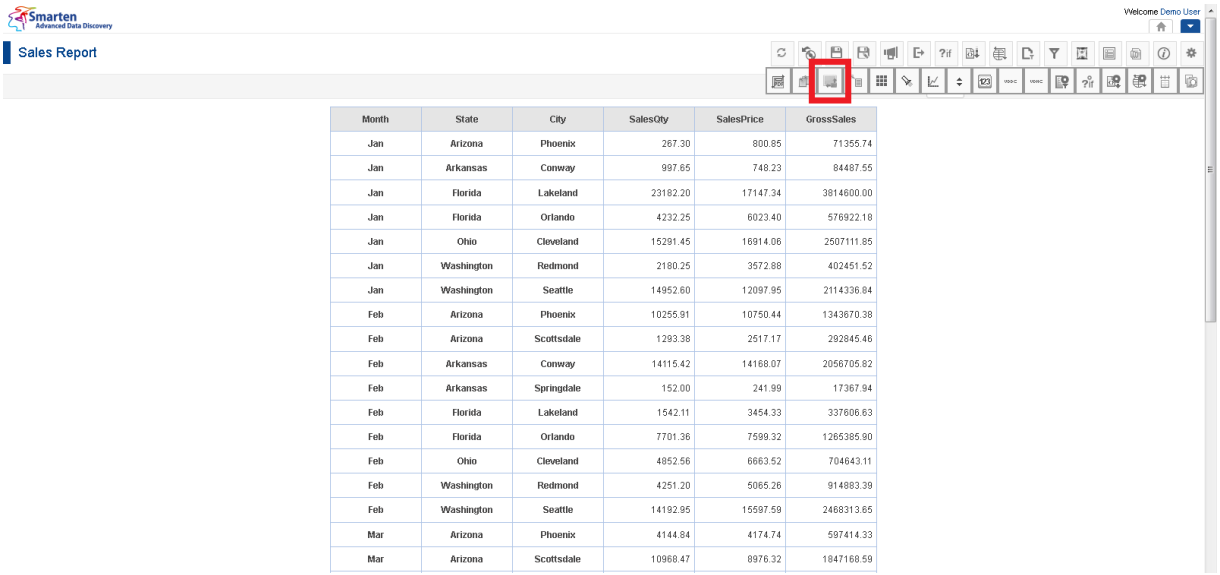
TABULAR AFTER CHANGING WHAT-IF VARIABLE VALUE

Reference: **Concept Manual > Analytic Functions > What-if Analysis**

Reference: **User Manual > Smarten Advanced Data Discovery > Supported Features for Different Cubes**

9.3.23 Subview

Subview allows drill-down view of same or different set of columns from the higher level. You can view detailed information of dimensions by associating them with another relevant tabular or crosstab.



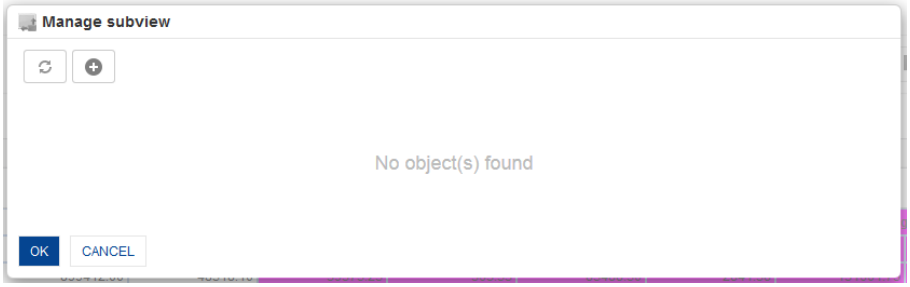
Month	State	City	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	267.30	800.85	71355.74
Jan	Arkansas	Conway	997.65	748.23	84487.55
Jan	Florida	Lakeland	23182.20	17147.34	3814600.00
Jan	Florida	Orlando	4232.25	6023.40	576922.18
Jan	Ohio	Cleveland	15291.45	16914.06	2507111.85
Jan	Washington	Redmond	2180.25	3572.88	402451.52
Jan	Washington	Seattle	14952.60	12097.95	2114336.84
Feb	Arizona	Phoenix	10255.91	10750.44	1343670.38
Feb	Arizona	Scottsdale	1293.38	2517.17	292845.46
Feb	Arkansas	Conway	14115.42	14168.07	2056705.82
Feb	Arkansas	Springdale	152.00	241.99	17367.94
Feb	Florida	Lakeland	1542.11	3454.33	337606.63
Feb	Florida	Orlando	7701.36	7599.32	1266385.90
Feb	Ohio	Cleveland	4852.56	6663.52	704643.11
Feb	Washington	Redmond	4251.20	5065.26	914883.39
Feb	Washington	Seattle	14192.95	15597.59	2468313.65
Mar	Arizona	Phoenix	4144.84	4174.74	597414.33
Mar	Arizona	Scottsdale	10968.47	8976.32	1847168.59

TABULAR: MANAGE SUBVIEW ICON

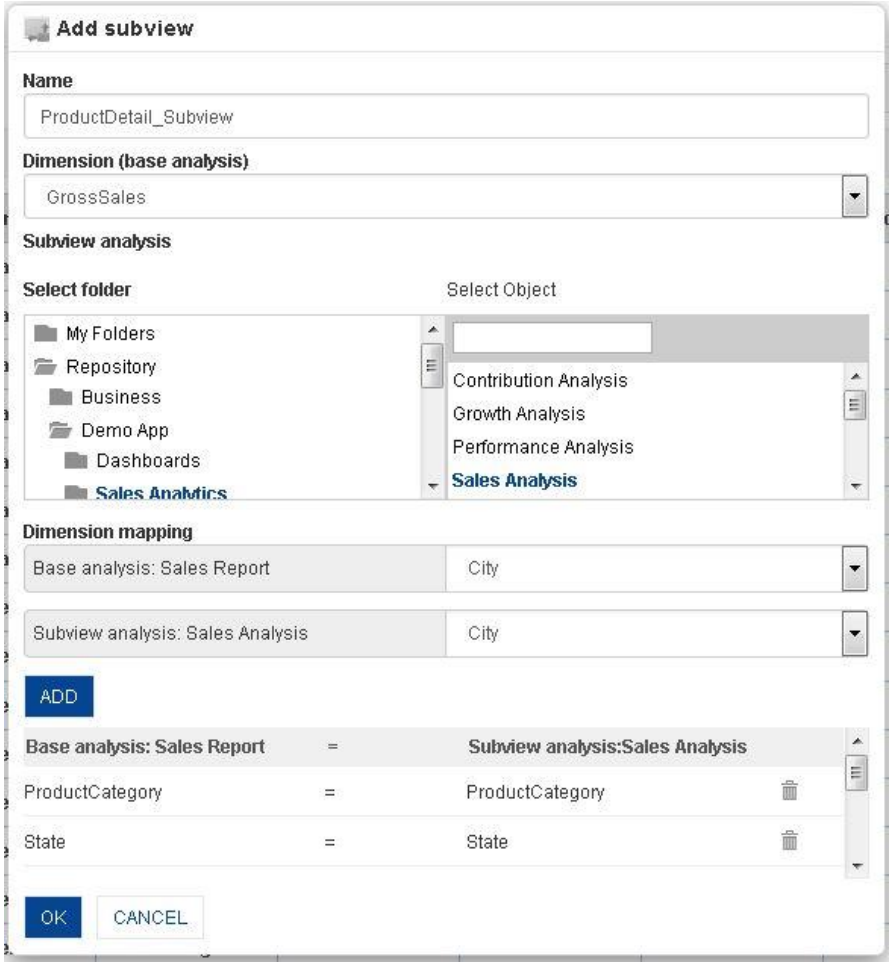
Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.

3. Click **Manage Subviews.**
   The system displays the **Manage Subviews** dialog box.



4. In the Click **Manage Subviews** dialog box, click the Add icon.
   The system displays the **Add Subview** dialog box.

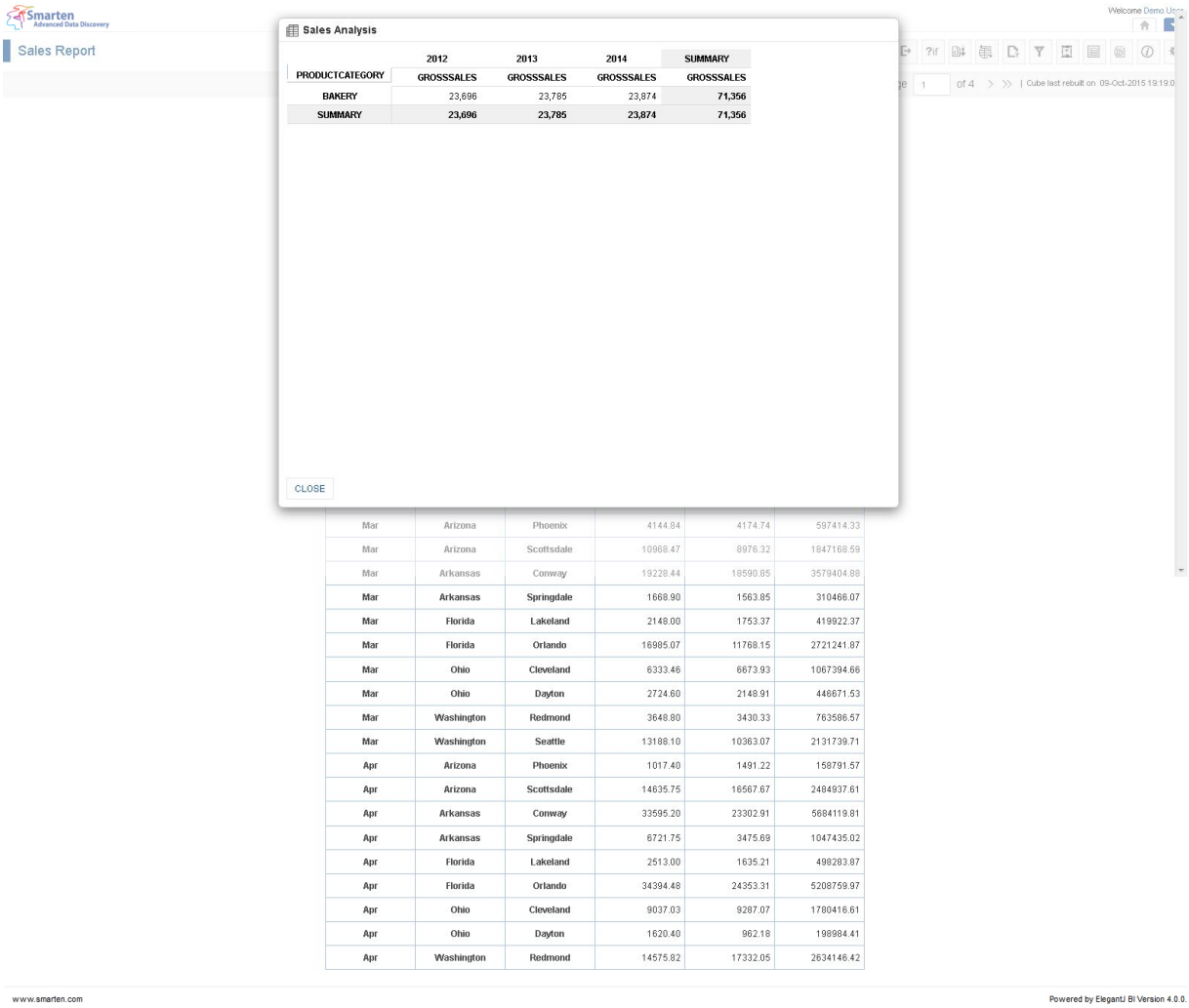


TABULAR: CONFIGURING SUBVIEW

5. In the **Name** field, enter a name.
6. From the **Dimension (base analysis)** drop-down list, select dimension or measure name for the base analysis.
7. In the **Subview analysis** section, select Subview option from the **Select folder** box and an option from the **Select Object** box.
8. In the **Dimension mapping** section, select join options for Base analysis and Subview analysis.
9. Click **ADD.**
   The system displays the options selected options in the **Dimension mapping** section.
   You can also delete the added option by clicking **Delete** icon.

10. Click **OK.**

> Note:
> You can associate crosstab object as subview to tabular object, and vice versa.
> You can associate crosstab or tabular created from real-time cubes with crosstab or tabular created from cache cubes, and vice versa.



PRODUCTCATEGORY	2012 GROSSSALES	2013 GROSSSALES	2014 GROSSSALES	SUMMARY GROSSSALES
BAKERY	23,696	23,785	23,874	71,356
SUMMARY	23,696	23,785	23,874	71,356

Mar	Arizona	Phoenix	4144.84	4174.74	597414.33
Mar	Arizona	Scottsdale	10968.47	8976.32	1847168.59
Mar	Arkansas	Conway	19228.44	18590.85	3579404.88
Mar	Arkansas	Springdale	1668.90	1563.85	310466.07
Mar	Florida	Lakeland	2148.00	1753.37	419922.37
Mar	Florida	Orlando	16985.07	11768.15	2721241.87
Mar	Ohio	Cleveland	6333.46	6673.93	1067394.66
Mar	Ohio	Dayton	2724.60	2148.91	446671.53
Mar	Washington	Redmond	3648.80	3430.33	763586.57
Mar	Washington	Seattle	13188.10	10363.07	2131739.71
Apr	Arizona	Phoenix	1017.40	1491.22	158791.57
Apr	Arizona	Scottsdale	14635.75	16567.67	2484937.61
Apr	Arkansas	Conway	33595.20	23302.91	5684119.81
Apr	Arkansas	Springdale	6721.75	3475.69	1047435.02
Apr	Florida	Lakeland	2513.00	1635.21	498283.87
Apr	Florida	Orlando	34394.48	24353.31	5208759.97
Apr	Ohio	Cleveland	9037.03	9287.07	1780416.61
Apr	Ohio	Dayton	1620.40	962.18	198984.41
Apr	Washington	Redmond	14575.82	17332.05	2634146.42

TABULAR: WITH SUBVIEW

9.3.23.1 Create and Manage Templates

Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the upper right-hand corner, click **Setting.**
   The system displays the Setting Toolbar.
3. Click **Manage subviews.**
   The system displays the **Manage subviews** dialog box.
4. In the **Manage subviews** dialog box, select a checkbox in front of a subview name.
   The system displays a toolbar to manage subviews template.

TABULAR: MANAGE SUBVIEW TEMPLATE

TABULAR: MANAGE SUBVIEW TEMPLATE TOOLBAR

Icon	Icon name
	Refresh
	Add
	Edit
	Delete

TABULAR: MANAGE SUBVIEW TEMPLATE TOOLBAR OPTIONS

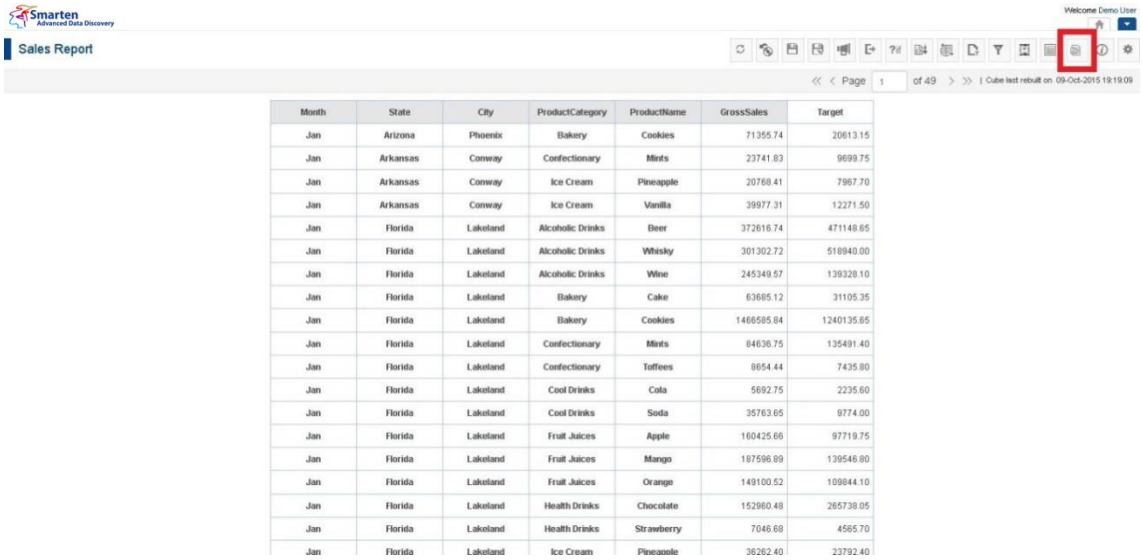
Reference: **Concept Manual > Analytic Functions > Subview**

9.3.24 Auto Generate Graph from Tabular

You can generate graphs directly from tabular view without having to configure the data again to see graphical representation of tabular data. Graphs auto generated from tabular will be available to you with full interactive analysis features, like slice and dice, drill down, rank, and filter.

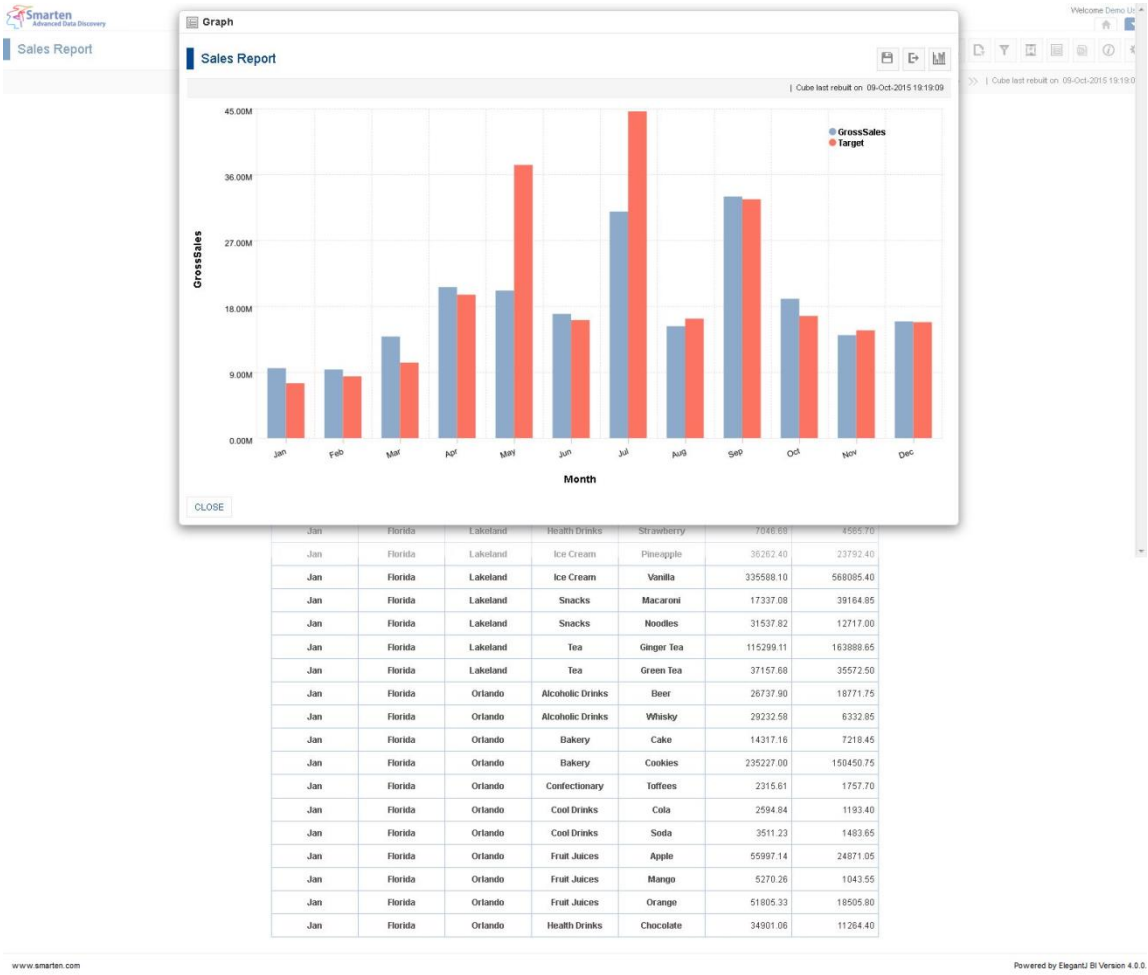
Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the Tabular Toolbar, click **Graph.**
   The system displays the graph for selected tabular.



Month	State	City	ProductCategory	ProductName	GrossSales	Target
Jan	Arizona	Phoenix	Bakery	Cookies	71355.74	20613.15
Jan	Arkansas	Conway	Confectionary	Mints	23741.83	9699.75
Jan	Arkansas	Conway	Ice Cream	Pineapple	20768.41	7967.70
Jan	Arkansas	Conway	Ice Cream	Vanilla	39977.31	12271.50
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	372616.74	471148.65
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	301302.72	518940.00
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	245349.57	139328.10
Jan	Florida	Lakeland	Bakery	Cake	63685.12	31105.35
Jan	Florida	Lakeland	Bakery	Cookies	1466585.84	1240135.65
Jan	Florida	Lakeland	Confectionary	Mints	84636.75	135491.40
Jan	Florida	Lakeland	Confectionary	Toffees	8654.44	7435.80
Jan	Florida	Lakeland	Cool Drinks	Cola	5692.75	2235.60
Jan	Florida	Lakeland	Cool Drinks	Soda	35763.65	9774.00
Jan	Florida	Lakeland	Fruit Juices	Apple	160425.66	97719.75
Jan	Florida	Lakeland	Fruit Juices	Mango	187596.89	139546.80
Jan	Florida	Lakeland	Fruit Juices	Orange	149100.52	109844.10
Jan	Florida	Lakeland	Health Drinks	Chocolate	152960.48	265738.05
Jan	Florida	Lakeland	Health Drinks	Strawberry	7046.68	4565.70
Jan	Florida	Lakeland	Ice Cream	Pineapple	36262.40	23792.40

TABULAR: GRAPH ICON IN TOOLBAR



Jan	Florida	Lakeland	Ice Cream	Vanilla	335588.10	568085.40
Jan	Florida	Lakeland	Snacks	Macaroni	17337.08	39164.85
Jan	Florida	Lakeland	Snacks	Noodles	31537.82	12717.00
Jan	Florida	Lakeland	Tea	Ginger Tea	115299.11	163889.65
Jan	Florida	Lakeland	Tea	Green Tea	37157.68	35572.50
Jan	Florida	Orlando	Alcoholic Drinks	Beer	26737.90	18771.75
Jan	Florida	Orlando	Alcoholic Drinks	Whisky	29232.58	6332.85
Jan	Florida	Orlando	Bakery	Cake	14317.16	7218.45
Jan	Florida	Orlando	Bakery	Cookies	235227.00	150450.75
Jan	Florida	Orlando	Confectionary	Toffees	2315.61	1757.70
Jan	Florida	Orlando	Cool Drinks	Cola	2594.84	1193.40
Jan	Florida	Orlando	Cool Drinks	Soda	3511.23	1483.65
Jan	Florida	Orlando	Fruit Juices	Apple	55997.14	24871.05
Jan	Florida	Orlando	Fruit Juices	Mango	5270.26	1043.55
Jan	Florida	Orlando	Fruit Juices	Orange	51805.33	18505.80
Jan	Florida	Orlando	Health Drinks	Chocolate	34901.06	11264.40

TABULAR: VIEWING GRAPH BASED ON CROSSTAB

To perform detailed operations on graphs as drill down and drill up, sorting, ranking, and advanced filtering options from the Graphs.

