

Self-Serve Data Preparation (SSDP) User Manual Version 5.1

Document Version: 2.0 Product Version: 5.1



Document Information		
Document ID	Smarten-User-Manual-SSDP	
Document Version	2.0	
Product Version	5.1	
Date	28-November-2020	
Recipient	NA	
Author	EMTPL	

© Copyright Elegant MicroWeb Technologies Pvt. Ltd. 2020. All Rights Reserved.

Statement of Confidentiality, Disclaimer and Copyright

This document contains information that is proprietary and confidential to EMTPL, which shall not be disclosed, transmitted, or duplicated, used in whole or in part for any purpose other than its intended purpose. Any use or disclosure in whole or in part of this information without the express written permission of EMTPL is prohibited.

Any other company and product names mentioned are used for identification purpose only, may be trademarks of their respective owners and are duly acknowledged.

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.

Contents

1	About this document	6
	1.1 Scope and Organisation of Topic Areas	6
	1.2 Conventions used	6
2	Introducing ElegantJ BI - Smarten	6
_		_
3	Introducing Self-Serve Data Preparation (SSDP)	7
•		•
4	Creating a Data Source	
	4.1 Creating a Database Profile	
	4.1.1 Testing a Database Connection	
	4.2 Creating a File Type Profile.	
	4.2.1 Creating a Text File Type Profile	
	4.2.2 Creating an Excel File Type Profile4.2.3 Creating an XML File Type Profile	
	4.2.5 Creating all XML File Type Profile	
	4.3 Creating a Google Analytics Profile	
	4.3 Creating a Google Analytics Frome4.4 Creating an R Script Profile	
	4.4.1 Testing an R Integration Connection	
	4.5 Creating an SAP Profile	
	4.5.1 Testing a SAP Connection	
		27
5	Data Source Management	28
	5.1 Editing a Data Source	.28
	5.2 Deleting a Data Source	
	5.3 Managing Access Rights for a Data Source	
	5.4 Copying a Data Source	
	5.5 Exporting a Data Source	38
	5.6 Importing a Data Source	40
	5.7 Marking a Data Source as IT Approved	43
	5.8 Unmarking a Data Source as IT Approved	45
6	Creating a Dataset	
	6.1 Creating a Dataset Using a Database Profile	
	6.1.1 Creating a Dataset Using a Ready to Use Query	
	6.1.2 Creating a Dataset Using the Step-by-Step Wizard	
	6.2 Creating a Dataset Using a File Type Profile	
	6.3 Creating a Dataset Using a Google Analytics Profile	
	6.4 Creating a Dataset Using an R Script Data Source	
	6.5 Creating a Dataset Using an SAP Data Source	
	6.5.1 Data Types Supported by Smarten	
	6.6 Creating a Dataset Using a Dataset	.89
7	Working with Dataset	02
'	Working with Dataset	
	7.1 Dataset Management	
	7.1.1 Opening a Dataset	
	7.1.2 Editing a Dataset	
	7.1.2.1 Editing Name and Description of a Dataset	
	7.1.2.2 Enabling Managed Memory for a Dataset	
	7.1.2.3 Changing the Data Source of a Dataset	
	7.1.3 Managing Access Rights for a Dataset1	
	7.1.4 Deleting a Dataset1	JUQ

	7.1.5	Copying a Dataset	110
	7.1.6	Exporting a Dataset	113
	7.1.7	Importing a Dataset	115
		Viewing Dataset Information	
	7.1.9	Marking a Dataset as IT Approved	122
	7.1.10	0 Unmarking a Dataset as IT Approved	124
7.2	Operat	tions on Dataset	126
	7.2.1	Managing Columns in the Resultset	126
		7.2.1.1 Displaying Columns in a Dataset	126
		7.2.1.2 Hiding Columns in a Dataset	128
		7.2.1.3 Deleting Columns in a Dataset	130
		7.2.1.4 Exporting dataset metadata information	132
		7.2.1.5 Arranging Columns in a Dataset	134
	7.2.2	Refreshing Data in a Dataset	136
	7.2.3	Editing Dataset Properties	136
		7.2.3.1 Specify the First Month of the Financial Year	136
		Viewing Dataset Information	
		Highlighting Data in a Dataset	
		Identifying Unique Values	
		Clustering and Editing Data in a Dataset	
		Finding and Replacing a Value	
		Removing Data from a Dataset	
		0 Marking Data in a Dataset	
		1 Copying Data in a Dataset	
		2 Sorting Data in a Dataset	
	7.2.13	3 Transforming Data in a Dataset	
		7.2.13.1 Changing Data Type of Data in a Dataset	
	7 7 4 /	7.2.13.2 Advanced Options for Transforming Data in a Dataset	
	1.2.14	4 Adding a Column in a Dataset	
	7 7 1 5	7.2.14.1 Using Custom Options to Add a Column 5 Splitting Data in a Dataset	
	7.2.15	7.2.15.1 Splitting Data into Columns	
		7.2.15.1 Splitting Data into Columns	
	7 2 16	6 Merging Columns in a Dataset	
		7 Filtering Data in a Dataset	
	,.2.1,	7.2.17.1 Filtering Data in a Dataset Using the Advanced Option	
	7 2 18	8 Changing Display Format of Data in a Dataset	
	7.2.10	7.2.18.1 Changing Display Format of Numeric Data in a Dataset	
		7.2.18.2 Changing Display Format of Datetime Data in a Dataset	
	7.2.19	9 Editing a row in a Dataset	
		0 Viewing Statistics of Data in a Dataset	
		1 Filling Data in a Dataset	
		2 Enable or Disable Auto-Suggestions and Recommendations	
		3 Enable or Disable Record Count	
	7.2.24	4 Enable or Disable Full Data Mode	243
	7.2.25	5 Viewing the Lineage Diagram	244
	7.2.26	6 Opening the Action Editor	246
		7 Processing the Outlier Values	
	7.2.28	8 Sampling the Data	255
		7.2.28.1 Sampling—Simple Random Sampling	
		7.2.28.2 Sampling—Stratified Sampling	
	7.2.29	9 Adding the Dimension Map	261
		7.2.29.1 Editing a Dimension Map	264
		7.2.29.2 Deleting a Dimension Map	
	7.2.30	0 Adding a Dataset	267

7.2.30.1 Removing an Added Dataset	
7.2.31 Blending Data	
7.2.31.1 Blending Data—Append Operation	
7.2.31.2 Blending Data—Join Operation	
7.2.32 Aggregating Data of a Dataset	
7.2.33 Exporting a Dataset Data	
7.2.34 Publishing a Dataset	
7.2.35 Saving a Dataset	
7.2.36 Dataset Rebuild methods	
7.2.36.1 From scratch	
7.2.36.2 Incremental	294
7.2.37 Update Dependent Datasets	
8 Product and Support Information	298

1 About this document

This manual explains how to use various features of Self-Serve Data Preparation (SSDP) in Smarten Advanced Data Discovery Suite.

1.1 Scope and Organisation of Topic Areas

Chapter 1	Introducing ElegantJ BI - Smarten
Chapter 2	Introducing Self-Serve Data Preparation (SSDP)
Chapter 3	Creating a Data Source
Chapter 4	Data Source Management
Chapter 5	Creating a Dataset
Chapter 6	Working with Dataset
Chapter 7	Product and Support Information

1.2 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:

• Important notes are indicated in a different font colour as shown in the example below.

Note: These are the front-end operations that highlight records in the front-end interface and do not remove any records from the Dataset.

• References to documents are highlighted as below:

Reference: Self-Serve Data Preparation (SSDP) - Concept Manual > Shape Data > Add Column > Custom

2 Introducing ElegantJ BI - Smarten

ElegantJ BI is a full-stack Business Intelligence tool that employs the "Smarten" approach to Advanced Data Discovery. The solution comprises a comprehensive set of tools, including Self-Serve Data Preparation, Smart Visualisation, and Plug n' Play Predictive Analytics. These tools are designed to democratize advanced analytics and transform business users into citizen data scientists.

Self-Serve Data Preparation

Self-Serve Data Preparation allows business users to perform data preparation on their own without the assistance of IT staff or data analysts. Users are not restricted by complex tools or forced to wait for IT to deliver crucial data. Guided by smart suggestions and auto recommendations, business users can prepare, blend, and transform data and create analysis-ready data quickly and accurately without assistance rather than waiting for central metadata prepared by IT.

Smart Data Visualization

Intuitive Smart Data Visualization tools suggest the best options for visualizing and plotting a particular set or type of data based on the nature, dimensions, and trend of data so that business

users can easily select the appropriate method to clearly and quickly visualize data in a way that is meaningful to the task.

Plug n' Play Predictive Analysis

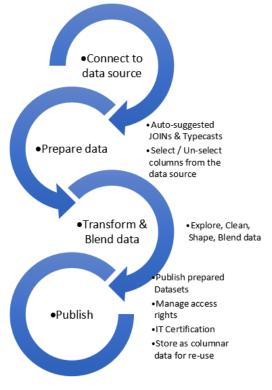
Assisted Predictive Modelling allows business users to explore predictive algorithms and models without the skill or knowledge of a data scientist or statistician. The solution considers the underlying data and use case, suggests the best-fit algorithm, and then displays output results and data visualization accompanied by an interpretation using simple human language.

3 Introducing 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.

The Smarten SSDP solution requires minimal training and gives business users the freedom to use simple, intuitive tools to perform sophisticated tasks, including data preparation utilizing machine learning, auto-detection, and auto-suggestion features. The comprehensive toolset allows users to gather, prepare, and analyze with only a basic working knowledge of Excel.

Users can process and work on raw data and convert and transform information into reusable analysis-ready data. The IT staff can certify the data quality so that all users understand the origin and veracity of the data as that data is published and shared with other users.



SELF-SERVE DATA PREPARATION—PROCESS

Here is a snapshot of the Self-Serve Data Preparation (SSDP) process:

Create Data Source profile:

The process of SSDP begins by identifying Data Source(s) and then creating a Data Source Profile. The Data Source contains the data the user wishes to extract, manipulate, and analyze. The Smarten Self-Serve Data Preparation component allows users to extract data from a variety of Data Source types, including Files, Databases, SAP[®], R Script, and Google Analytics.

Create Dataset:

The user creates a Dataset by connecting to the Data Source to fetch the desired data. During the data fetching process, the user has the opportunity to select columns for the Dataset. Users can create many Datasets from one Data Source.

Smarten supports both Cache Datasets and Real-Time Dataset architecture. When using Real-time Datasets, the latest data is extracted from the Data Sources as and when required, and all datarelated actions performed on the Dataset are performed in real time on the latest source data. For Cache Datasets, the data is not extracted in real time. Rather, it is cached and stored in a columnar data structure. Cache Datasets are updated periodically from the Data Sources with the help of a scheduler.

Process Data:

While creating a Dataset, the user can work with and explore data, and clean, shape, and blend data, employing a wide variety of functions. Users can also combine (JOIN) many Datasets with the help of auto-suggestion to identify possible JOINs and their relative value and strength. Business users can employ these tools with no required specialized skills or scripting or advanced knowledge. The intuitive interface is combined with machine learning capability and auto-detection and auto-suggest features to create analysis-ready data quickly, easily, and clearly.

Manage Data:

Users can manage Datasets, provide access rights and permissions to other users, and IT can certify data quality to help users identify quality Datasets.

Publish Data:

When a user publishes a Dataset, it is made available to other users to create Objects, such as reports, dashboards, visualization, and predictive models. During the publication process, the user can specify a Dataset as a Cache Dataset or a Real-time Dataset. When publishing a Cache Dataset, a Scheduler is created to allow for automatic update of the Dataset from Data Source(s) with a defined frequency.

The Self-Serve Data Preparation component of the Smarten solution will benefit the average organization with tools that are accessible to and suitable for a business user with average Excel skills and will provide clear, swift results that can be shared throughout the organization.

4 Creating a Data Source

You can create a data source from such sources as a database, file, Google Analytics, R Script, and SAP. You create data source profiles to extract the required data from these data sources.

Reference: Concept Manual > Data Source > Creating Data Source

4.1 Creating a Database Profile

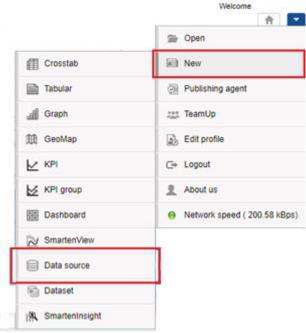
You can use a database as a data source and create a data source profile to extract the required data from the database.

About this task

Use this task to create a database data source profile.

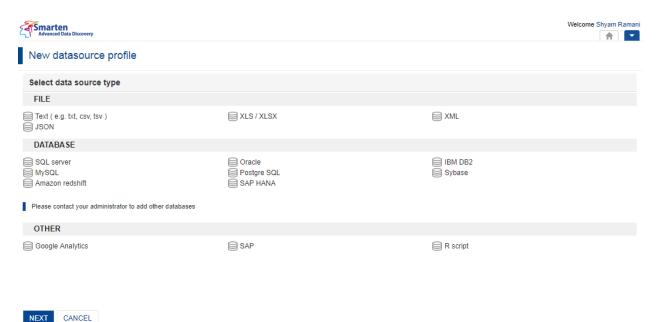
Procedure

1. Click **New** -> **Data source** from the menu.



MENU OPTION-NEW DATA SOURCE

The system displays the New datasource profile page.



THE NEW DATASOURCE PROFILE PAGE—SELECTING A DATA SOURCE TYPE

2. Select the type of database that you want to use for the data source profile, and then click **NEXT**.

The system displays the fields to provide values that will be used to create the data source profile.

Advanced Data Discovery	Welcome	
New datasource profile		
MySQL database		
Name		
Datasource - 1		- 1
Description		- 1
		- 1
		- 1
		- 1
		- 1
Host		- 1
IP address or host name (e.g. your-server.com or 192.168.0.1)		- 1
		- 1
Port		- 1
3306		- 1
Database		- 1
Database name		- 1
Username		- 1
shyamr		- 1
Password		- 1
Other connection parameters (optional)		
OK TEST CONNECTION CANCEL BACK		•
www.smatten.com	Powered by Elegant I BI Versio	n 5 0 0 00

THE NEW DATASOURCE PROFILE PAGE—CREATING MYSQL DATABASE PROFILE

- 3. Provide information in the following fields:
 - Name: Name for the data source profile.
 - **Description**: Description for the data source profile.
 - **Host**: IP address or the hostname of the machine that contains the database that you want to use in the profile.
 - **Port**: Port number that must be used to connect to the database.
 - **Database**: Name of the database that you want to use in the profile.
 - **Username**: Username that will be used to connect to the database.
 - **Password**: Password that will be used to connect to the database.
 - **Other connection parameters**: Provide any other connection parameters that are required to connect with the database.
 - **Number of threads**: Provide a value to specify the number of threads to be established with the database.
- 4. Click **TEST CONNECTION** to verify that the connection to the source is successful.
- 5. Click OK.

The system displays a confirmation message after the data source is successfully created. It also allows you to create a dataset using the data source profile.

The data source profile is now available in the repository.

4.1.1 Testing a Database Connection

Once you have provided all the values to set up a connection with a database, you can test to ensure that the connection with the database is established successfully.

Advanced Data Discovery	Welcome	ŧ	•
New datasource profile			
MySQL database			
Name			^
Datasource - 1			ı
Description			ı
			ı
			ı
			ı
			ı
Host			
IP address or host name (e.g. your-server.com or 192.168.0.1)			ı
Port			ı
3306			ı
Database			ı
Database name			ı
Username			ı
shyamr			ı
Password			8
Other connection parameters (optional)			
OK TEST CONNECTION CANCEL BACK			٠
www.smarten.com	Powered by Elecent I Ri Vere	ion 5.0.0	004

Once you have provided all the information for creating a database profile, you can click the **TEST CONNECTION** option to test the connection with the database.

4.2 Creating a File Type Profile

You can use a file as a data source and create a data source profile to extract the required data from those files.

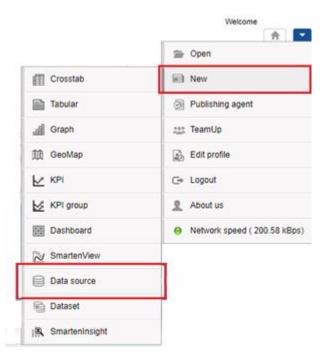
4.2.1 Creating a Text File Type Profile

About this task

Use this task to create a text data source profile. You can use .txt, .csv, .tsv, or any other file formats that contain data separated by a character.

Procedure

1. Click **New** -> **Data source** from the menu.



MENU OPTION-NEW DATA SOURCE

The system displays the New datasource profile page.

Advanced Data Discovery			Welcome Shyam Ramani
New datasource profile			
Select data source type			
FILE			
Text (e.g. txt, csv, tsv)	XLS / XLSX	₿ XML	
DATABASE			
⊜ SQL server ⊜ MySQL ⊜ Amazon redshift	⊜ Oracle ⊜ Postgre SQL ⊜ SAP HANA	EM DB2	
Please contact your administrator to add other databases			
OTHER			
Google Analytics	⊜ SAP	R script	

THE NEW DATASOURCE PROFILE PAGE—SELECTING A DATA SOURCE TYPE

2. Select **Text** from the **FILE** section, and then click **NEXT**.

The system displays the fields to provide values that will be used to create the data source profile.

NEXT CANCEL

Advanced Data Discovery			Welcome
New datasource profile			
Text - select file(s)			
Name			A
Datasource - 1			
Description			
Select file(s) from My desktop	Shared folder on server	© S3	
Upload file(s)	Drop file(s) or folde	er here	
 First row contains column names 			
Encoding			
UTF-8	Ŧ		
Column separator			
Text qualifier			
	*		-
NEXT CANCEL BACK			
www.smarten.com		Powere	d by ElegantJ BI Version 5.0.0.017

THE NEW DATASOURCE PROFILE PAGE—CREATING A TEXT FILE TYPE PROFILE

- 3. Provide information in the following fields:
 - Name: Name for the data source profile.
 - **Description**: Description for the data source profile.
 - Select file(s) from: Options to specify the location where the file or folder to be used as the data source is available. The following options are available:
 - My desktop: Click Upload file(s) to select files you want to use as a data source from your machine.
 - Shared folder on network: Click Select file(s) to open the Select folder(s) and file(s) dialog box, and select file(s) and/or folder(s) from the shared folders on the server.
 - S3: Provide the Access Key and Secret Key for your AWS S3 account credential, and then select the bucket you want to retrieve data from. Click OK to open the Select folder(s) and file(s) dialog box, and then select the file(s) and/or folder(s) from the S3 bucket.
 - **First row contains column name**: Option to specify if the first row in the file contains the name of the columns.
 - **Encoding**: Select the encoding that is applied on the file from the list.
 - **Column separator**: The system identifies the column separator used in the file and displays it in this field.
 - **Text qualifier**: The system identifies the text qualifier used in the file and displays it in this field.
 - **Column data contains multiline values**: You can select this option if there are any multiline values in a column of the file.

Note:

The system automatically detects the column separator and text qualifier used in the file. The system also detects if the first row contains the name of the columns. These fields display the values used for the column separator and text qualifier and highlight the fields once the file is successfully uploaded on the system.

4. Click NEXT.

The system displays the preview of the data available in the files.

5. Click **OK**.

The system displays a confirmation message after the data source is successfully created. It also allows you to create a dataset using the data source profile.

The data source profile is now available in the repository.

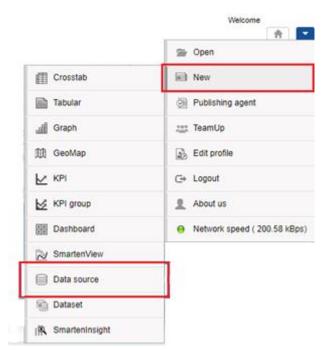
4.2.2 Creating an Excel File Type Profile

About this task

Use this task to create an Excel data source profile. Both xls and xlsx formats can be used for creating an Excel data source profile.

Procedure

1 Click **New** -> **Data source** from the menu.



MENU OPTION-NEW DATA SOURCE

The system displays the **New datasource profile** page.

Advanced Data Discovery			Welcome Shyam Ramani
New datasource profile			
Select data source type			
FILE			
Text (e.g. txt, csv, tsv)	STR / XLS/	₿ XML	
DATABASE			
SQL server MySQL Amazon redshift	Oracle Fostgre SQL SAP HANA	BIM DB2	
Please contact your administrator to add other databases			
OTHER			
Google Analytics	⊜ SAP	R script	



THE NEW DATASOURCE PROFILE PAGE—SELECTING A DATA SOURCE TYPE

2 Select XLS/XLSX from the FILE section, and then click NEXT. The system displays the fields to provide values that will be used to create the data source profile.

Advanced Data Discovery			Welcome
New datasource profile			
XLS / XLSX - select file(s)			
Name			
Datasource - 1			
Description			
Select file(s) from	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
My desktop	Shared folder on server	S3	
Upload file(s)	Drop file(s) or folder here		
First row contains column names			
NEXT CANCEL BACK			
www.smarten.com		Powered by Eleg	antJ BI Version 5.0.0.017

THE NEW DATASOURCE PROFILE PAGE—CREATING AN EXCEL FILE TYPE PROFILE

- 3 Provide information in the following fields:
 - Name: Name for the data source profile.
 - **Description**: Description for the data source profile.
 - Select file(s) from: Options to specify the location where the file or folder to be used as the data source is available. The following options are available:
 - My desktop: Click Upload file(s) to select files you want to use as a data source from your machine.
 - Shared folder on network: Click Select file(s) to open the Select folder(s) and file(s) dialog box, and select file(s) and folder(s) from the shared folders on the server.
 - S3: Provide the Access Key and Secret Key for your AWS S3 account credential, and then select the bucket you want to retrieve data from. Click OK to open the Select folder(s) and file(s) dialog box, and then select the file(s) and/or folder(s) from the S3 Bucket.
 - **First row contains column name**: Option to specify if the first row in the file contains the name of the columns.

Note:

The system automatically detects if the first row contains the name of the columns once the file is successfully uploaded on the system.

4 Click **NEXT**.

The system displays the preview of the data available in the files.

5 Click OK.

The system displays a confirmation message after the data source is successfully created. It also allows you to create a dataset using the data source profile.

The data source profile is now available in the repository.

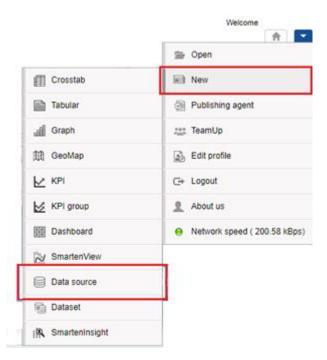
4.2.3 Creating an XML File Type Profile

About this task

Use this task to create an XML data source profile.