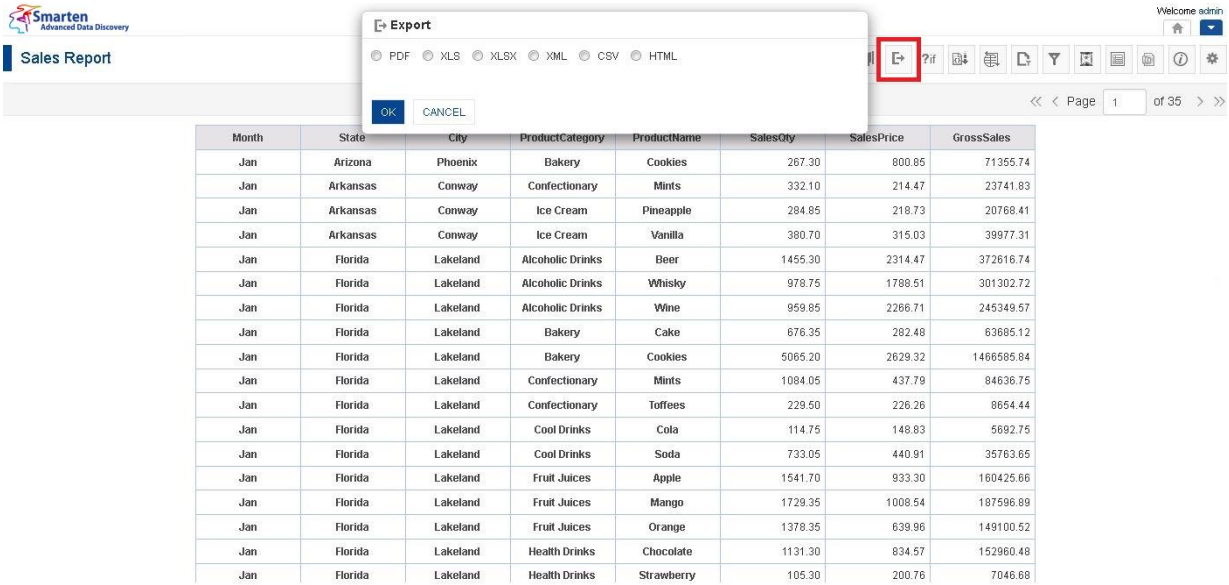
Reference: **User Manual> Working with Graphs**

9.3.25 Export Tabular

Tabular can be exported to PDF, XLS, XLSX, XML, CSV and HTML formats for optimal interoperability with other business applications.

Procedure

1. In the **Repository**, open tabular.
   The system displays the tabular.
2. In the Tabular Toolbar, click **Export.**
   The system displays the **Export** dialog box.
3. Select the desired radio button (PDF, XLS, XLSX, XML, CSV or HTML).
4. Click **OK.**



Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
Jan	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68

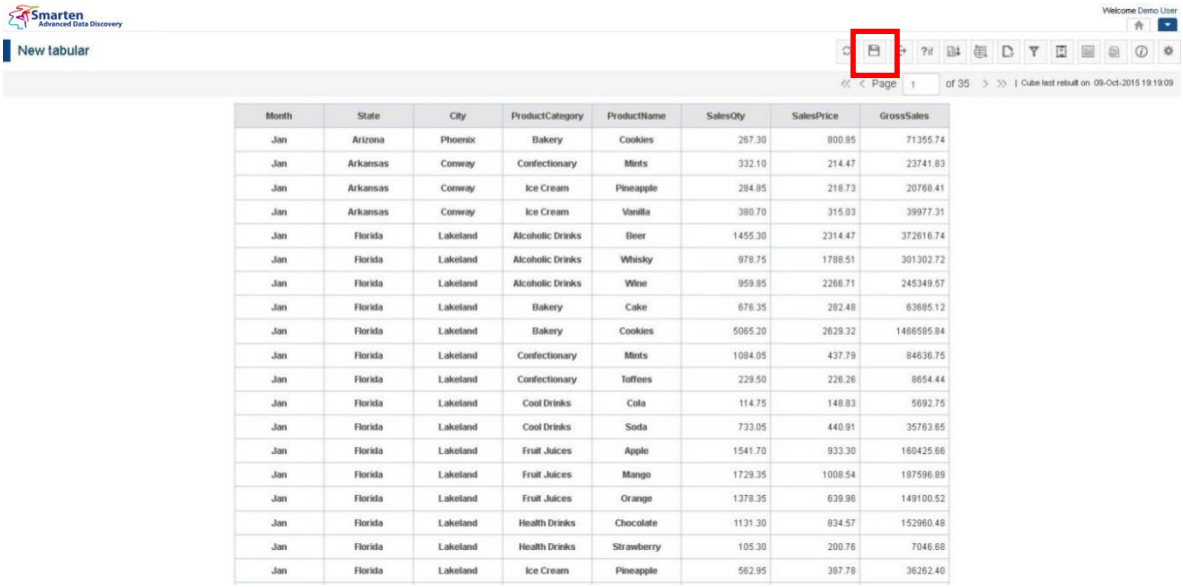
TABULAR: EXPORT ICON & DIALOG

> Note:
> While you export report to XLS format, colour of exported files may not exactly match colour of tabular on screen due to limitations on support of colours.

9.3.26 Save Tabular

You have the following functions to Save Tabular:

- Save
- Save As



Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
Jan	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68
Jan	Florida	Lakeland	Ice Cream	Pineapple	562.95	387.78	36262.40

TABULAR: SAVE

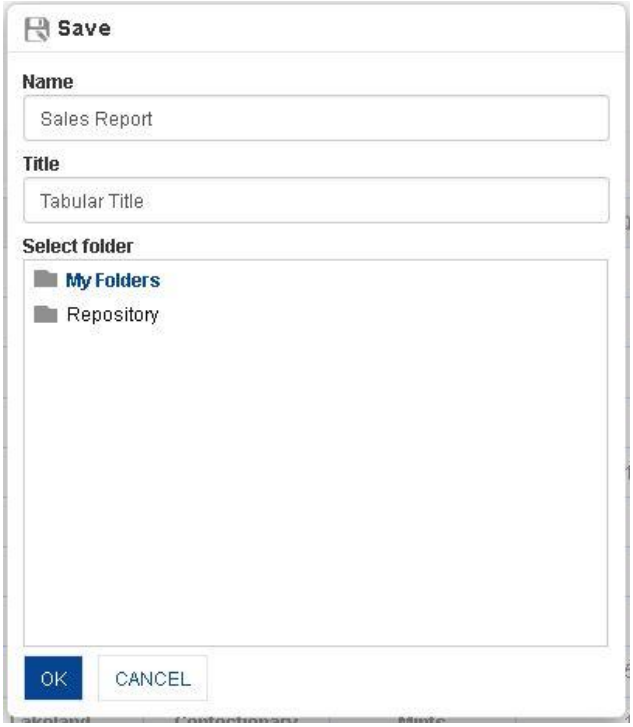
TABULAR: WITH SUBVIEW

9.3.26.1 Save

You can either create and save a new tabular or modify and save an existing tabular.

Procedure

1. In the **Repository**, open tabular.
   The system displays the tabular.
2. In the Tabular Toolbar, click **Save.**
   The system displays the **Save** dialog box.



TABULAR: SAVE DIALOG

3. In the **Name** field, enter a name.
4. In the **Title** field, enter a title.
5. In the **Select Folder** box, choose a folder.
6. Click **OK.**

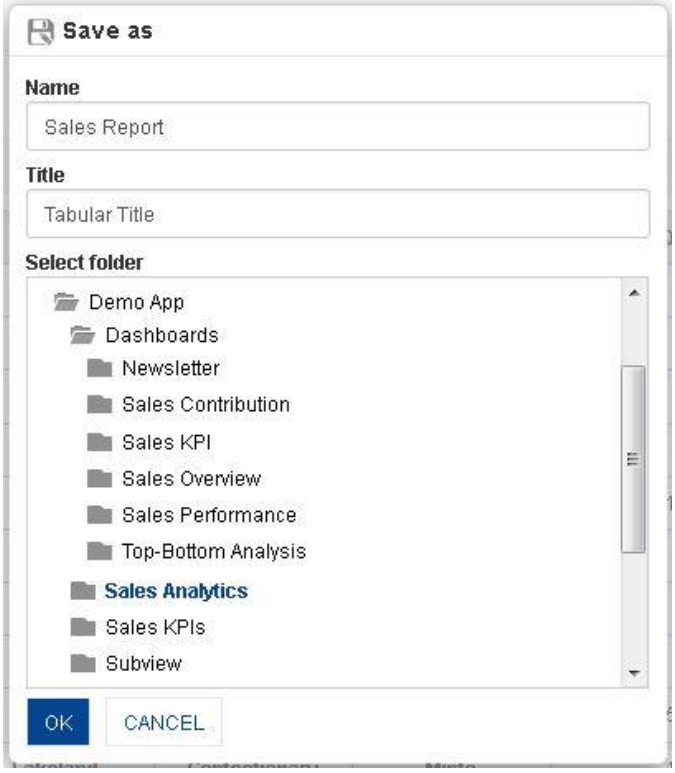
   The system displays the newly saved tabular.

9.3.26.2 Save As

You can use this option to save a copy of an existing tabular with a new name.

Procedure

1. Follow the **Procedure** of **Save** given above or open an existing tabular.
2. In the Tabular Toolbar, click **Save as.**
   The system displays the **Save as** dialog box.



TABULAR: SAVE AS DIALOG

3 In the **Name** field, enter a name.
4 In the **Title** field, enter a title.
5 In the **Select Folder** box, choose a folder.
6 Click **OK.**

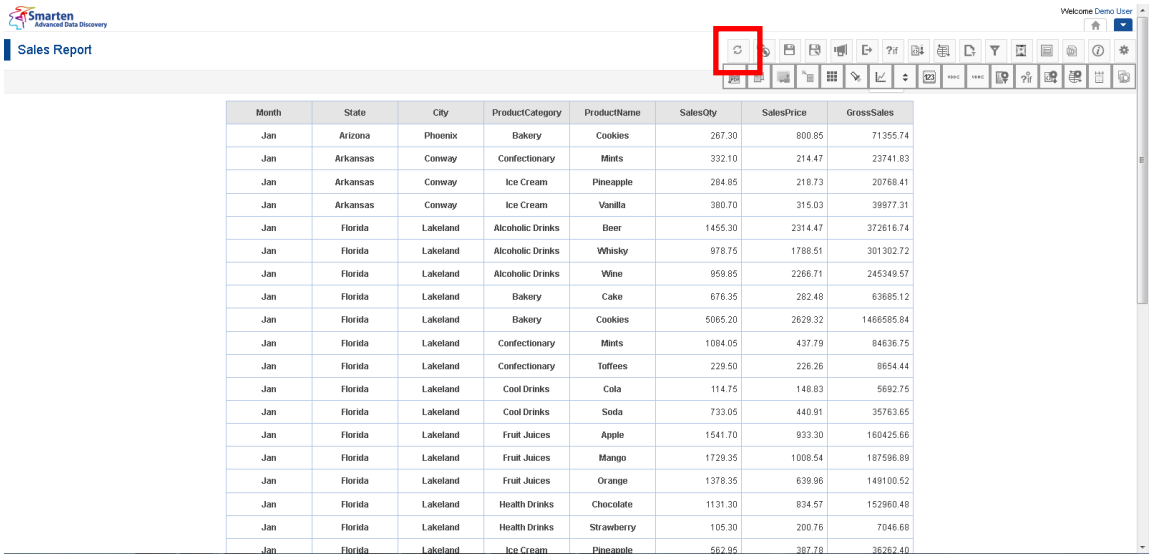
The system creates a copy of an existing tabular with a new name.

9.3.27 Refresh

This option is used to update tabular data from its source cube.

Procedure

1. In the **Repository**, open tabular.
2. The system displays the tabular.
3. In the Tabular Toolbar, click **Refresh**.



Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
Jan	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68
Jan	Florida	Lakeland	Ice Cream	Pineapple	562.95	387.78	36262.40

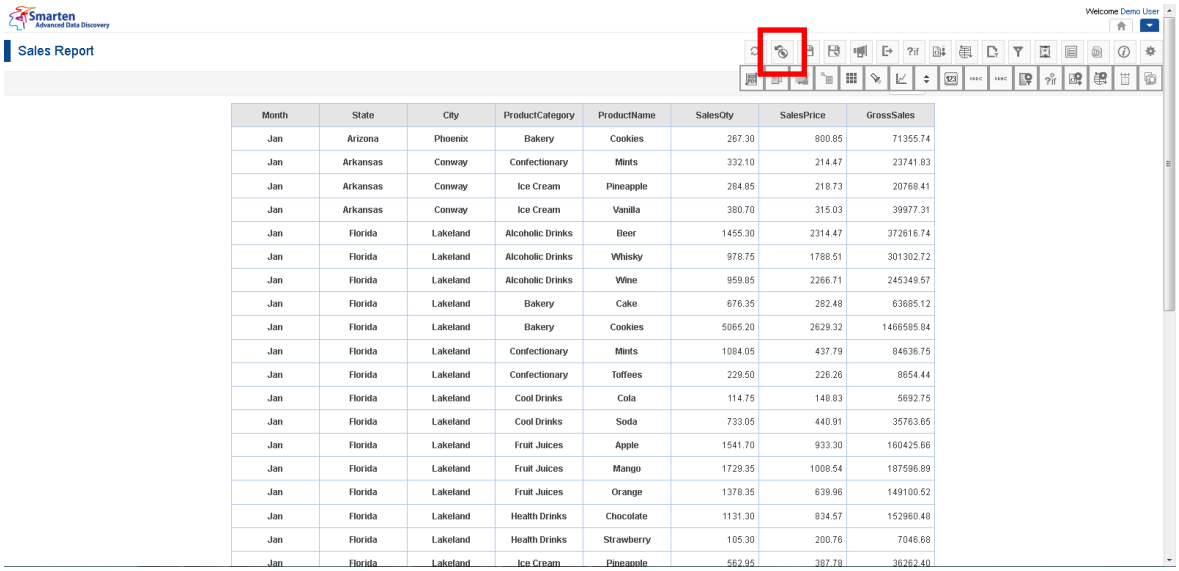
TABULAR: REFRESH ICON

9.3.28 Restore

You can use this option to restore the last saved version of report without loading fresh data from cube.

Procedure

1. In the **Repository**, open tabular.
   The system displays the tabular.
2. In the Tabular Toolbar, click **Restore**.

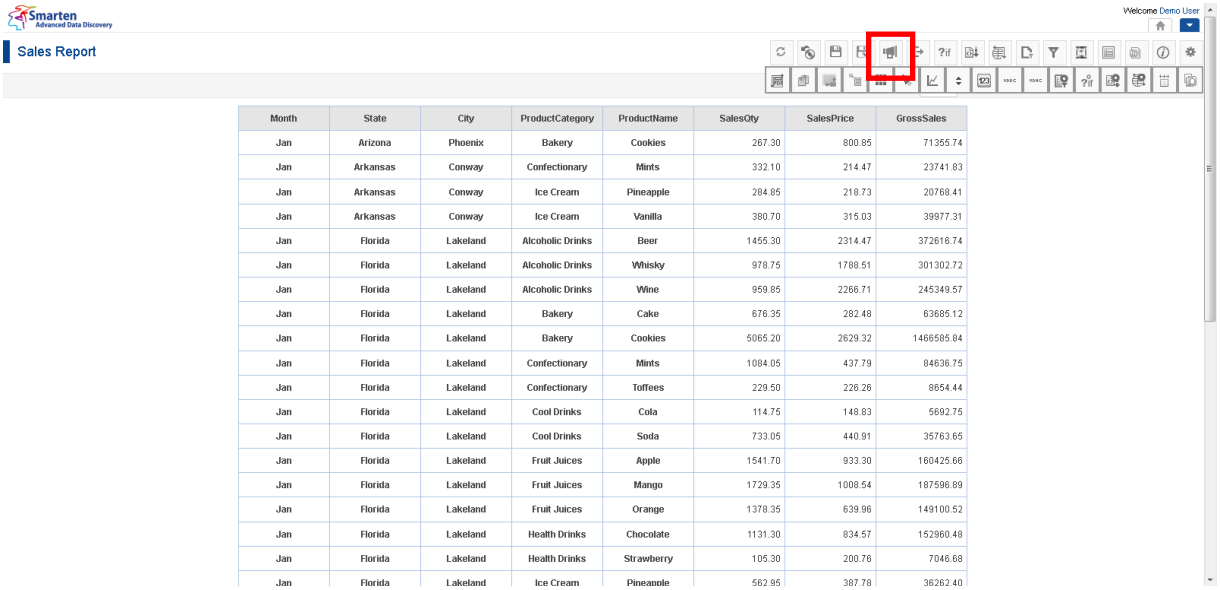


Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
Jan	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68
Jan	Florida	Lakeland	Ice Cream	Pineapple	562.95	387.78	36262.40

TABULAR: RESTORE ICON

9.3.29 Publish Now

You can publish the tabular on the fly with the use of **Publish Now** option. This option is used to publish specific tabular in CSV, XML, XLS, XLSX, and PDF formats together. It is visible only after saving the tabular.

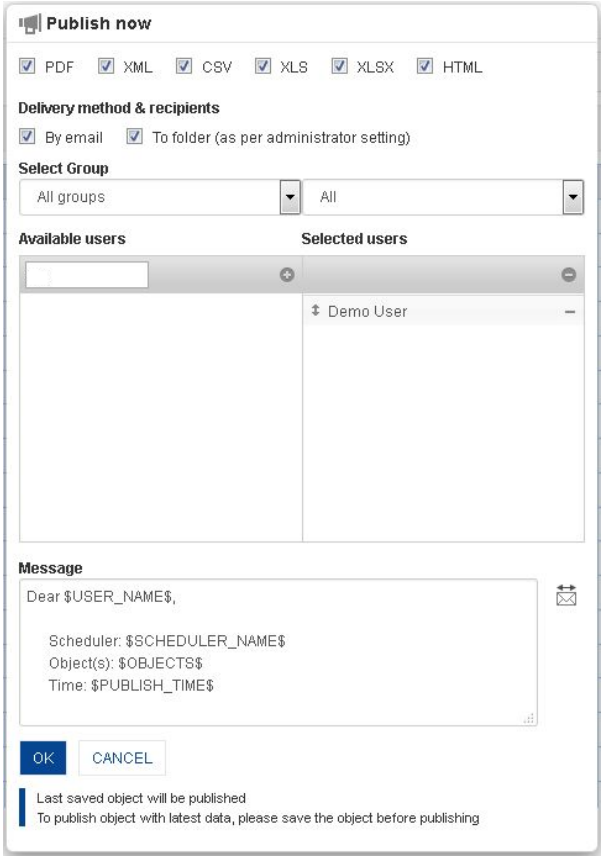


Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
Jan	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68
Jan	Florida	Lakeland	Ice Cream	Pineapple	562.95	387.78	36262.40

TABULAR: PUBLISH NOW ICON

Procedure

1. In the **Repository**, open tabular.
   The system displays the tabular.
2. In the Tabular Toolbar, click **Publish now**.
   The system displays the **Publish now** dialog box.

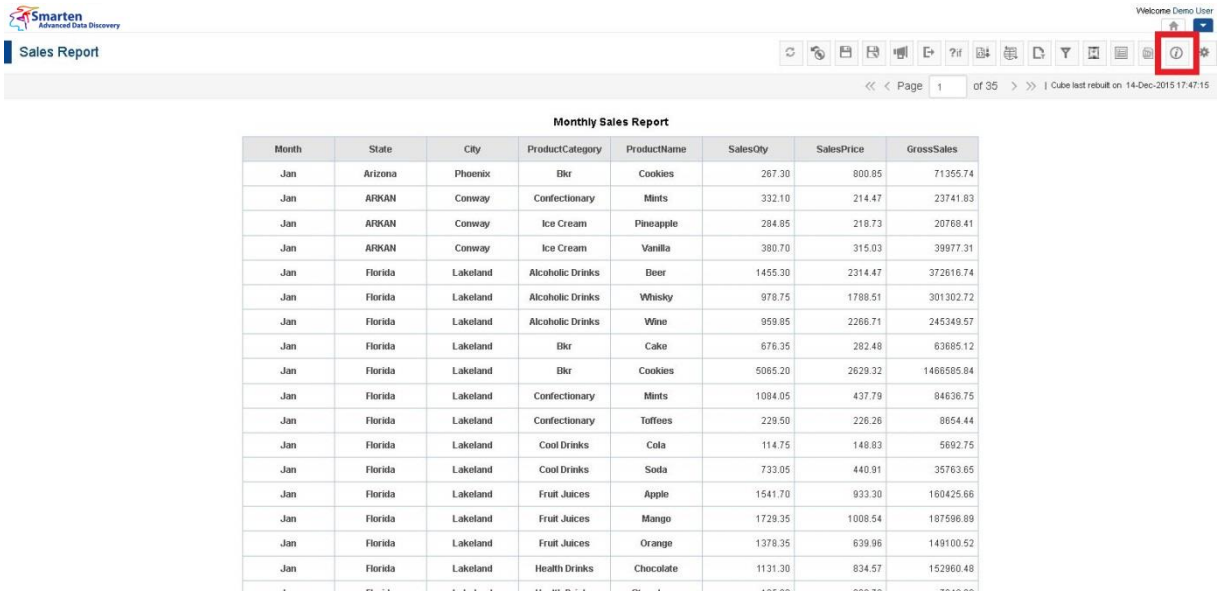


TABULAR: PUBLISH NOW SETTINGS

3. In the **Publish now** dialog box, select the checkbox to choose the output type (PDF, XML, CSV, XLS, XLSX, or HTML).
4. In the **Delivery method & recipients** section, select the checkbox(es) (by email and to folder).
5. In the **Select group** section, select the group from the drop-down list.
   The system displays the list of users in the **Available users** column according to the group selected.
6. In the **Available users** column, select the users. System displays list of users as per access rights policy defined by Administrator.
   The system displays the selected users in the **Selected users** column.
7. In the **Message** box, enter the message.
8. Click **OK**.