Procedure

1. Click **New** -> **Data source** from the menu.



MENU OPTION-NEW DATA SOURCE

The system displays the **New datasource profile** page.

Advanced Data Discovery			Welcome Shyam Ramani
New datasource profile			
Select data source type			
FILE			
☐ Text (e.g. txt, csv, tsv) ☐ JSON	⊜ XLS / XLSX	S XML	
DATABASE			
	Oracle Postgre SQL SAP HANA	EM DE2 Sybase	
Please contact your administrator to add other databases			
OTHER			
Google Analytics	SAP SAP	R script	
NEXT CANCEL			

THE NEW DATASOURCE PROFILE PAGE—SELECTING A DATA SOURCE TYPE

 Select XML from the FILE section, and then click NEXT. The system displays the fields to provide values that will be used to create the data source profile.

Advanced Data Discovery			Welcome Shyam Ramani
New datasource profile			
XML - select file(s)			
Name			
Datasource - 1			
Description			
Select file(s) from My desktop	Shared folder on server	S 3	Http(s)
Upload file(s)	Drop file	(s) or folder l	nere
Rowtag			
		Ŧ	
NEXT CANCEL BACK			
www.smarten.com			Powered by ElegantJ BI Version 5.0.0.017

THE NEW DATASOURCE PROFILE PAGE—CREATING AN XML FILE TYPE PROFILE

- 3. Provide information in the following fields:
 - Name: Name for the data source profile.
 - **Description**: Description for the data source profile.
 - Select file(s) from: Options to specify the location where the file or folder to be used as the data source is available. The following options are available:
 - My desktop: Click Upload file(s) to select files you want to use as a data source from your machine.
 - Shared folder on network: Click Select file(s) to open the Select folder(s) and file(s) dialog box, and select file(s) and folder(s) from the shared folders on the server.
 - S3: Provide the Access Key and Secret Key for your AWS S3 account credential, and then select the bucket you want to retrieve data from. Click OK to open the Select folder(s) and file(s) dialog box, and then select the file(s) and/or folder(s) from the S3 Bucket.
 - **Rowtag**: This list displays the tags that are available in the XML file. You can select a tag that you want to be considered as a row.
- 4. Click **NEXT**.

The system displays the preview of the data available in the files.

5. Click **OK**.

The system displays a confirmation message after the data source is successfully created. It also allows you to create a dataset using the data source profile.

The data source profile is now available in the repository.

4.2.4 Creating a JSON File Type Profile

About this task

Use this task to create a JSON data source profile.

Procedure

1. Click **New** -> **Data source** from the menu.

	Welcome
	Se Open
Crosstab	New New
Tabular	Publishing agent
J Graph	:::: TeamUp
册 GeoMap	Edit profile
КЫ КЫ	C+ Logout
KPI group	2 About us
Dashboard	Network speed (200.58 kBps)
SmartenView	
Data source	
Dataset	
IR SmartenInsight	

MENU OPTION-NEW DATA SOURCE

The system displays the New datasource profile page

Advanced Data Discovery			Welcome Shyam Ramani
New datasource profile			
Select data source type			
FILE			
Text (e.g. txt, csv, tsv)	₿ XLS / XLSX	₿ XML	
DATABASE			
⊜ SQL server ⊜ MySQL ⊜ Amazon redshift	Oracle Postgre SQL SAP HANA	☐ IBM DB2 ☐ Sybase	
Please contact your administrator to add other databases			
OTHER			
Google Analytics	SAP	R script	
NEXT CANCEL			

THE NEW DATASOURCE PROFILE PAGE—SELECTING A DATA SOURCE TYPE

 Select JSON from the FILE section, and then click NEXT. The system displays the fields to provide values that will be used to create the data source profile.

Advanced Data Discovery			Welcome 1	
New datasource profile				
JSON - select file(s)				
Name				
Datasource - 1				
Description				
Select file(s) from My desktop	Shared folder on server	S3	Http(s)	
Upload file(s)	Drop file(s)	or folder here		
Encoding				
UTF-8	•			
Column data contains multiline values				
NEXT CANCEL BACK				
www.smarten.com			Powered by ElegantJ BI Version	5.0.0.017

THE NEW DATASOURCE PROFILE PAGE—CREATING A JSON FILE TYPE PROFILE

- 3. Provide information in the following fields:
 - Name: Name for the data source profile.
 - **Description**: Description for the data source profile.
 - **Select file(s) from**: Options to specify the location where the file or folder to be used as the data source is available. The following options are available:
 - My desktop: Click Upload file(s) to select files you want to use as a data source from your machine.
 - Shared folder on network: Click Select file(s) to open the Select folder(s) and file(s) dialog box, and select file(s) and folder(s) from the shared folders on the server.
 - S3: Provide the Access Key and Secret Key for your AWS S3 account credential, and then select the bucket you want to retrieve data from. Click OK to open the Select folder(s) and file(s) dialog box, and then select the file(s) and/or folder(s) from the S3 Bucket.
 - Encoding: Select the encoding that is applied on the file from the list.
- 4. Click **NEXT**.

The system displays the preview of the data available in the files.

5. Click **OK**.

The system displays a confirmation message after the data source is successfully created. It also allows you to create a dataset using the data source profile.

The data source profile is now available in the repository.

4.3 Creating a Google Analytics Profile

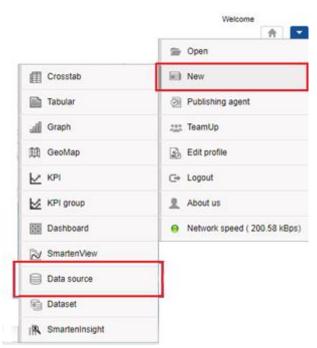
You can use data from Google Analytics associated with your digital asset, such as your website.

About this task

Use this task to create a Google Analytics data source profile.

Procedure

1. Click New -> Data source from the menu.



MENU OPTION-NEW DATA SOURCE

The system displays the New datasource profile page.

Advanced Data Discovery			Welcome Shyam Ramani
New datasource profile			
Select data source type			
FILE			
☐ Text (e.g. txt, csv, tsv) ☐ JSON	XLS / XLSX	₿ XML	
DATABASE			
SQL server MySQL Amazon redshift	 ➡ Oracle ➡ Postgre SQL ➡ SAP HANA 	BM DB2	
Please contact your administrator to add other databases			
OTHER			
Google Analytics	⊜ SAP	R script	
NEXT CANCEL			

- THE NEW DATASOURCE PROFILE PAGE—SELECTING A DATA SOURCE TYPE
- 2. Select Google Analytics from the OTHER section, and then click NEXT.

The system displays the fields to provide values that will be used to create the data source profile.

Advanced Data Discovery	Welcome
New datasource profile	
Google Analytics	
Name	
Datasource - 1	
Description	
Generate Authentication Code	
Account	
Y	
Property	
Y	
Profile	
Y	
OK CANCEL BACK	
www.smarten.com Powered by I	ElegantJ BI Version 5.0.0.004

THE NEW DATASOURCE PROFILE PAGE—CREATING A GOOGLE ANALYTICS PROFILE

- 3. Provide information in the following fields:
 - Name: Name for the data source profile.
 - **Description**: Description for the data source profile.
 - **Generate Authentication Code**: Click the button to generate an authentication code for Google Analytics. Copy the code in the field.
 - Account: Select the account you want to use to extract data.
 - **Property**: Select the website, mobile application, blog, or any other entity for which you want to extract data.
 - **Profile**: Select the Google Analytics profile you want to use for the selected property.
- 4. Click **OK**.

The system displays a confirmation message after the data source is successfully created. It also allows you to create a dataset using the data source profile.

The data source profile is now available in the repository.

4.4 Creating an R Script Profile

You can use R script as a data source to create an R cube..

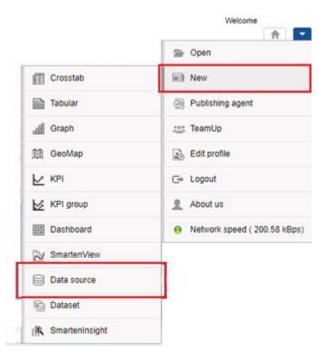
Reference: Working with R Integration

About this task

Use this task to create an R script data source profile.

Procedure

1. Click **New** -> **Data source** from the menu.





The system displays the **New datasource profile** page.

Advanced Data Discovery			Welcome Shyam Ramani
New datasource profile			
Select data source type			
FILE			
☐ Text (e.g. txt, csv, tsv) ☐ JSON	XLS / XLSX	₿ XML	
DATABASE			
⊜ SQL server ⊜ MySQL ⊜ Amazon redshift	⊜ Oracle ⊜ Postgre SQL ⊜ SAP HANA	IBM DB2	
Please contact your administrator to add other databases			
OTHER			
Google Analytics	SAP SAP	R script	
NEXT CANCEL			

THE NEW DATASOURCE PROFILE PAGE—SELECTING A DATA SOURCE TYPE

2. Select **R script** from the **OTHER** section, and then click **NEXT**.

The system displays the fields to provide values that will be used to create the data source profile.

Advanced Data Discovery	Welcome	
New datasource profile		_
✓ General		
Name		
Description		
Upload R script file Paste R script		
Upload file(s) Drop file(s) or folder here		
▶ R server configuration		
> Input variables		
Query parameters Output variables		
OK TEST CONNECTION CANCEL BACK		
OK TEST CONNECTION CANCEL DACK		

www.smarten.com Powered by ElegantJ BI Version 5.0.0.004
THE NEW DATASOURCE PROFILE PAGE—CREATING AN R SCRIPT PROFILE

- 3. Provide information in the following fields:
 - Name: Name for the data source profile.
 - **Description**: Description for the data source profile.
 - **Upload R script file**: Select this option if you want to upload a file that contains an R script. Click **Upload file(s)** to locate and upload the file from your machine.
 - Paste R script: Select this option to paste an R script in the field.
- 4. Click **R server configuration**.
 - a. Provide hostname and port number of the R server on which the R script has to be executed.
- 5. Click Input variables.
 - a. Provide details about the Input variable used in the R script in the Variable name (R script) and Display name fields, and select its type from the Input type list. The following options are available:
 - i. **Single value**: Select this option to allow users to manually enter data to be used as input for the R script variable.
 - ii. **Single column**: Select this option to allow users to map only one column of the data source with an Input variable of R script. The data available in the selected column is used as input for the R script variable.

- iii. Multi columns: Select this option to allow users to map more than one column of the data source with an Input variable of R script. The data available in all the selected columns are used as input for the R script variable.
- b. You can click the Add icon to add details for multiple input variables.
- 6. Click Query parameters.
 - Provide details about the Input variable used in the R script in the Variable name (R script) and Display name fields, and select its type from the Input type list.
 - b. You can click the Add icon to add details for multiple query parameters.
- 7. Click Output variables.
 - a. Provide details about the Input variable used in the R script in the Variable name (R script) and Display name fields, and select its type from the Input type list.
 - b. You can click the Add icon to add details for multiple output variables.
- 8. Click **OK**.

The system displays a confirmation message after the data source is successfully created. It also allows you to create a dataset using the data source profile.

The data source profile is now available in the repository.

4.4.1 Testing an R Integration Connection

Once you have provided all the values to set up a connection with an R integration, you can test to ensure that the connection with the R integration is established successfully.

Advanced Data Discovery	W	felcome :
New datasource profile		
- General		
Name		
Description		
Upload R script file O Paste R script		le
Upload file(s)		
Option (Re(s)	Drop file(s) or folder here	
R server configuration		
Input variables		
Query parameters Output variables		
OK TEST CONNECTION CANCEL BACK		
www.smarten.com	Prevent by Elenant	I BI Version 5.0.0.004

Once you have provided all the information for creating an R script profile, you can click the **TEST CONNECTION** option to test the connection with the R server.

4.5 Creating an SAP Profile

You can use an SAP profile to connect to SAP and retrieve data through BAPIs on the SAP server.

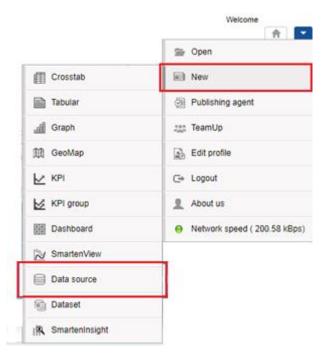
Reference: Integration with SAP

About this task

Use this task to create an SAP data source profile.

Procedure

1. Click **New** -> **Data source** from the menu.





The system displays the **New datasource profile** page.

Advanced Data Discovery			Welcome Shyam Ramani
New datasource profile			
Select data source type			
FILE			
☐ Text (e.g. txt, csv, tsv) ☐ JSON	₿ XLS / XLSX	₿ XML	
DATABASE			
 ➡ SQL server ➡ MySQL ➡ Amazon redshift 	Cracle Postgre SQL SAP HANA	IBM DB2	
Please contact your administrator to add other databases			
OTHER			
Google Analytics	SAP	R script	
NEXT CANCEL			
I HE NEW	/ DATASOURCE PROFILE PAGE—SELECTING A D	ATA SOURCE TYPE	

Select SAP from the OTHER section, and then click NEXT.
 The system displays the fields to provide values that will be used to create the data source profile.

Advanced Data Discovery	Welcome
New datasource profile	
SAP	
Name	A
Datasource - 1	
Description	
Host	
IP address or host name (e.g. your-server.com or 192.168.0.1)	
Router	
SAP router	
System number	
0	
SAP client	
SAP Client (e.g. 500)	
Username	
shyamr	
Password	
OK TEST CONNECTION CANCEL BACK	· ·
www.smarten.com	Powered by ElegantJ BI Version 5.0.0.004

THE NEW DATASOURCE PROFILE PAGE—CREATING AN SAP PROFILE

- 3. Provide information in the following fields:
 - Name: Name for the data source profile.
 - **Description**: Description for the data source profile.
 - Host: Provide the hostname or IP address of the SAP system.
 - **Router**: Provide details of the SAP router.
 - System number: Provide details of the SAP system number.
 - **SAP client**: Provide details of the SAP client.
 - Username: Provide the username that will be used to connect to the SAP system.
 - **Password**: Provide the password that will be used to connect to the SAP system.
- 4. Click OK.

The system displays a confirmation message after the data source is successfully created. It also allows you to create a dataset using the data source profile.

The data source profile is now available in the repository.

4.5.1 Testing a SAP Connection

Once you have provided all the values to set up a connection with the SAP, you can test to ensure that the connection with the SAP system is established successfully.

Smarten Advanced Data Discovery	Welcome	-
New datasource profile		
SAP		
Name		^
Datasource - 1		
Description		
Host		
IP address or host name (e.g. your-server.com or 192.168.0.1)		
Router		
SAP router		
System number		
0		
SAP client		
SAP Client (e.g. 500)		
Username		
shyamr		
Password		
OK TEST CONNECTION CANCEL BACK		*
www.smarten.com	Powered by ElegantJ BI Version 5.0.	0.004

Once you have provided all the information for creating an SAP profile, you can click the **TEST CONNECTION** option to test the connection with the SAP system.

5 Data Source Management

Managing a data source involves providing access rights, editing, deleting, copying, and getting a data source IT certified.

5.1 Editing a Data Source

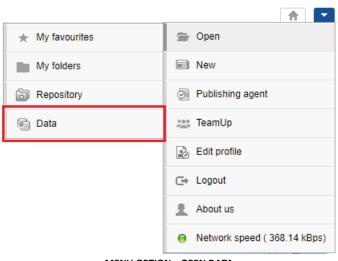
This feature enables authorized users to edit a data source. Users can change the name, description, and other attributes based on the type of data source.

About this task

Use this task to edit a data source.

Procedure

1. Click **Open** -> **Data** from the menu.



MENU OPTION—OPEN DATA

The system displays the following page.

Sma	nced Data Discov	rery			v	Velcome Shyar	
Data	isets						
Datasets	S	0	<u>*</u>	Search	Q Page 1 of 7 1 -	Name	•
			NAME	CREATED	UPDATED		
Data sources		1	Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	ų.	
Cubes			Age-Purchase Relationship-PearsonCorrelation-Dataset	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	1	
Cubes			Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	1	
		뺑	Cadila Product master	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	1	
			Credit card Dataset	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	,	
		뼺	CustomerPaymentDetails_old	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	1	
		n ji ji	Database_From_Database_Query_O	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	1	
		ι¥.	Dataset_From_Database	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	45	
		1	Dataset_From_Dataser ★★★★	Shyam Ramani October 11, 2018 14:10:44	Shyam Ramani October 11, 2018 14:10:44	ų.	
		134	Dataset_From_RScript	Shyam Ramani October 20, 2018 13:13:27	Shyam Ramani October 20, 2018 13:13:27	45	

ACCESS A DATA SOURCE—DISPLAYING DATA SOURCES

- 2. Click Data sources.
- 3. Select the check box adjacent to the data source you want to edit.
- 4. Click the Edit icon.

The system displays the **Edit datasource** page.

Smar	ten ed Data Disco	very				Welcome Shyam Ram
Data	source	S				
Datasets	S			Search	Q Page 1 of 5 1 -	Name 🔺
		NAME	DATA SOURCE TYPE	CREATED	UPDATED	
Data sources		AdventureWorks_Datasource	Database / SQL server	admin October 11, 2018 20:23:00	Shyam Ramani January 30, 2019 18:40:40	ø
Cubes		Age-Passthrough-ease-SpearmanCorrelation-DataSource ★★★★★	File / Text	jalpa April 03, 2018 12:17:24	jalpa April 03, 2018 12:17:52	ø
00000		Age-Purchase Relationship-PearsonCorrelation-DataSource ★★★★	File / Text	jalpa April 03, 2018 12:13:28	jalpa April 03, 2018 12:13:28	ø
		Classification datasource	File / Text	jalpa November 05, 2018 13:40:18	jalpa November 05, 2018 14:12:18	

EDITING A DATA SOURCE—THE EDIT ICON

5. You can provide a new name and description for the data source in the **Name** and **Description** boxes.

Advanced Data Discovery	Welcome Shyam Ramani
Edit datasource profile - AdventureWorks_Datasource	
This is description of the datasource.	
Name	
AdventureWorks_Datasource	
Description	
This is description of the datasource.	
Host	
ejbitest.cr4bww4ayzk6.ap-south-1.rds.amazonaws.com	
Port	
1433	
Database	
AdventureWorks	
Username	
root	
Password	

EDITING A DATA SOURCE—EDITING NAME AND DESCRIPTION

6. You can edit the remainder of the fields as per your requirement and then click **OK**.

Note:

The fields available are based on the type of the data source.

5.2 Deleting a Data Source

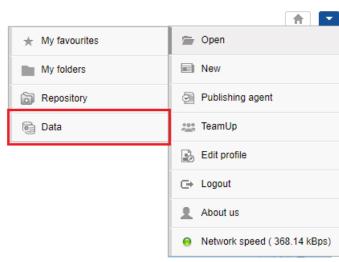
This feature enables authorized users to delete a data source. A deleted data source is no longer available in the system.

About this task

Use this task to delete a data source.

Procedure

1. Click **Open** -> **Data** from the menu.



MENU OPTION-OPEN DATA

The system displays the following page.

Sma	rten Inced Data Discover	у				Welcome Shya	am Rama
Data	sets						
Datasets		0	<u>*</u>	Search	Q Page 1 of 7 1 -	Name	•
			NAME	CREATED	UPDATED		
Data sources			Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	ця. П	••••
Cubes		삥	Age-Purchase Relationship-PearsonCorrelation-Dataset	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Suboo			Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	ця. П	
		삥	Cadila Product master	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	48	••••
			Credit card Dataset	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	ц я	••••
		쀙	CustomerPaymentDetails_old	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	ц я	
		4	Database_From_Database_Query_O ★ ★ ★ ★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	9	
		1	Dataset_From_Database ★ ★ ★ ★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	9	
		3	Dataset_From_Dataser ★ ★ ★ ★	Shyam Ramani October 11, 2018 14:10:44	Shyam Ramani October 11, 2018 14:10:44	9	
		150	Dataset_From_RScript	Shyam Ramani October 20, 2018 13:13:27	Shyam Ramani October 20, 2018 13:13:27	1	••••

ACCESS A DATA SOURCE—DISPLAYING DATA SOURCES

- 2. Click Data sources.
- 3. Select the check box adjacent to the data source you want to delete.

4. Click the Delete icon.

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

Smar		very				Welcome Shyam Ra
Data	source	95				
Datasets	G			Search	Q Page 1 of 5 1 -	Name 🔺
0		NAME	DATA SOURCE TYPE	CREATED	UPDATED	
Data	\checkmark	AdventureWorks_Datasource	Database / SQL server	admin October 11, 2018 20:23:00	Shyam Ramani January 30, 2019 18:40:40	ø
Cubes		Age-Passthrough-ease-SpearmanCorrelation-DataSource	File / Text	jalpa April 03, 2018 12:17:24	jalpa April 03, 2018 12:17:52	"
		Age-Purchase Relationship-PearsonCorrelation-DataSource ★★★★	File / Text	jalpa April 03, 2018 12:13:28	jalpa April 03, 2018 12:13:28	ø
		Classification datasource ★★★★★	File / Text	jalpa November 05, 2018 13:40:18	jalpa November 05, 2018 14:12:18	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

DELETING A DATA SOURCE-CLICKING THE DELETE ICON

5. Click **YES** to delete the selected data source.

Smal	rten Inced Data Disco	wery	💼 Delete				Welcome Sh	hyam Ram:
	source C	es • 🖉 🛃 🕼 🗸 Ø		o delete selected dataso ataset(s), cube(s) and ob		Q Page 1 of 5 1 -	Name	•
Datasets		NAME	YES NO			UPDATED		
Data sources		AdventureWorks_Datasource ★★★★		Database / SQL server	admin October 11, 2018 20:23:00	Shyam Ramani January 30, 2019 18:40:40	1 9	•••
Cubes		Age-Passthrough-ease-SpearmanCorrelation-Da ★★★★	taSource	File / Text	jalpa April 03, 2018 12:17:24	jalpa April 03, 2018 12:17:52	1	•••
Cubes		Age-Purchase Relationship-PearsonCorrelation-I	DataSource	File / Text	jalpa April 03, 2018 12:13:28	jalpa April 03, 2018 12:13:28	1	
		Classification datasource ★★★★		File / Text	jalpa November 05, 2018 13:40:18	jalpa November 05, 2018 14:12:18	1	•••

DELETING A DATA SOURCE—PROVIDING CONFIRMATION TO DELETE THE DATA SOURCE

If there are datasets, cubes, and objects associated with the data source, the system displays the option asking if you want to delete the associated datasets, cubes, and objects along with the data source. You can select the option if you want to delete the datasets, cubes, and objects.

Advance	ten ted Data Disco	vvery	📋 Delete				Welcome SI	hyam Ram
Data	source	95	Are you sure you want	to delete selected dataso	urce(s)?			
Datasets	S	• • • •	Delete associated d	lataset(s), cube(s) and ob	ject(s)	Q, Page 1 of 5 1 -	Name	•
		NAME	YES NO			UPDATED		
Data sources		AdventureWorks_Datasource		Database / SQL server	admin October 11, 2018 20:23:00	Shyam Ramani January 30, 2019 18:40:40	49	••••
Cubes		Age-Passthrough-ease-SpearmanCorrelation-Dat ***	taSource	File / Text	jalpa April 03, 2018 12:17:24	jalpa April 03, 2018 12:17:52	45	
Cubes		Age-Purchase Relationship-PearsonCorrelation-D	DataSource	File / Text	jalpa April 03, 2018 12:13:28	jalpa April 03, 2018 12:13:28	45	
		Classification datasource		File / Text	jalpa November 05, 2018 13:40:18	jalpa November 05, 2018 14:12:18	1	



5.3 Managing Access Rights for a Data Source

Access permission is about granting or restricting access to a data source. Permissions are provided to view, edit, or delete a data source. For example, team members of a sales team have all the rights to perform all actions on the sales-related data sources, whereas only view rights is assigned to members of other teams. Similarly, you can have a data source for a marketing team. Members of the marketing team have all the rights assigned to them, whereas members of the other team have only view rights assigned to them. Access permissions can be given as per Roles or to individual users of Smarten by the user who created the data source or by the Administrator. The access rights provided by the last user whether creator or Administrator are applicable. The following table describes the rights that can be assigned to a user:

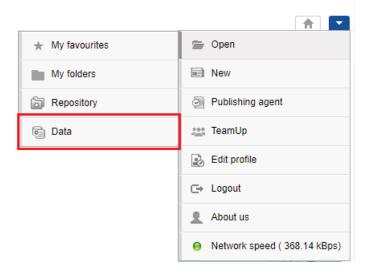
Right	Description
View	This access right grants permission to a user to view and access a data source.
Write	This access right grants permission to a user to edit a data source.
Delete	This access right grants permission to a user to delete a data source.
Export	This access right grants permission to a user to export a data source.

About this task

Use this task to manage access rights for a data source.

Procedure

1. Click **Open** ->**Data** from the menu.



MENU OPTION-OPEN DATA

The system displays the following page.

₹ Sma	rten nord Data Discover	,				Welcome Shya	
Data	sets						
Datasets	0	0	£	Search	Q, Page 1 of 7 1 +	Name	•
			NAME	CREATED	UPDATED		
Data sources		몡	Age-Passthrough-ease-SpearmanCorrelation-Dataset ★ ★ ★ ★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25		
Gubes		몡	Age-Purchase Relationship-PearsonCorrelation-Dataset \pm \pm \pm \pm	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53		•••
Cubes		몡	Credit card Dataset ★ ★ ★ ★ ★	jalpa July 26, 2018 19:42:01	jaipa July 26, 2018 19:42:32	1	
		몡	CustomerPaymentDetails_old ★ ★ ★ ★	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	1	
		99	Database_From_Database_Query_O ★★★★★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	1	
		99	Dataset_From_Database ★ ★ ★ ★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	1	
		99	Dataset_From_Dataser ★★★★	Shyam Ramani October 11, 2018 14:10:44	Shyam Ramani October 11, 2018 14:10:44	1	
		44	Dataset_From_RScript 会会会会	Shyam Ramani October 20, 2018 13:13:27	Shyam Ramani October 20, 2018 13:13:27		

ACCESS A DATA SOURCE—DISPLAYING DATA SOURCES

- 2. Click Data sources.
- 3. Select the check box adjacent to the data source for which you want to manage access rights.
- 4. Click the Permissions icon.

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

	ten ed Data Discov					Welcome Shyam Ramani
_	source	s O 2 13 🖡 🗸 Ø 🗎 🛃 🗗		Search	Q Page 2 of 5 2 🗸	Name 🔺
Datasets			DATA SOURCE TYPE	CREATED	UPDATED	name –
Data sources		GA conversions datasource	File / Text	jalpa November 15, 2018 09:55:24	jalpa November 15, 2018 09:55:24	æ
Cubes		GA conversions datasource1	File / Text	jalpa November 15, 2018 10:12:33	jalpa November 15, 2018 10:12:33	<i></i>
Cabes		GA_Datasource_6-8-2018 ★★★★	Other / Google Analytics	Kartik Patel August 06, 2018 11:55:02	Kartik Patel August 06, 2018 11:55:02	,
		Gas pipeline datasource ★★★★	File / Text	jalpa November 22, 2018 10:19:31	jalpa November 22, 2018 10:19:31	

MANAGING ACCESS RIGHTS—CLICKING PERMISSIONS ICON

5. Click the **Roles** tab to assign access rights to various roles.

Sm	arten Janced Data Di	iscovery	🔋 Permissions							Icome adn
Data	a sourc	ces	• Permissions Roles Users					f 87 1 🗸	Name	•
		NAME			Sear	rch	Q	ED		
Data sources	s 🗹	2010-10-10-222-pra	ROLES	VIEW	WRITE	DELETE	EXPORT	019 16:28:54	1	
		2019-07-02-dataso	Demotes					harma 019 16:09:57	ų.	
Cubes		2019-07-04-pradip	DemoApp	~	V			019 13:16:53	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		2019-07-08_weath						019 19:37:25	1	
		2019-07-09-test2-w						019 12:18:08	ų.	••••
		2019-07-25-SQL-pr						019 12:30:13	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	••••
		2019-07-pradip-we	Apply permissions to other datasources					• 019 17:05:12	1	••••
		2019-07-pradip2-w	Apply permissions to other datasources OK CANCEL					019 18:10:54	1 9	••••
		2010 00 06 woother								

ASSIGN PERMISSIONS—ACCESS PERMISSIONS FOR ROLES

- Select the check box under the VIEW, WRITE, DELETE, and EXPORT permissions columns to assign that access to a role. For example, in the image above, you can select the VIEW, WRITE, DELETE, and EXPORT boxes for DemoApp role to allow users with DemoApp role to view, modify, delete, or export the data source.
- 7. Click the **Users** tab to assign access rights to different users or group of users.

Sma	rten nced Data Di	scovery	🔒 Permissions							Welcom
Data	sour	ces	 Permissions 							
atasets	G	0 2 6	Roles Users	5					f 87 🚺 👻	Name 🔺
3		NAME	All groups	✓ All ✓		Sear	rch	Q	ED	
ata ources	\checkmark	2010-10-10-222-pra	USERNAME	PERSON NAME	VIEW	WRITE	DELETE	EXPORT	2019 16:28:54	"
9		2019-07-02-dataso							iharma	
lbes		****	sanjayp	Sanjay Patel					019 16:09:57	
		2019-07-04-pradip	kartik	Kartik Patel	\checkmark	\checkmark	\checkmark		019 13:16:53	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		2019-07-08_weath	Janvi	janvi						, .
			Nisarg	nisarg					019 19:37:25	
		2019-07-09-test2-w	pradip	Pradip Sharma					019 12:18:08	, .
		2019-07-25-SQL-p	pathik	Pathik Shah					019 12:30:13	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		2019-07-pradip-wei	rushabh	Rushabh Shelat						_
		****	Apply permiss	ions to other datasources				•	019 17:05:12	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		2019-07-pradip2-w	OK CANCEL						019 18:10:54	<i></i>
		2010 09 06 woatha				Usor				

ASSIGN PERMISSIONS—ACCESS PERMISSIONS FOR USERS

 Select the check box under the VIEW, WRITE, DELETE, and EXPORT permissions columns to assign that access to a role. For example, in the image above, you can select the VIEW, WRITE, DELETE, and EXPORT boxes to allow "kartik" to view, modify, delete, or export the data source.

9. Click Apply permissions to other datasourcesoption to grant the same permissions to other datasources which you have selected for roles and users in the previous step. This option allows you to grant the same set of permissions you have granted to a role to other data sources instead of granting the same set of permissions to the role for each data source separately. For example, if you have grated view and export permissions to Role 1 and want to grant the same permissions for Datasource1, Datasource2, and Datasource3. You can use the Apply permissions to other datasource2, and Datasource3.

Apply permissions to othe	er datasouro	ces	
vailable datasources		Selected datasources	
		0	(
TEsting_new_set	+		
SQL_DS	+		
SQL-Test	+		
SQL-TEst-160319	+		

DATA SOURCE PERMISSION: APPLY PERMISSIONS TO OTHER DATA SOURCE

- 10. Click the plus sign adjacent to the data sources for which you want to grant the permissions you have granted to the roles in the earlier step.
- 11. Click **OK** togrant the permissions you have selected for roles and users.

5.4 Copying a Data Source

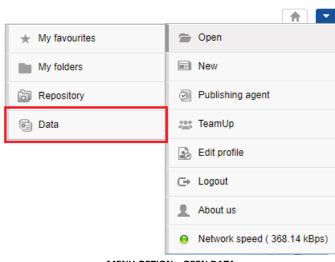
This feature enables authorized users to create a copy of the data source.

About this task

Use this task to copy a data source.

Procedure

1. Click **Open** -> **Data** from the menu.



MENU OPTION-OPEN DATA

The system displays the following page.

Sma	nced Data Disco	wery			N	elcome Shya	
Data	sets						
Datasets	S	NAME Age-Passthrough-ease-SpearmanCorrelation-Dataset ***** Age-Purchase Relationship-PearsonCorrelation-Dataset ***** Cadila Product Data Set	Search	Q Page 1 of 7 1 -	Name	•	
			NAME	CREATED	UPDATED		
Data sources		1991		jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	4	••••
Cubes		몡		jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	1	•••
Cubes		몡	Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	1	••••
		1991	Cadila Product master	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	1	
		19	Credit card Dataset	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	49	
		1991	CustomerPaymentDetails_old	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	1	•••
		喊	Database_From_Database_Query_O ★ ★ ★ ★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	4	•••
		14	Dataset_From_Database ★★★★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	49	•••
		蚓	Dataset_From_Dataser ★★★★	Shyam Ramani October 11, 2018 14:10:44	Shyam Ramani October 11, 2018 14:10:44	P	•••
		ŝ	Dataset_From_RScript ★★★★★	Shyam Ramani October 20, 2018 13:13:27	Shyam Ramani October 20, 2018 13:13:27	1	

ACCESS A DATA SOURCE-DISPLAYING DATA SOURCES

- 2. Click Data sources.
- 3. Select the check box adjacent to the data source you want to copy.

4. Click the Copy icon.

The system displays the Copy datasource dialog box.

Smai	rten Inced Data Disco	wery				Welcome Shyam Ran
Data	source	es				
Datasets	G			Search	Q Page 1 of 5 1 👻	Name 🔺
		NAME D		CREATED	UPDATED	
Data sources		AdventureWorks_Datasource ★★★★	Database / SQL server	admin October 11, 2018 20:23:00	Shyam Ramani January 30, 2019 18:40:40	1
Cubes		Age-Passthrough-ease-SpearmanCorrelation-DataSource ★★★★	File / Text	jalpa April 03, 2018 12:17:24	jalpa April 03, 2018 12:17:52	м
54555		Age-Purchase Relationship-PearsonCorrelation-DataSource ★★★★	File / Text	jalpa April 03, 2018 12:13:28	jalpa April 03, 2018 12:13:28	ф я
		Classification datasource 含含含含含	File / Text	jalpa November 05, 2018 13:40:18	jalpa November 05, 2018 14:12:18	<i></i>

COPYING A DATA SOURCE-CLICKING THE COPY ICON

5. Specify a name and description for the new data source to be created using the data source you copied in the previous step.

Smal	ced Data Disco	svery	🕒 Copy datasource	e				Welcome S	hyam Ram
Data	source	es	Name						
	G	• • • • •	Copy_AdventureWork	s_Datasource]		Q Page 1 of 5 1 👻	Name	•
Datasets		NAME	Copied Form Datasou	rce : AdventureWorks	Datasource		UPDATED		
Data sources		AdventureWorks_Datasource				1:23:00	Shyam Ramani January 30, 2019 18:40:40	1 9	
Cubes		Age-Passthrough-ease-SpearmanCorrelation-Dat ★★★★	OK CANCEL		li	:24	jalpa April 03, 2018 12:17:52	1	••••
Cubes		Age-Purchase Relationship-PearsonCorrelation-E ★★★★		File / Text	April 03, 2018 12:1	3:28	jalpa April 03, 2018 12:13:28	1	•••
		Classification datasource ★★★★★		File / Text	jalpa November 05, 2018	8 13:40:18	jalpa November 05, 2018 14:12:18	1	•••

COPYING A DATA SOURCE-PROVIDING A NEW NAME AND DESCRIPTION

6. Click **OK**.

5.5 Exporting a Data Source

You can export a data source definition in XML format. The exported XML file can be imported in the same or another instance of Smarten. Data source export does not include data source permissions and data.

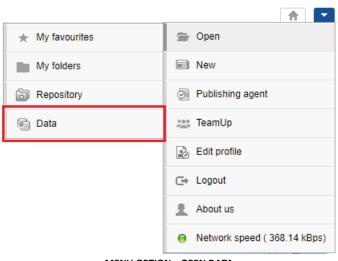
You can use the data source export feature to make a backup of the data source, and you can restore a data source by importing the XML file of that data source.

About this task

Use this task to export a data source.

Procedure

1. Click **Open** -> **Data** from the menu.



MENU OPTION—OPEN DATA

The system displays the following page.

Sma Advar	rten nced Data Disco	overy			V	Velcome Shyar	
Data	sets						
Datasets	S	0	⊥	Search	Q Page 1 of 7 1 -	Name	•
			NAME	CREATED	UPDATED		
Data sources		몡	Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	1 11	••••
Cubes		몡	Age-Purchase Relationship-PearsonCorrelation-Dataset	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	1	•••
cubes		삥	Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	4	•••
		-egi	Cadila Product master	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	•	
		몡	Credit card Dataset	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	1	••••
		몡	CustomerPaymentDetails_old	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	1 1	
		Ň	Database_From_Database_Query_O	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	4 9	•••
		Ŵ	Dataset_From_Database ★★★★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	1 11	
		Ň	Dataset_From_Dataser ★★★★	Shyam Ramani October 11, 2018 14:10:44	Shyam Ramani October 11, 2018 14:10:44	1	•••
		150	Dataset_From_RScript	Shyam Ramani October 20, 2018 13:13:27	Shyam Ramani October 20, 2018 13:13:27	1	

ACCESS A DATA SOURCE-DISPLAYING DATA SOURCES

- 2. Click Data sources.
- 3. Select the check box adjacent to the data source you want to export.
- 4. Click the Export icon.

The system downloads the data source in .xml format.

Smar	r ten ced Data Disco	very				Welcome Shyam Ramani
Data	source	es				
Datasets	G	O Z B B / Ø î Ł Þ		Search	Q Page 1 of 5 1 -	Name 🔺
		NAME	DATA SOURCE TYPE	CREATED	UPDATED	
Data sources		AdventureWorks_Datasource	Database / SQL server	admin October 11, 2018 20:23:00	Shyam Ramani January 30, 2019 18:40:40	e
Cubes		Age-Passthrough-ease-SpearmanCorrelation-DataSource ★★★★	File / Text	jalpa April 03, 2018 12:17:24	j alpa April 03, 2018 12:17:52	ця
Cubia		Age-Purchase Relationship-PearsonCorrelation-DataSource ★★★★	File / Text	jalpa April 03, 2018 12:13:28	jalpa April 03, 2018 12:13:28	ф я
		Classification datasource	File / Text	jalpa November 05, 2018 13:40:18	jalpa November 05, 2018 14:12:18	ц я

EXPORTING A DATA SOURCE—CLICKING THE EXPORT ICON

5.6 Importing a Data Source

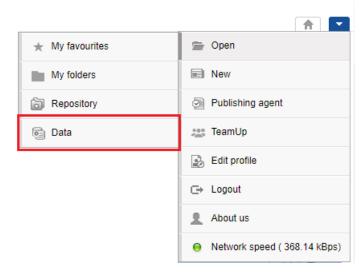
You can import an exported data source in XML format from the same instance or another instance of Smarten.

About this task

Use this task to import a data source.

Procedure

1. Click **Open** -> **Data** from the menu.



MENU OPTION—OPEN DATA

The system displays the following page.

Smar	ten ed Data Discover	у				Welcome Shy	am Rama
Datas	sets						
Datasets	G	0	¥.	Search	Q Page 1 of 7 1 👻	Name) 🔺
			NAME	CREATED	UPDATED		
Data			Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	1	••••
abes		삥	Age-Purchase Relationship-PearsonCorrelation-Dataset	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	P	
Jubeo		몡	Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31		
			Cadila Product master	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	1	
		뼿	Credit card Dataset	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	1	
		쀙	CustomerPaymentDetails_old	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	1	
		14	Database_From_Database_Query_O ★ ★ ★ ★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	1	
		14	Dataset_From_Database ★★★★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	1	
		134	Dataset_From_Dataser	Shyam Ramani October 11, 2018 14:10:44	Shyam Ramani October 11, 2018 14:10:44	1	
		150	Dataset_From_RScript	Shyam Ramani October 20, 2018 13:13:27	Shyam Ramani October 20, 2018 13:13:27	ця. П	

ACCESS A DATA SOURCE-DISPLAYING DATA SOURCES

- 2. Click Data sources.
- 3. Click the Import icon.

The system displays the Import Datasource dialog box.

Smar	rten ced Data Disco	very				Welcome Shyam Ramani
Data	source	95				
Datasets	G			Search	Q Page 1 of 5 1 -	Name 🔺
0		NAME	DATA SOURCE TYPE	CREATED	UPDATED	
Data sources		AdventureWorks_Datasource ★★★★	Database / SQL server	admin October 11, 2018 20:23:00	Shyam Ramani January 30, 2019 18:40:40	ы н
Cubes		Age-Passthrough-ease-SpearmanCorrelation-DataSource	File / Text	jalpa April 03, 2018 12:17:24	jalpa April 03, 2018 12:17:52	ц я
Cubba		Age-Purchase Relationship-PearsonCorrelation-DataSource ★★★★	File / Text	jalpa April 03, 2018 12:13:28	jalpa April 03, 2018 12:13:28	ф я
		Classification datasource	File / Text	jalpa November 05, 2018 13:40:18	jalpa November 05, 2018 14:12:18	ц я

IMPORTING A DATA SOURCE-CLICKING THE IMPORT ICON

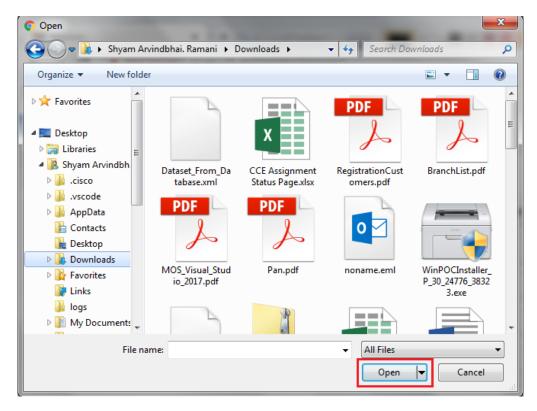
4. Click the **BROWSE** button.

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

Smar	ten ed Data Disco	wery	Import Datasource				Welcome Sh	hyam Rai
Data	source	es	Select file		22201125			
Datasets	S	• •	Choose File Overwrite		BROWSE	Q Page 1 of 5 1 →	Name	•
		NAME	OK CANCEL			UPDATED		
Data sources		AdventureWorks_Datasource		Database / SQL server	aomin October 11, 2018 20:23:00	Shyam Ramani January 30, 2019 18:40:40	49	
Cubes		Age-Passthrough-ease-Spearm	anCorrelation-DataSource	File / Text	jalpa April 03, 2018 12:17:24	jalpa April 03, 2018 12:17:52	48	•••
Cubes		Age-Purchase Relationship-Pea ★★★★★	irsonCorrelation-DataSource	File / Text	jalpa April 03, 2018 12:13:28	jalpa April 03, 2018 12:13:28	4 8	••••
		Classification datasource		File / Text	jalpa November 05, 2018 13:40:18	jalpa November 05, 2018 14:12:18	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

IMPORTING A DATA SOURCE-OPENING THE OPEN DIALOG BOX

5. Select the XML file for the data source that has been exported, and then click **Open**.



IMPORTING A DATA SOURCE—THE OPEN DIALOG BOX

6. If a data source with the same name as the imported data source exists in the system, you can select the **Overwrite** check box to allow the system to overwrite the data source in the system with the imported data source.

Advan	rten Inced Data Disco	overy	Import Datasource				Welcome SI	hyam Ram:
Data	source	es	Select file					
Datasets	G		Choose File Overwrite		BROWSE	Q Page 1 of 5 1 -	Name	•
		NAME	OK CANCEL			UPDATED		
Data sources		AdventureWorks_Datasource		Database / SQL server	aomin October 11, 2018 20:23:00	Shyam Ramani January 30, 2019 18:40:40	1 9	•••
Cubes		Age-Passthrough-ease-Spearma	anCorrelation-DataSource	File / Text	jalpa April 03, 2018 12:17:24	jalpa April 03, 2018 12:17:52	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•••
Cubes		Age-Purchase Relationship-Pea ★★★★	rsonCorrelation-DataSource	File / Text	jalpa April 03, 2018 12:13:28	jalpa April 03, 2018 12:13:28	,	•••
		Classification datasource		File / Text	jalpa November 05, 2018 13:40:18	jalpa November 05, 2018 14:12:18	,	•••

IMPORTING A DATA SOURCE—SELECTING THE OVERWRITE OPTION

If the **Overwrite** option is not selected, the system retains the existing data source and adds the imported data source with a new name. The new name of the data source is appended with a numeric value in increasing order. For example, if you import ABC data source and a data source with the same name already exists, the system will rename the imported data source as ABC_1. Similarly, if a data source named ABC_1 already exists, the system will rename the imported data source as ABC_2.

7. Click OK.

5.7 Marking a Data Source as IT Approved

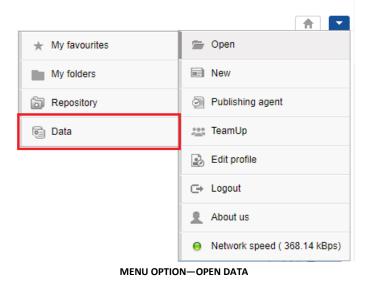
This feature enables IT staff to approve a data source. Marking a data source as IT approved certifies it for data quality and helps users in identifying quality data sources.

About this task

Use this task to mark a data source as IT approved.

Procedure

1. Click **Open** -> **Data** from the menu.



The system displays the following page.