9.3.30 Object Information

Object information displays information about object metadata and various operations applied on report.

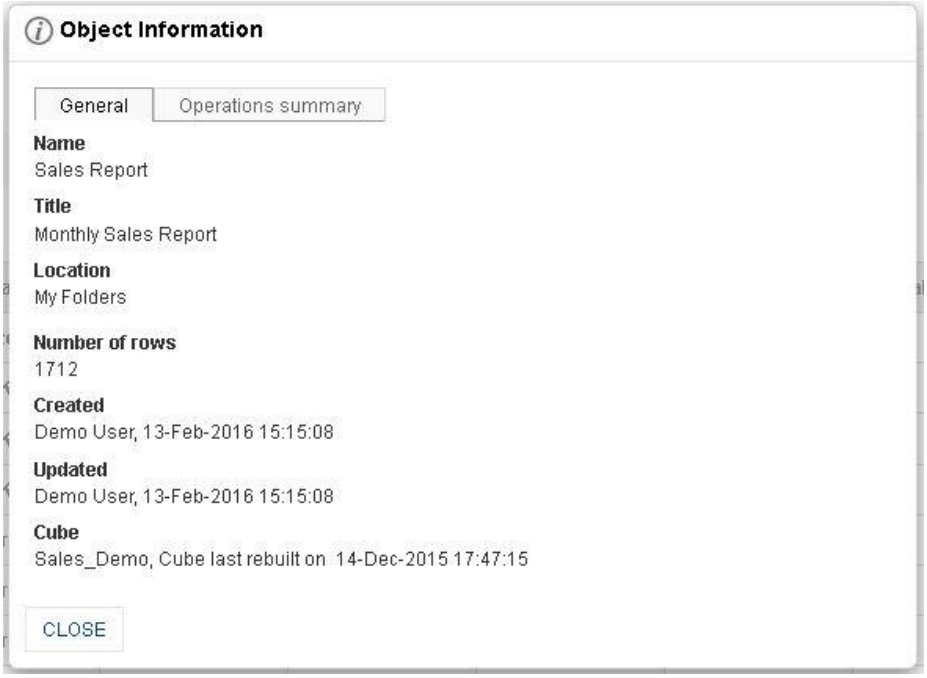


Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bkr	Cookies	267.30	800.85	71355.74
Jan	ARKAN	Conway	Confectionary	Mints	332.10	214.47	23741.83
Jan	ARKAN	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
Jan	ARKAN	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Bkr	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bkr	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48

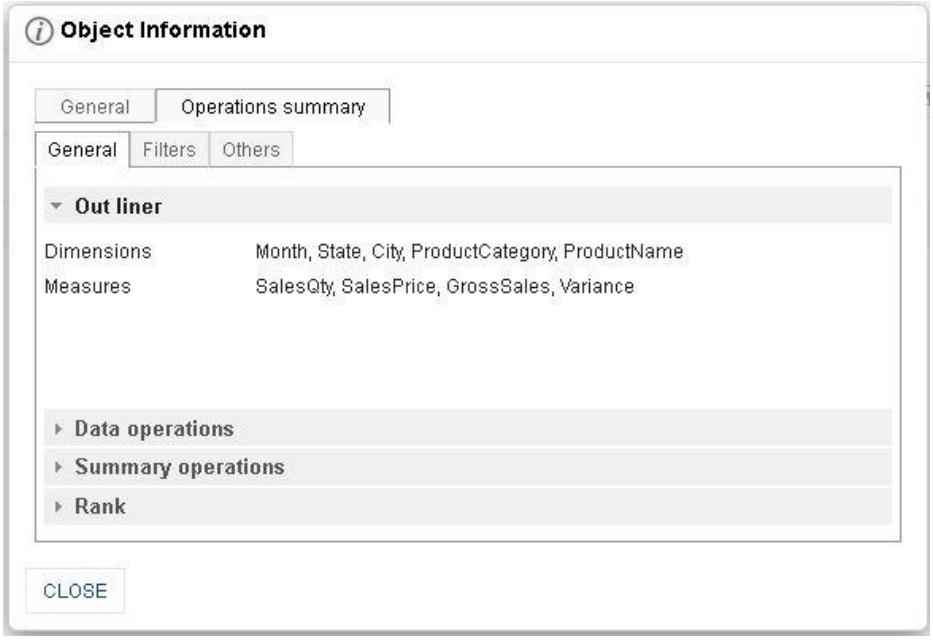
TABULAR: OBJECT INFORMATION ICON

Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the Tabular Toolbar, click **Object information**.
   The system displays the **Object information** dialog box with various information displayed in the two tabs, namely General and Operations summary as shown below.

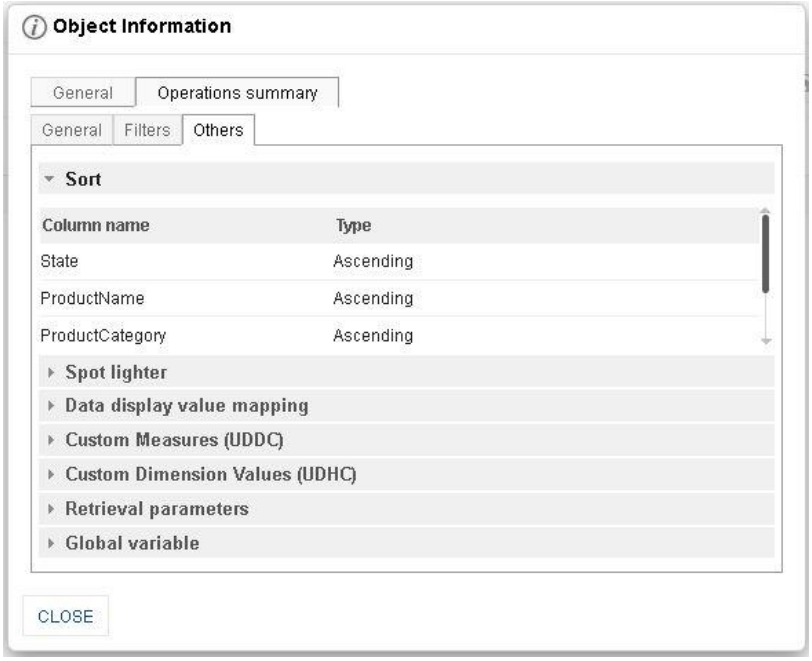


TABULAR: OBJECT INFORMATION: GENERAL TAB



TABULAR: OBJECT INFORMATION: OPERATIONS SUMMARY: GENERAL TAB

TABULAR: OBJECT INFORMATION: OPERATIONS SUMMARY : FILTERS TAB



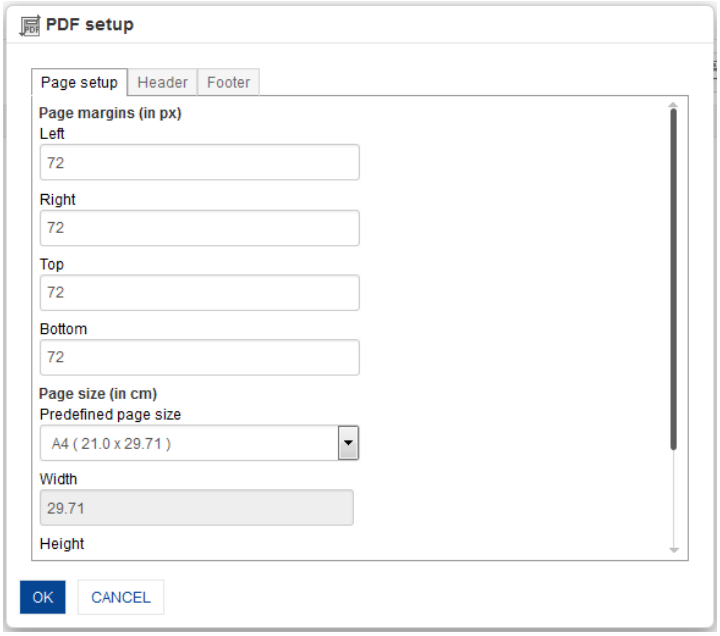
TABULAR: OBJECT INFORMATION: OPERATIONS SUMMARY: OTHERS TAB

3. Click **Close** after viewing the information.

9.3.31 PDF Page setup

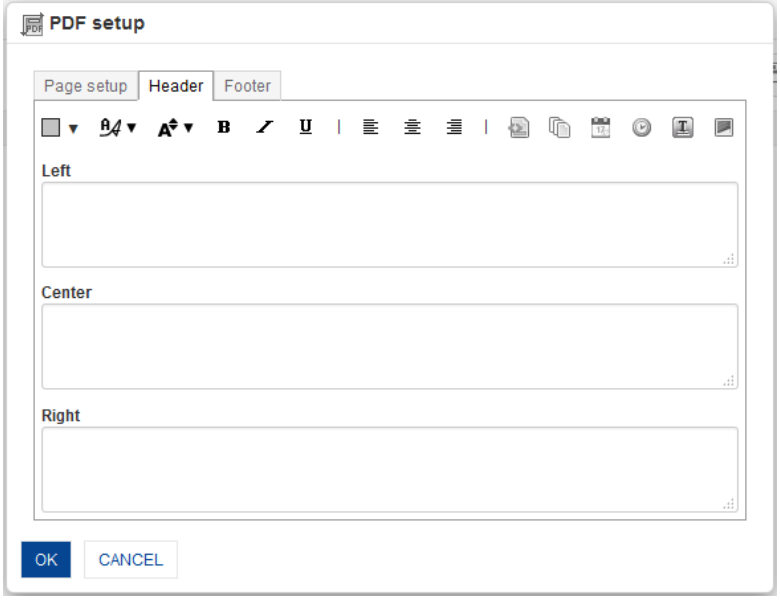
Procedure

1. In the **Repository**, open tabular.
   System displays the selected tabular.
2. In the upper right-hand corner, click **Setting**.
   System displays the Setting Toolbar.
3. Click **PDF setup**.
   System displays the **PDF setup** dialog box.



PDF SETUP: PAGE SETUP

4. **Page setup:**
   - Enter **Page Margins** to set top, bottom, left, and right margins for page.
   - From the **Predefined page size** drop-down list, select size.
   - Customize the **Height** and **Width** for page
   - Select the page orientation, either **Portrait** or **Landscape.**

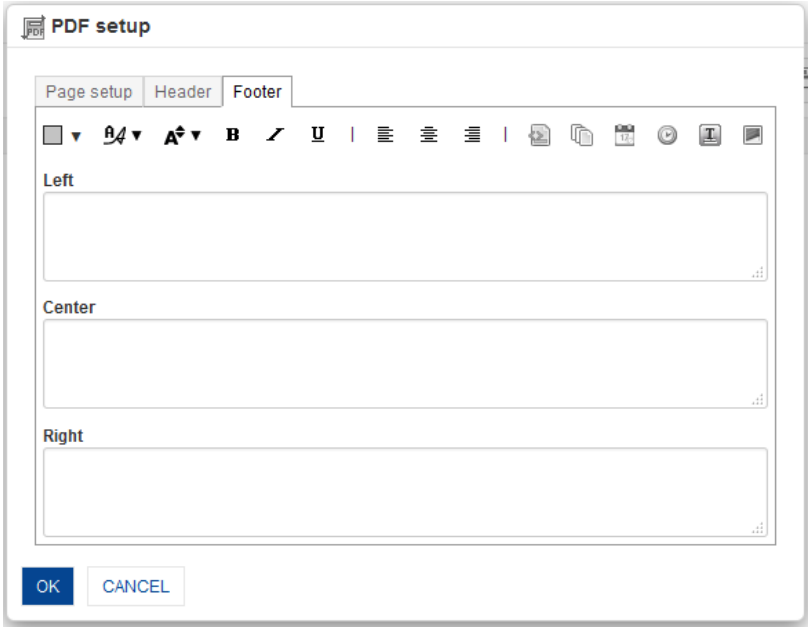


PDF SETUP: HEADER

5. **Header:**
   - Enter values or variables required for left, centre and right sections of the header. You can select Page Number, Number of Pages, Date, Time, Object Title and Image as variable.

     You can also add custom text along with variables.

     Some examples:
     Report Date: $DATE$ $TIME$
     Page: $PAGE_NUMBER$ of $TOTAL_PAGES$



PDF SETUP: FOOTER

6. **Footer:**
   - Enter values or variables required for left, centre and right sections of the footer.
     You can select Page Number, Number of Pages, Date, Time, Object Title and Image as variable.

     You can also add custom text along with variables.

     Some examples:
     Report Date: $DATE$ $TIME$
     Page: $PAGE_NUMBER$ of $TOTAL_PAGES$
7. Click **OK**.

Tools	Description
	Font Colour
	Font Name
	Font Size
	Bold Style
	Italic Style
	Underline
	Left Alignment
	Centre Alignment
	Right Alignment

PDF SETUP TOOLBAR: FORMATTING OPTIONS

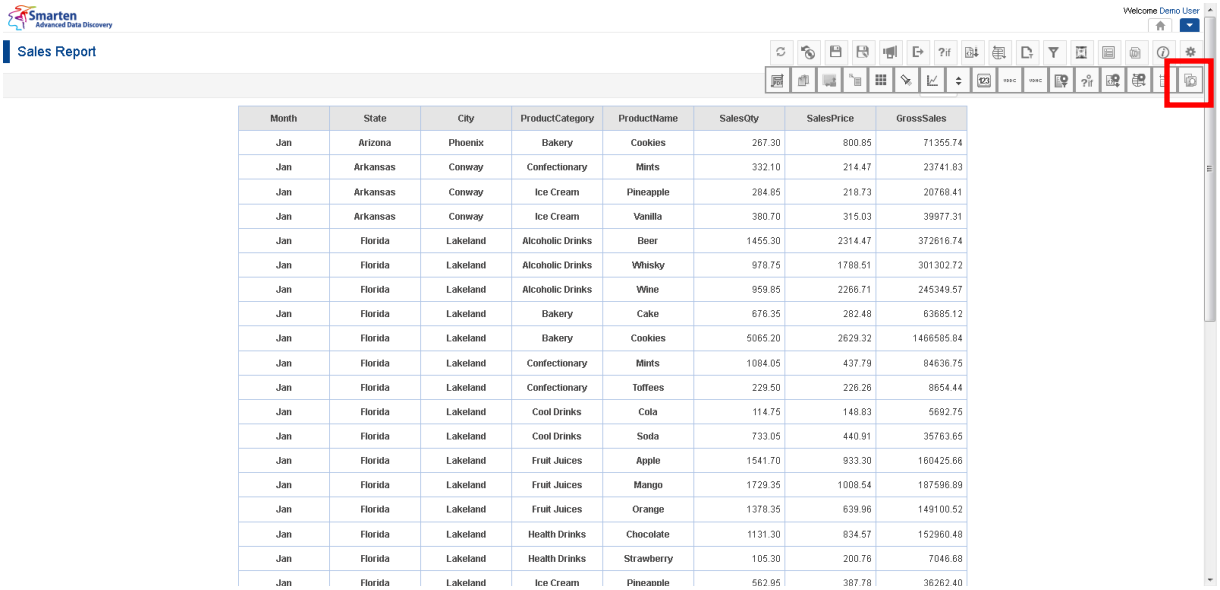
Tools		Description
	Page Number	Current Page Number
	Number of Pages	Total Number of Pages
	Date	Current Date on which object is exported
	Time	Current Time when object is exported
	Object Title	Title saved in object
	Image	Company logo or any other Image

PDF SETUP TOOLBAR: HEADER/FOOTER VARIABLES

9.3.32 Tabular Properties

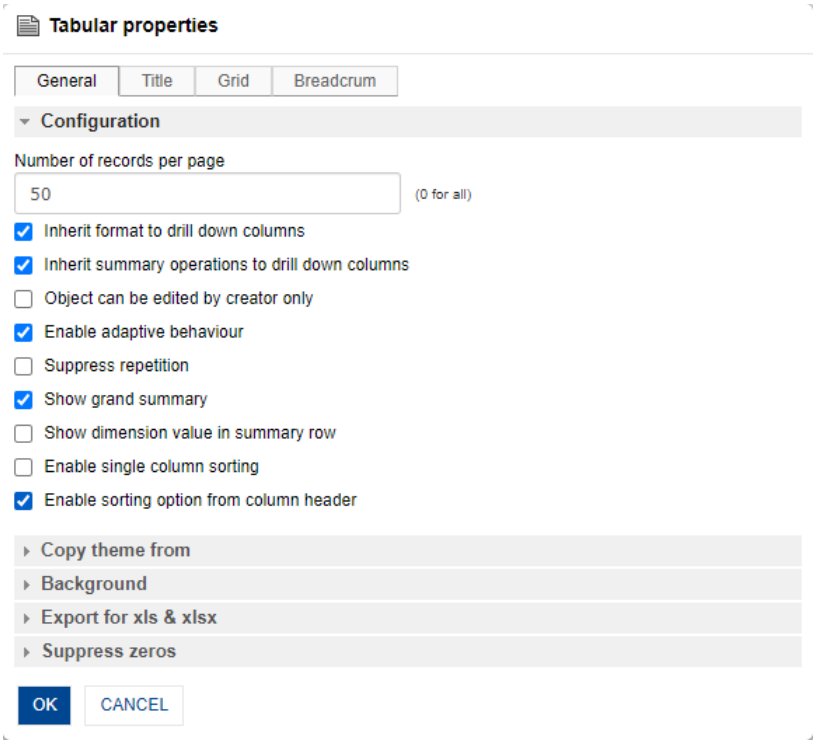
Procedure

1. In the **Repository**, open tabular.
   The system displays the selected tabular.
2. In the upper right-hand corner, click **Setting**.
   The system displays the Setting Toolbar.
3. Click **Tabular Properties**.
   The system displays the **Tabular properties** dialog box.



Month	State	City	ProductCategory	ProductName	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	Cookies	267.30	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	Mints	332.10	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	Pineapple	284.85	218.73	20768.41
Jan	Arkansas	Conway	Ice Cream	Vanilla	380.70	315.03	39977.31
Jan	Florida	Lakeland	Alcoholic Drinks	Beer	1455.30	2314.47	372616.74
Jan	Florida	Lakeland	Alcoholic Drinks	Whisky	978.75	1788.51	301302.72
Jan	Florida	Lakeland	Alcoholic Drinks	Wine	959.85	2266.71	245349.57
Jan	Florida	Lakeland	Bakery	Cake	676.35	282.48	63685.12
Jan	Florida	Lakeland	Bakery	Cookies	5065.20	2629.32	1466585.84
Jan	Florida	Lakeland	Confectionary	Mints	1084.05	437.79	84636.75
Jan	Florida	Lakeland	Confectionary	Toffees	229.50	226.26	8654.44
Jan	Florida	Lakeland	Cool Drinks	Cola	114.75	148.83	5692.75
Jan	Florida	Lakeland	Cool Drinks	Soda	733.05	440.91	35763.65
Jan	Florida	Lakeland	Fruit Juices	Apple	1541.70	933.30	160425.66
Jan	Florida	Lakeland	Fruit Juices	Mango	1729.35	1008.54	187596.89
Jan	Florida	Lakeland	Fruit Juices	Orange	1378.35	639.96	149100.52
Jan	Florida	Lakeland	Health Drinks	Chocolate	1131.30	834.57	152960.48
Jan	Florida	Lakeland	Health Drinks	Strawberry	105.30	200.76	7046.68
Jan	Florida	Lakeland	Ice Cream	Pineapple	562.95	387.78	38262.40

TABULAR: TABULAR PROPERTIES ICON



TABULAR: TABULAR PROPERTIES DIALOG

4. To configure the properties, select the tab and enter/select the values in the various fields.
5. Click **OK** or **Cancel.**

The following tables list all the Tabular properties.