Sma	rten nced Data Discov	very				Welcome Shyam Ram
Data	sets					
Datasets	S	0	Ŧ	Search	Q Page 1 of 7 1 -	Name 🔺
			NAME	CREATED	UPDATED	
Data sources		뻉	Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	,
Cubes		몡	Age-Purchase Relationship-PearsonCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Cubes			Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		喇	Cadila Product master	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		-1991	Credit card Dataset	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		·())	CustomerPaymentDetails_old	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		1	Database_From_Database_Query_O ★ ★ ★ ★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		1954	Dataset_From_Database ★ ★ ★ ★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	
		14	Dataset_From_Dataser ★★★★	Shyam Ramani October 11, 2018 14:10:44	Shyam Ramani October 11, 2018 14:10:44	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		1954)	Dataset_From_RScript	Shyam Ramani October 20, 2018 13:13:27	Shyam Ramani October 20, 2018 13:13:27	<i></i>

ACCESS A DATA SOURCE—DISPLAYING DATA SOURCES

- 2. Click Data sources.
- 3. Select the check box adjacent to the data source you want to mark as IT approved.
- 4. Click the Mark IT Approved icon.

Smar	ten ed Data Disco	svery				Welcome Shyam Rama
Data	source	es				
Datasets	G			Search	Q Page 1 of 5 1 -	Name 🔺
		NAME	DATA SOURCE TYPE	CREATED	UPDATED	
Data sources		AdventureWorks_Datasource ★★★★★	Database / SQL server	admin October 11, 2018 20:23:00	Shyam Ramani January 30, 2019 18:40:40	
Cubes		Age-Passthrough-ease-SpearmanCorrelation-DataSource ★★★★	File / Text	jalpa April 03, 2018 12:17:24	jalpa April 03, 2018 12:17:52	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Cubes		Age-Purchase Relationship-PearsonCorrelation-DataSource ★★★★	File / Text	jalpa April 03, 2018 12:13:28	jalpa April 03, 2018 12:13:28	<u>به</u>
		Classification datasource ★★★★★	File / Text	jalpa November 05, 2018 13:40:18	jalpa November 05, 2018 14:12:18	ø

MARKING A DATA SOURCE-CLICKING THE MARK IT APPROVED ICON

The system marks the data source as IT approved and displays a check symbol adjacent to the data source.

Sman	r ten ced Data Disco	very							Welcome S	hyam Ram
Data	source	es								
Datasets	G				Search	Q,	Page 1 of 5	1 -	Name	•
		NAME	DATA SOURCE TYPE	CREAT	TED	U	PDATED			
Data sources		AdventureWorks_Datasource ★★★★	Database / SQL server	admin October	r 11, 2018 20:23:00		nyam Ramani Inuary 30, 2019 18:	40:40	1	
Cubes		Age-Passthrough-ease-SpearmanCorrelation-DataSource ★★★★	File / Text	jalpa April 03	6, 2018 12:17:24	jal Ap	pa pril 03, 2018 12:17:	52	ф.	
Cubes		Age-Purchase Relationship-PearsonCorrelation-DataSource ★★★★	File / Text	jalpa April 03	, 2018 12:13:28	jal Ap	pa pril 03, 2018 12:13:2	28	P	

MARKING A DATA SOURCE—THE CHECK MARK INDICATING THAT THE DATA SOURCE IS IT APPROVED

5.8 Unmarking a Data Source as IT Approved

This feature enables IT staff to unmark the data sources that are marked as approved.

About this task

Use this task to unmark a data source that is marked as IT approved.

Procedure

1. Click **Open** -> **Data** from the menu.

	A 10 10 10 10 10 10 10 10 10 10 10 10 10
★ My favourites	🚘 Open
My folders	New New
B Repository	Publishing agent
📴 Data	📇 TeamUp
	Edit profile
	⊂→ Logout
	L About us
	Network speed (368.14 kBps)

MENU OPTION—OPEN DATA

The system displays the following page.

Sma Adva	rten nced Data Disco	overy				Welcome Shyam Rama
Data	sets					
Datasets	S	0	<u>.</u>	Search	Q Page 1 of 7 1 -	Name 🔺
			NAME	CREATED	UPDATED	
Data sources		(종)	Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	
Cubes			Age-Purchase Relationship-PearsonCorrelation-Dataset	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	"
Cubes			Cadila Product Data Set ★★★★	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	"
		1991	Cadila Product master	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	
		몡	Credit card Dataset ★★★★	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	P
		몡	CustomerPaymentDetails_old	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	æ
		嘭	Database_From_Database_Query_O ★ ★ ★ ★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	ы н
		1954	Dataset_From_Database ★★★★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	æ
		¥4	Dataset_From_Dataser	Shyam Ramani October 11, 2018 14:10:44	Shyam Ramani October 11, 2018 14:10:44	æ
		嵶	Dataset_From_RScript	Shyam Ramani October 20, 2018 13:13:27	Shyam Ramani October 20, 2018 13:13:27	<i></i>

ACCESS A DATA SOURCE-DISPLAYING DATA SOURCES

- 2. Click Data sources.
- 3. Select the check box adjacent to the data source you want to unmark.

Note: You can only unmark the data sources that are marked as IT approved.

4. Click the Unmark IT Approved icon.

Advant	r ten ced Data Disco	wery				Welcome Shyam Ramani
Data	source	es				
Datasets	G			Search	Q, Page 1 of 5 1 -	Name 🔺
		NAME	DATA SOURCE TYPE	CREATED	UPDATED	
Data sources	 ✓ 	AdventureWorks_Datasource ★★★★	Database / SQL server	admin October 11, 2018 20:23:00	Shyam Ramani January 30, 2019 18:40:40	,
Cubes		Age-Passthrough-ease-SpearmanCorrelation-DataSource ★★★★	File / Text	jalpa April 03, 2018 12:17:24	jalpa April 03, 2018 12:17:52	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Cubes		Age-Purchase Relationship-PearsonCorrelation-DataSource ★★★★	File / Text	jalpa April 03, 2018 12:13:28	jalpa April 03, 2018 12:13:28	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		Classification datasource ★★★★★	File / Text	jalpa November 05, 2018 13:40:18	jalpa November 05, 2018 14:12:18	,

UNMARKING A DATA SOURCE-CLICKING THE UNMARK IT APPROVED ICON

The system unmarks the data source as IT approved, and the check symbol adjacent to the data source is no longer available.

Sman	rten ced Data Disc	overy				Welcome Sh	yam Ram
Data	source	es					
atasets	G	• ±		Search	Q Page 1 of 5 1 -	Name 4	
		NAME	DATA SOURCE TYPE	CREATED	UPDATED		
Data ources		AdventureWorks_Datasource ★★★★	Database / SQL server	admin October 11, 2018 20:23:00	Shyam Ramani January 30, 2019 18:40:40	ц я	
abes		Age-Passthrough-ease-SpearmanCorrelation-DataSource ★★★★★	File / Text	jalpa April 03, 2018 12:17:24	jalpa April 03, 2018 12:17:52	ф я .	••••
Jubea		Age-Purchase Relationship-PearsonCorrelation-DataSource $\bigstar \bigstar \bigstar$	File / Text	jalpa April 03, 2018 12:13:28	jalpa April 03, 2018 12:13:28	4 8	
		Classification datasource	File / Text	jalpa November 05, 2018 13:40:18	jalpa November 05, 2018 14:12:18	4 8	
		Credit card DataSource ★★★★★	File / Text	jalpa July 26, 2018 19:41:24	jalpa July 26, 2018 19:41:24	ф я .	
		DatasourceMIS ★★★★	File / Text	Gopal October 25, 2018 11:17:53	Gopal October 25, 2018 11:17:53	ц я	
		Education wise balance difference-DataSource	File / Text	jalpa April 03, 2018 12:21:20	jalpa April 03, 2018 12:21:20	1	

UNMARKING A DATA SOURCE—THE CHECK MARK FOR IT CERTIFIED IS REMOVED

6 Creating a Dataset

A dataset is a source of analysis-ready data in a columnar structure. The process of creating a dataset includes connecting to a data source and extracting raw data from it based on the columns selected.

Note:

You can create a dataset from an existing data source or a dataset.

Reference: Concept Manual > Dataset > Creating Dataset

6.1 Creating a Dataset Using a Database Profile

You can use a database profile to create a dataset and retrieve data from that database profile. You can retrieve data using either a ready to use query or using a step-by-step wizard.

6.1.1 Creating a Dataset Using a Ready to Use Query

You can use a query to retrieve data from a database profile and use that data to create a dataset.

About this task

Use this task to create a dataset using a query to retrieve data from a database profile.

Procedure

1. Click **New** -> **Dataset** from the menu.

	Welcome Shyam Ramani
	👚 Open
Crosstab	New
Tabular	Publishing agent
aff Graph	TeamUp
🖽 GeoMap	Edit profile
KPI	C⇒ Logout
KPI group	1 About us
Dashboard	Network speed (229.38 kBps)
SmartenView	
Data source	
e Dataset	
₩ SmartenInsight	
MENU OPTION	-NEW DATASET

The system displays the Create dataset page.`

	Nanced Data Discovery			V	Velcome Shyam Ramani
Nev	w Dataset				
Crea	ate dataset				
Name					
Data	set_From-Database_Query				
Descri	iption				
Select	data source				
Search	n Q			All objects	Name 🔺
	DATA SOURCE NAME	DATA SOURCE TYPE	CREATED	UPDATED	Ŷ
۲	AdventureWorks_Datasource	Database / SQL server	admin October 11, 2018 20:23:00	admin October 11, 2018 20:23:00	
0	Age-Passthrough-ease-SpearmanCorrelation-Dataset	Dataset	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	
	Age-Passthrough-ease-SpearmanCorrelation-DataSource	File / Text	j alpa April 03, 2018 12:17:24	j alpa April 03, 2018 12:17:52	
 St 	Ace-Purchase Relationshin-PearsonCorrelation-Dataset ep-by-step wizard O Paste ready to use query	Datasat	jalpa	jalpa	↓
NEX	T CANCEL				

CREATING A DATASET—THE CREATE DATASET SCREEN

- 2. Enter a name and description for the dataset in the **Name** and **Description** fields.
- 3. Select the database profile you want to use to create a dataset from the list.

Or,

Enter the keyword to search for the database data source profile based on the keyword provided, and then press **Enter**.

The system displays the database data source profiles that match the keyword you have provided and displays the **Step-by-step wizard** and **Paste ready to use query** options.

- 4. Select the **Paste ready to use query** option to paste a query that you want to use to retrieve data from the database profile.
- 5. Click Next.

The system displays the **Paste ready to use query** screen.

6. Paste the query you want to use in the **Query** field.

Smarten Advanced Data Discovery	Welcome Shyam Raman
New Dataset	
Paste ready to use query	
Dataset: Database_From_Database_Query	Data source:AdventureWorks_Datasource - Database/SQL server
Query	
select * from Sales customer	
	e e e e e e e e e e e e e e e e e e e
	⇒ PREVIEW

ОК	BACK	CANCEL

CREATING A NEW DATASET—USING A QUERY TO RETRIEVE DATA FROM A DATABASE PROFILE

7. You can click the Clear Query button to reset the query.

Advanced Data Discovery	Welcome Shyam Ramani
Database_From_Database_Query	
Edit dataset - paste ready to use query	
Dataset: Database_From_Database_Query	
	Data source:AdventureWorks_Datasource - Database/SQL server
Query	
select * from Sales.customer	Ø
	1

8. Click **PREVIEW**.

The system displays the data retrieved from the database based on the query you have specified.

	ta Discovery			†
	laset			
	dy to use query			
luery	tabase_From_Database_Query		Data source:AdventureV	Norks_Datasource - Database/SQL
	n Sales. customer			(,
		*		2010/00/
ieiterritoryid ∳ (⊤Accountnumer	CUSTOMERID 🔶 🖂 TERRITORY	- 	10	
TERRITORYID			10 XE-1904-BE1E-5001028407F1	
AVV00011045 AVV00000178	5 0 10	EE880E3E-FC S 0588FB77-FC		♦
9 ANV00011045 10 AVV0000178 5 AVV0000422	5 0 10 5	I EE86DE3E-FC S 0588F977-FC S 7A2CDC3B-36	24E-499A-BE1E-53C3C25427F1 07-4279-AEBD-4102D2188A11 M6-4FB1-075A-E3B82F3159A9	MODIFIEDDATE October 13, 2004 11:15:07 October 13, 2004 11:15:07 October 13, 2004 11:15:07
9 AVX0011045 10 AVX0000178 5 AVX00000422 7 AVX00000139	5 0 10 5 7	I EE80023E-FC S 0988F877-FC S 7A2CDC3B-3C S 23A1A3E2-HI	24E-490A-BE1E-53C3C25427F1 67-4278-AEBD-4162D2189A11 46-4FB1-975A-E3BE2F3159A9 F0-40AA-87D4-F4AE97D12581	MODIFIEDDATE October 13, 2004 11:15:07 October 13, 2004 11:15:07 October 13, 2004 11:15:07 October 13, 2004 11:15:07
0 AVX00011045 10 AVX0000178 5 AVX000042 7 AVX0000139 4 AVX000115	5 Q 10 5 7 5 4	I EE980E3E-FC S 0588FB77-FC S 742C028-8 S 23A1A3E2-18 I F791BD74-B7	XE-409A-BE1E-53C3C25427F1 67-4279-AEBD-4102D21B9A11 MG-#FB1-075A-E3BB2F3150A0 F0-40AA-87D4-FA4E97D12581 82-4831-89FC-F6FEE621FD13	October 13, 2004 11:15:07
0 AN00001046 19 AN00000075 5 AN00000013 7 AN00000138 4 AN00000035	5 0 10 5 7 5 4 4	I EE680E3E-FC S 0686F877-6C S 77420C018-85 S 2341A3E2-18 I F791B074-E8 S 805AAA36AE	X4E-409A-BE1E-3023C25427F1 07-4279-AEBD-4102D2189A11 44-789-476-81820273159A9 F0-40A-87D4-F4AE97D12581 82-4031-887C-47FE817D13561 82-4031-887C-47FE814721EF013 C0-41FE1-8113-8514722EE406	MODIFIEDDATE October 13, 2004 11:15:07 October 13, 2004 11:15:07 October 13, 2004 11:15:07 October 13, 2004 11:15:07
0 AN00011045 10 AN0000178 5 AN0000042 7 AN0000194 4 AN00001105 4 AN00000195 3 AN000000202	5 0 10 5 7 5 4 4 3	I EE880E3LE-FC S 0066F677-FC S 7A2CDC058-8 S 23A143E2-10 I F7918D74-EB S 2057AA027 S 24077AAC27	AE-409A-BE1E-33C3C25427F1 67-4279-AEBD-410202186A11 44/EFB-476-B3BC23150A9 0-40AA-8704-F4AE97012631 02-404-BF10-F6EE021F013 02-41E-B113-8347A2EE400 0-44E-B113-8347A2EE400 0-44AC-83DB-647C5EP085CD	Image: Control of the contro
0 AN000011645 19 AN0000017 19 AN00000013 7 AN00000138 4 AN00000013 4 AN00000013 3 AN00000014 5 AN00000014	5 0 5 7 5 4 5 4 3 5 5	I ES 8402584,2 S USB/977,4 S TACIO238,4 S 234,4452 I F79180748 S B054,AA0548 S B054,AA0548 S B054,AA0548 S B054,AA0548 S B056,C687	ME-409A-BE1E-503022427F1 07-4279-48ED-410202169A11 44-9E1-97A-E8ED-3150A0 7-40A-8170-FA8ED7150A0 7-40A-8170-FA8ED715081 82-4031-89FC-978E021FD13 02-41E1-8113-85347A2EE408 02-41E1-8113-8538-7A47C6F988CD F9-4AC-8380-7A47C6F988CD 50-9511-624-62-0710380887	Image: Constant State State Image: Constant State State Image: Constant State State Image: Constant State Image: Constant<
9 AM00011649 10 AM0000079 6 AM0000042 7 AM0000199 4 AM0001115 4 AM00000019 5 AM000000014 5 AM000000094	5 0 10 5 7 5 4 4 3 5 4 5 4	EERPCE1F EERPCE1F S 068F877-FC S 7ACD038-8 I F71807-HE S 204AA05-48 S 605AA05-48 S 204A05-58 S 605B05C6-57 S 605B05C6-57 S 605B05C6-57	AE-400A-BE1E-53C3C25427F1 07-4278-48ED-41502118A11 AM-FEI-077A-BEBZ73150A9 0-40A-3510-FFABE73150A9 0-40A-3510-FFABE731503 0-41E-1813-65347A2EE408 0-4478-1813-65347A2EE408 0-46A-3510-6476F9585CD 50-4871-64A-6C-1703968887 18-46C-443C-670968827	Image: Control of the contro
0 AN000011645 19 AN0000017 19 AN00000013 7 AN00000138 4 AN00000013 4 AN00000013 3 AN00000014 5 AN00000014	5 0 10 5 7 5 4 4 3 5 4 5 4	EBAGD SEAF EAGUEST SEAF S DOBESTIFY S DATA S DATA S DATA S DATA S DATA S DATA S COSSOLO C S C	ME-409A-BE1E-503022427F1 07-4279-48ED-410202169A11 44-9E1-97A-E8ED-3150A0 7-40A-8170-FA8ED7150A0 7-40A-8170-FA8ED715081 82-4031-89FC-978E021FD13 02-41E1-8113-85347A2EE408 02-41E1-8113-8538-7A47C6F988CD F9-4AC-8380-7A47C6F988CD 50-9511-624-62-0710380887	Image: Constant State State Image: Constant State State Image: Constant State State Image: Constant State Image: Constant<
0 AM0001104# 10 AM0000079 5 AM0000079 7 AM0000019 4 AM0000019 3 AM00000019 4 AM00000019 4 AM00000019 5 AM00000019 4 AM00000019 4 AM00000019 4 AM00000194 9 AM00000194 4 AM00000194	5 0 0 5 4 4 3 6 4 4 6 6 6 6 6 6 4 6 6 6 6 4	I ESBAD SE FA S D0898717-0 S 20898717-0 S 204402-0 I F7180746-8 S 204402-0 S 24402-0 S 240740-0 S 008804-0 S 40053-44	AE-400A-BE1E-53C3C25427F1 07-4278-48ED-41502118A11 AM-FEI-077A-BEBZ73150A9 0-40A-3510-FFABE73150A9 0-40A-3510-FFABE731503 0-41E-1813-65347A2EE408 0-4478-1813-65347A2EE408 0-46A-3510-6476F9585CD 50-4871-64A-6C-1703968887 18-46C-443C-670968827	
0 AN000011645 19 AN00000173 19 AN00000173 7 AN00000173 4 AN00000133 3 AN00000013 5 AN00000014 4 AN00000014 9 AN00000014	5 0 5 7 5 4 6 4 6 5 6 4 6 6 6 6 7 8 6 9 0 9 0 8 8	EBBODESE FX 5 06669777C 5 7420425 5 7420425 5 8 7420425 6 742045 74205 7405 74205 7405 74005	N# 400.4 8F 43C3C3447P1 N# 476174 8F38 A47074 5780715841 M# 476174 6780 4780715384 50.4431 6497.987845715381 50.4431 6497.987845715281 10.4431 6497.987845715285 10.4451 6413638285 10.4451 641362855 10.4451 6431638285 10.4451 6431638285 10.4451 6436555 10.4456 6435 65205070P	

9. You can click the full data mode button to retrieve and display the entire data of a result set. By default, the system displays limited records in the preview mode.



PREVIEW DATA—FULL DATA MODE OPTION

10. You can click the option to enable a record count.



PREVIEW DATA—RECORD COUNT OPTION

When enabled, this option displays the total number of records available.

	Advanced Data Discovery					A
Ne	ew Dataset					
Pa	ste ready to use qu	iery				
	aset: Dataset_From_	Database_Query	19,185 re	ecords Data source	a:AdventureWorks_Datasource - D	atabase/SQL serv
ue	ect * from Sales.cust					Ø
						G
				÷		G
				÷	PRE	Ciew 🗈 🕅
	E∎CUSTOMERID ⇔	E≣ TERRITORYID ⇔	ACCOUNTNUMBER ⇔	÷ ⊤CUSTOMERTYPE ≑		
	ESCUSTOMERID ≑ 11045	E∃ TERRITORYID ≑ 9	TACCOUNTNUMBER ⇔	Ţ CUSTOMERTYPE ≑		
					⊤ROWGUID 👙	VIEW E OU
	11045	9	AW00011045	1		VIEW I OI MODIFIEDDA October 13, 2004 11: October 13, 2004 11:
	11045 178	9 10	AW00011045 AW00000178	l S	▼ ROWGUID ♦ EE860E3E-FC4E-499A-BE1E-53C3C25427F1 0588FB77-FC67-4279-AEBD-4162D21B9A11	VIEW I OI MODIFIEDDA October 13, 2004 11: October 13, 2004 11:
	11045 178 422	9 10 5	AW00011045 AW00000178 AW00000422	I S S		MODIFIEDDA October 13, 2004 11: October 13, 2004 11: October 13, 2004 11: October 13, 2004 11:

PREVIEW DATA-RECORD COUNT ENABLED

11. Click **OK**.

The system retrieves the data from the database and creates the dataset.

Smarten Advanced Data Discovery					Welcome Shyam F
atabase_From_Data	abase_Query			🗎 🦷 🗗 📑 🛈 👓	a . II 2 a 2 h U
					Data extraction is in progres
esult set 👻					
CUSTOMERID	🔍 📧 territoryid	Q T ACCOUNTNUMBER	🔍 📺 CUSTOMERTYPE	🔍 📺 ROWGUID	Q O MODIFIEDDATE
11045	9	AW00011045	1	EE88DE3E-FC4E-499A-BE1E-53C3C25427F1	October 13, 2004 11:15:07
178	10	AW00000178	S	05B8FB77-FC67-4279-AEBD-4162D21B9A11	October 13, 2004 11:15:07
422	5	AW00000422	S	7A2CDC3B-3646-4FB1-975A-E3BB2F3159A9	October 13, 2004 11:15:07
139	7	AW00000139	s	23A1A3E2-16F0-40AA-87D4-F4AE97D12581	October 13, 2004 11:15:07
11015	4	AW00011015	1	F791BD74-EB82-4631-B9FC-F9FEE621FD13	October 13, 2004 11:15:07
203	4	AW00000203	S	B05AAA08-ABC9-41E1-B113-85347A2EE408	October 13, 2004 11:15:07
504	3	AW00000504	S	240578AC-2179-4ACA-83D8-C647C8F668CD	October 13, 2004 11:15:07
296	5	AW00000296	S	6D8059C6-BF5D-4871-8CA8-CC1703868B87	October 13, 2004 11:15:07
94	4	AW00000094	S	65BE08DA-DFB7-4BC8-AA5C-FAD98B82524E	October 13, 2004 11:15:07
105	9	AW00000105	S	F9387EA3-EF35-49B2-B535-E02368D2C0FD	October 13, 2004 11:15:07
184	4	AW00000184	S	A85C523A-498D-4314-A727-D17A8B2779F8	October 13, 2004 11:15:07
687	8	AW00000687	S	350F6A77-2B9B-4853-8C55-8F570F525092	October 13, 2004 11:15:07
11003	9	AW00011003	1	7E240EFC-7EE8-4814-93A8-289821157E18	October 13, 2004 11:15:07
30	6	AW00000030	S	2B15DFB1-831E-49E7-B337-395798B129E7	October 13, 2004 11:15:07
340	10	AW00000340	S	191FE023-2354-4FBB-88D7-B57ADC3428D8	October 13, 2004 11:15:07
674	4	AW00000674	S	821FF209-815B-4EAA-806F-9108F3FE9424	October 13, 2004 11:15:07
491	4	AW00000491	S	28A9945C-B9B3-4A24-B367-D17BCC0AE82E	October 13, 2004 11:15:07
443	6	AW00000443	S	133CE995-D294-47EE-94CB-468E147214D4	October 13, 2004 11:15:07
420	4	AW00000420	S	E4E565BB-00FF-494A-B31F-4BFE14EC2950	October 13, 2004 11:15:07
11288	4	AW00011288	1	22A6D325-97F8-45AA-B7A3-5D88D4CF1FC0	October 13, 2004 11:15:07
11149	9	AW00011149	1	F46991DB-7958-46E7-B49E-109BC51B5FEC	October 13, 2004 11:15:07
200	1	AW00000200	S	7C96C878-A038-4B2F-825F-016C922D6407	October 13, 2004 11:15:07
11053	4	AW00011053	1	1284C3BD-3A2E-434B-92E0-81ADA7755873	October 13, 2004 11:15:07
623	3	AW00000623	s	9DEF17D4-B251-405F-A854-70A33DEBBBE9	October 13, 2004 11:15:07
581	4	AW00000561	S	E8C7FF14-1BED-4405-8E3A-B744C8A29CD8	October 13, 2004 11:15:07
412	10	AW00000412	S	BD823AB5-6077-41D3-86C7-7BFA90602024	October 13, 2004 11:15:07
97	4	AW00000097	s	355EB5D8-6B4C-4FFF-B12B-40F89CA4E31D	October 13, 2004 11:15:07
155	8	AW00000155	s	3B56CD66-5DDF-430C-AB41-3FF6A1836868	October 13, 2004 11:15:07
578	1	AW00000578	S	82B2F273-C9F6-4B40-B0DA-F1AE0D6CB581	October 13, 2004 11:15:07
178	8	AW00000176	S	10219F9C-BEF1-4CAC-A435-D75342C43153	October 13, 2004 11:15:07
303	9	AW00000303	S	31392045-13D2-46CB-9031-67BD7C6F1300	October 13, 2004 11:15:07
11100	9	AW00011100	1	F30988B9-CCF4-4CBC-A8D8-E998A570AED9	October 13, 2004 11:15:07
11169	4	AW00011169	1	45FEA86E-BC73-4CAF-A9DE-D6B1C74C764D	October 13, 2004 11:15:07
375	9	AW00000375	S	150DCA03-DAE1-461C-85C8-54660461356C	October 13, 2004 11:15:07
170	6	AW00000170	S	1F8334E8-3DDC-4530-A1D2-E0BAB826476E	October 13, 2004 11:15:07
153	5	AW00000153	S	10C2DA68-32A2-4C63-998F-9B18CDD6E3B0	October 13, 2004 11:15:07
378	2	AW00000378	S	95828950-E407-4293-A824-B2525F135503	October 13, 2004 11:15:07
337	7	AW00000337	S	FB5A02EB-5589-4499-A19E-492457428B90	October 13, 2004 11:15:07

PREVIEW—DATASET CREATED USING A DATABASE PROFILE

The dataset is now available in the repository.

6.1.2 Creating a Dataset Using the Step-by-Step Wizard

You can create a dataset using the step-by-step wizard that allows you to choose the tables, apply joins, manage columns, and filter data.

About this task

Use this task to create a dataset using the step-by-step wizard to retrieve data from a database profile.

Procedure

1. Click **New** -> **Dataset** from the menu.

	Welcome Shyam Raman
	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	🚔 Open
Crosstab	New New
Tabular	Publishing agent
di Graph	**** TeamUp
🖽 GeoMap	Edit profile
	⊂→ Logout
KPI group	About us
Dashboard	Network speed (229.38 kBps)
SmartenView	
Data source	
Cataset	
IR SmartenInsight	

MENU OPTION-NEW DATASET

The system displays the Create dataset page.

E	narten dvanced Data Discovery			Welcome S
Ne	w Dataset			
Cre	ate dataset			
Name				
Data	aset_From-Database_Query			
Desci	iption			
Selec	t data source			
Searc	h Q			All objects Nam
	DATA SOURCE NAME	DATA SOURCE TYPE	CREATED	UPDATED
۲	AdventureWorks_Datasource	Database / SQL server	admin October 11, 2018 20:23:00	admin October 11, 2018 20:23:00
	Age-Passthrough-ease-SpearmanCorrelation-Dataset	Dataset	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25
	Age-Passthrough-ease-SpearmanCorrelation-DataSource	File / Text	jalpa April 03, 2018 12:17:24	jalpa April 03, 2018 12:17:52
	Age-Purchase Relationship-PearsonCorrelation-Dataset	Datacot	jalpa	jalpa
• s	tep-by-step wizard O Paste ready to use query			
NEX	CANCEL			

CREATING A DATASET—THE CREATE DATASET SCREEN

- 2. Enter a name and description for the dataset in the **Name** and **Description** fields.
- 3. Select the database profile you want to use to create a dataset from the list. Or,

Enter the keyword to search for the database data source profile based on the keyword provided, and then press **Enter**.

The system displays the database data source profiles that match the keyword you have provided.

- 4. Select the **Step-by-step wizard** option to manually select schema, table, and apply joins to retrieve data from the database profile.
- 5. Click Next.

The system displays the **Step-by-step wizard** screen.

 Select the schema from which you want to retrieve data from the Schema name list. The system displays the tables and views available for the schema you have selected in the Table(s) and view(s) section.

Advanced Data Discovery	Welcome Shyam Ramani
New Dataset	
Step-by-step wizard	
Dataset: Dataset_From_Database	Data source: AdventureWorks_Datasource - Database/SQL server
Schema name	Selected table(s) & view(s)
Sales 🔻	A
Table(s) and view(s)	
Search Q	
ContactCreditCard	
E CountryRegionCurrency	
E CreditCard	
E Currency	•
E CurrencyRate	
Customer	
CustomerAddress	
Individual ☐ SalesOrderDetail	
SalesOrderHeader	
SalesOrderHeaderSalesR	
SalesPerson	
SalesPersonQuotaHistory	
SalesReason	
III SalesTaxRate	
OK BACK CANCEL	

CREATING A DATASET—SELECTING A SCHEMA

7. Double-click the table(s) and view(s) from the Table(s) and view(s) section.

The system displays the selected table(s) and view(s) in the **Selected table(s) & view(s)** section and retrieves data from these table(s) and view(s). The system displays data available in the result set.

Note: By default, the system displays limited records and limited columns from the result set.

• You can click the full data mode button to retrieve and display entire data of the result set.



CREATING A DATASET— FULL DATA MODE OPTION

• You can click **Select columns** from the table menu to select or deselect the columns from a table.



CREATING A DATASET—SELECT COLUMNS OPTION

The system displays the **Select columns** dialog box.

Customer 🗸	
Select columns	×
Search	Q,
 Select all CustomerID TerritoryID AccountNumber CustomerType rowguid ModifiedDate 	
OK CANCEL	

CREATING A DATASET—SELECTING COLUMNS

• Select or deselect the columns, and then click **OK**.

New Dataset						
New Dataset						
Step-by-step wizard						
ataset: Dataset_From_Databa	ise			Data source: Adve	ntureWorks_Datasource - Database	/SQL sen
chema name	Selected table(s)	& view(s)				
Sales	•					Ø
ble(s) and view(s)						
	Q					
I SalesPersonQuotaHistory I SalesReason I SalesTaxRate I SalesTerritory						
SalesTerritoryHistory				*		•
SalesTerritoryHistory				*	on 5	•
Sales Territory History	# TEBCUSTOME	rid 👌 📧 territoryid	⇔ ⊤ACCOUNTNUMBER ⇔	: TCUSTOMERTYPE #		
Sales Territory History Shopping CartItem Special Offer Special Offer Product	# ECUSTOME	RID 😝 📧 TERRITORYID	ACCOUNTNUMBER AW00018857	TCUSTOMERTYPE 👳		
SalesTerritoryHistory ShoppingCartItem SpecialOffer SpecialOfferProduct Store		÷ 🛄	· ·	¥	⊤ROWGUID €	
SalesTerritoryHistory ShoppingCartItem SpecialOffer SpecialOfferProduct Store Store StoreContact	1 18857	1	AW00018857	1	■ ROWGUID €	Cotober
SalesTerritoryHistory ShoppingCartItem SpecialOffer SpecialOfferProduct Store	1 18857 2 25041	1 1	AW00018857 AW00025041		TROWGUID 6 04008CE4-1051-4A88-AF5D-C3B42481E074 394C7B61-3B08-4168-A080-C4EDF3804422	Cotober October
Sales Territory History Shopping Cartitem Special Offer Special Offer Product Store Store Vindividual Customer	1 18857 2 25041 3 18841 4 12458 5 12744	1 1 6 8 10	AW00018857 AW00025041 AW00018841 AW00012458 AW00012744	I I I I I	ROWGUID Image: Content of the state of the	Cotober October October October October
Sales Territory History Shopping Cartitem Special Offer Special Offer Product Store Store StoreContact VIndividual Customer VIndividual Demographics	1 18857 2 25041 3 18841 4 12458 5 12744 6 27402	1 1 6 8 10 6	AVN00018857 AVN00025041 AVN00012458 AVN000124458 AVN00012744 AVN00027402	I I I I I I I	ROWGUD C 04003/CE4-1051-4.468-AF5D-C3842481E074 C 04003/CE4-1051-4468-A65D-C4EDF3804422 C 70147A1-F883-4F07-ACAC-E61E82F10008 C 2280/F802-1930-4602-9123-8274832A C C0E62665-F6441738AD C C0E62665-F6441238AD C 47FBC216-8528-4821-A77C-0265E138CB83 C	Cotober October October October October October October
Sales Territory History Shopping Cartitem Special Offer Special Offer Product Store Store Store	1 18857 2 25041 3 18841 4 12458 5 12744	1 1 6 8 10	AW00018857 AW00025041 AW00018841 AW00012458 AW00012744	I I I I I	ROWGUID Image: Content of the state of the	Cotober October October October October

CREATING A DATASET—SELECTING A TABLE OR VIEW

Note: To add a table or view as an alias, you need to use the same table or view twice.

- Repeat the previous steps to add more than one table or view. The system displays the data available in the selected tables or views and performs the following operations:
 - The system automatically applies the join condition if a relationship exists between the table you have added in this step and other table(s) you added in the previous step.





- If the system cannot find joins in the first scan, it displays the same in a message box and asks whether or not to perform additional scans to identify other possible joins. Once you provide your confirmation, the system performs a detailed scan to identify other joins.
- If the system cannot identify a join automatically, you have to manually apply to join between those tables.
- In the preview pane, the system differentiates the data belonging to various tables by providing different background color to the column header. The background color of the column header is the same as the table the columns belong to. For example, in the image below, the Customer table has a blue background, and the Store table has a brown background. In the preview pane, the data for the Customer table has a column header with a blue background, and the Store table has a column header with a brown background.

lected table(s) & vie	w(s)							Ø
		Customer -		SalesOrderHe		Store		
		/		÷		DEE Results	at v B	• •
RE CUSTOMERID 🕀			E SALESORDERID 🕀	ORDERDATE 🔶		🖭 STATUS 🗦	CUSTOMERID 🖨	ТИАМЕ
440	AM00000000	C	07.17	0.00.01.01.2000.00.00.00	danaan, 60, 2000 00,00,00	<u>.</u>		First Department Oto
502	AVV00000502	S	47451	September 01, 2002 00:00:00	September 08, 2002 00:00:00	5	502	Metropolitan Bicycle
104	AVV00000104	S	59038	December 01, 2003 00:00:00			104	Very Best Sports Sur
686	AVV00000686	S	57094	November 01, 2003 00:00:00	November 08, 2003 00:00:00	5	686	Finished Parts Shop
563	AVV00000563	S	63288	February 01, 2004 00:00:00	February 08, 2004 00:00:00	5	563	Systematic Sales
181	AW00000181	S	69530	May 01, 2004 00:00:00	May 08, 2004 00:00:00	5	181	Family Entertainmen
527	AVV00000527	S	44517	November 01, 2001 00:00:00	November 08, 2001 00:00:00	5	527	Fun Times Club
63	AW00000063	S	44553	November 01, 2001 00:00:00	November 08, 2001 00:00:00	5	63	Metro Bike Mart
500	AM00000500	c .	81104	January 01, 2004 00-00-00	January 02, 2004 00-00-00	6	500	Westside Plaza

CREATING A DATASET—COLUMN HEADER WITH SAME BACKGROUND COLOR AS TABLE

Note:

The system applies the equijoin automatically if the option to apply auto-join is enabled.

The system indicates the following characteristic for the join:



CREATING A DATASET—CHARACTERISTICS OF A JOIN

- The innermost symbol indicates the type of join between two tables or views. By default, equijoin is applied.
- The blue border encompassing the innermost symbol indicates that the join is applied automatically.
- The outermost border indicates the identical records between the tables and views in percentage. The border is displayed in the following colors:
 - **Green**: Indicates that more than 80% of records are identical between the two tables or views.
 - **Orange**: Indicates that more than 50% and less than 80% of records are identical between the two tables or views
 - **Red**: Indicates that less than 50% of records are identical between the two tables or views.
- 9. Click the join symbol between the tables or views to modify that join. The system displays the Join dialog box.

Advanced Data Discovery				1
Step-by-step wizard				
ataset: Dataset_From_Database			Data source	e: AdventureWorks_Datasource - Database/SQL serv
chema name	Selected table(s) & view(s)			
Sales •				e
able(s) and view(s)				
earch Q				
SalesPersonQuotaHistory	Customer -	Sto	re 🔻	
SalesReason				
■ SalesTaxRate	Join		×	
SalesTerritory				
SalesTerritoryHistory				
ShoppingCartItem				
SpecialOffer	Equi Le	ft Right	Outer	ON Result set 🔻 🐻 🍸 🖺 🖤
SpecialOfferProduct			L NER	TYPE ⇔ ⊤ROWGUID ⇔ ⓒ MODI
Store			(R" +	34C094D7-8C79-47A5-B192-9597826BD55D October 13,
StoreContact	Customer	Store		801368B1-4323-4BFA-8BEA-5B5B1E4BD4A0 October 13,
				09480748-3F10-4C0F-9BF1-EBEFAD6540CF October 13,
32	100% * CustomerID	 CustomerID 	··· 🛍	B17DE285-DF9A-487B-8773-75844A101CD0 October 13, 355EB5D8-8B4C-4FFF-B12B-40F89CA4E31D October 13.
vIndividualDemographics				C2C156F1-4096-47C4-9979-BAAC98AFE790 October 13.
vSalesPerson				527D2334-C39D-49A8-901E-B1057F41BD73 October 13,
v SalesPerson SalesByFis				1C783210-2B1E-46E2-A2C8-23E610FEEB3C October 13,
v Store With Demographics				۶. F
OK BACK CANCEL				

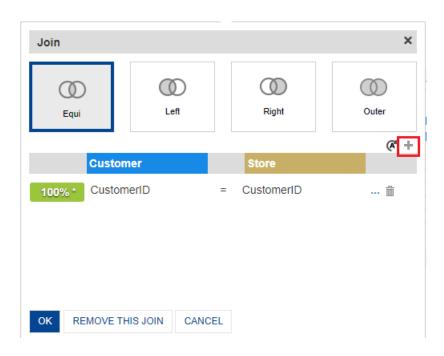
CREATING A DATASET-MODIFYING A JOIN BETWEEN TWO TABLES OR VIEWS

10. Select the join you want to apply. The following options are available:

- **Equi**: Select this option if you want to apply equijoin between the two tables or views.
- Left: Select this option if you want to apply left join between the two tables or views.
- **Right**: Select this option if you want to apply right join between the two tables or views.
- **Outer**: Select this option if you want to apply outer join between the two tables or views.

11. Click the Add join condition icon to add a join condition.

The system displays the list of columns available in the tables that you are applying the join.



MODIFY JOIN CONDITION—ADD A JOIN CONDITION

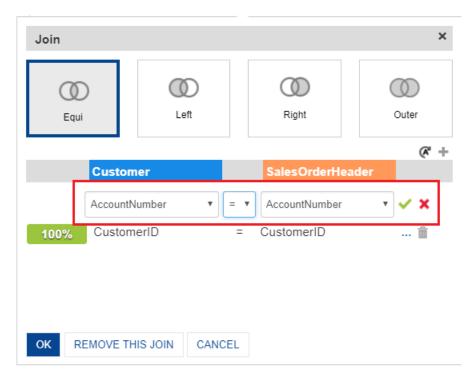
• Select the columns for each of the tables from their respective list and the condition you want to apply.

The system displays the records that matched the join condition in percentage. The background of the percentage value is displayed in the following colors:

- **Green**: Indicates that more than 80% of records are identical between the two tables or views.
- Orange: Indicates that more than 50% and less than 80% of records are identical between the two tables or views.
- Red: Indicates that less than 50% of records are identical between the two tables or views.

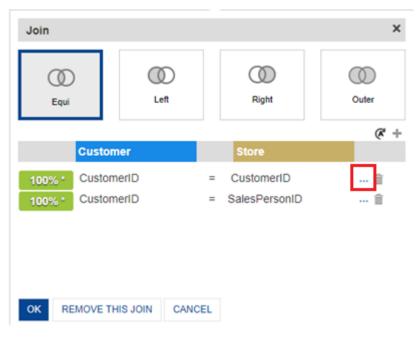
Note:

The "*" in the percentage value indicates that the value is calculated based on the sample data. Click the percentage value to calculate the actual percentage match for the entire data.



MODIFY JOIN CONDITION—ADDING A JOIN CONDITION

12. You can click the View matching records to view matching values in both columns.



ADDING A JOIN CONDITION—VIEW PREVIEW BUTTON

The system displays the matched values in the **Data preview** dialog box.

	Matched values	
Customer - CustomerID	SalesOrderHeader - CustomerID	
18857	18857	
12744	12744	
28039	28039	
12807	12807	
17690	17690	
12603	12603	
26713	26713	
24553	24553	
25201	25201	
14231	14231	
12673	12673	
27519	27519	
26622	26622	
26114	26114	
24669	24669	
12372	12372	
20470	20470	
28286	28286	
13778	13778	
16420	16420	
14226	14226	
12675	12675	
17622	17622	
22733	22733	
17965	17965	
11670	11670	
	13552	
13552		

ADDING A JOIN CONDITION—PREVIEW MATCHING VALUES

• You can select Unmatched values—Left table or Unmatched values—Right table to view unmatched values from the left table or the right table.

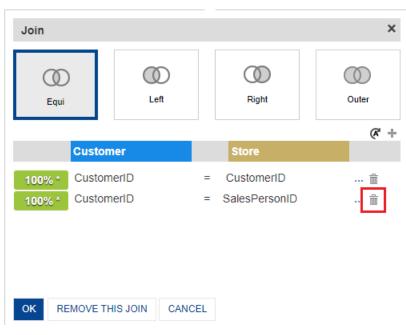
Customer - CustomerID	SalesOrder	Matched values Matched values Unmatched values - Left table
8857	18857	Unmatched values - Right table
2744	12744	
8039	28039	
2807	12807	
17690	17690	
12603	12603	
26713	26713	
24553	24553	
25201	25201	
14231	14231	
12673	12673	
27519	27519	
26622	26622	
26114	26114	
24669	24669	
12372	12372	
20470	20470	
28286	28286	
13778	13778	
16420	16420	
14226	14226	
12675	12675	
17622	17622	
22733	22733	
17965	17965	
11670	11670	
13552	13552	
15298	15298	
You are currently working with limit	ited data.	

ADDING A JOIN CONDITION—VIEW UNMATCHED VALUES

13. You can click the Auto suggested join button to restore the modified or deleted join conditions that were applied by the system.

ک Equi	Left		() Right	Outer
Custo	mer		SalesOrderHea	ader 🖉
100% Custor 49% Custor		=	CustomerID ContactID	··· 🗐
OK REMOVE T	HIS JOIN CA	NCEL		

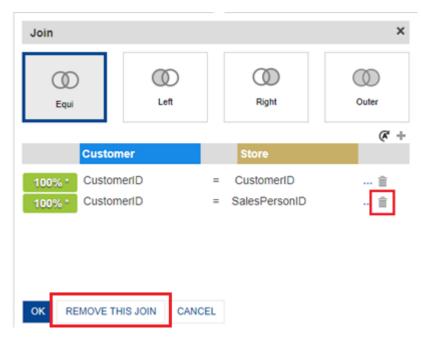
When you join two tables or views, the system automatically applies join conditions. You can modify or delete these join conditions. You can click the Auto suggested join condition to restore the original join condition without affecting the additional join conditions that you have applied.



14. You can click the delete icon next to a join condition to delete that join condition.

MODIFY JOIN CONDITION—DELETING A JOIN CONDITION

15. You can click **REMOVE THIS JOIN** to delete the join between the tables or views.



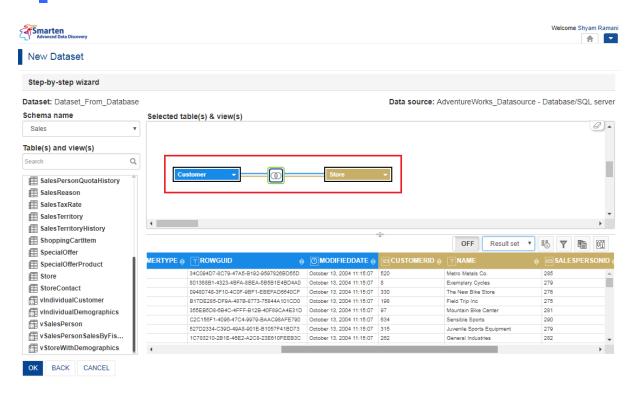
MODIFY JOIN CONDITION-REMOVING A JOIN

16. Click **OK**.

The system displays the data based on the joins applied between the tables and views.