Element	Properties	Sub Properties	Default Value	Values
Configuration	Number of records per page		50	(0 for all)
	Inherit format to drill down columns		TRUE	True/False
	Inherit summary		TRUE	True/False

Element	Properties	Sub Properties	Default Value	Values
	operations to drill down columns			
	Object can be edited by creator only		TRUE/FALSE based on default access policy set by administrator	True/False
	Enable adaptive behaviour		TRUE	True/False
	Suppress repetition		FALSE	True/False
	Show grand summary		TRUE	True/False
	Show dimension value in summary row		FALSE	True/False
	Enable single column sorting		FALSE	True/False
	Enable sorting option from column header		FALSE	True/False
Background	Visible		FALSE	True/False
	Color		#f5f5f5	#000000 - #FFFFFF
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	No repeat/ Repeat/Repeat X/Repeat y
	Background position		Center	Center/Left/Right/Top/ Bottom
Cell Indicators	UDDC		TRUE	True/False
	Time series		TRUE	True/False
	Note		TRUE	True/False
	Pack-Unpack		TRUE	True/False
	Least Most Recent		TRUE	True/False
Expression tooltip	UDDC		TRUE	True/False
	Time series		TRUE	True/False
	Page filter		TRUE	True/False
	Pack-Unpack		TRUE	True/False
	Least Most Recent		TRUE	True/False
Column headers	Row dimension headers		FALSE	True/False
	Column dimension headers		FALSE	True/False
	Measure dimension headers		FALSE	True/False
Export for xls and xlsx	Apply grouping		FALSE	True/False
	Repeat dimension values		FALSE	True/False
	Show object information		TRUE	True/False
Suppress zeros	For rows		FALSE	True/False

TABULAR PROPERTIES – GENERAL

Element	Properties	Sub Properties	Default Value	Values
Configuration	Visible		TRUE	True/False
	Title			Any String Value
	Title panel	Position	Center	Left/Right/Center
		Adjust width to text	FALSE	True/False
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		14	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text Alignment		Center	Center/Left/Right/Justify
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
	Image		None	.jpg, .png (image formats)
	Background repeat		No repeat	Repeat/No repeat/ Repeat X/Repeat Y
	Background position		Center	Center/Left/Right/Top/Bottom
	Gradient	Visible	FALSE	True/False
		Style	Linear gradient	Linear gradient
		Angle	0	0 – 360
		Extent	0	0 – 100
		Color	#FFFFFF	#000000 - #FFFFFF
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#d0d0d3	#000000 - #FFFFFF
Shadow	Left to right		0	-10 – 10
	Top to bottom		0	-10 – 10

Element	Properties	Sub Properties	Default Value	Values
	Fade		0	0 – 20
	Color		#DCDCDC	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Margin	All		0.00%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %
Padding	All		0.50%	0 – 100 %
	Top		0.00%	0 – 100 %
	Bottom		0.00%	0 – 100 %
	Left		0.00%	0 – 100 %
	Right		0.00%	0 – 100 %

TABULAR PROPERTIES - TITLE

Element	Properties	Sub Properties	Default Value	Values
General				
Background	Visible		TRUE	True/False
	Color		#f5f5f5	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	FALSE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Bar				
Background	Visible		TRUE	True/False
	Color		#5C5C5C	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Rounded	All		5	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20

Element	Properties	Sub Properties	Default Value	Values
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20
Buttons				
Background	Visible		FALSE	True/False
	Color		#f5f5f5	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Rounded	All		0	0 – 20
	Top left		0	0 – 20
	Top right		0	0 – 20
	Bottom left		0	0 – 20
	Bottom right		0	0 – 20

TABULAR PROPERTIES – SCROLL BAR

Element	Properties	Sub Properties	Default Value	Values
General				
Configuration	Column width – default		120	1 – 200 px
	Enable wrap for dimension values		FALSE	True/False
	Overwrite current column format properties		FALSE	True/False
Header				
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#4a4949	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF

Element	Properties	Sub Properties	Default Value	Values
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
Alignment	Horizontal		Center	Left/Center/Right
	Vertical		Center	Left/Center/Right
	Overwrite current column format properties		FALSE	True/False
Data				
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#333333	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		FALSE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Left	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Right	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Top	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Bottom	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
Alignment	Horizontal		Right	Left/Center/Right
	Vertical		Center	Left/Center/Right
	Overwrite current column format properties		FALSE	True/False
Column label				
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		12	8 – 72
	Color		#000000	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowe

Element	Properties	Sub Properties	Default Value	Values
				rcase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#FFFFFF	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot
		Color	#aec4e6	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Alignment	Horizontal		Center	Left/Center/Right
	Vertical		Center	Left/Center/Right
	Overwrite current column format properties		FALSE	True/False
Summary				
Font and text	Name		Arial	System Fonts
	Style		B	B, I, U
	Size		11	8 – 72
	Color		#333333	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#D7ECF4	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	TRUE	True/False
	All	Width	1	0 – 10
		Style	Solid	None/Solid/Dash/Dot

Element	Properties	Sub Properties	Default Value	Values
		Color	#aec4e6	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
Alignment	Horizontal		Center	Left/Center/Right
	Vertical		Center	Left/Center/Right
	Overwrite current column format properties		FALSE	True/False
Cell Selection				
Font and text	Name		Arial	System Fonts
	Style			B, I, U
	Size		12	8 – 72
	Color		#FFFFFF	#000000 - #FFFFFF
	Text Transform		Capitalize	None/Uppercase/Lowercase/Capitalize
	Letter spacing		0	-3 – 5
	Word spacing		0	-3 – 5
	Text shadow	Visible	FALSE	True/False
		Left to right	5	-5 – 5
		Top to bottom	5	-5 – 5
		Fade	5	0 – 5
		Color	#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#000000	#000000 - #FFFFFF
	Transparent		FALSE	True/False
Border		Visible	TRUE	True/False
	All	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#FFFFFF	#000000 - #FFFFFF
	Left	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Right	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Top	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Bottom	Width	0	0 – 10
		Style	None	None/Solid/Dash/Dot
		Color	#000000	#000000 - #FFFFFF
	Overwrite current		FALSE	True/False

Element	Properties	Sub Properties	Default Value	Values
	column format properties			
Stripe				
Element	Properties	Sub Properties	Default Value	Values
Configuration	Enable		FALSE	True/False
	Odd		#000000	#000000 - #FFFFFF
	Even		#DCDCDC	#000000 - #FFFFFF
	Overwrite current column format properties		FALSE	True/False

TABULAR PROPERTIES – GRID

Element	Properties	Sub Properties	Default Value	Values
Font and text	Color		#000000	#000000 - #FFFFFF
Background	Visible		TRUE	True/False
	Color		#f5f5f5	#000000 - #FFFFFF
	Transparent		FALSE	True/False

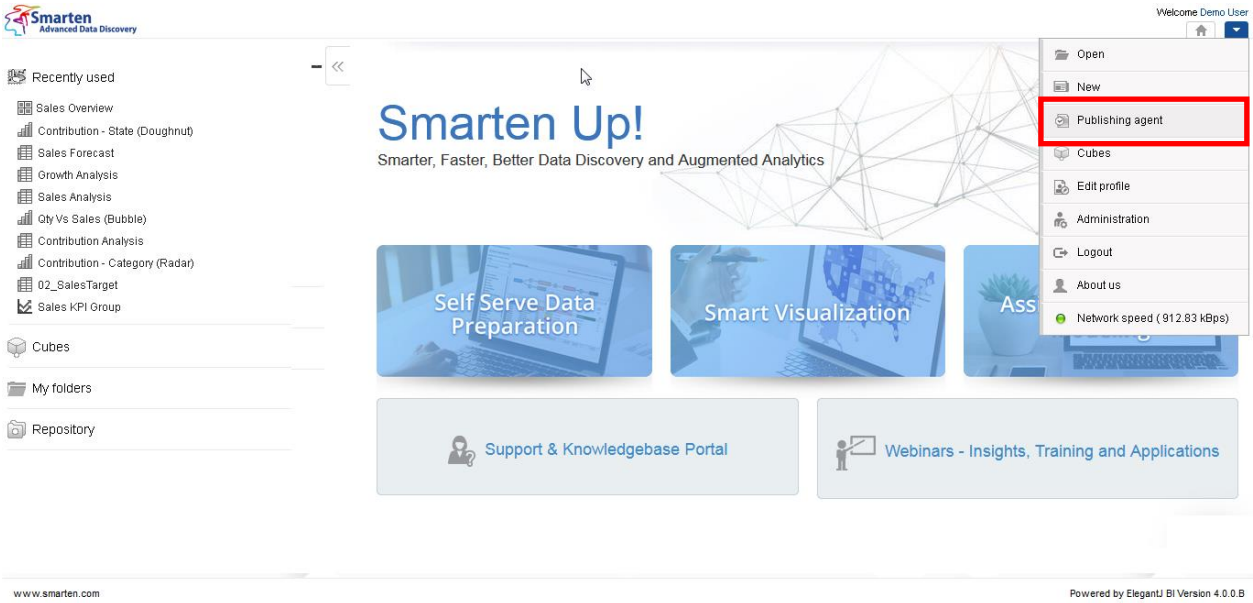
TABULAR PROPERTIES – BREADCRUMBS

> Note:
> Configuration—Width: This property is available only for measure/ numeric value.
> Configuration—Column header: This property is available only for labels.
> Number format and Unit text: This property is available only for measure/ numeric value.
> Date format and Time format: This property is available only for date dimension.

10. Working with Delivery & Publishing Agent

Smarten delivery and publishing agent service enables you to extend the powerful enterprise job scheduling capabilities of Smarten Advanced Data Discovery. With this interface, you can define, launch, and monitor publishing agent tasks in Smarten.

Delivery and Publishing Agent is a dynamic service defined to publish various Smarten objects (such as dashboard, crosstab, KPI, graphs, tabular and GeoMap) at predefined frequency and schedule. The published objects can be sent to selected users via email or to a file folder defined by the administrator.

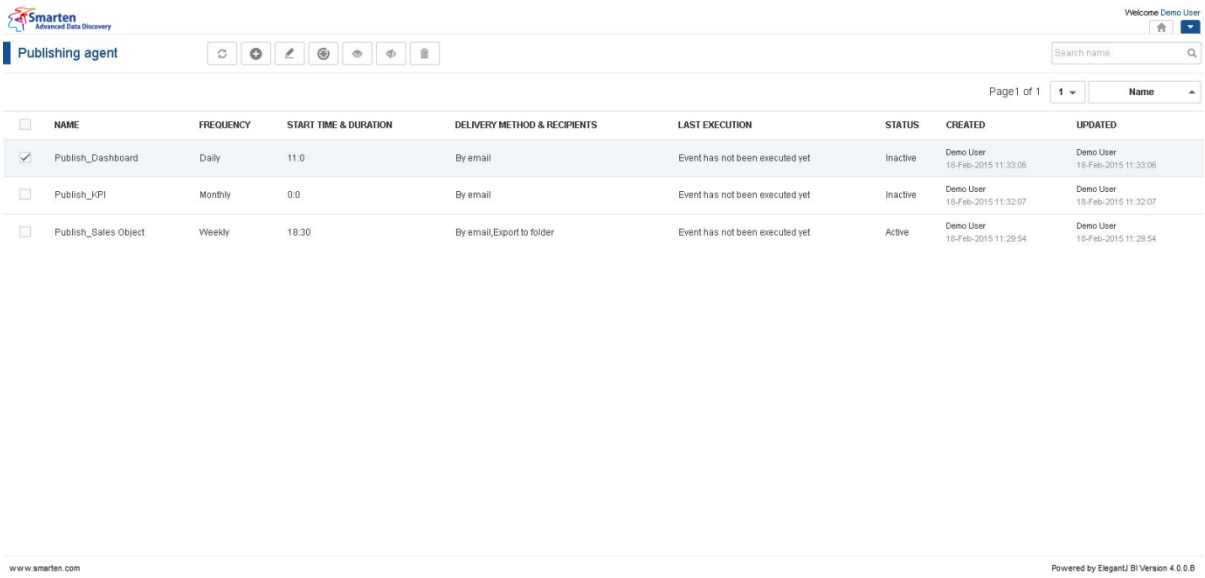


PUBLISHING AGENT LINK

10.1 Task list

Procedure

1. In the upper right-hand corner, click the **down arrow** icon.
   The system displays the Main Menu.
2. In the Main Menu, select **Publishing agent.**
   The system displays the task list.



PUBLISHING AGENT: TASK LIST

3. From the task list, select a task.
   The system displays the Publishing agent toolbar.

PUBLISHING AGENT TOOLBAR

Icon	Icon name

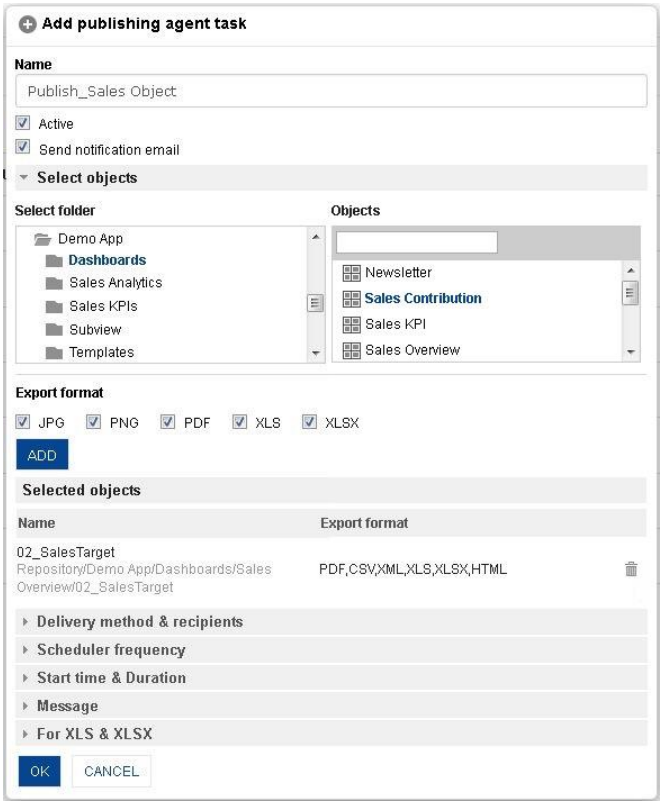
Icon	Icon name
	Refresh
	Add
	Edit
	Run now
	Active
	Inactive
	Delete

PUBLISHING AGENT TOOLBAR OPTIONS

10.1.1 Add Task

Procedure

1. In the upper right-hand corner, click the down arrow icon.
   The system displays the Main Menu.
2. In the Main Menu, select **Publishing agent.**
   The system displays the Publishing agent toolbar.
3. In the Publishing agent toolbar, click the **Add** icon.
   The system displays the Add publishing agent task dialog box.

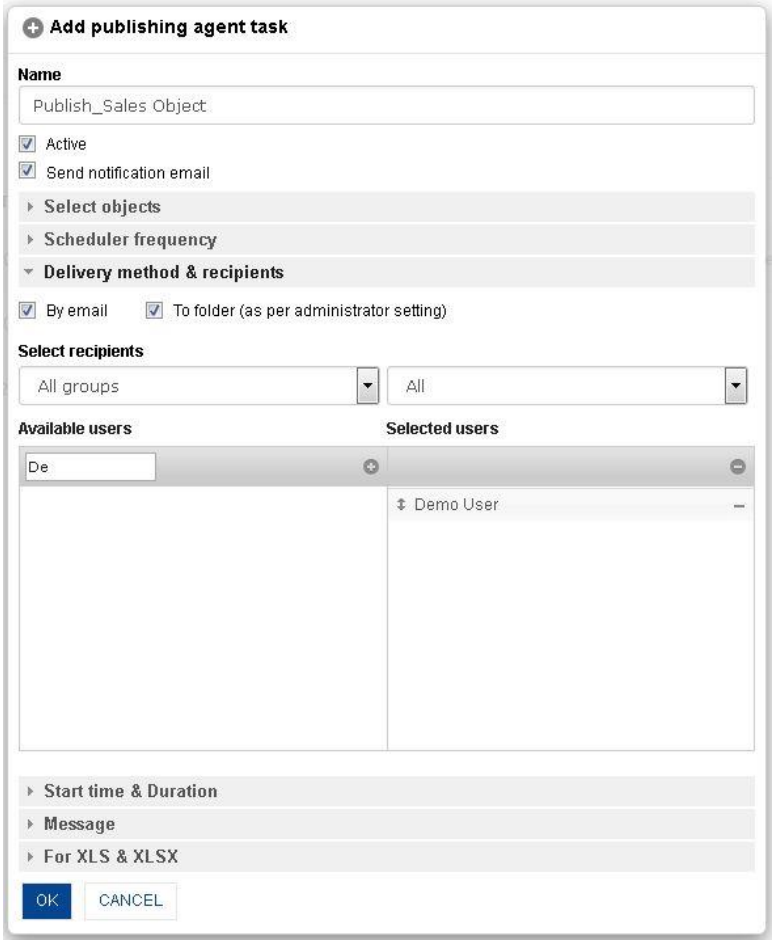


ADD TASK: OBJECT & EXPORT FORMAT SELECTION

4. In the **Name** field, enter the task name.
5. Select the **Active** checkbox to keep a task active. Deselect the checkbox to make it inactive.

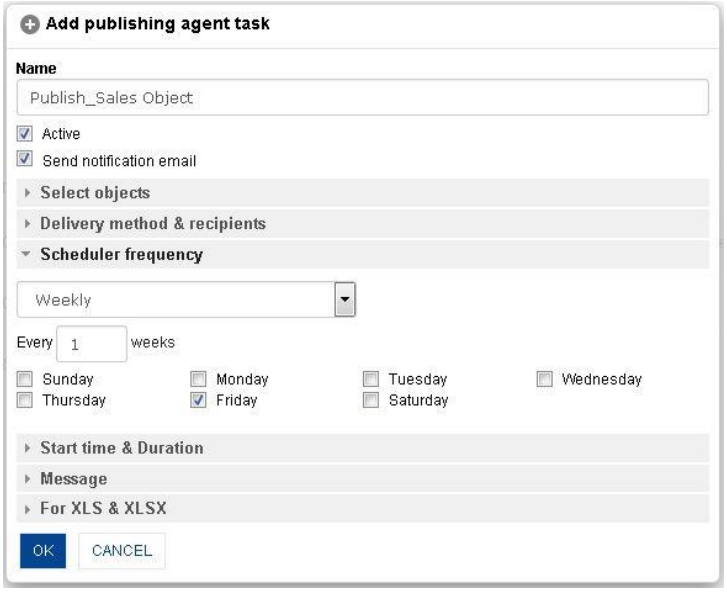
6. You can select the **Send notification email** checkbox if you want to send notification email to the owner of the task (user who is creating this task) when the task is complete
7. In the **Select objects** section:
    - From the **Select folder** list, select a folder.
    - From the **Objects folder** list, select an object.
    - Select the export format(s) (JPG, PNG, PDF, CSV, XML, XLS, XLSX and HTML). Formats will be based on object type.
      Crosstab: PDF, CSV, XML, XLS, XLSX and HTML
      Graph: JPG, PNG and PDF
      KPI & KPI Group: PDF, CSV, XML, XLS, and XLSX
      Tabular: PDF, CSV, XML, XLS, XLSX and HTML
      Dashboard: JPG, PNG, PDF, XLS and XLSX
    - Click **ADD.**

      The system displays the selected objects and export format(s) in the **Selected objects** section. You can include multiple objects by clicking **ADD.** You can also delete the added objects and formats by clicking **Delete** icon.



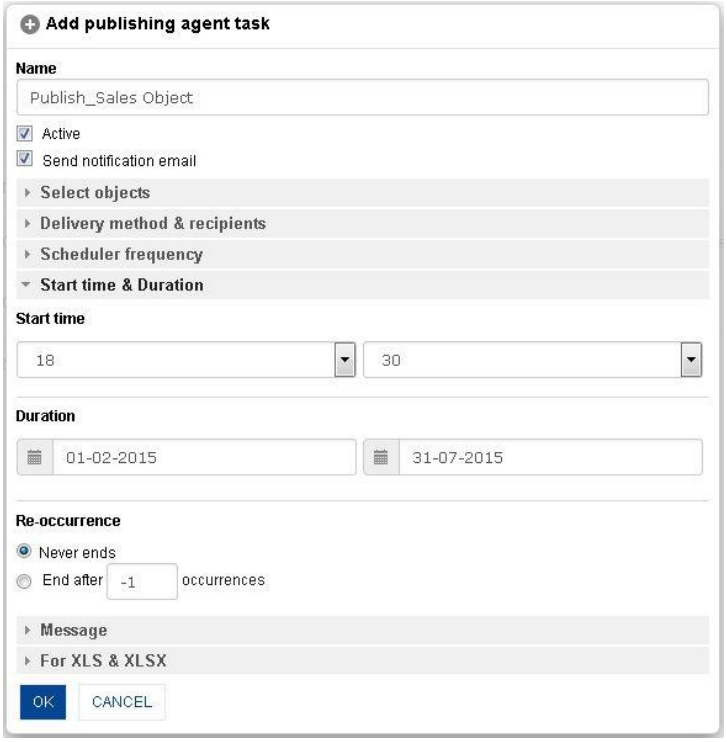
ADD TASK: DELIVERY METHOD & RECIPIENTS SELECTION

8. In the **Delivery method & recipients** section:
    - Select the delivery method(s) (by email and to folder).
    - Filter the recipients by using groups and A–Z filters. System displays list of users as per access rights policy defined by Administrator.
    - Drag and drop the users from the **Available users** list to **Selected users** list. You can deselect by moving the users back from the **Selected users.**



ADD TASK: SCHEDULER FREQUENCY SELECTION

9. In the Scheduler frequency section, select the frequency from the drop-down list (One time, Hourly, Daily, Weekly, Monthly, Yearly, Run this task after)
   The system displays the fields and options based on the frequency type selected.



ADD TASK: START TIME & DURATION SELECTION

10. In the **Start time & duration** section:
    - Select the start time from the **Hour** and **Minute** drop-down lists.
    - Select the duration by selecting the start date and end date from the calendar.
    - Select an option for reoccurrence (Never ends and End after “value” occurrences).

ADD TASK: MESSAGE

11. In the **Message** section, you will see default message. You can edit the message in the box.
12. In the **For XLS & XLSX** section, select the option(s) (Apply grouping and Merge all objects in one file).

ADD TASK: XLS & XLSX OPTIONS

13. Click **OK.**

Reference: **Concept Manual > Delivering & Publishing Agent**

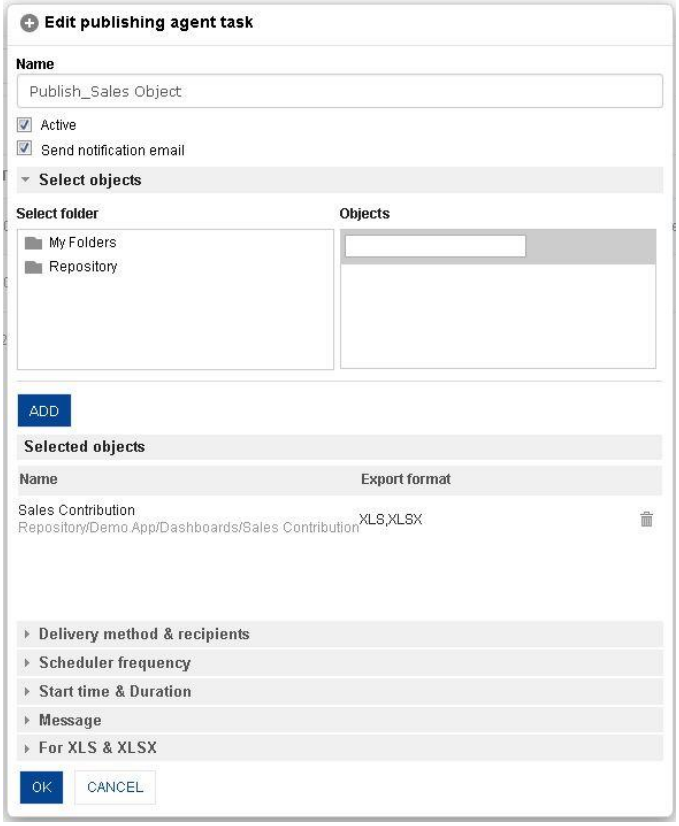
10.1.2 Edit Task

Procedure

1. Follow the Procedure of **Task list.**
2. From the task list, select a task.

The system displays the Publishing agent toolbar.

3. In the Publishing agent toolbar, click the **Edit** icon.
   The system displays the **Edit publishing agent task** dialog box.
4. In the **Edit publishing agent task** dialog box, change the values and options as needed.
5. Click **OK.**
   The system successfully edits the task.



EDIT PUBLISHING AGENT TASK

10.1.3 Run a Task Immediately (Run Now)

You can run a specific Delivery & Publishing Agent task and publish objects immediately by selecting the **Run Now** icon.

Procedure

1. Follow the Procedure of **Task list.**
2. From the task list, select a task.
   The system displays the Publishing agent toolbar.
3. In the Publishing agent toolbar, click the **Run Now** icon.
   The system instantly starts running the selected task.

10.1.4 Active/Inactive Task

You can change the state of a specific task by making the task **Active** or **Inactive**.

Procedure

1. Follow the Procedure of **Task list.**
2. From the task list, select a task.
   The system displays the Publishing agent toolbar.

3. In the Publishing agent toolbar, click either **Active** or **Inactive** icon.
   The system activates or deactivates the selected task.

10.1.5 Delete Task

Procedure

1. Follow the Procedure of **Task list.**
2. From the task list, select a task.
   The system displays the Publishing agent toolbar.
3. In the Publishing agent toolbar, click the **Delete** icon.
   The system deletes the selected task after confirmation.

11. Working with TeamUp

Smarten doubles up as a social media platform for Advanced Data Discovery with a dedicated feature called **TeamUp**. TeamUp allows users to not only share the Smarten objects with other users but also rate them and post comments for those objects. Public or private conversations—chat threads created through TeamUp allow users to converse with each other.

Reference: **Administrator Manual > Configuring TeamUp**

Reference: **Concept Manual > Social BI**

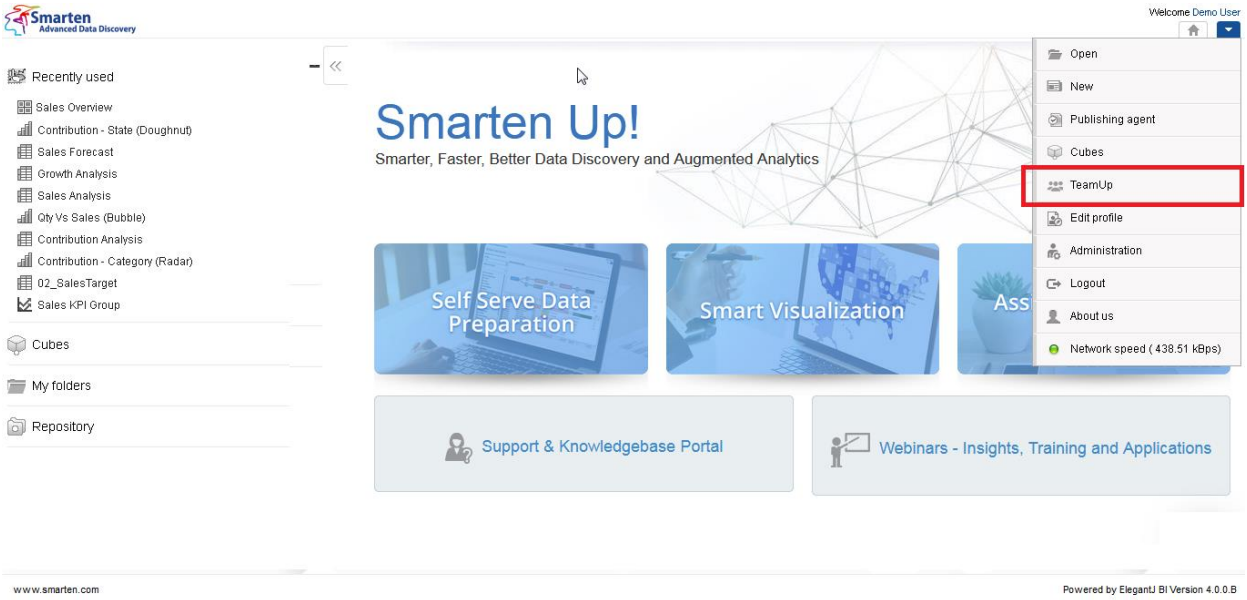
11.1 TeamUp Home

TeamUp Home is a collection of all conversations involving a user, either public or private in one place. A single page, where not only general, cube-specific, and object-specific conversations are filtered and displayed but activities related to social BI can also be carried out for any of the conversations of a user's choice.

Conversations are filtered and displayed in different tabs based on the following conditions:

Tab Name	Filter Condition
Recent	Displays last 10 conversations
Favorites	Displays all object-specific conversations that have been marked as Favorites
Popular	Displays 10 conversations that have the most number of comments
Participated in	Displays conversations in which the user is a participant
Created by me	Displays conversations where the first comment was posted by the user or conversations that are created by the user
All	Displays all general, object-specific, and cube-specific conversations

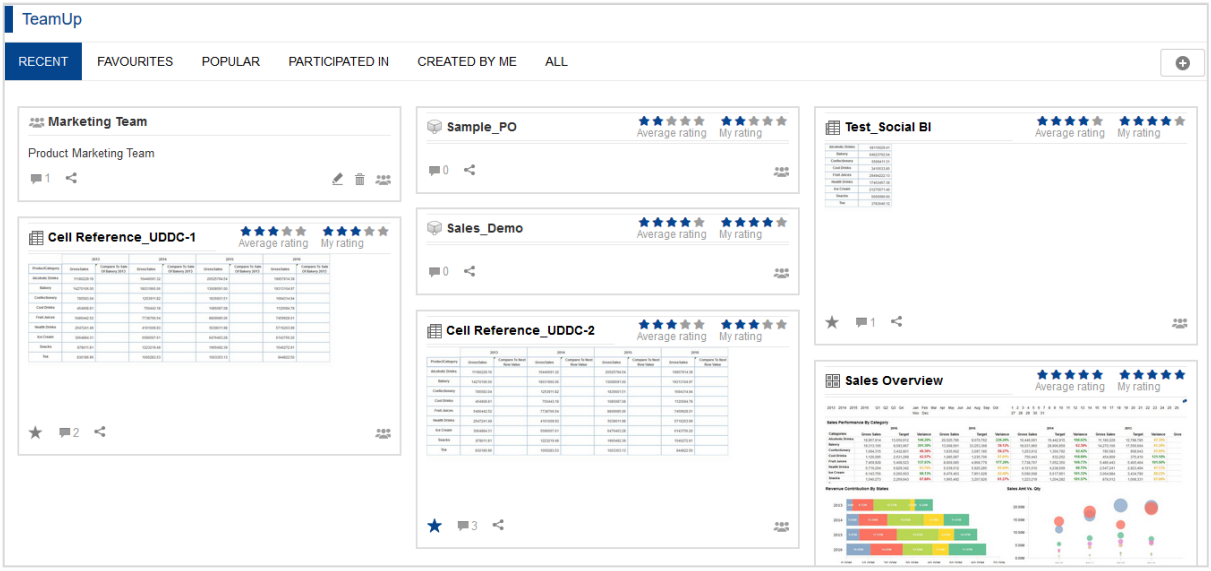
You can click on the desired tab to view and access its respective conversations.



TEAMUP LINK

Procedure

1. In the upper right-hand corner, click the **down arrow** icon.
   The system displays the Main Menu.
2. In the Main Menu, select **TeamUp.**
   The system displays the TeamUp home.



TEAMUP HOME

11.2 TeamUp Components

TeamUp allows Smarten users to perform a host of social activities in a very simple and organized manner. Conversations can be initiated for either general purposes or for a particular object or cube, and social activities can be performed for these conversations.

TeamUp can be categorized broadly into the following components:

11.2.1 General conversation

General conversations enable users to converse with each other on the platform of Smarten. These conversations are accessible through the TeamUp home page and are not related to any particular object, although referring to an object is possible during a conversation. Many conversation groups can be maintained, and new users can be invited when required. These conversations can also be declared as Public or Private depending upon the sensitivity of their content.

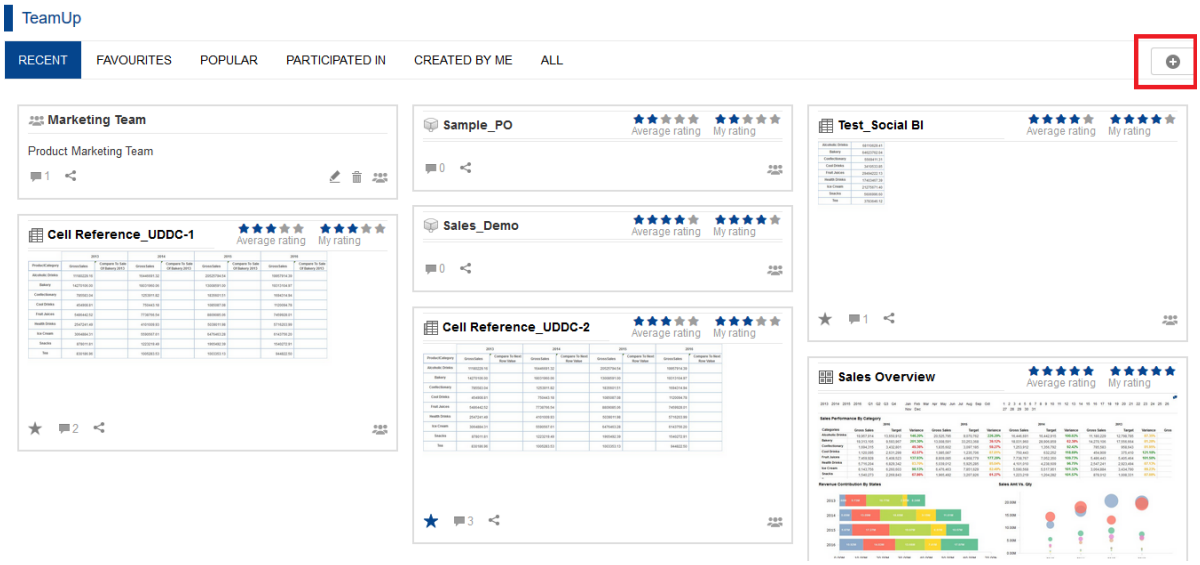
11.2.1.1 Add general conversation

About this task

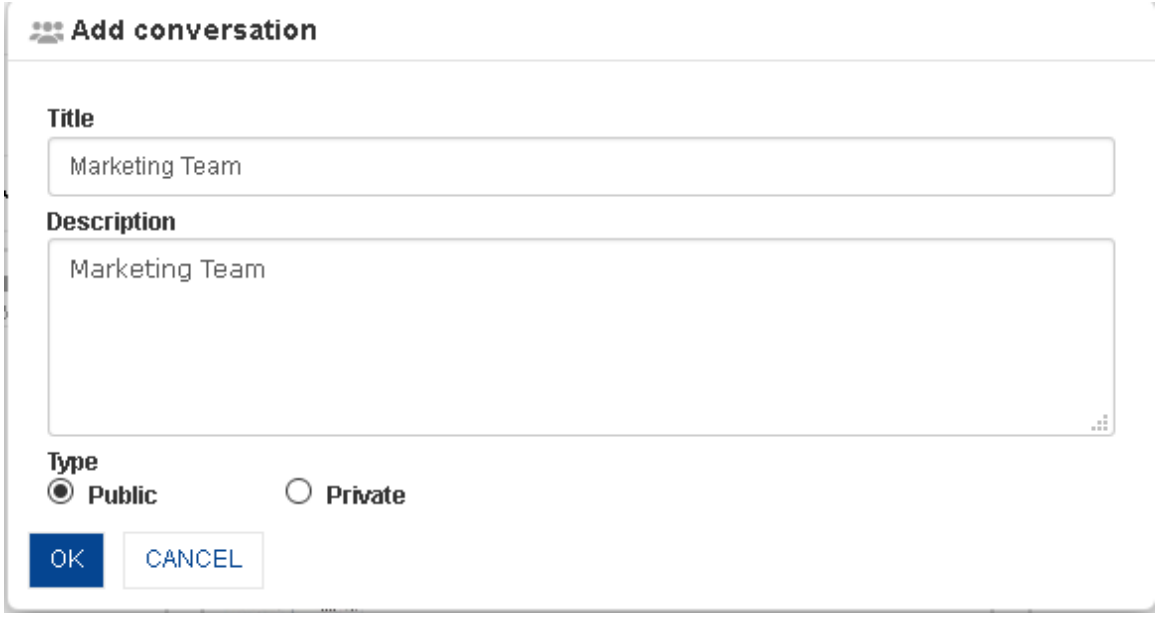
Use this procedure to add a general conversation.

Procedure

1. Follow the procedure to open **Teamup Home**.
2. In the upper right-hand corner, click the **Add** icon.
   The system displays the Add conversation dialog box.

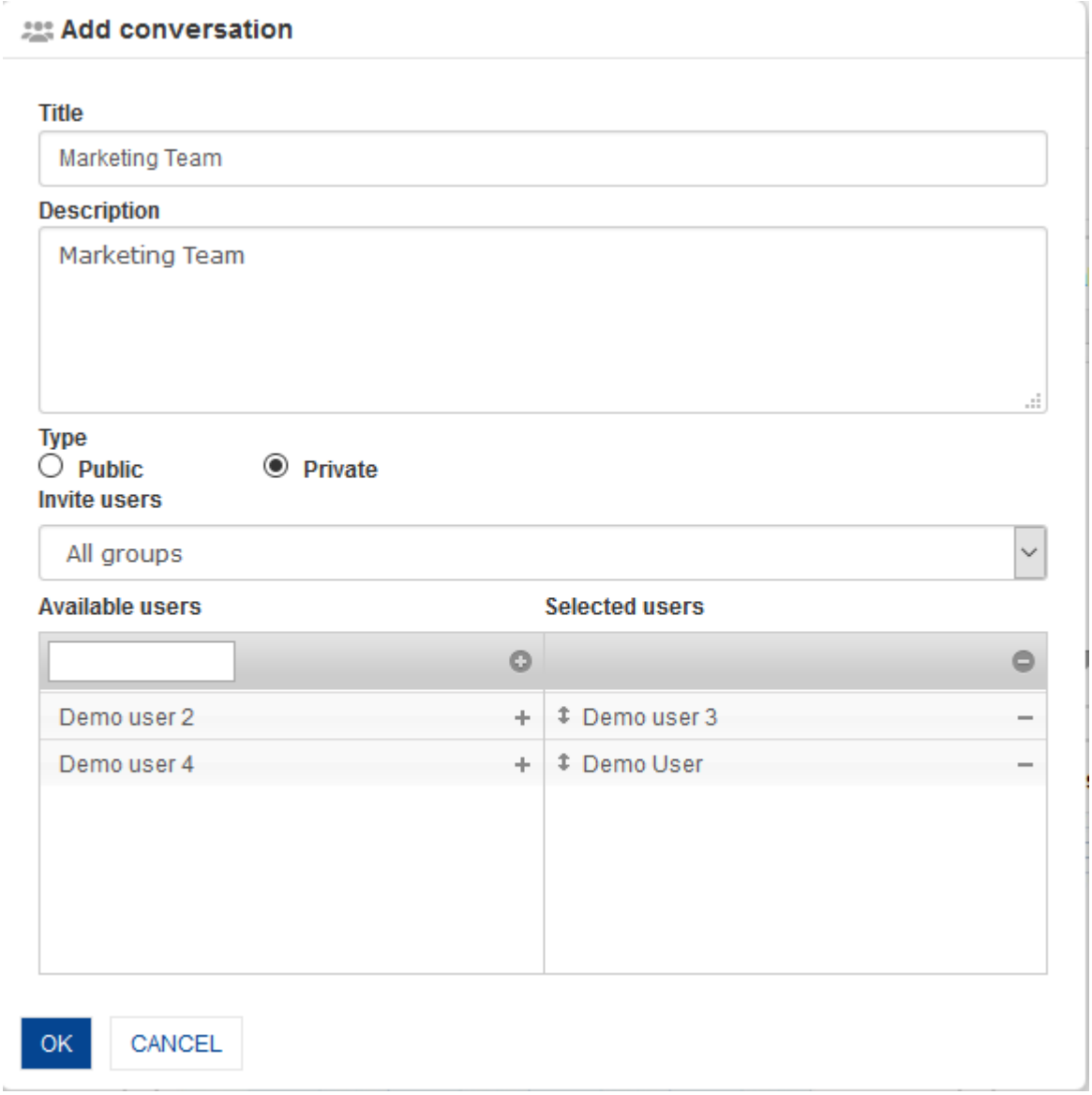


ADD CONVERSATION ICON



ADD CONVERSATION DIALOGUE

3. In the **Title** field, enter the title of the general conversation.
4. In the **Description** field, enter the description.
5. Select the desired radio button (Public, Private)
   Public conversations are available to all the logged in users of Smarten.
   Private conversations are available to only those users who have been invited to the conversation.



ADD GENERAL CONVERSATION - PRIVATE

6. To create **Private** conversation:
   - Filter the recipients by using groups and A–Z filters. System displays list of users as per access rights policy defined by the Administrator.
   - Drag and drop the users from the **Available users** list to **Selected users** list. You can deselect by moving the users back from the **Selected users.**
7. Click **OK**.

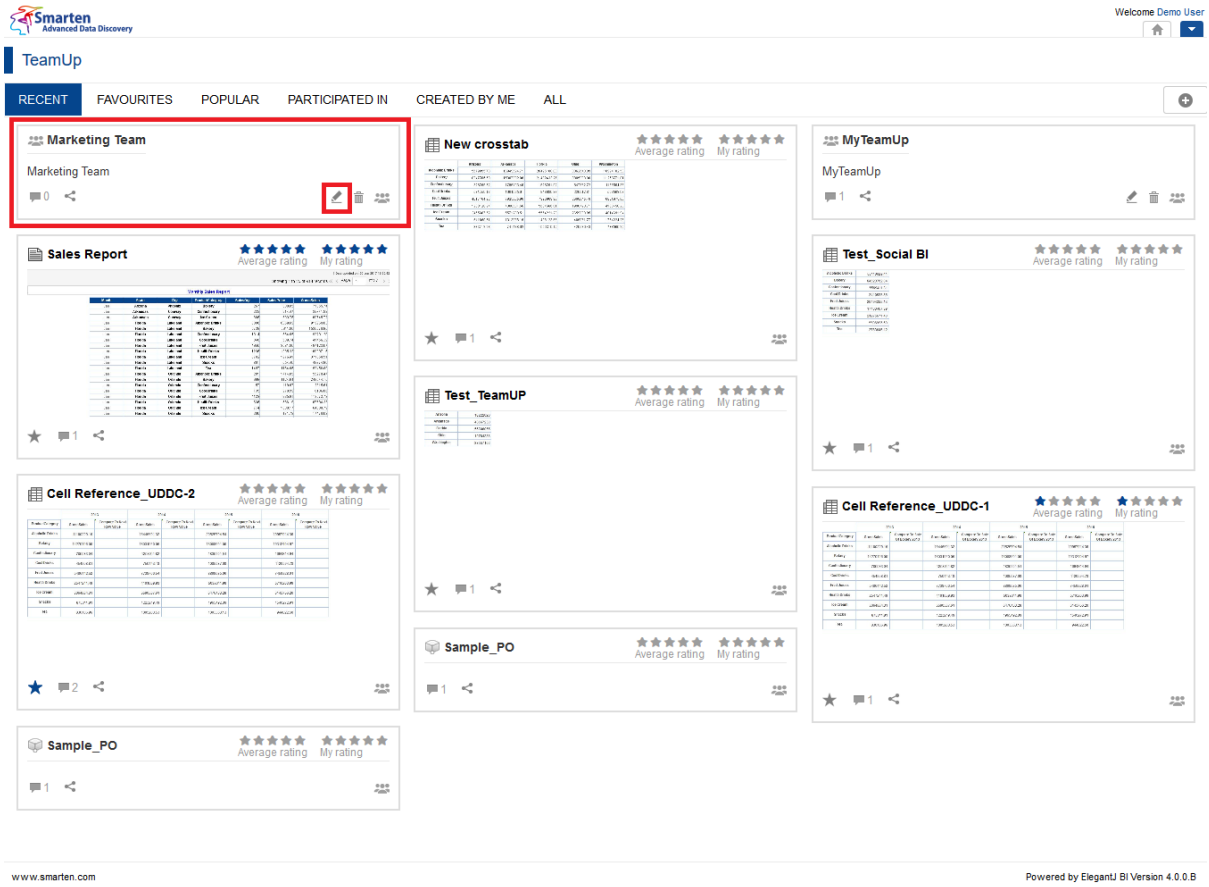
11.2.1.2 Edit general conversation

About this task

Use this procedure to edit a general conversation.