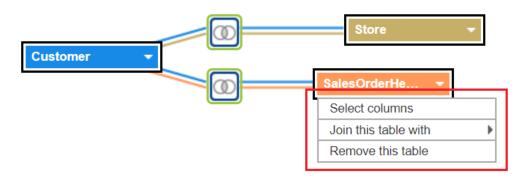
Note:

If you have applied a join that results in too many rows, the system displays a message notifying the same and proceeds to create that join after confirmation.



CRATING A DATASET—PREVIEW OF THE DATA BASED ON THE JOIN CONDITION APPLIED

17. Click a table to perform the following operation:



CREATING A DATASET—PERFORMING AN OPERATION ON A TABLE

- Select columns: Click this option to select or deselect the columns that you want to use in the data from the Select columns dialog box.
- Join this table with: Select this option to join the table with other tables from the list. The list displays tables that do not have any join with the table. The system displays the Join dialog box. Refer to steps 10–13 to add a join condition.

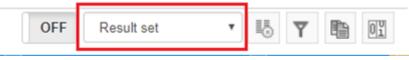
Note:

You must specify at least one join condition when you join a table using this option.

• **Remove this table**: Select this option to remove the table or view.

18. You can perform the following operations:

• **Preview data list**: Select an option from the list to view data for the selected table, view, or the result set.



PREVIEW DATA—PREVIEW DATA FROM LIST

• **Manage columns**: Click this option to select the columns you want to use in the result set from each table you have used.



- Select the check box adjacent to the columns that you want to include in the dataset.
- You can select a table from the list to narrow down the list of columns available.

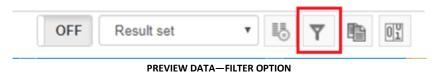
A circle adjacent to a column is of the same color as the table it belongs to. For example, in the image below, the columns that belong to the Customer table have a blue colored circle adjacent to them.

• You can drag-and-drop the columns to rearrange their order.

Manage columns	×
All • Search	Q
Customer - CustomerID (int identity)	• 1
Customer - TerritoryID (int)	• 1
Customer - AccountNumber (varchar)	• 1
Customer - CustomerType (nchar)	• 1
Customer - rowguid (uniqueidentifier)	• 1
Customer - ModifiedDate (datetime)	• 1
Store - CustomerID (int)	• 1
Store - Name (Name)	• 1
✓ Store - SalesPersonID (int)	• 1
Store - Demographics (xml)	• 1
Store - rowguid (uniqueidentifier)	• 1
Store - ModifiedDate (datetime)	• t ·
APPLY CANCEL	

PREVIEW DATA-MANAGE COLUMNS DIALOG BOX

• **Filter**: Select this option to specify the criteria to filter the data that will be retrieved from the database based on the condition applied.



• Select a column from the Column name list.

Select an option from the operations list.
 Based on the option you select from the list, the system displays a box, and you have to provide a value in that box.

Note:

The options available in the operations list are based on the data type of the column you have selected from the **Column name** list.

• Click ADD.

The system displays the criteria for the column.

Filter					3	×	
Column name						1	
AccountNumber				۳			
Starts with				۳			
ADD							
Column	Operator	Value					
Customer.CustomerID	Is Null		OR	۳	<u>ش</u>		
sysdiagrams.name	i=	was	OR	٣	ŵ		
Customer.AccountNumber	Starts wit	h 554	OR	۳	<u>ش</u>		
Expression							
(Customer.CustomerID Is Null C	R sysdiagra	ms.name != was OR					
Customer.AccountNumber Start You are currently working with limited							
Too als currently working with limited	outu.						
APPLY CANCEL							

PREVIEW DATA-FILTER DIALOG BOX

- Repeat steps 1–3 to add more criteria for other columns.
- You can select an option to apply AND or OR condition with that criterion and the next criteria in the list.

The criteria you add are displayed within the **Expression** section. The criteria in the **Expression** section are similar to the "Where" condition used in the SQL query.

column name					
AccountNumber					
Starts with					
ADD					
Column	Operator	Value			
Customer.CustomerID	Is Null		OR	*	Î
sysdiagrams.name	!=	was	OR	٠	1
Customer.AccountNumber	Starts wit	h 554	OR		÷
		~			
Expression		.			
Customer.CustomerID Is Null O		∽ ms.name I= was OR			
Customer.CustomerID Is Null O		∽ ms.name I= was OR			
Customer.CustomerID Is Null O Customer.AccountNumber Start	s with 554)	ms.name I= was OR			
	s with 554)	ms.name I= was OR			

FILTER DIALOG BOX—EXPRESSION SECTION

 If there are more than two criteria, you can select criteria that you want to group together and then click the group option.

The selected criteria appear in the parenthesis in the **Expression** section.

Filter		
Column name		
CustomerType		*
Not Null		•
ADD O ₄ O		
Column	Operator Value	
Customer.CustomerID	Is Null	OR 🔻 💼
Customer.AccountNumber	Starts with 554	OR 🔻 💼
Customer.CustomerType	Not Null	OR 🔻 📋
	÷	
Expression		
(Customer.CustomerID Is Null C	R Customer.AccountNumber Starts	with 554 OR
Customer.CustomerType Not No	(11	
Man and an attack and in a with time it a	dete	
You are currently working with limited	data.	
APPLY CANCEL		

PREVIEW DATA-FILTER DIALOG BOX

The selected criteria are grouped, and the same is reflected in the **Expression** section.

Filter			>
Column name			
CustomerType			•
Starts with			•
ADD			
Column	Operator Value		
Customer.CustomerID	Is Null	OR 🔻 💼	
Customer.TerritoryID	Not Null	OR 🔻 💼	
Customer.CustomerType	Starts 554	OR 🔻 💼	
Expression	÷		
((Customer.CustomerID Is Nu	III OR Customer. Territory ID	Not Null) OR	1
Customer.CustomerType Star	ts with 554)		
You are currently working with limit	ed data.		
APPLY CANCEL			

• You can select a grouped criteria and click the ungroup button to ungroup the selected criteria.

Filter		×
Column name		
CustomerType		¥
Starts with		¥
ADD O ₊ O_		
Column	Operator Value	
Customer.CustomerID	Is Null	OR 🔻 💼
Customer.TerritoryID	Not Null	OR 🔻 💼
Customer.CustomerType	Starts 554	OR 🔻 💼
	÷	
Expression		
((Customer.CustomerID Is No Customer.CustomerType Star		D Not Null) OR
You are currently working with limit	ted data.	
APPLY CANCEL		

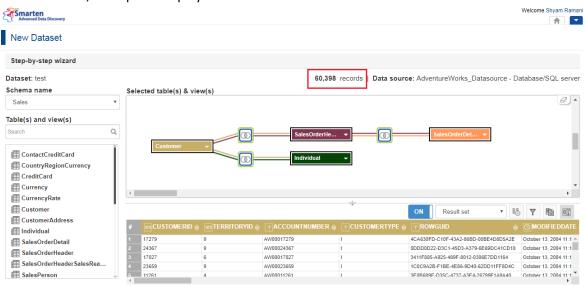
The criteria are no longer in parenthesis in the **Expression** section.

• Enable record count: Click this option to enable a record count.



PREVIEW DATA—RECORD COUNT OPTION

When enabled, this option displays the total number of records available.



PREVIEW DATA-RECORD COUNT ENABLED

19. Click **OK**.

The system retrieves the data from the database and creates the dataset.

Dataset	t_From_Database		🗎 🖷 🗗	≣	5 🔛 🕑 🕸 🖺 🗎	
					Data extraction is in pr	rogress
esult set	•					
123 SAL	LES_CUSTOMER_CUSTOMERID Q		T SALES_CUSTOMER_ACCOUNTNUMBER Q	T CUSTOMERTYPE Q		
475		4	AW00000475	S	14CA36FA-E45C-421C-BB5A-22CDE0946AEA	Octob
52		10	AW00000052	S	8FB34B30-B19D-4AEC-B02E-F1BE942800E5	Octob
423		5	AW00000423	S	A6B62683-6B48-4B90-8618-01A36F459ECD	Octob
533		6	AW00000533	S	89E3BBB3-134C-465B-A2BD-558EA54D3D9E	Octob
678		6	AW00000678	S	9AE2B1F8-8F7D-4439-99FE-2B67E38DE4EE	Octob
691		2	AW00000691	S	6C7F3484-142C-425A-A0F9-BA2201079A5C	Octob
422		5	AW00000422	S	7A2CDC3B-3646-4FB1-975A-E3BB2F3159A9	Octob
100		6	AW00000100	S	E789F6DD-3159-4DDC-81A8-8571C571656E	Octob
674		4	AW00000674	S	821FF209-815B-4EAA-806F-9106F3FE9424	Octob
352		6	AW00000352	S	5617D4F8-C3A1-4408-8895-AE3F7E0EFA05	Octob
538		10	AW00000538	S	35E95974-7000-4081-A041-64011DE880A2	Octob
66		6	AW00000066	S	E91E0048-9A25-489B-96C1-D726DA68FB7C	Octob
27		5	AW00000027	S	CACA5149-D799-473B-847F-83F3613D3D1F	Octob
499		7	AW00000499	S	C1977B0F-7A53-4761-AC2D-E43DA7B25711	Octob
236		1	AW00000236	S	21801FB2-6EA6-4FE5-9444-7E09E8BA907C	Octob
196		10	AW00000196	S	5F0EB2D3-4691-4F71-8E9B-A3EACFA4A1D5	Octob
295		4	AW00000295	S	BB5324B1-9ACE-4AAE-8711-41090EDCE4E0	Octob
479		6	AW00000479	S	DDF27582-0D9B-45A9-B605-AB01D2C1C3B8	Octob
361		1	AW00000361	S	6F69F454-5199-4B15-B370-D926F8ED104C	Octob
414		2	AW00000414	S	F493788D-9984-4433-B24F-F7D151462826	Octob
648		4	AW00000648	s	A47D117D-1878-4160-8A37-0B1581D441D6	Octob

PREVIEW—DATASET CREATED USING A DATABASE PROFILE

The dataset is now available in the repository.

6.2 Creating a Dataset Using a File Type Profile

You can use a file as a data source and create a dataset to retrieve the required data from that data source.

About this task

Use this task to create a dataset using a file type profile.

Procedure

1. Click New -> Dataset from the menu.

	Welcome Shyam Ramani
	≜
	🗁 Open
Crosstab	New New
Tabular	Publishing agent
di Graph	*** TeamUp
鈕 GeoMap	Edit profile
	C⇒ Logout
KPI group	1 About us
Dashboard	O Network speed (229.38 kBps)
SmartenView	
Data source	
6 Dataset	
R SmartenInsight	
MENU OPTI	ON—NEW DATASET

The system displays the **Create dataset** page.

Smar	ten ed Data Discovery				Welcome Shyam Ramani
	Dataset				
Create	dataset				
Name					
Flight_D	ataset				
Descriptio	n				
Select dat	a source				
Search	Q			All objects	Name 🔺
•	EM-SSDP-GA-DataSet-Conversions-180_Days	Dataset	admin March 13, 2018 09:02:23	Sanjay Patel August 29, 2018 11:26:24	••••
0	EM-SSDP-GA-DataSource-28-Feb-18	Other / Google Analytics	Sanjay Patel April 19, 2018 16:36:02	Sanjay Patel April 19, 2018 16:36:02	1
0	FlightData_2016_SV	Dataset	nisarg April 13, 2018 17:10:04	nisarg May 18, 2018 11:46:26	
۲	FlightData_datasource_4-8-2018	File / Text	Kartik Patel August 04, 2018 16:51:08	Kartik Patel August 04, 2018 16:51:08	
0	FlightData_Nov_Dec_2016_Dataset_Pred	Dataset	jalpa April 13, 2018 17:42:09	jalpa April 13, 2018 18:03:04	
	GA Datasource 6-8-2018	Other / Google Applytics	Kartik Patel	Kartik Patel	,
NEXT	CANCEL				

www.smarten.com

CREATING A NEW DATASET—THE CREATE DATASET SCREEN

- 2. Enter a name and description for the dataset in the Name and Description fields.
- 3. Select the file type profile you want to use to create a dataset from the list.
 - Or,

Enter the keyword to search for the file type data source profile based on the keyword provided, and then press **Enter**.

The system displays the file type data source profiles that match the keyword you have provided.

4. Click Next.

Powered by ElegantJ BI Version 5.0.0.017

The system displays the **Select columns** page.

New Dataset											
Select columns											
ataset: Flight Dataset	Dat	a preview	i i i i i i i i i i i i i i i i i i i					Data source:Flight	Data_datasou	rce_4-8-2018	3 - File/
olumns	#	YEAR ⇔	QUARTER 🔶		DAY OF MONTH 🖨	DAY OF WEEK 🖨	DATE 🔶	UNIQUE CARRIER 🖨	AIRLINE ID 🖨	CARRIER ⇔	TAIL N
arch Q	1	2016	1	1	1	5	January 01, 2016 00:00:00	DI	19790	DL	N6701
	2	2016	1	1	1	5	January 01, 2016 00:00:00		19790	DL	N668DN
SELECTALL	3	2016	1	1	1	5	January 01, 2016 00:00:00		19790	DL	N910DL
	4	2016	1	1	1	5	January 01, 2016 00:00:00		19790	DL	N3757E
YEAR	5	2016	1	1	1	5	January 01, 2016 00:00:00	DL	19790	DL	N309U
	6	2016	1	1	1	5	January 01, 2016 00:00:00	DL	19790	DL	N989A1
QUARTER	7	2016	1	1	1	5	January 01, 2016 00:00:00	DL	19790	DL	N343N
MONTH	8	2016	1	1	1	5	January 01, 2016 00:00:00	DL	19790	DL	N920D
	9	2016	1	1	1	5	January 01, 2016 00:00:00	DL	19790	DL	N982A1
DAY_OF_MONTH	10	2016	1	1	1	5	January 01, 2016 00:00:00	DL	19790	DL	N915D
DAY_OF_WEEK	11	2016	1	1	1	5	January 01, 2016 00:00:00	DL	19790	DL	N392D/
	12	2016	1	1	1	5	January 01, 2016 00:00:00	DL	19790	DL	N683D/
DATE	13	2016	1	1	1	5	January 01, 2016 00:00:00		19790	DL	N347N
	14	2016	1	1	1	5	January 01, 2016 00:00:00		19790	DL	N703TV
UNIQUE_CARRIER	15	2016	1	1	1	5	January 01, 2016 00:00:00		19790	DL	N538US
AIRLINE_ID	16	2016	1	1	1	5	January 01, 2016 00:00:00		19790	DL	N913DE
	17	2016	1	1	1	5	January 01, 2016 00:00:00		19790	DL	N67160
CARRIER	18	2016	1	1	1	5	January 01, 2016 00:00:00		19790	DL	N357N
TAIL NUM	19	2016	1	1	1	5	January 01, 2016 00:00:00		19790	DL	N951D1
	20	2016	1	1	1	5	January 01, 2016 00:00:00		19790	DL	N904D8
FL_NUM	21	2016	1	1	1	5	January 01, 2016 00:00:00		19790	DL	N199DI
	22	2016	1	1	1	5	January 01, 2016 00:00:00		19790	DL	N951D1
ORIGIN_AIRPORT_ID	23	2016	1	1	1	5	January 01, 2016 00:00:00		19790	DL	N358NE
ORIGIN_AIRPORT_SEQ_ID	24	2016	1	1	1	0	January 01, 2016 00:00:00	DL	19790	DL	N378NV

CREATING A DATASET—COLUMNS AVAILABLE IN THE SELECTED FILE TYPE DATA SOURCE

5. Select the columns that you want to use in the dataset from the left pane.

Or,

Enter the keyword to search for the columns you want to use in the dataset in the **Columns** field, and then press **Enter**.

Advanced Data Discovery											1	
New Dataset												
Select columns												
ataset: Flight_Dataset	Dat	a preview						Data so	ource:FlightDa	ata_datasource	4-8-2018 - F	File/Te
olumns	#	DATE 🖨	UNIQUE CARRIER 🔶	FL NUM 🖨		DEST ⊜	DEP TIME 🖨	DEP DELAY 🖨	ARR TIME ⇔	ARR DELAY 🖨	AIR TIME 🖨	DIS
earch	a 1	January 01, 2016 00:00:00		1343	SLC	SEA	943	3.0	1047	-8.0	82.0	689.0
	<u> </u>	January 01, 2016 00:00:00		1345	ATL	JAC	943	1.0	1047	-16.0	214.0	1572
SELECTAL	Î	January 01, 2016 00:00:00		1304	LGA	MCO	1817	17.0	2106	-2.0	143.0	950.0
SELECT ALL		January 01, 2016 00:00:00		1327	CMH	LAX	623	-3.0	812	-19.0	267.0	1995
YEAR		January 01, 2016 00:00:00		1257	BNA	ATL	1448	86.0	1644	74.0	37.0	214
	6	January 01, 2016 00:00:00		1340	DTW	ROC	1533	-3.0	1718	27.0	50.0	296.
QUARTER	7	January 01, 2016 00:00:00		1322	MSY	DTW	1508	-5.0	1824	-18.0	116.0	926.
MONTH	8	January 01, 2016 00:00:00	DL	1307	RIC	ATL	1753	-7.0	1938	-16.0	88.0	481.
MONTH	9	January 01, 2016 00:00:00	DL	1335	EWR	DTW	1231	-9.0	1428	-8.0	94.0	488.
DAY OF MONTH	10	January 01, 2016 00:00:00	DL	1288	FLL	LGA	1230	0.0	1504	-25.0	137.0	1076
	11	January 01, 2016 00:00:00	DL	1273	ATL	JAX	2014	7.0	2112	-2.0	45.0	270.
DAY_OF_WEEK	12	January 01, 2016 00:00:00	DL	1298	MSP	LAX	1514	49.0	1653	28.0	192.0	1535
DATE	13	January 01, 2016 00:00:00	DL	1303	MSP	DEN	2158	0.0	2256	-12.0	96.0	680.
	14	January 01, 2016 00:00:00	DL	1285	ATL	PBI	1956	-1.0	2135	-8.0	81.0	545.
UNIQUE_CARRIER	15	January 01, 2016 00:00:00	DL	1291	SEA	ATL	742	-3.0	1524	-3.0	256.0	2182
	16	January 01, 2016 00:00:00	DL	1352	MIA	LGA	1309	-6.0	1554	-21.0	139.0	1096
AIRLINE_ID	17	January 01, 2016 00:00:00	DL	1294	RDU	ATL	1104	4.0	1221	-3.0	61.0	356.
CARRIER	18	January 01, 2016 00:00:00	DL	1280	MSP	SMF	1113	-2.0	1238	-33.0	187.0	1517
	19	January 01, 2016 00:00:00	DL	1297	SRQ	ATL	1619	-1.0	1753	-7.0	71.0	444.
TAIL_NUM	20	January 01, 2016 00:00:00	DL	1351	PBI	LGA	1222	-3.0	1458	-23.0	128.0	1035
FL_NUM	21	January 01, 2016 00:00:00	DL	1262	LAX	JFK	2248	-7.0	701	-14.0	279.0	2475
FL_NOW	22	January 01, 2016 00:00:00	DL	1297	ATL	SRQ	1407	0.0	1528	-9.0	63.0	444.
ORIGIN_AIRPORT_ID	23	January 01, 2016 00:00:00	DL	1332	BOI	SLC	1302	-6.0	1406	-7.0	52.0	290.0
	24	January 01, 2016 00:00:00	DL	1283	DEN	SLC	1912	0.0	2043	-4.0	57.0	391.0
ORIGIN_AIRPORT_SEQ_ID	+ •											•

CREATING A DATASET-DATA FROM THE SELECTED COLUMNS

The system displays the columns you have selected along with the data available in those columns in the **Data preview** pane.

6. Click **OK**.

The system displays a preview of the data based on the columns you have selected.

Smarten Advanced Data Dis	scovery									VVe	elcome Shyam R
Flight_Data	aset						8			<u>}</u>	
									Lastin	efreshed on October (J8, 2018 20:10:3
esult set 👻											
O DATE	Q []	UNIQUE_CARRIER Q	ES FL_NUMQ		T DEST Q	B DEP_TIME Q	DEP_DELAYQ	RES ARR_TIME Q	ARR_DELAY Q	III AIR_TIME Q	I.00 DISTAN
January 01, 201	16 00:00:00 DL		1343	SLC	SEA	943	3.0	1047	-8.0	82.0	689.0
January 01, 201	16 00:00:00 DL		1344	ATL	JAC	942	1.0	1134	-16.0	214.0	1572.0
January 01, 201	16 00:00:00 DL		1304	LGA	MCO	1817	17.0	2108	-2.0	143.0	950.0
January 01, 201	16 00:00:00 DL		1327	CMH	LAX	623	-3.0	812	-19.0	267.0	1995.0
January 01, 201	16 00:00:00 DL		1257	BNA	ATL	1446	86.0	1644	74.0	37.0	214.0
January 01, 201	16 00:00:00 DL		1340	DTW	ROC	1533	-3.0	1718	27.0	50.0	298.0
January 01, 201	16 00:00:00 DL		1322	MSY	DTW	1508	-5.0	1824	-18.0	116.0	926.0
January 01, 201	16 00:00:00 DL		1307	RIC	ATL	1753	-7.0	1938	-16.0	88.0	481.0
January 01, 201	16 00:00:00 DL		1335	EWR	DTW	1231	-9.0	1428	-6.0	94.0	488.0
January 01, 201	16 00:00:00 DL		1288	FLL	LGA	1230	0.0	1504	-25.0	137.0	1076.0
January 01, 201	16 00:00:00 DL		1273	ATL	JAX	2014	7.0	2112	-2.0	45.0	270.0
January 01, 201	16 00:00:00 DL		1298	MSP	LAX	1514	49.0	1653	28.0	192.0	1535.0
January 01, 201	16 00:00:00 DL		1303	MSP	DEN	2158	0.0	2256	-12.0	96.0	680.0
January 01, 201	16 00:00:00 DL		1285	ATL	PBI	1956	-1.0	2135	-8.0	81.0	545.0
January 01, 201	16 00:00:00 DL		1291	SEA	ATL	742	-3.0	1524	-3.0	256.0	2182.0
January 01, 201	16 00:00:00 DL		1352	MIA	LGA	1309	-8.0	1554	-21.0	139.0	1096.0
January 01, 201	16 00:00:00 DL		1294	RDU	ATL	1104	4.0	1221	-3.0	61.0	356.0
January 01, 201	16 00:00:00 DL		1260	MSP	SMF	1113	-2.0	1236	-33.0	187.0	1517.0
January 01, 201	16 00:00:00 DL		1297	SRQ	ATL	1619	-1.0	1753	-7.0	71.0	444.0
January 01, 201	16 00:00:00 DL		1351	PBI	LGA	1222	-3.0	1456	-23.0	128.0	1035.0
January 01, 201	16 00:00:00 DL		1262	LAX	JFK	2248	-7.0	701	-14.0	279.0	2475.0
January 01, 201	16 00:00:00 DL		1297	ATL	SRQ	1407	0.0	1528	-9.0	63.0	444.0
January 01, 201	16 00:00:00 DL		1332	BOI	SLC	1302	-8.0	1406	-7.0	52.0	290.0
January 01, 201	16 00:00:00 DL		1283	DEN	SLC	1912	0.0	2043	-4.0	57.0	391.0
January 01, 201	16 00:00:00 DL		1332	SLC	BOI	1105	-5.0	1213	-9.0	41.0	290.0
January 01, 201	16 00:00:00 DL		1287	SEA	KOA	1621	1.0	2033	-3.0	353.0	2688.0
January 01, 201	16 00:00:00 DL		1254	LAX	ATL	2256	1.0	547	-13.0	207.0	1947.0

PREVIEW—DATASET USING A FILE TYPE PROFILE

•

The dataset is now available in the repository.

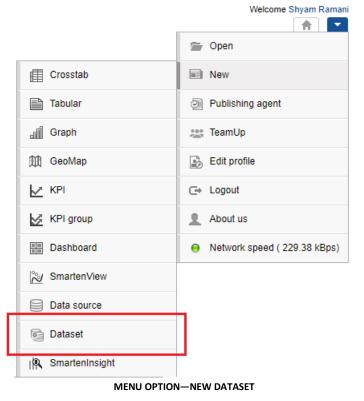
6.3 Creating a Dataset Using a Google Analytics Profile

About this task

Use this task to create a dataset using a Google Analytics profile.

Procedure

1 Click New -> Dataset from the menu.



© 2020, Smarten

The system displays the Create dataset page.

Smarten Advanced Data Discovery			Welcome Shyam Ra
			A
New Dataset			
Create dataset			
ame			
Dataset - 1			
escription			
elect data source			
Search Q			All objects Name 🔺
DATA SOURCE NAME	DATA SOURCE TYPE	CREATED	UPDATED
Age-Passthrough-ease-SpearmanCorrelation-Dataset	Dataset	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25- 01:05
Age-Passthrough-ease-SpearmanCorrelation-DataSource	File / Text	jalpa April 03, 2018 12:17:24	jalpa April 03, 2018 12:17:52- 01:05
Age-Purchase Relationship-PearsonCorrelation-Dataset	Dataset	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53- 01:05
		ialaa	ialaa

CREATING A NEW DATASET—THE CREATE DATASET SCREEN

- 2 Enter a name and description for the dataset in the **Name** and **Description** fields.
- 3 Select the Google Analytics profile you want to use to create a dataset from the list. Or,

Enter the keyword to search for the Google Analytics data source profile based on the keyword provided, and then press **Enter**.

The system displays the Google Analytics data source profiles that match the keyword you have provided.

4 Click Next.

The system displays the **Select Google Analytics parameters** page. The information about the measure group, dimensions, and measures related to the Google Analytics profile is available in the left pane.

Advanced Data Discovery	Welcome Shyam Ramani
New Dataset	
Select google analytics parameter	ers
Dataset : Test-Google	Data source : GA_Datasource_6-8-2018 - Other/Google Analytics
Measure group User	
Dimensions and measures Search Q D User Type D Count of Sessions D Days Since Last Session D User Defined Value D User Bucket User Bucket	Double click on dimension/measure name to add
M Users M New Users M % New Sessions M 1 Day Active Users M 7 Dav Active Users OK BACK CANCEL	*
www.smarten.com	Powered by ElegantJ BI Version 5.0.0.019

CREATING A DATASET—SELECTING GOOGLE ANALYTICS PARAMETERS

- Select the measure group you want to use from the Measure group list.
 The system displays the dimensions and measures available for the selected measure group in the Dimensions and measures section.
- 6 Double-click the dimensions and measures you want to use from the **Dimensions and measures** section.

Note:

You can select a maximum of 7 dimensions and 10 measures to retrieve data from the Google Analytics profile due to Google Analytics API restrictions.

The selected dimensions and measures are displayed in the right pane.

New Dataset			
Select google analytics parame	ters		
ataset : Test-Google		Da	ta source : GA_Datasource_6-8-2018 - Other/Google An
leasure group	Selected dimension(s)	Selected measure(s)	Date range
Time	Source / Medium	- Users	Absolute Relative
mensions and measures	- Country	- New Users	
arch	Q City	- Sessions	Start date
arch	- Date Hour and Minute	- Bounces	iiii 24-09-2018
Date	Î	- Session Duration	End date
) Year		- Goal Completions	
Month of the year			
Week of the Year			
) Day of the month			
) Hour		*	PREVI
) Minute			
Month Index	# TSOURCE / MEDIUM & TCOUN	$TRY \Leftrightarrow TCITY \Leftrightarrow TDATE HOUR AND MINUTE \Leftrightarrow$	
) Week Index) Day Index			
Minute Index			
Day of Week			
Day of Week Name Hour of Day Date Hour and Minute			

CREATING A DATASET—SELECTED DIMENSIONS AND MEASURES FROM THE GOOGLE ANALYTICS PROFILE

- 7 Repeat steps 5 and 6 to add dimensions and measures from more than one measure group.
- 8 Select an option to specify a time period for which you want to retrieve data.

The following options are available:

- **Absolute**: Select this option to specify an exact date range. Specify a start date and an end date in the **Start date** and **End date** fields.
- **Relative**: Select this option to specify a relative time period. Select an option from the **Period** list. The following table lists and describes the options available in the **Period** list.

Option	Description
Today	Select this option to retrieve data from the Google Analytics profile for today. For example, if today is 10 th August 2018, the data will be retrieved for 10 th August 2018.
Yesterday	Select this option to retrieve data from the Google Analytics profile for yesterday. For example, if today is 10 th August 2018, the data will be retrieved for 9 th August 2018.
This Week	Select this option to retrieve data from the Google Analytics profile for the current week starting from Monday until today. For example, if today is 10 th August 2018, the data will be retrieved from Monday, 6 th August 2018 until 10 th August 2018.
Last Week	Select this option to retrieve data from the Google Analytics profile for the last week. The last week comprises the time period starting from the Monday and ending on Sunday of the

previous week. For example, if today is 10 ^m August 2018, the data will be retrieved from Monday, 30 ^m July 2018 until 5 ^m August 2018.This MonthSelect this option to retrieve data from the Google Analytics profile for the current month starting from the first day of the month until today. For example, if today is 10 ^m August 2018.Last MonthSelect this option to retrieve data from the Google Analytics profile for the last month. The last month comprises the time period starting from the first day and ending on the last day of the data will be retrieved for the period starting from the first day of the used to the at a will be retrieved for the period starting from 1 st JulyThis QuarterSelect this option to retrieve data from the Google Analytics profile for the current quarter. The time period for the current quarter starts from the first day of the quarter until today. For example, if today is 10 ^m August, the data will be retrieved for the period starting from 1 st July until 10 ^m August.Last QuarterSelect this option to retrieve data from the Google Analytics profile for the current quarter. The time period for the previous quarter. The time period for the previous quarter starts from the first day of that quarter until the last day of the quarter. The time period for the previous quarters three months. The time period for the previous quarter starts from the first day of the quarter until until 30 th July until 30 th July until 30 th July until 30 th July.Last QuarterSelect this option to retrieve data from the Google Analytics profile for the last three months. The time period for the current quarter starts from the first day of the previous month. For example, if today is 10 th August, the period for the last three months would be from 1 st May until 31 st		
profile for the current month starting from the first day of the month until today. For example, if today is 10 th August 2018, the data will be retrieved from 1 st August 2018 until 10 th August 2018.Last MonthSelect this option to retrieve data from the Google Analytics profile for the last month. The last month comprises the time period starting from the first day and ending on the last day of the previous month. For example, if today is 10 th August 2018, the data will be retrieved for the period starting from 1 st July until 31 st July.This QuarterSelect this option to retrieve data from the Google Analytics profile for the current quarter. The time period for the current quarter starts from the first day of the quarter until today. For example, if today is 10 th August, the data will be retrieved for the period starting from 1 st July until 31 th July until 30 th Jugust, the data will be retrieved for the previous quarter starts from the first day of that quarter until the last day of the quarter. The time period for the previous quarter starts from the first day of that quarter until the last day of the quarter. For example, if today is 10 th August, the data will be retrieved for the period starting from 1 st April until 30 th June.Last 3 MonthsSelect this option to retrieve data from the Google Analytics profile for the last three months. The time period for the current quarter starts from the first day of the three months before the current month until the last day of the previous month. For example, if today is 10 th August, the period for the last three months would be from 1 st Anyu until 31 st July.Last 3 MonthsSelect this option to retrieve data from the Google Analytics profile for the last year. The time period for the last there months before the current		data will be retrieved from Monday, 30 th July 2018 until 5 th
profile for the last month. The last month comprises the time period starting from the first day and ending on the last day of the previous month. For example, if today is 10 th August 2018, the data will be retrieved for the period starting from 1 st July until 31 st July.This QuarterSelect this option to retrieve data from the Google Analytics profile for the current quarter. The time period for the current quarter starts from the first day of the quarter until today. For example, if today is 10 th August, the data will be retrieved for the period starting from 1 st July until 10 th August.Last QuarterSelect this option to retrieve data from the Google Analytics profile for the previous quarter. The time period for the previous quarter starts from the first day of that quarter until the last day of the quarter. For example, if today is 10 th August, the data will be retrieved for the period starting from 1 st April until 30 th June.Last 3 MonthsSelect this option to retrieve data from the Google Analytics profile for the last three months. The time period for the current quarter starts from the first day of the previous month. For example, if today is 10 th August, the elast three months would be from 1 st May until 31 st July.Last YearSelect this option to retrieve data from the Google Analytics profile for the last year. The time period for the last day of the previous year. For example, if today is 10 th August 2018, the period for last year would be from 1 st January 2017 until 31 st December 2017.Last 7 DaysSelect this option to retrieve data from the Google Analytics profile for the last seven days. The time period for the last seven days would be from 4 st January 2017 until 31 st Jecember 2017.Last 30 DaysSelect this op	This Month	profile for the current month starting from the first day of the month until today. For example, if today is 10 th August 2018, the data will be retrieved from 1 st August 2018 until 10 th August
profile for the current quarter. The time period for the current quarter starts from the first day of the quarter until today. For example, if today is 10 th August, the data will be retrieved for the period starting from 1 st July until 10 th August.Last QuarterSelect this option to retrieve data from the Google Analytics profile for the previous quarter. The time period for the previous quarter starts from the first day of that quarter until the last day of the quarter. For example, if today is 10 th August, the data will be retrieved for the period starting from 1 st April until 30 th June.Last 3 MonthsSelect this option to retrieve data from the Google Analytics profile for the last three months. The time period for the current quarter starts from the first day of the previous month. For example, if today is 10 th August, the period for the last three months would be from 1 st May until 31 st July.Last YearSelect this option to retrieve data from the Google Analytics profile for the last year. The time period for the last day of the previous month. For example, if today is 10 th August, the period for the last three months would be from 1 st May until 31 st July.Last YearSelect this option to retrieve data from the Google Analytics profile for the last year. The time period for the last day of the previous year. For example, if today is 10 th August, the period for last year would be from 1 st January 2017 until 31 st December 2017.Last 7 DaysSelect this option to retrieve data from the Google Analytics profile for the last seven days. The time period for the last seven days would be from 4 th August, the period for the last seven days would be from 4 th August, the period for the last 30 days ranges from the 30 days. The time period for the last 30 da	Last Month	profile for the last month. The last month comprises the time period starting from the first day and ending on the last day of the previous month. For example, if today is 10 th August 2018, the data will be retrieved for the period starting from 1 st July
profile for the previous quarter. The time period for the previous quarter starts from the first day of that quarter until the last day of the quarter. For example, if today is 10 th August, the data will be retrieved for the period starting from 1 st April until 30 th June.Last 3 MonthsSelect this option to retrieve data from the Google Analytics profile for the last three months. The time period for the current quarter starts from the first day of the three months before the current month until the last day of the previous month. For example, if today is 10 th August, the period for the last three months would be from 1 st May until 31 st July.Last YearSelect this option to retrieve data from the Google Analytics 	This Quarter	profile for the current quarter. The time period for the current quarter starts from the first day of the quarter until today. For example, if today is 10 th August, the data will be retrieved for
profile for the last three months. The time period for the current quarter starts from the first day of the three months before the current month until the last day of the previous month. For example, if today is 10 th August, the period for the last three months would be from 1 st May until 31 st July.Last YearSelect this option to retrieve data from the Google Analytics profile for the last year. The time period for the last day of the previous year. For example, if today is 10 th August 2018, the period for last year would be from 1 st January 2017 until 31 st December 2017.Last 7 DaysSelect this option to retrieve data from the Google Analytics profile for the last seven days. The time period for the last seven days ranges from the seven days before today. For example, if today is 10 th August.Last 30 DaysSelect this option to retrieve data from the Google Analytics profile for the last 30 days. The time period for the last 30 days ranges from the 30 days before today. For example, if today is 10 th August, the period for the last 30 days ranges from the 30 days before today. For example, if today is 10 th August, the period for the last 30 days ranges from the 30 days before today. For example, if today is 10 th August, the period for the last 30 days ranges from the 30 days before today. For example, if today is 10 th August, the period for the last 30 days ranges from the 30 days would be from 12 th July until 10 th August.	Last Quarter	profile for the previous quarter. The time period for the previous quarter starts from the first day of that quarter until the last day of the quarter. For example, if today is 10 th August, the data will be retrieved for the period starting from 1 st April
profile for the last year. The time period for the last year starts from the first day of the previous year to the last day of the previous year. For example, if today is 10 th August 2018, the period for last year would be from 1 st January 2017 until 31 st December 2017.Last 7 DaysSelect this option to retrieve data from the Google Analytics profile for the last seven days. The time period for the last seven days ranges from the seven days before today. For example, if today is 10 th August, the period for the last seven days would be from 4 th August until 10 th August.Last 30 DaysSelect this option to retrieve data from the Google Analytics profile for the last 30 days. The time period for the last 30 days ranges from the 30 days before today. For example, if today is 10 th August, the period for the last 30 days ranges from the 30 days before today. For example, if today is 10 th August, the period for the last 30 days ranges from the 30 days before today. For example, if today is 10 th August, the period for the last 30 days ranges from the 30 days before today. For example, if today is 10 th August, the period for the last 30 days would be from 12 th July until 10 th August.	Last 3 Months	profile for the last three months. The time period for the current quarter starts from the first day of the three months before the current month until the last day of the previous month. For example, if today is 10 th August, the period for the
Last 7 Daysprofile for the last seven days. The time period for the last seven days ranges from the seven days before today. For example, if today is 10 th August, the period for the last seven days would be from 4 th August until 10 th August.Last 30 DaysSelect this option to retrieve data from the Google Analytics profile for the last 30 days. The time period for the last 30 days ranges from the 30 days before today. For example, if today is 10 th August, the period for the last 30 days would be from 12 th July until 10 th August.Select this option to retrieve data from the Google Analytics Select this option to retrieve data from the Google Analytics Select this option to retrieve data from the Google Analytics	Last Year	profile for the last year. The time period for the last year starts from the first day of the previous year to the last day of the previous year. For example, if today is 10 th August 2018, the period for last year would be from 1 st January 2017 until 31 st
Last 30 Daysprofile for the last 30 days. The time period for the last 30 days ranges from the 30 days before today. For example, if today is 10 th August, the period for the last 30 days would be from 12 th July until 10 th August.Select this option to retrieve data from the Google Analytics	Last 7 Days	profile for the last seven days. The time period for the last seven days ranges from the seven days before today. For example, if today is 10 th August, the period for the last seven
Last 60 Days Select this option to retrieve data from the Google Analytics	Last 30 Days	profile for the last 30 days. The time period for the last 30 days ranges from the 30 days before today. For example, if today is 10 th August, the period for the last 30 days would be from 12 th
	Last 60 Days	Select this option to retrieve data from the Google Analytics

	profile for the last 60 days. The time period for the last 60 days ranges from the 60 days before today. For example, if today is 10 th August, the period for the last 60 days would be from 12 th June until 10 th August.
Last 90 Days	Select this option to retrieve data from the Google Analytics profile for the last 90 days. The time period for the last 90 days ranges from the 90 days before today. For example, if today is 10 th August, the period for the last 90 days would be from 13 th May until 10 th August.
Last 180 Days	Select this option to retrieve data from the Google Analytics profile for the last 180 days. The time period for the last 180 days ranges from the 180 days before today. For example, if today is 10 th August, the period for the last 180 days would be from 11 th February until 10 th August.
Last 365 Days	Select this option to retrieve data from the Google Analytics profile for the last 365 days. The time period for the last 365 days ranges from the 365 days before today. For example, if today is 10 th August 2018, the period for the last 365 days would be from 11 th August 2017 until 10 th August 2018.

9 Click **PREVIEW** to view a preview of the data retrieved from the Google Analytics profile based on the dimensions and measures you have selected.

Smarten Advanced Data Discovery New Dataset									A
Select google analytics param	neters								
taset : Test-Google						Data source :	GA_Datasource_	6-8-2018 - Oth	er/Google An
easure group		Selected dimension(s)		Sel	lected measure(s)		Date range		é
Time	•	- Source / Medium			Users		Absolute	Re	lative
mensions and measures		- Country		1 1	New Users				
nensions and medsures	I				Sessions		Start date		
arch	Q	- City					14-05-20)18	
	-	- Date Hour and Minute			Bounces				
Date				_	Session Duration		End date		
Year				-	Goal Completions		29-05-20)18	
Month of the year									
Week of the Year									
Day of the month									
Day of the month									
Hour					÷				
) Hour) Minute					<u>*</u>				PREVIEW
 Hour Minute Month Index	#	€ T SOURCE MEDIUM	≙ ⊤COUNTRY ≙	TCITY #		ute 🔿 📧 Users	≙ ाखNEW USER	S 🚖 🖂 SESSIO	
 Minute Month Index Week Index	#		· 😐 · ·		ODATE_HOUR_AND_MINU	·	·		NS ⇔ 123 BOU
 Minute Month Index Week Index	#	(direct) / (none)	⇔ ⊤COUNTRY ⇔ India India	⊤ CITY ∉ Mumbai Ahmedabad	May 22, 2018 19:27:00	UTE 🔶 📧 USERS	⇔ 123 NEW_USER	S ⇔ 123 SESSIC	
] Hour] Minute] Month Index] Week Index] Day Index	# 1 2 3		India	Mumbai	May 22, 2018 19:27:00 May 18, 2018 12:10:00	1	0	1	NS ⇔ ाट∋BOU
Hour Minute Month Index Week Index Day Index Minute Index	# 1 2 3 4	(direct) / (none) (direct) / (none)	India India	Mumbai Ahmedabad	May 22, 2018 19:27:00 May 18, 2018 12:10:00	1		1 0	NS ⇔ Ten BOU
Hour Minute Month Index Week Index Day Index Minute Index Day of Week	# 1 2 3 4 5	(direct) / (none) (direct) / (none) (direct) / (none)	India India India	Mumbai Ahmedabad Ahmedabad	May 22, 2018 19:27:00 May 18, 2018 12:10:00 May 28, 2018 20:17:00	1 1 1 1	0 0 0	1 0 0	NS ⇔ 123 BOU 1 0 0
Hour Minute Month Index Week Index Day Index Minute Index Day of Week Day of Week Name	# 1 2 3 4 5 6	(direct) / (none) (direct) / (none) (direct) / (none) smarten.com / referral	India India India Greece	Mumbai Ahmedabad Ahmedabad Athens	May 22, 2018 19:27:00 May 18, 2018 12:10:00 May 28, 2018 20:17:00 May 16, 2018 13:16:00	1 1 1 1 1	0 0 0 0 0	1 0 0 1	NS ⇔ 123BOU 1 0 0 0
Hour Minute Month Index Week Index Day Index Minute Index Minute Index Day of Week Day of Week Name	# 1 2 3 3 4 4 5 6 6 7 7	(direct) / (none) (direct) / (none) (direct) / (none) (direct) / (none) (direct) / (none)	India India India Greece India	Mumbai Ahmedabad Ahmedabad Athens Chennai	May 22, 2018 19:27:00 May 18, 2018 12:10:00 May 28, 2018 20:17:00 May 16, 2018 13:16:00 May 28, 2018 16:27:00	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 0 0 1 1 1	NS ⇔ 1 0 0 0 0 0
Hour Minute Month Index Week Index Day Index Minute Index Day of Week Day of Week Name Hour of Day	# 1 2 3 4 5 6 7 7 8	(direct) / (none) (direct) / (none) (direct) / (none) smarten.com / referral (direct) / (none) (direct) / (none)	India India India Greece India India	Mumbai Ahmedabad Ahmedabad Athens Chennai Ahmedabad	May 22, 2018 10:27:00 May 18, 2018 12:10:00 May 28, 2018 20:17:00 May 16, 2018 13:16:00 May 28, 2018 10:27:00 May 21, 2018 10:27:00	1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 1 1 1 0	NS ⇔ 1 0 0 0 0 0 0
Hour Minute Month Index Week Index Day Index Minute Index Day of Week Day of Week Name Hour of Day Date Hour and Minute	# 1 2 3 4 5 6 7 8 9	(direct) / (none) (direct) / (none) (direct) / (none) smarten.com / referral (direct) / (none) (direct) / (none)	India India India Greece India India	Mumbai Ahmedabad Ahmedabad Athens Chennai Ahmedabad Mumbai	May 22, 2018 10-27:00 May 18, 2018 12:10:00 May 28, 2018 20:17:00 May 16, 2018 12:16:00 May 28, 2018 10:27:00 May 21, 2018 10:00 May 14, 2018 10:00:00	1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 1 1 1 1 0 0 0	NS ⇔ EBBOU 1 0 0 0 0 0 0
Day of the month Hour Minute Month Index Week Index Day Index Munute Index Day of Week Day of Week Name Hour of Day Date Hour and Minute Month of Year	# 1 2 3 4 5 6 6 7 7 8 8 9	(direct) / (none) (direct) / (none) (direct) / (none) smarten.com / referral (direct) / (none) (direct) / (none) (direct) / (none) google / organic	India India India Greece India India India Austria	Mumbai Ahmedabad Ahmedabad Athens Chennai Ahmedabad Mumbai Wattens	May 22, 2018 16:27:00 May 18, 2018 12:10:00 May 28, 2018 20:17:00 May 18, 2018 12:10:00 May 18, 2018 13:18:00 May 28, 2018 16:27:00 May 21, 2018 16:27:00 May 22, 2018 14:27:00	1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 1	1 0 1 1 1 1 0 0 0 1	NS ⇔ 1 0 0 0 0 0 0 0 0 0 1

CREATING A DATASET—PREVIEW OF THE DATA RETRIEVED FROM THE GOOGLE ANALYTICS PROFILE

10 Click **OK**.

The system retrieves data from the Google Analytics profile.