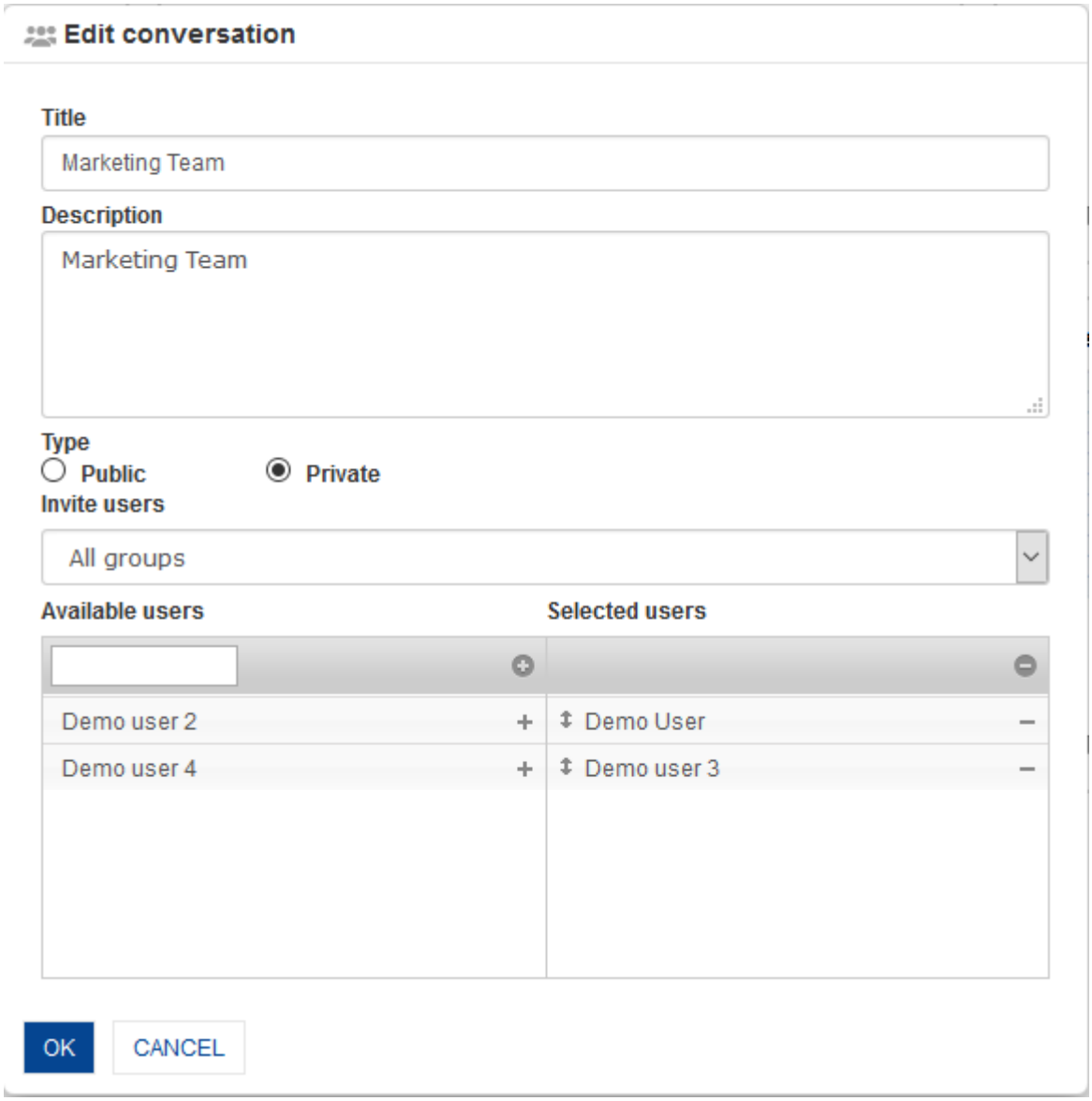
Procedure

1. Follow the procedure to open **TeamUp Home**.



EDIT GENERAL CONVERSATION ICON

2. In the TeamUp page, click on **Edit** icon of the general conversation.
   The system will display the **Edit conversation** dialogue box.
3. In the **Edit conversation** dialog box, change the values and options as needed.



EDIT GENERAL CONVERSATION DIALOGUE

4. Click **OK**.
   The system successfully edits the conversation.

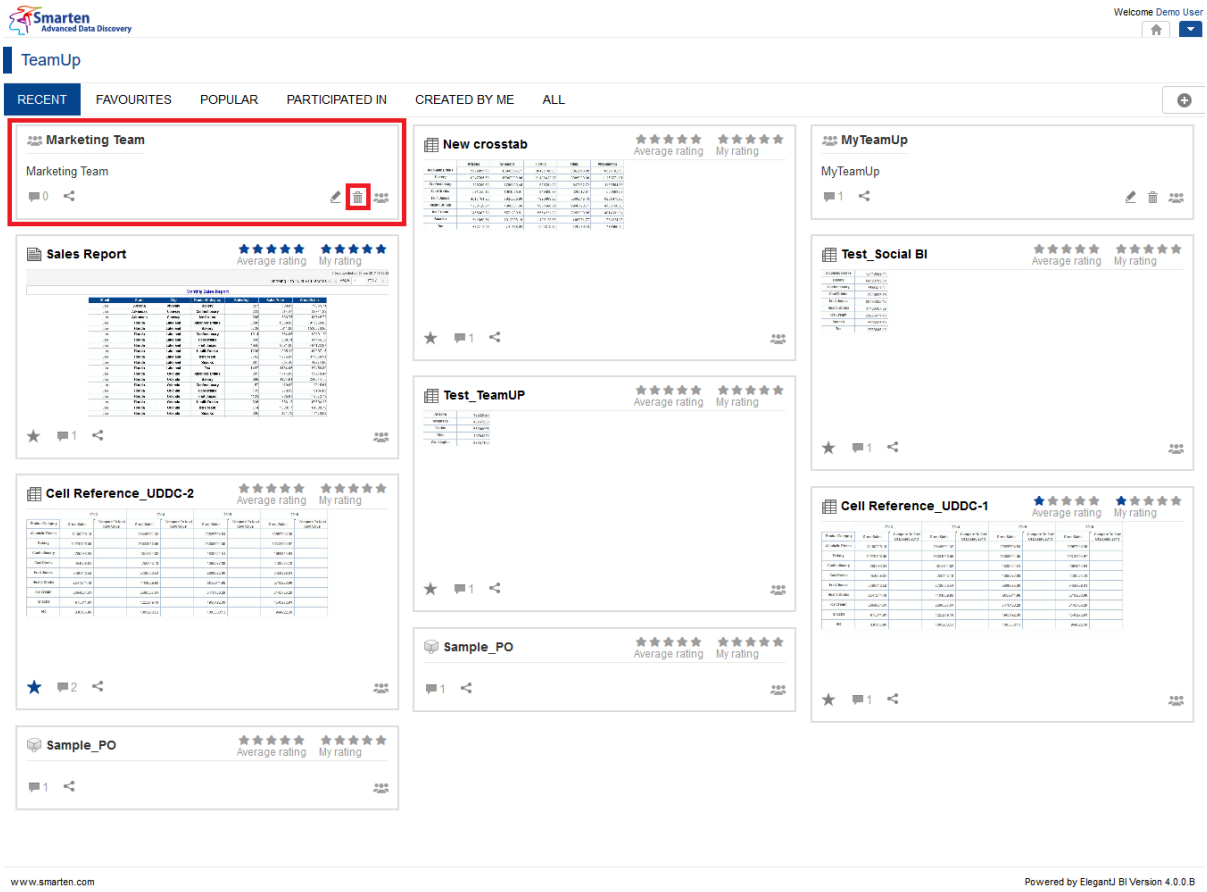
11.2.1.3 Delete general conversation

About this task

Use this procedure to delete a general conversation.

Procedure

1. Follow the procedure to open **TeamUp Home**.



DELETE GENERAL CONVERSATION ICON

2. In the TeamUp page, click on **Delete** icon of the general conversation.
   The system displays the **Delete** dialog box to confirm whether you want to delete the general conversation.
3. Click **OK**.
   The system successfully deletes the general conversation.

11.2.3 Object-specific conversation

Object-specific conversations are carried out especially for specific objects, such as Performance Analyses Dashboard or Sales Revenue Report. The reason and subject of such conversations is always an object and can be between users who have permission to access the object. Object-based conversations provide an important insight, such as a popular report or a dashboard.

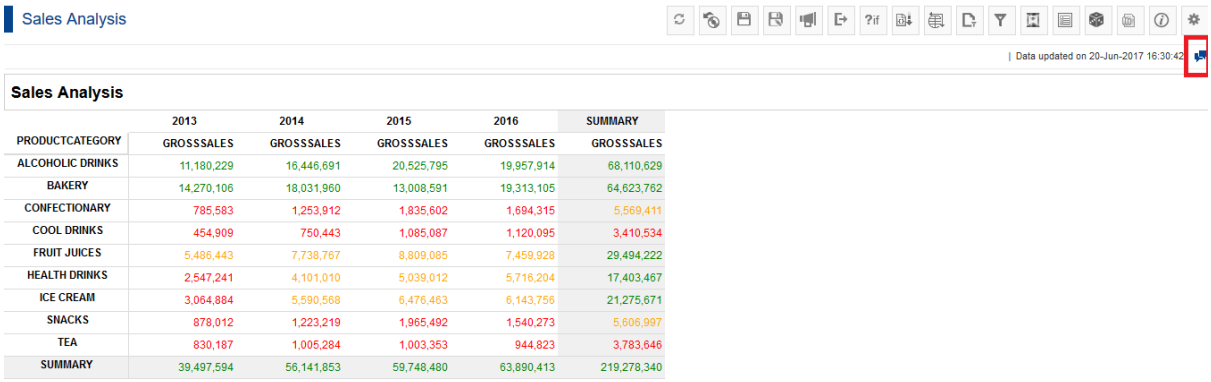
11.2.3.1 Add object-specific conversation

About this task

Create an object-specific conversation by posting comments for the object..

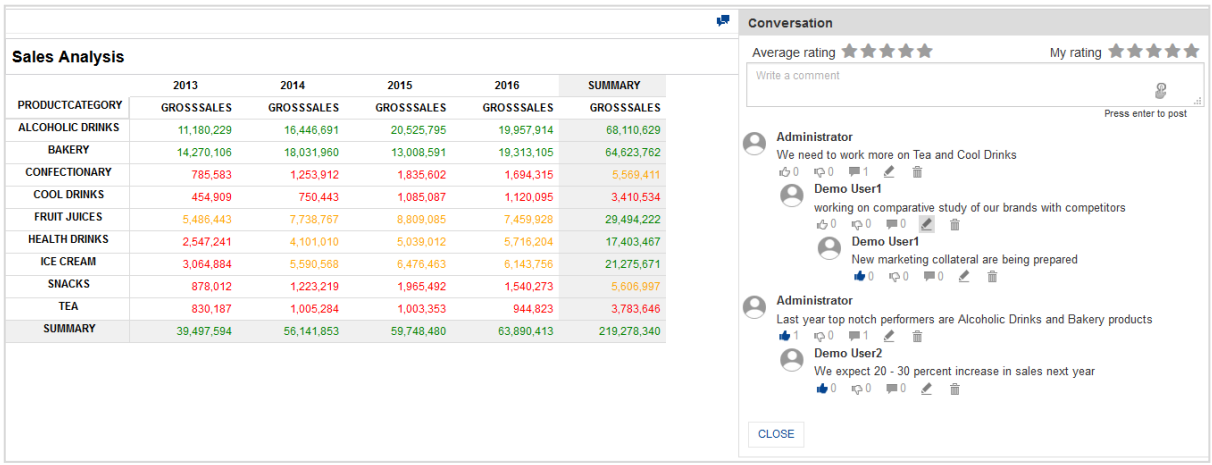
Procedure

1. In the left navigation pane, click **Repository**.
2. Select the folder where you have saved the object.
3. Click the object to view the object with object type specific tool bar and container.
4. In the upper right-hand corner, click the **Comments** icon.
   The system will display **Conversation** dialogue box.



	2013	2014	2015	2016	SUMMARY
PRODUCTCATEGORY	GROSSSALES	GROSSSALES	GROSSSALES	GROSSSALES	GROSSSALES
ALCOHOLIC DRINKS	11,180,229	16,446,691	20,525,795	19,957,914	68,110,629
BAKERY	14,270,106	18,031,960	13,008,591	19,313,105	64,623,762
CONFECTIONARY	785,583	1,253,912	1,835,602	1,694,315	5,569,411
COOL DRINKS	454,909	750,443	1,085,087	1,120,095	3,410,534
FRUIT JUICES	5,486,443	7,738,767	8,809,085	7,459,928	29,494,222
HEALTH DRINKS	2,547,241	4,101,010	5,039,012	5,716,204	17,403,467
ICE CREAM	3,064,884	5,590,568	6,476,463	6,143,756	21,275,671
SNACKS	878,012	1,223,219	1,965,492	1,540,273	5,606,997
TEA	830,187	1,005,284	1,003,353	944,823	3,783,646
SUMMARY	39,497,594	56,141,853	59,748,480	63,890,413	219,278,340

OBJECT OPENED



	2013	2014	2015	2016	SUMMARY
PRODUCTCATEGORY	GROSSSALES	GROSSSALES	GROSSSALES	GROSSSALES	GROSSSALES
ALCOHOLIC DRINKS	11,180,229	16,446,691	20,525,795	19,957,914	68,110,629
BAKERY	14,270,106	18,031,960	13,008,591	19,313,105	64,623,762
CONFECTIONARY	785,583	1,253,912	1,835,602	1,694,315	5,569,411
COOL DRINKS	454,909	750,443	1,085,087	1,120,095	3,410,534
FRUIT JUICES	5,486,443	7,738,767	8,809,085	7,459,928	29,494,222
HEALTH DRINKS	2,547,241	4,101,010	5,039,012	5,716,204	17,403,467
ICE CREAM	3,064,884	5,590,568	6,476,463	6,143,756	21,275,671
SNACKS	878,012	1,223,219	1,965,492	1,540,273	5,606,997
TEA	830,187	1,005,284	1,003,353	944,823	3,783,646
SUMMARY	39,497,594	56,141,853	59,748,480	63,890,413	219,278,340

OBJECT-SPECIFIC CONVERSATION DIALOGUE

5. Follow the procedure to **Post Comments**.
6. Click **CLOSE**.
7. The conversation will now be available in **TeamUp Home** page.

11.2.4 Cube-specific conversation

Cube-specific conversations are carried out especially for specific cubes. The reason and subject of such conversations is always a cube and can be between users who have permission to access the cube. Cube-based conversations also provide an important insight, such as popular data among users or a group of users.

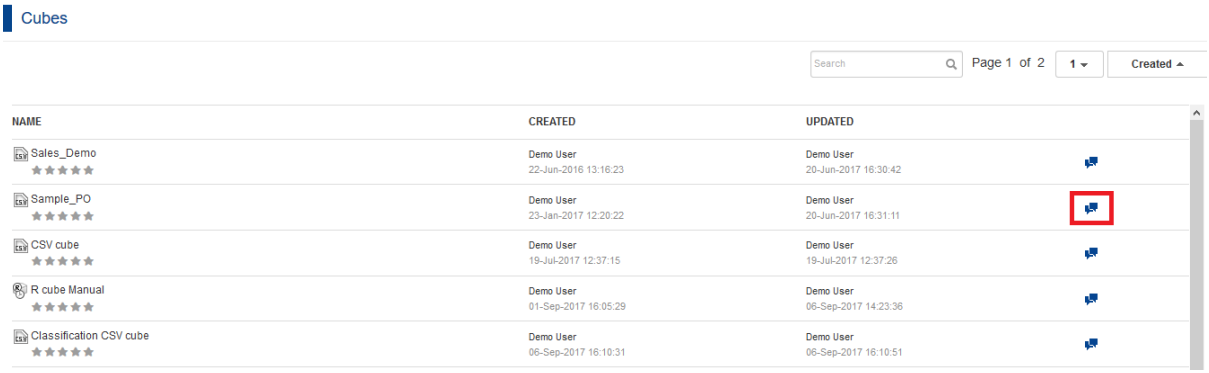
11.2.4.1 Add cube-specific conversation

About this task

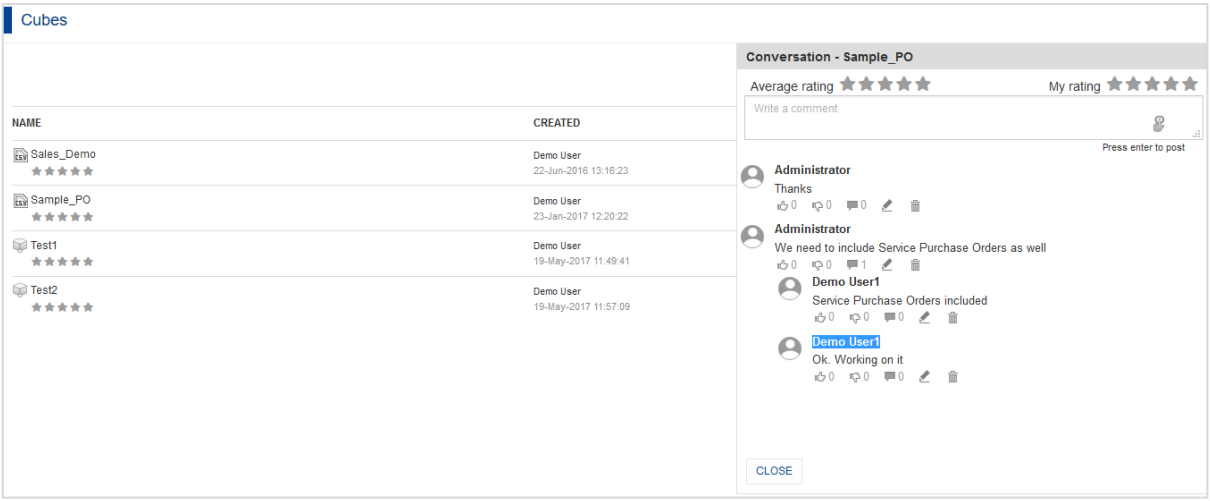
Create cube-specific conversation by posting comments for the cube.

Procedure

1. In the upper right-hand corner, click the **down arrow** icon.
   The system displays the Main Menu.
2. In the Main Menu, mouse over on **Cubes**.
   The system displays list of Cubes.
3. In the Cubes list, click the **Comments** icon of the desired cube.
   The system will display **Conversation** dialogue box.



LIST OF CUBES



CUBE-SPECIFIC CONVERSATION DIALOGUE

4. Follow the procedure to **Post Comments**.
5. Click **CLOSE**.
6. The conversation will also be available in **TeamUp Home** page.

11.3 TeamUp conversation

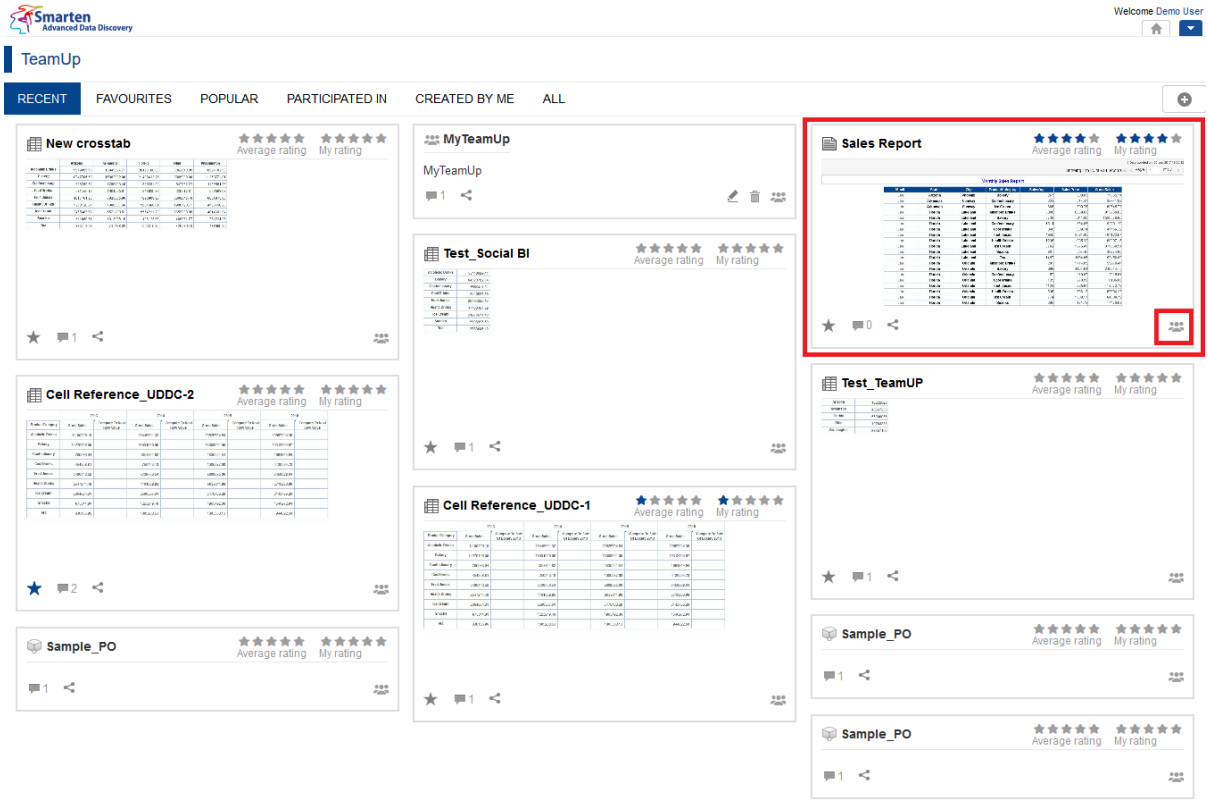
Each TeamUp conversation is an entity in itself, allowing users to view and participate in its social BI activities.

11.3.1 Open conversation

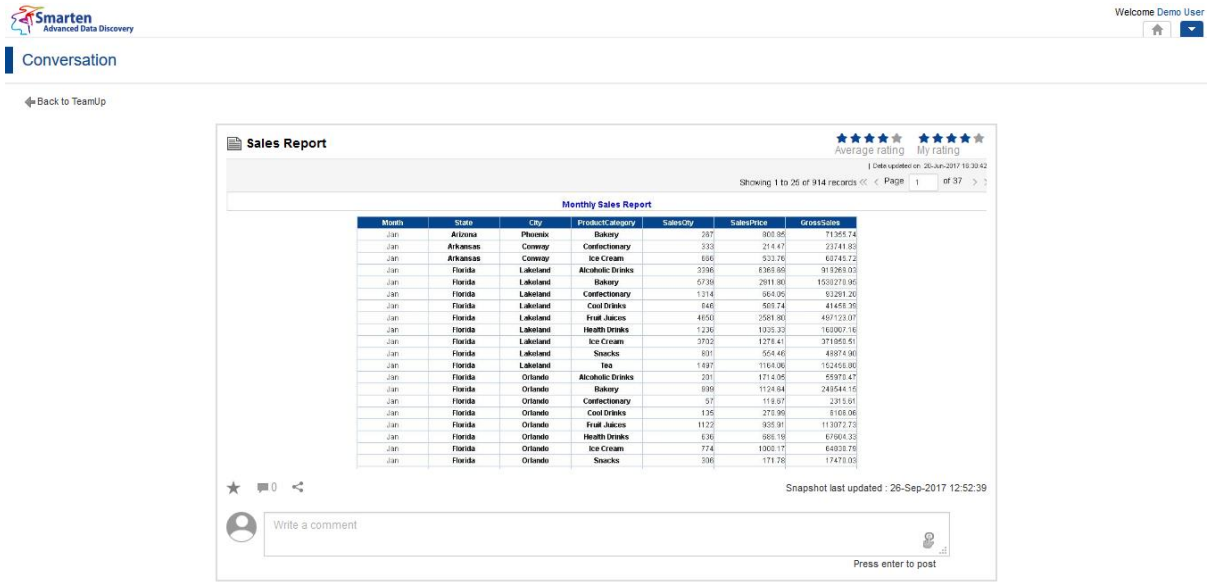
From the collection, you can open a conversation in full view mode to view it better and undertake social activities.

Procedure

1. In the **TeamUp** home page, click the **Open** icon on the desired conversation.
   The system will open the conversation in full view.



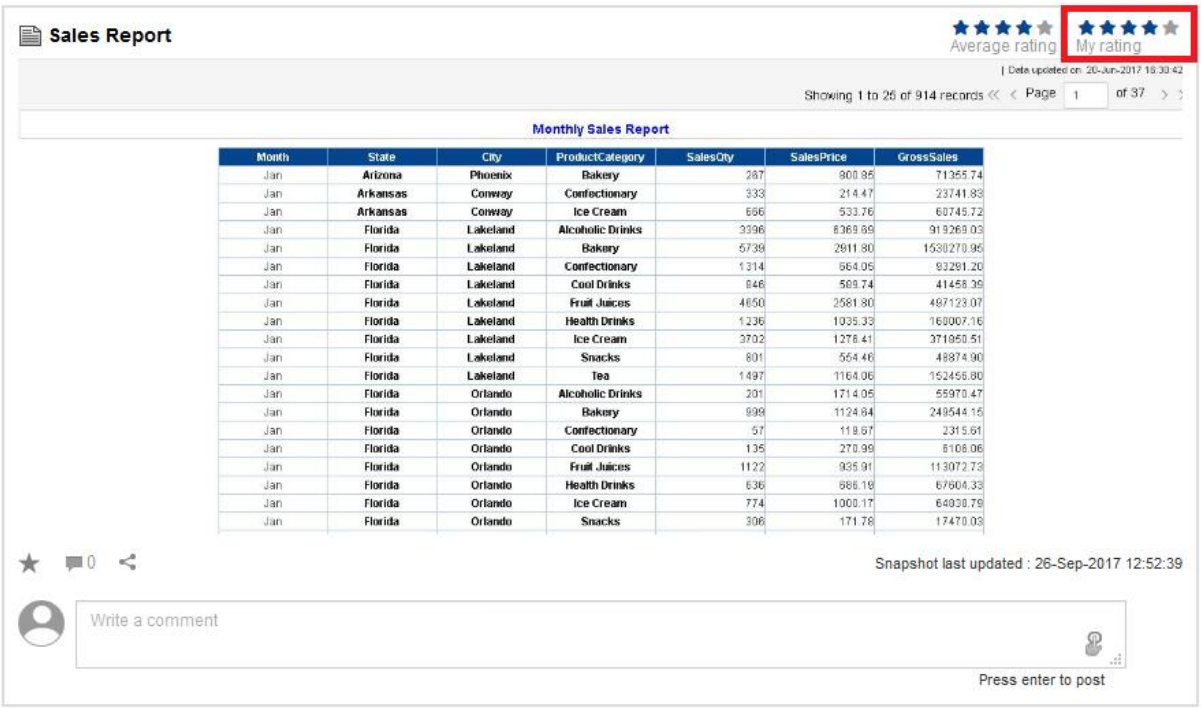
OPEN CONVERSATION ICON



COVERSATION OPENED IN FULL VIEW

11.3.2 Rating

You can rate an object or a cube from its conversation. The average rating of the object or a cube is displayed as well. A rating is represented by stars.



Month	State	City	ProductCategory	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	287	800.85	71365.74
Jan	Arkansas	Conway	Confectionary	333	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	666	533.76	60745.72
Jan	Florida	Lakeland	Alcoholic Drinks	3396	8368.89	919269.03
Jan	Florida	Lakeland	Bakery	5739	2911.80	1530270.96
Jan	Florida	Lakeland	Confectionary	1314	664.05	93291.20
Jan	Florida	Lakeland	Cool Drinks	846	588.74	41458.39
Jan	Florida	Lakeland	Fruit Juices	4650	2581.80	487123.07
Jan	Florida	Lakeland	Health Drinks	1236	1035.33	160007.16
Jan	Florida	Lakeland	Ice Cream	3702	1278.41	371950.51
Jan	Florida	Lakeland	Snacks	801	554.46	48874.90
Jan	Florida	Lakeland	Tea	1497	1164.06	152456.80
Jan	Florida	Orlando	Alcoholic Drinks	201	1714.05	55970.47
Jan	Florida	Orlando	Bakery	999	1124.84	249544.15
Jan	Florida	Orlando	Confectionary	57	118.67	2315.61
Jan	Florida	Orlando	Cool Drinks	135	270.99	6106.06
Jan	Florida	Orlando	Fruit Juices	1122	935.91	113072.73
Jan	Florida	Orlando	Health Drinks	636	686.19	67604.33
Jan	Florida	Orlando	Ice Cream	774	1000.17	64008.79
Jan	Florida	Orlando	Snacks	306	171.78	17470.03

RATING A CONVERSATION

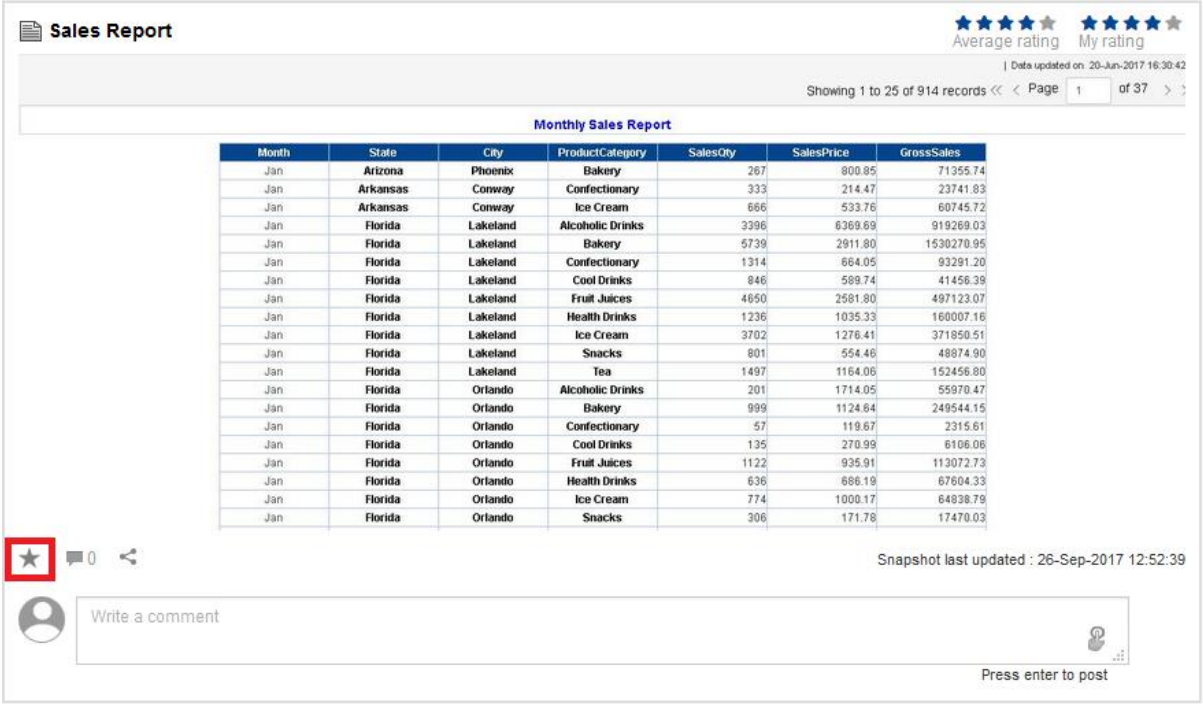
Procedure

1. In the upper right-hand corner of the conversation, hover the mouse over the **Stars**.
   The system will highlight the Stars as you move the cursor.
2. Click on the desired Star.
   The system will display your rating for the object/cube.
   The system will also update the Average rating of the object/cube.

> Note:
> General conversation can not be rated.
> You can also rate an object or cube by opening the conversation from that object or cube.

11.3.3 Favorites

You can mark object-specific conversations as “Favorites.” Such conversations will be displayed exclusively in the “Favorites” tab.



Month	State	City	ProductCategory	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	267	800.85	71355.74
Jan	Arkansas	Conway	Confectionary	333	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	666	533.76	60745.72
Jan	Florida	Lakeland	Alcoholic Drinks	3396	6369.69	919269.03
Jan	Florida	Lakeland	Bakery	5739	2911.80	1530270.95
Jan	Florida	Lakeland	Confectionary	1314	664.05	93291.20
Jan	Florida	Lakeland	Cool Drinks	846	589.74	41456.39
Jan	Florida	Lakeland	Fruit Juices	4650	2581.80	497123.07
Jan	Florida	Lakeland	Health Drinks	1236	1035.33	160007.16
Jan	Florida	Lakeland	Ice Cream	3702	1276.41	371850.51
Jan	Florida	Lakeland	Snacks	801	554.46	48874.90
Jan	Florida	Lakeland	Tea	1497	1164.06	152456.80
Jan	Florida	Orlando	Alcoholic Drinks	201	1714.05	55970.47
Jan	Florida	Orlando	Bakery	999	1124.64	249544.15
Jan	Florida	Orlando	Confectionary	57	119.67	2315.61
Jan	Florida	Orlando	Cool Drinks	135	270.99	6106.06
Jan	Florida	Orlando	Fruit Juices	1122	935.91	113072.73
Jan	Florida	Orlando	Health Drinks	636	686.19	67604.33
Jan	Florida	Orlando	Ice Cream	774	1000.17	64838.79
Jan	Florida	Orlando	Snacks	306	171.78	17470.03

FAVOURITES ICON

Procedure

1. Follow the procedure to open **TeamUp** home page.
2. In the lower left-hand corner of the conversation, click the **Favourites** icon.
   The system will highlight the icon.
3. The conversation will be added to **My Favourites** folder in the left navigation pane.
   The conversation will also be displayed exclusively in the "Favorites" tab of TeamUp home page.

> Note:
> Only object-specific conversations can be marked as Favorite.
> You can mark a conversation as favorite directly from the TeamUp home page or by opening the conversation in full view.

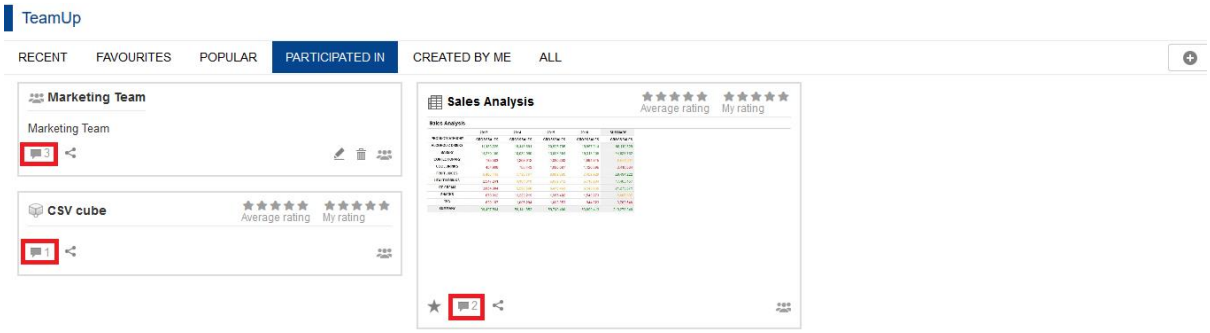
11.3.4 Comments

Allows posting of comments. You can also post reference of an object in comments, which can be viewed by other participants of the conversation. Conversation thread is displayed along with the count of likes and dislikes for each comment, and a time stamp is maintained for the same. Posting replies to comments is allowed. You can also edit or delete comments posted by you.

11.3.4.1 Post Comments

Procedure

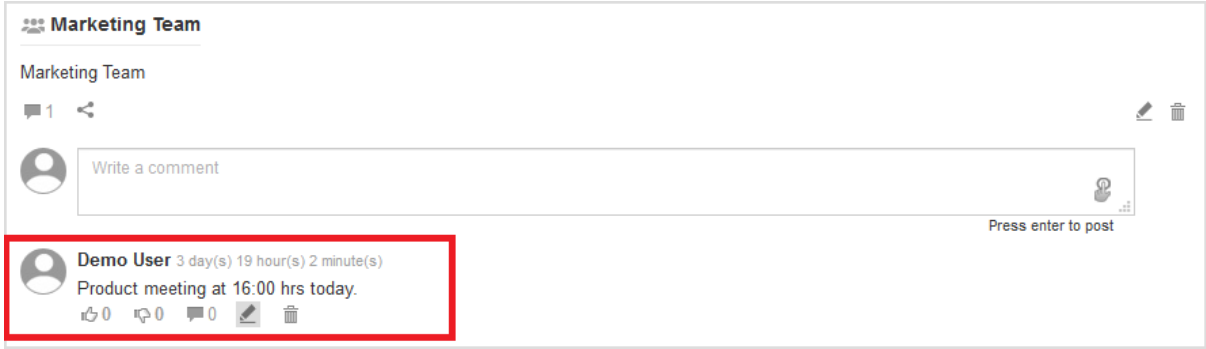
1. Follow the procedure to open **TeamUp** home page.
2. In the lower left-hand corner of the conversation, click the **Comments** icon.
   The system will display a box to write comment.



COMMENTS ICON

3. Enter the comment in the box.
4. Press <ENTER> key to post the comment.
   The message will be posted.

ENTER COMMENT



POSTED COMMENT

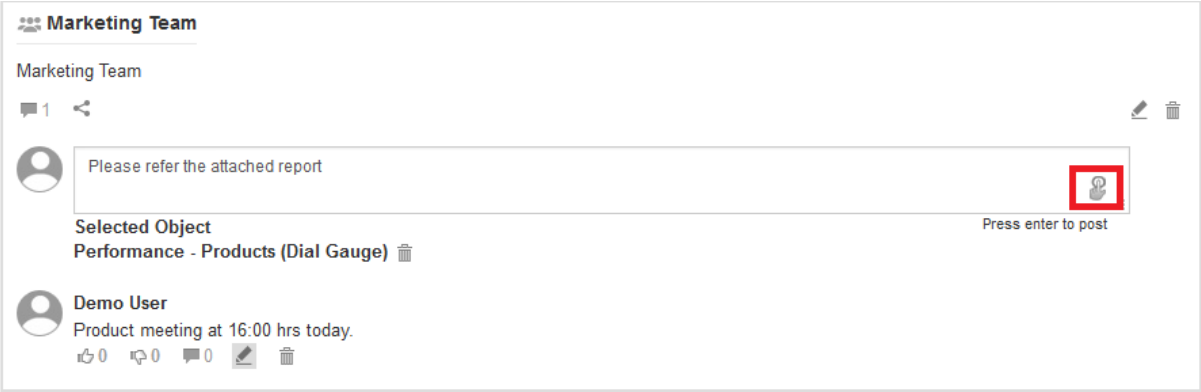
5. Alternatively, you can also post object-specific or cube-specific comments from the respective object or cube.

   For object-specific conversation, follow the procedure to **Add object-specific conversation**.
   For cub-specific conversation, follow the procedure to **Add cube-specific conversation**.

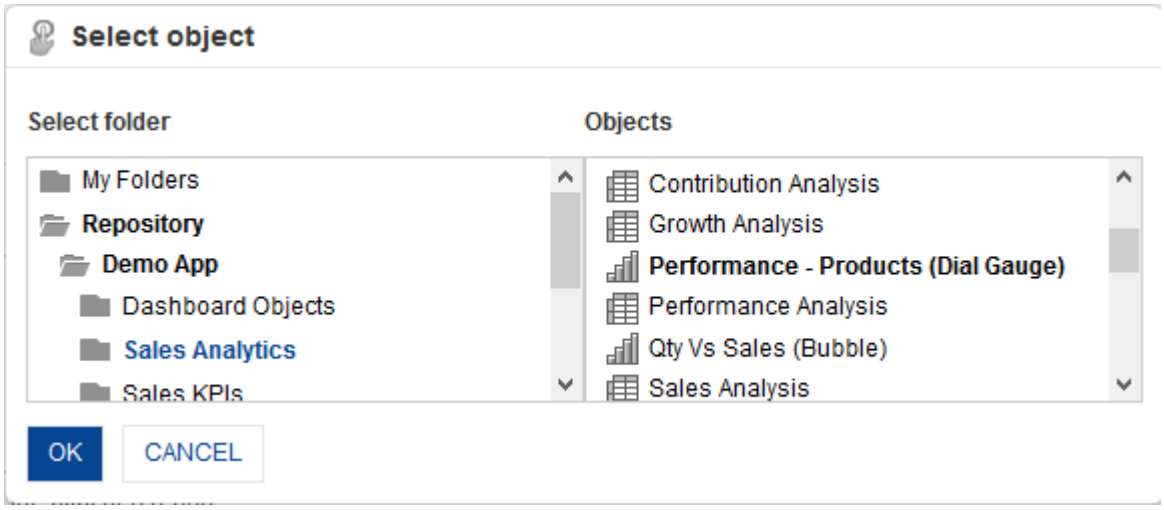
11.3.4.2 Post objects as comments

Procedure

1. Enter the comment in the box.
2. Click **Select Object** icon.
   The system will display **Select Object** dialogue box.

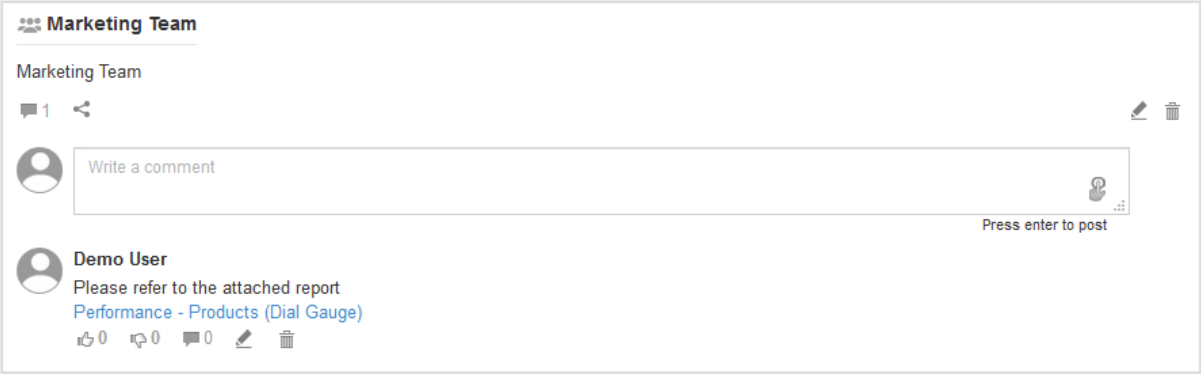


SELECT OBJECT ICON



SELECT OBJECT DIALOGUE BOX

3. In the **Select folder** box, choose a folder.
4. In the **Objects** box, choose an object.
5. Click **OK**.
6. Press <ENTER> key to post the comment.
   The message will be posted.

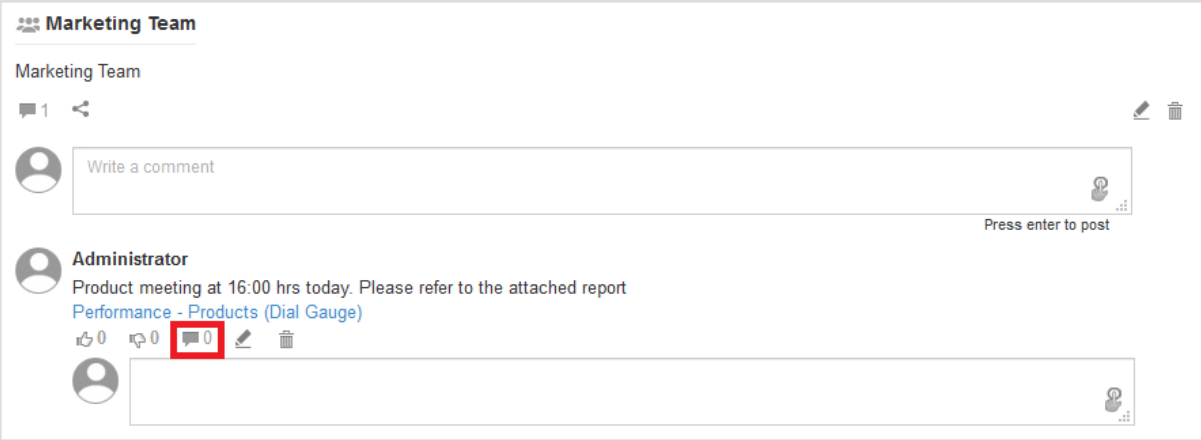


POSTED OBJECT

11.3.4.3 Post reply to comments

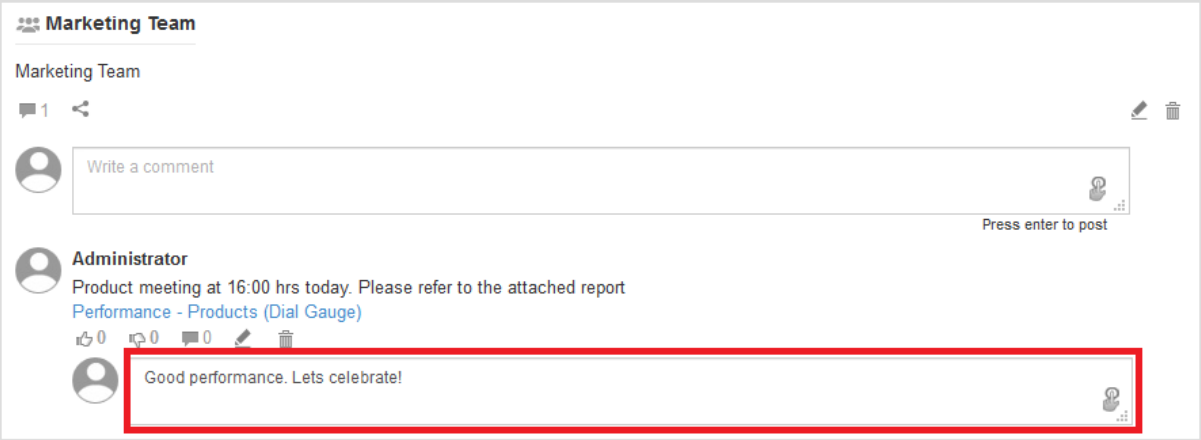
Procedure

1. Click **Reply** icon on the posted comment.

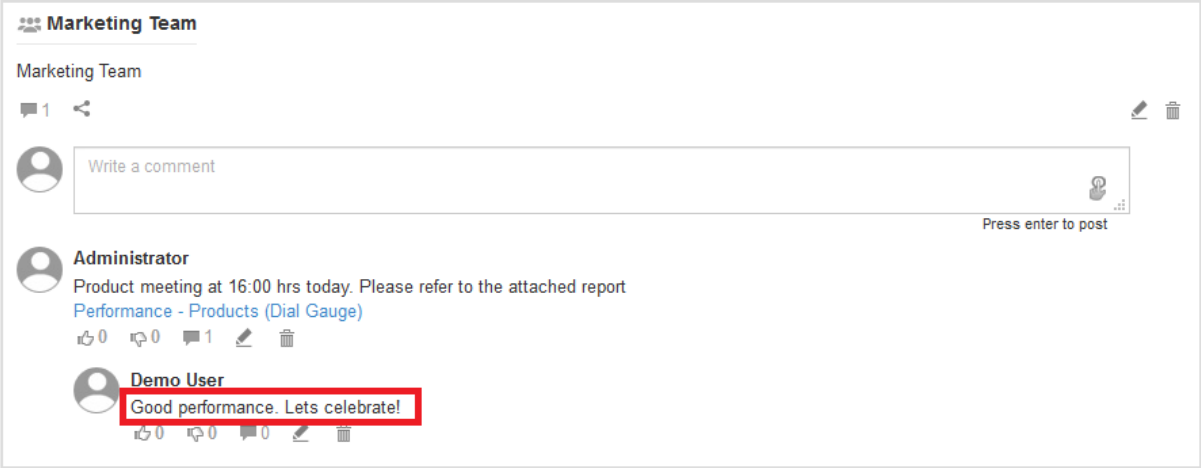


REPLY ICON

2. Enter the comment in the box.
3. Press <ENTER> key to post the comment.
   The message will be posted.



ENTER REPLY



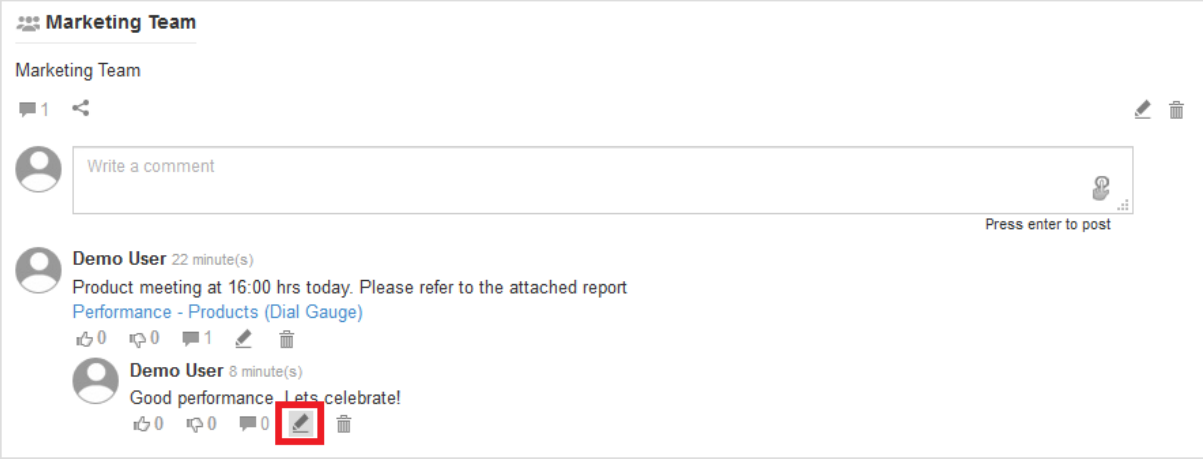
POSTED REPLY

11.3.4.4 Edit posted comments

Only those comments can be edited, that have been posted by you.

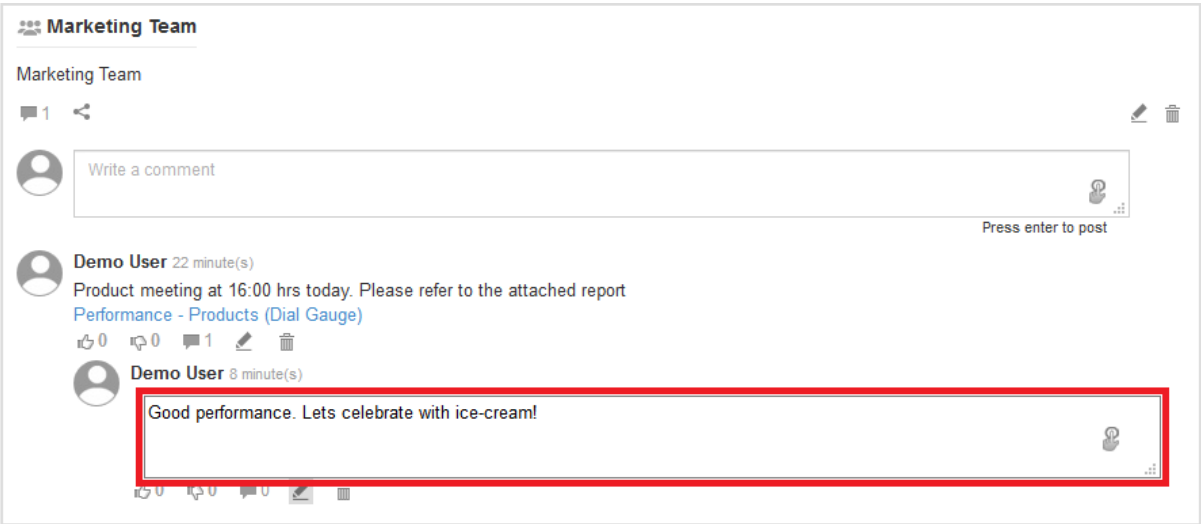
Procedure

1. Click **Edit** icon on the posted comment to edit it.

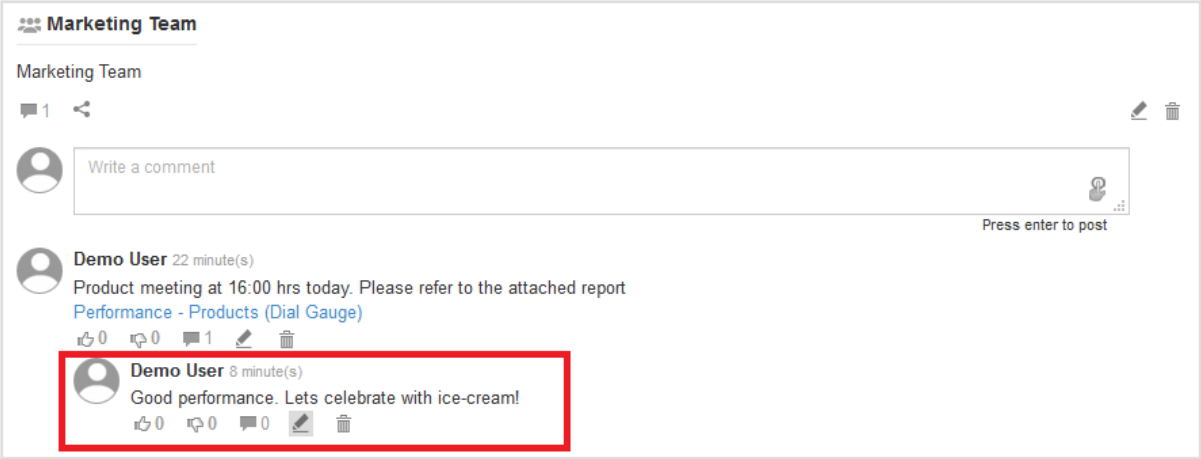


EDIT ICON ON THE POSTED COMMENT

2. Edit the posted comment.
3. Press <ENTER> key to post the comment.
   The comment will be posted.



EDIT POSTED COMMENT



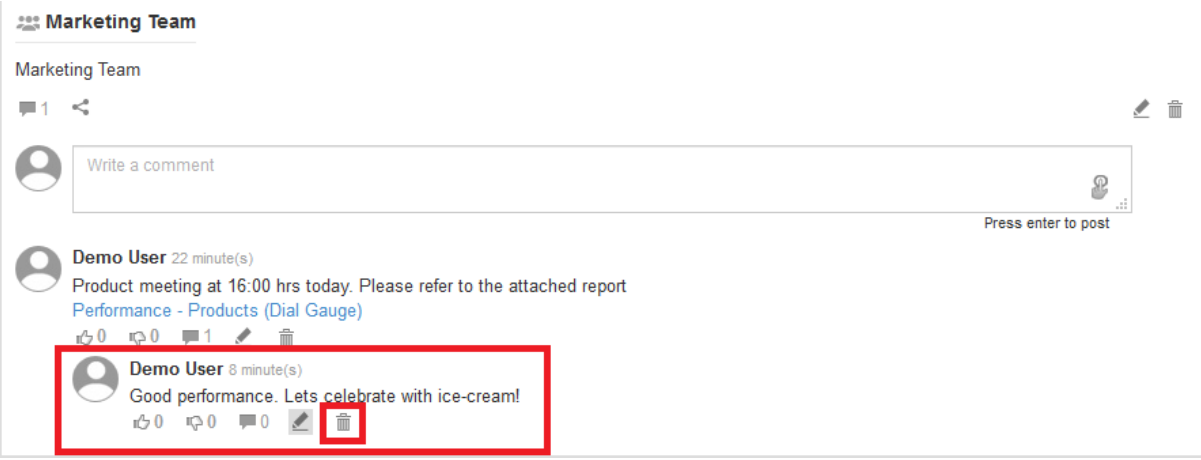
POSTED COMMENT

11.3.4.5 Delete posted comments

Only those comments can be deleted, that have been posted by you.

Procedure

1. Click **Delete** icon on the posted comment to delete it.
   The system displays the **Delete** dialog box to confirm whether you want to delete the current comment.



DELETE ICON ON THE POSTED COMMENT

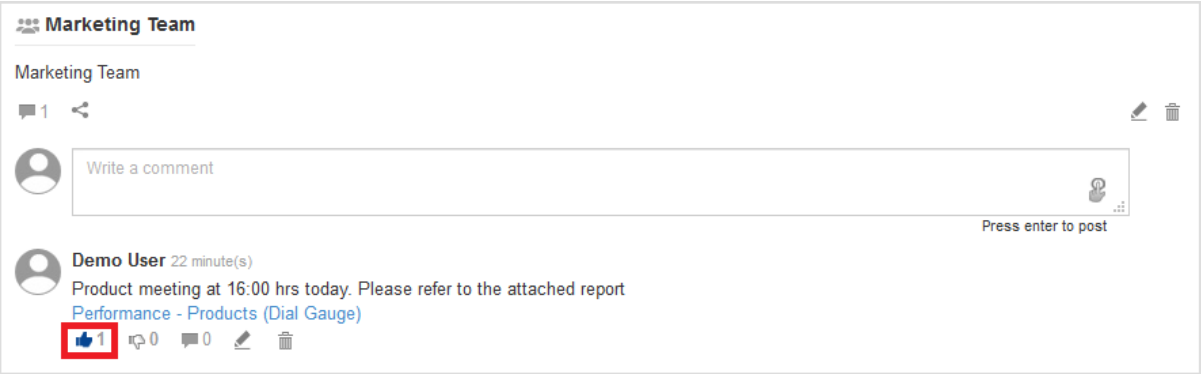
2. Click **OK**.

11.3.5 Likes

Allows a user to like or dislike comments with a single click. A count of likes and dislikes is updated instantly.

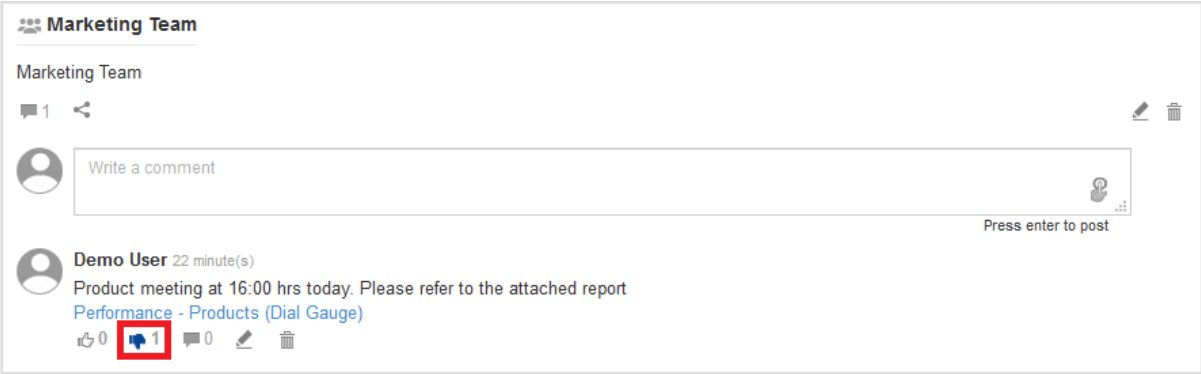
Procedure

1. Click **Like** icon on the posted comment to like it.
   The system will update the count of likes immediately.



LIKE COMMENT ICON

2. Similarly, click **Dislike** icon on the posted comment to dislike it.
   The system will update the count of dislikes immediately.



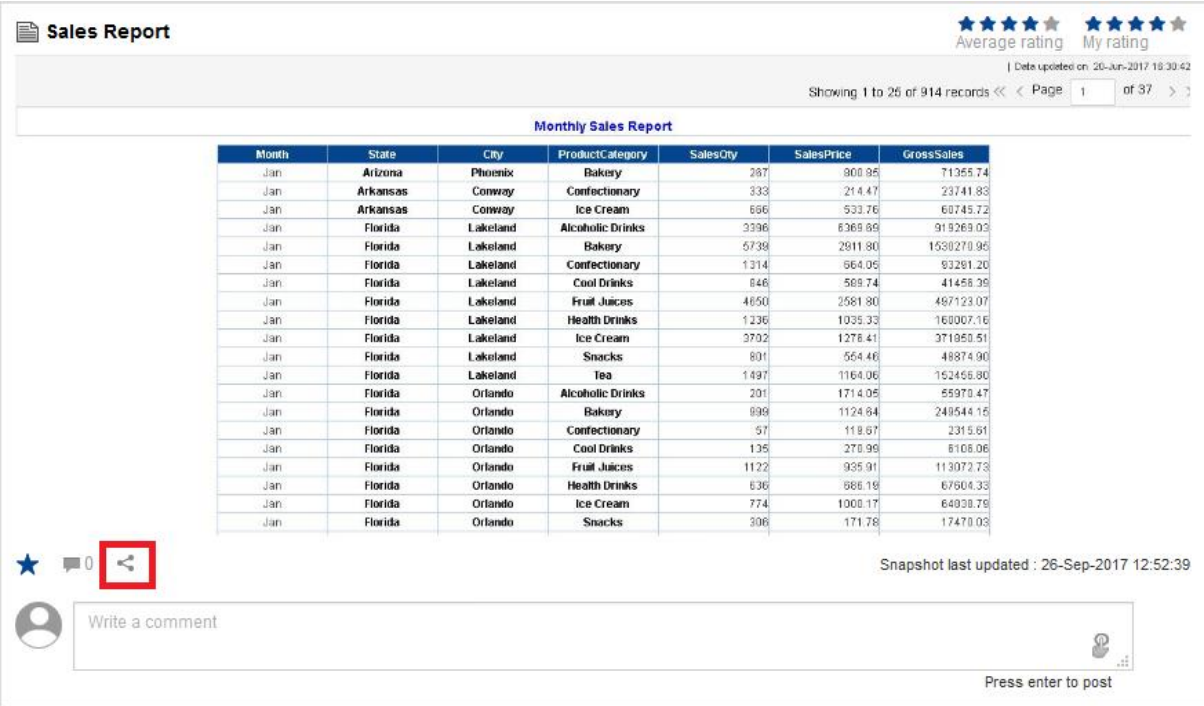
DISLIKE COMMENT ICON

11.3.6 Invite users

New users can be invited to join a conversation at any time.

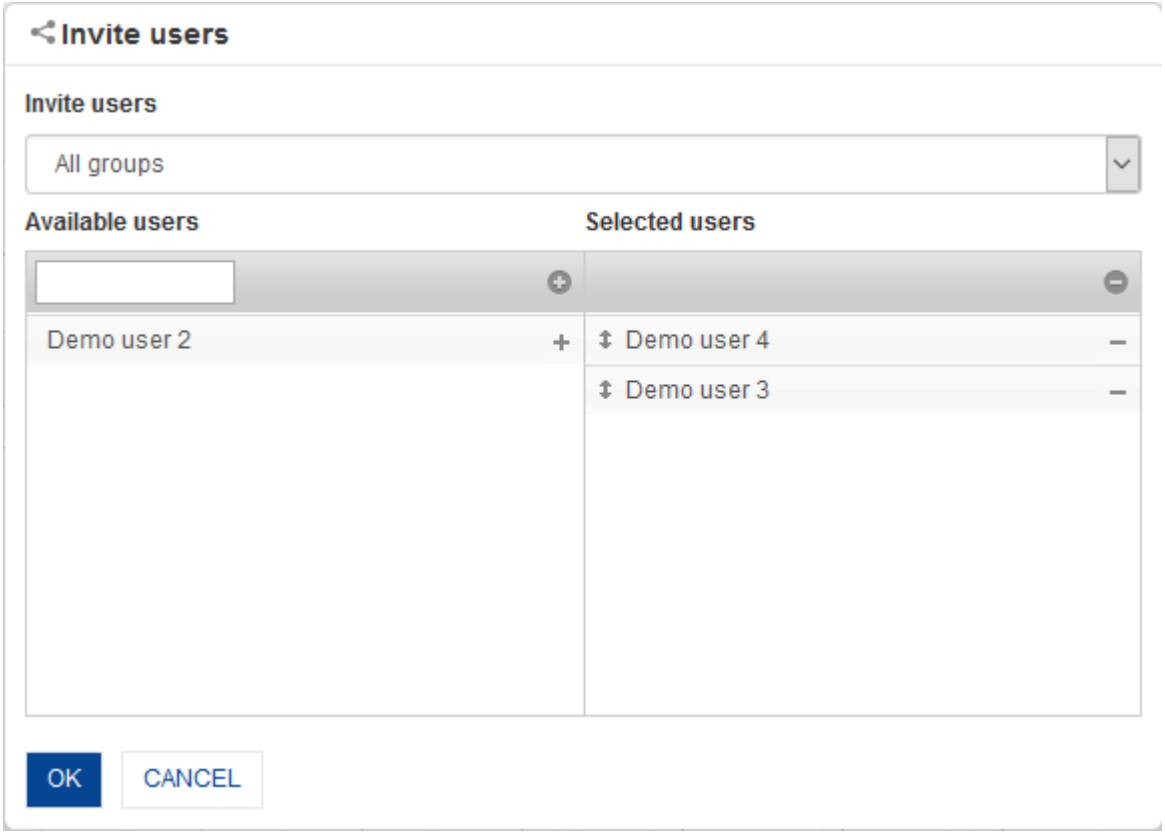
Procedure

1. Follow the procedure to open **TeamUp** home page.
2. In the lower left-hand corner of the conversation, click the **Invite users** icon.
   The system displays the **Invite users** dialog box.



Month	State	City	ProductCategory	SalesQty	SalesPrice	GrossSales
Jan	Arizona	Phoenix	Bakery	287	800.95	71355.74
Jan	Arkansas	Conway	Confectionary	333	214.47	23741.83
Jan	Arkansas	Conway	Ice Cream	666	533.76	60745.72
Jan	Florida	Lakeland	Alcoholic Drinks	3396	6369.69	919269.03
Jan	Florida	Lakeland	Bakery	5739	2911.80	1530270.95
Jan	Florida	Lakeland	Confectionary	1314	664.05	93291.20
Jan	Florida	Lakeland	Cool Drinks	846	589.74	41456.39
Jan	Florida	Lakeland	Fruit Juices	4650	2581.80	497123.07
Jan	Florida	Lakeland	Health Drinks	1236	1035.33	160007.16
Jan	Florida	Lakeland	Ice Cream	3702	1276.41	371950.51
Jan	Florida	Lakeland	Snacks	801	564.46	48874.90
Jan	Florida	Lakeland	Tea	1497	1164.06	152456.80
Jan	Florida	Orlando	Alcoholic Drinks	201	1714.05	55970.47
Jan	Florida	Orlando	Bakery	999	1124.64	249544.15
Jan	Florida	Orlando	Confectionary	57	119.67	2315.61
Jan	Florida	Orlando	Cool Drinks	135	270.99	6106.06
Jan	Florida	Orlando	Fruit Juices	1122	935.91	113072.73
Jan	Florida	Orlando	Health Drinks	636	686.19	67604.33
Jan	Florida	Orlando	Ice Cream	774	1000.17	64938.79
Jan	Florida	Orlando	Snacks	306	171.78	17470.03

INVITE USERS ICON



3. To invite users:
   - Filter the recipients by using groups and A–Z filters. System displays list of users as per access rights policy defined by the Administrator.
   - Drag and drop the users from the **Available users** list to **Selected users** list. You can deselect by moving the users back from the **Selected users.**
4. Click **OK**.
   The conversation will be available to the invited users.

> Note:
> You can invite users to a conversation directly from the TeamUp home page or by opening the conversation in full view.

12. Product and Support Information

Find more information about Smarten and its features at www.smarten.com
Support: support@smarten.com
Sales: sales@smarten.com
Feedback & Suggestions: support@smarten.com
Support & Knowledgebase Portal: support.smarten.com