Te	st-Google				8 4	! ⊡ : ①	··· 🔒 🛰	iii 🕑 🏶		
								Data e:	ctraction is in p	progress
Res	ult set 👻									
	T SOURCE_MEDIUM Q		т спу 🔍 🔍	O DATE_HOUR_AND_MINUTE Q	123 USERS Q	123 NEW_USERS Q	ES SESSIONS Q	BOUNCES Q	LO SESSIO	ON_DUR
1	oogle / cpc	India	Siliguri	September 25, 2018 07:54:00	1	0	1	1	0.0	
	oogle / cpc	India	Jaipur	September 24, 2018 17:50:00	1	0	1	1	0.0	
1	oogle / organic	Czechia	Prague	September 24, 2018 13:35:00	1	1	1	0	100.0	
1	oogle / cpc	India	Chandigarh	September 24, 2018 07:56:00	1	1	1	0	66.0	
6	oogle / organic	United States	New York	September 26, 2018 04:58:00	1	1	1	1	0.0	
6	oogle / organic	United Kingdom	Coventry	September 24, 2018 19:18:00	1	1	1	0	58.0	
6	oogle / organic	India	Ajmer	September 26, 2018 19:43:00	1	1	1	1	0.0	
6	oogle / organic	India	New Delhi	September 24, 2018 15:17:00	1	1	1	1	0.0	
6	oogle / cpc	India	Patna	September 24, 2018 08:02:00	1	0	1	1	0.0	
6	oogle / cpc	India	Kolkata	September 26, 2018 02:17:00	1	0	1	1	0.0	
	oogle / organic	United Kingdom	London	September 25, 2018 15:01:00	1	1	1	1	0.0	
6	oogle / cpc	India	Siliguri	September 24, 2018 22:49:00	1	0	1	1	0.0	
6	oogle / organic	italy	Milan	September 25, 2018 18:33:00	1	1	1	1	0.0	
	uora.com / referral	Singapore	Singapore	September 26, 2018 11:16:00	1	0	0	0	0.0	
	direct) / (none)	India	Agra	September 26, 2018 18:18:00	1	0	1	1	0.0	
	oogle / organic	Croatia	Zadar	September 24, 2018 16:54:00	1	0	0	0	0.0	
	oogle / organic	India	Chennai	September 26, 2018 10:38:00	1	1	1	1	0.0	
	oogle / organic	India	Pune	September 25, 2018 13:15:00	1	0	1	0	22.0	
-	oogle / cpc	India	Chandigarh	September 25, 2018 09:14:00	1	0	1	1	0.0	
	direct) / (none)	India	Ahmedabad	September 28, 2018 16:14:00	1	0	0	0	0.0	
	oogle / organic	Pakistan	Islamabad	September 28, 2018 01:02:00	1	0	0	0	0.0	
•	oogle / cpc	India	Ahmedabad	September 24, 2018 20:29:00	1	0	1	1	0.0	
	oogle / organic	Zimbabwe	Harare	September 24, 2018 16:09:00	1	1	1	1	0.0	
	0.0.0.128 / referral	India	Ahmedabad	September 24, 2018 18:02:00	1	0	1	0	76.0	
•	oogle / organic	India	Ahmedabad	September 24, 2018 14:54:00	1	1	1	0	19.0	
•	oogle / organic	United States	Phoenix	September 25, 2018 03:06:00	1	1	1	1	0.0	
	oogle / organic	India	Jammu	September 24, 2018 13:05:00	1	0	0	0	0.0	
	Email-Marketing / Email-Marketing	India	Mumbai	September 24, 2018 12:59:00	1	1	1	1	0.0	
	oogle / organic	United Kingdom	Sutton	September 25, 2018 15:14:00	1	1	1	1	0.0	

PREVIEW—DATASET USING A GOOGLE ANALYTICS PROFILE

The dataset is now available in the repository.

6.4 Creating a Dataset Using an R Script Data Source

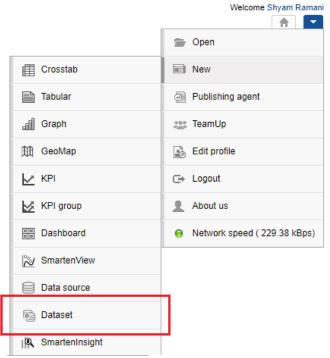
You can use an existing R Script data source and create a dataset to retrieve the required data from that data source.

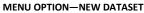
About this task

Use this task to create a dataset using an existing R Script data source.

Procedure

1. Click **New** -> **Dataset** from the menu.





The system displays the **Create dataset** page.

Advanced Data Dis	scovery					Welcome Shyam Ran
New Datas	set					
Create datas	et					
Name						
Dataset_From_	RScript					
Description						
Select data sour	ce					
Search	Q				All objects	Name 🔺
			April 03, 2018 13:44:25	April 03	2018 13:45:09	1
Prod	uct Bundling-Association Rule Mining-Dataset	Dataset	jalpa April 03, 2018 13:48:46	jalpa May 14	2018 11:44:23	
Prod	uct Bundling-Association Rule Mining-DataSource	File / Text	jalpa April 03, 2018 13:47:51	jalpa April 03	, 2018 13:47:51	
R dat	tasource	Other / R script	jalpa June 19, 2018 16:36:15	admin October	05, 2018 20:13:38	
R Pro	ofile	Other / R script	jalpa June 12, 2018 10:23:20	jalpa June 12	, 2018 10:23:20	
Rad	wine quality prediction.Rinary Classification Decision tree.Dataset	Datasat	jalpa	jalpa		Ļ
NEXT CAN	CEL					

CREATING A NEW DATASET—THE CREATE DATASET SCREEN

- 2. Enter a name and description for the dataset in the Name and Description fields.
- Select the R Script profile you want to use to create a dataset from the list. Or,

Enter the keyword to search for the R Script data source profile based on the keyword provided, and then press **Enter**.

The system displays the R Script data source profiles that match the keyword you have provided.

4. Click Next.

The system displays the **variable configuration** page. This page is rendered based on the Input variables, Output variables, and Query variables configured in the selected R Script data source.

Advanced Data Discove	ery			Welcome Shyam Ramani
New Dataset	t			
Dataset: Dataset_F	From_RScript			Data source: R datasource - Other/R
Input variables	Output variables	Query parameters (defaul	values)	
Input data : SE xVals	ELECT			
		0		•
				÷
				PREVIEW



5. Input variables are the parameters in which values are passed to the R Script from Smarten.

The options available on the Input variables tab are displayed based on the Input variables configured in the R Script data source. The following elements are available based on the Input variables configured in the data source:

• Input data: This option is available only if the Single column or Multi columns is configured as Input variables in the data source. You can click the SELECT button to select the dataset from which you want to pass values to the R Script.

Smarten Advanced Data Discovery		
New Dataset	Data Q Name ~	
taset: Dataset_From_RScript	NAME CR	Data source: R datasource - Othe
Input variables Output variables Query	D 🕞 Age-Passthrough-ease-SpearmanCorrelation-Dataset jalpa jalp.	
nput data : SELECT	Garce-Purchase Relationship-PearsonCorrelation-Dataset jalpa jalp-	
Vals	Cadila Product Data Set Rajesh Mehta Raju	
	Cadila Product master Rajesh Mehta Raju	
	Credit card Dataset jaipa jaip.	
	CustomerPaymentDetails_old Ritu Gupta Ritu	
	Education wise balance difference-Dataset jalpa jalpa	
	EJBI-SSDP-GA-DataSet-All-Sessions-1-Feb-2010-to-30-Mav-2018-Jaloa Saniav Patel San	PREVIEW
	OK CANCEL	

OK BACK CANCEL

CREATING A DATASET—SELECTING A DATASET

• Single column: If this option is configured in the data source, the system displays a list that is populated with the columns available in the dataset you have selected in the Input data. You can select a column, and the system will pass data of that column to the R Script.

New Dataset		1
taset: Dataset_From_Rscri	pt	Data source: R datasource -
Input variables Output v	ariables Query parameter	s (default values)
nput data : Loan_dataset_19-	10-2018 CHANGE	
«Vals		
	0	0
Debt_to_income_ratio	+	
Verification_status	+	
Annual_income	+	
Home_ownership_status	+	
Employment_length	+	
Grade	+	
Loan_amount	+	
/Vals		
Debt_to_income_ratio		T
zVals		
		<u>*</u>

INPUT VARIABLES—SINGLE COLUMN

For example, **yVals** in the image above indicates the single column input type for the Input variable configured in the data source.

• **Multi columns**: If this option is configured in the data source, the system displays a list that is populated with the columns available in the dataset you have selected in the **Input data**. You can select more than one column, and the system will pass data of those columns to the R Script.

Advanced Data Discovery			Welcome Shyam Ramani
New Dataset			
Dataset: Dataset_From_Rscript			Data source: R datasource - Other/R
Input variables Output vari	iables Query parameters (de	fault values)	
Input data : Loan_dataset_19-10	-2018 CHANGE		
xVals			
	0	0	
Debt_to_income_ratio	+		
Verification_status	+		
Annual_income	+		
Home_ownership_status	+		
Employment_length	+		
Grade	+		
Loan_amount	+		
yVals			
Debt_to_income_ratio		T	
zVals			
		<u>*</u>	PREVIEW
OK BACK CANCEL			

INPUT VARIABLES-MULTI COLUMNS

For example, **xVals** in the image above indicates the multi columns input type for the Input variable configured in the data source.

Advanced Data Discovery				Welcome Sh	hyam Ramani
New Dataset					
Dataset: Dataset_From_Rscript				Data source: R datasourc	e - Other/F
Input variables Output variable	es Query param	eters (default values)			
Input data : Loan_dataset_19-10-20	18 CHANGE				
xVals					
	0		0		
Debt_to_income_ratio	+				
Verification_status	+				
Annual_income	+				
Home_ownership_status	+				
Employment_length	+				
Grade	+				
Loan_amount	+				
yVals					
Debt_to_income_ratio					
zVals					
zvais					
			-		
				P	REVIEW
OK BACK CANCEL					

Single value: If this option is configured in the data source, you can manually enter a value, and the system will pass that value to the R Script.



For example, **zVals** in the image above indicates the single value input type for the Input variable configured in the data source.

- 6. Click the **Output Variables** tab. Output variables are the variables that are defined in the R Script configured in the data source. You can select the appropriate Output variable to create the dataset. The system retrieves data from the R Script based on the Output variable you have specified and creates the dataset. The following options are available for each Output variable configured:
 - **Output data as an individual table**: Select this option to create the dataset from the output table.
 - Append output data as a column: Select this option to append the output data as a column along with the input data. The system appends the output data to the input data and then creates the dataset.
 - Append output data as a row: Select this option to append the output data as rows after the input data. The system appends the output data rows after the input data and then creates the dataset.

Advanced Data Discovery				Welcome Shyam Ramani
New Dataset				
Dataset: test				Data source: R datasource - Other/R
Input variables	Output variables	Query parameters (de	efault values)	
Predicted Loa	an Amount Output	data as individual table	•	
Actual Loan	Amount Output da	ata as individual table	•	
				PREVIEW
OK BACK CA	NCEL			

CREATING A NEW DATASET—SELECTING OUTPUT VARIABLES

7. Click the **Query parameters** tab. Query variables are parameters that are used to query the R script model to retrieve data based on specific criteria. You can set default values for these parameters while creating a dataset.

The options displayed in this tab are variables configured for query parameters in the data source that you have used to create the dataset.

Advanced Data Discovery		Welcome Shyam Ramani
New Dataset		
Dataset: Dataset_From_RScript		Data source: R datasource - Other/F
Input variables Output variables G	uery parameters (default values)	
grade		
Employment length		
home_status		
annual_income		
verification_status		
dti		
	<u>*</u>	PREVIEW
OK BACK CANCEL		

CREATING A NEW DATASET—SPECIFYING QUERY PARAMETERS

8. Click **PREVIEW** to view a preview of the data retrieved from the R script based on the parameters provided.

Advanced Data Discovery			Welcome Shyam Ramani
New Dataset			
Dataset: Dataset_From_RScript			Data source: R datasource - Other/R
Input variables Output variables	Query parameters (default values)		
home_status			*
RENT			
annual_income			
100000			
verification_status			
Not Verified			
dti			
21			
1	-		
			PREVIEW
# ⊤GRADE ⇔ ⊤EMP_LENGTH	⇔ ŢHOME_STATUS ⇔ IIII ANNUAL_II	NCOME \Leftrightarrow TVERIFICATION_STATUS	\Leftrightarrow Imdti \Leftrightarrow Imloan_amount \Leftrightarrow
1 B 1 to 2 years	RENT 100000.0	Not Verified	21.0 6515.424871021605
L			



CREATING A NEW DATASET—PREVIEW OF THE SAMPLE DATA

9. Click **OK**.

The system displays a preview of the data based on the columns you have selected.

Advanced Data Discovery					Welcome Shyam Ramani
Dataset_From_RScript				<u>}</u>	
Result set 👻				Data e	extraction is in progress 🛛 🕵
# T GRADE Q T EMP_LENGTH Q	T HOME_STATUS Q			DTI Q	LOAN_AMOUNT Q
1 B 1 to 2 years	RENT	100000.0	Not Verified	21.0	7150.763437046606

PREVIEW—DATASET CREATED USING AN EXISTING DATASET

The dataset is now available in the repository.

6.5 Creating a Dataset Using an SAP Data Source

You can use an SAP profile to create a dataset and retrieve data from that profile.

About this task

Use this task to create a dataset using an SAP profile.

Procedure

1. Click **New** -> **Dataset** from the menu.

	Welcome Shyam Ramani
	🚔 Open
Crosstab	New New
Tabular	Publishing agent
di Graph	*** TeamUp
鈕 GeoMap	Edit profile
	⊂→ Logout
KPI group	1 About us
Dashboard	O Network speed (229.38 kBps)
SmartenView	
Data source	
Cataset	
♠ SmartenInsight	
MENU OPTI	ON—NEW DATASET

The system displays the **Create dataset** page.

Smart	R0 Data Discovery				Welcome admir
New D	ataset				
Create d	lataset				
Name					
Dataset -	1				
Description					
	DATA SOURCE NAME	DATA SOURCE TYPE	CREATED	UPDATED	
•	SAP Data Source	Other / SAP	admin 01-Aug-2017 17:11:13	admin 12-045-2018 15:45:42- 01:05	
NEXT	CANCEL				
	CREATING A NEW DATASET	-THE CREATE	E DATASET SCREEN		

- 2. Enter a name and description for the dataset in the **Name** and **Description** fields.
- 3. Select the SAP profile you want to use to create a dataset from the list.
 - Or,

Enter the keyword to search for the SAP profile based on the keyword provided, and then press **Enter**.

The system displays the SAP profile that matches the keyword you have provided.

4. Select a SAP BAPI you want to use in the dataset from the SAP BAPI(s) list.

Advanced Data Discovery			Welcome adm
New Dataset			
Select SAP BAPI parameter(s)			
Dataset : SAP Dataset		1	ata source : SAP Data Source - Other/SAP
SAP BAPI(S)	Selected BAP1 :		
Search Q			
∰ /BA1/BAPL_F4_FXV_CHANGE			
/BA1/BAPI_F4_FXV_CREATE			
/BA1/BAPI_F4_FXV_EX_CHK			
/BA1/BAPI_F4_FXV_GET_LIST			
/BA1/BAPL_F4_FXV_MODIFY			
III /BA1/BAPI_F4_FX_CHANGE			
III /BA1/BAPI_F4_FX_CREATE		÷	
////////////////////////////////////			
/BA1/BAPI_F4_FX_GET_LIST			
/BA1/BAPI_F4_FX_MODIFY			
III /BA1/BAPI_F4_IRR_CHANGE			
/////BA1/BAPI_F4_IRR_CREATE			
/BA1/BAPI_F4_IRR_EX_CHK			
/BA1/BAPI_F4_IRR_GET_LIST			
III /BA1/BAPI_F4_IRR_MODIFY .			
OK BACK CANCEL			

CREATING A NEW DATASET—SELECTING THE SAP BAPI(S)

5. Click the **Output Parameter(s)** tab.

The output parameter is the export parameter that a BAPI returns as an output table. A BAPI can have more than one output parameter. You can select the required output parameters that you want to use to create the dataset.

6. Select output parameters from the list within the **Output Parameter(s)** tab.

The system displays values in the **Columns** section based on the output parameter you have selected from the list.

Smarten Advanced Data Decempy		Welcome adres
New Dataset		
Select SAP BAPI parameter(s)		
Dataset : SAP Dataset SAP BAPI(s)	Selected BAPI : ZSD_SALESDETAILS_BAPI	Data source : SAP Data Source - Other/SAP
SalesDe	Output Parameter(s) Input Parameter(s)	Ø
∰ ZSD_SALESOETALS_BAPI	GT_DATA(T) ▼ Columns ■ ■ MTBEZ ■ ■ MAXTX ■ ■ BEZEI ■ ■ ORTOS ■ ■ NAME1 ■	
	•	PREVEW
OK BACK CANCEL		

CREATE A DATASET—SELECTING OUTPUT PARAMETERS

7. Click the Input Parameter(s) tab.

The system passes the input parameters to the BAPI when they are executed, and based on the values of input parameters, the system returns the output. The system shows the appropriate UI control based on the data type of input parameter.

Select the input parameters from the Input Parameter(s) tab.
 The options available within the tab are based on the SAP BAPI you have selected.

Smarten Aktionen Income										W	n 💽
New Dataset											
Select SAP BAPI parameter(s)											
Dataset : SAP Dataset								Data so	urce : SAP D	ata Source - (Other/SAF
SAP BAPI(S)	Sel	ected BAPI :	ZSD SALE	SDETAILS BAPI							
law)h	0	Sutput Parame	1000								9
I BATBAR FLAT XV, CHANGE	1.	SO_DATE (578	UCTURE)								1
I BASBAPL F4_FXV_CREATE											- 1
E BA1BAPLF4_FXV_EX_CHK		SIGN (STRING	\$Q.								
BA18APLF4_FXV_GET_LIST		100N									
BA1BAPLF4,FXV,MODFY						- 1					
E BATBAPL FA, FX, CHANGE		Jonating: Seal	(1) m			-					
III BA1BAPLF4_FX_CREATE	1.0					1000				PREVIEW	w Ra
BATBAPL FA, FX, EX, CHK	1.00	and the second se	Contraction in the	C. WILLIAM CO.	Contraction of the local distance of the loc	Press and a second	and the second s	and the second se	and the second second	State State State	and statements
BA1BAPLF4_FX_GET_LIST	1.10	THURS				TOITH O		La Rente No.			
E BALBAR, FA, FX, MODIFY	1.98	Traing pools	040+000 M-06	Processor 100 tong	Northen Western	1347	CONFV fein, AG Schere Subare Onton	179.00008	1988-20000 Silge-20000	#8.50000 23%2.00000	11248.0 ×
BA1BAPL/4, RR, CHANGE	1.10	Provided product		Pumpe Startigues (DEShiOffsr 180-200			Better Dutget	28.00000	27188.00000	8800.00000	187800
BA1BAPLF4, IRR_CREATE	00		943	Bunty Selast	fisterertest.	Harrison	HTQ Kampanente Break	94.00000	18256 00000	1730.00000	3 4000 0
E BA1BAPL F4 BR EX CHK	01	Two posts	94.06	Paracrean VO. 1505	Hansus	Name-9	CBO Computer Based Design		966° 30005	2382 00000	14112.2
CALBARL F4 IRR. GET_LIST	1.00	Tel: (Join	84.95	385 Wv94/48/17	Harsvy.	10101	CBD Computer Based Design	+.000000	8796.00000	283A-00000	10108.0.*

CREATE A DATASET—SELECTING INPUT PARAMETERS

9. Click **Preview** to view a preview of the data retrieved based on the output parameters you have specified for the selected BAPI.

Smarten Advanced Data Discovery									W	ekome adm
New Dataset										
Select SAP BAPI parameter(s)										
Dataset : SAP Dataset							Data so	urce : SAP Da	ta Source - C	ther/SAP
SAP BAPI(S)	Selected BAPI :	ZSD_SALE	SDETAILS BAPI							
Search Q,	Output Paramet	_								0
III IBA1BAPL_F4_FXV_CHANGE III IBA1BAPL_F4_FXV_CREATE III IBA1BAPL_F4_FXV_EX_CHK IIII IBA1BAPL_F4_FXV_EX_CHK IIIII IBA1BAPL_F4_FXV_EXT_LIST IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	SO_DATE (STRU SIGN (STRUG SIGN	0								Ĵ
/BA1/BAPI_F4_FX_CREATE /// /BA1/BAPI_F4_FX_EX_CHK									PREVIEW	V 🗈
I /BA1/BAPI_F4_FX_GET_LIST	I TMTBEZ 🖗									INTERN
I /BA1/BAPI_F4_FX_MODIFY	and the second se	DPC1020 M-09	Prozessor 100 MHz Flatsoreen MS 1505	Nordrhein-Westfalen Nordrhein-Westfalen		COMPUTeon A0 Software Systeme OmbH	173.00000 2.00000	7958.00000	65.00000 2352.00000	11245.0 × 4704.00
/BA1/BAPI_F4_IRR_CHANGE		P-101		Baden-Wvertremberg	Stutget	Becker Stuttpart	25.00000	27068.00000	5500 00000	137500
//BA1/BAPI_F4_IRR_CREATE		M-03	Sunny Tetral3	Nedersachsen	Hannover	HTO Komponente OmbH	14.00000	18288.00000	1730.00000	24220.0
/BA1/BAPI_F4_IRR_EX_CHK		M-09 M-16	Flatspreen MS 1505	Hamburg	Hamburg	CBO Computer Based Design		9587.00000 6788.00000	2352.00000	14112.0
I /BA1/BAPI_F4_IRR_GET_LIST	 Tracing goods 4 	80-10	SEC Multisyne XV 17	Hamburg	Hamburg	CBD Computer Based Design		0-96-0000	2534 0/000	10126.0 -
OK BACK CANCEL										

CREATE A DATASET—PREVIEW DATA RETRIEVED

10. Click **OK**.

The system creates a dataset based on the criteria you have provided. You can verify the data and columns available in the dataset.

Smarten	-																n E
AP Dataset					8	-15	E.		œ	00 B		6.1	2 0	x	-	82	æ 1
													Le	e refrest	ed an t	-00.201	1 16 36 3
suit set +																	_
T MIREZ	Q. T MATNER	T MAKTX	Q 💽 882283 🔍	T ORTHO	T NAMES	q , (- KONN	ENGQ.	-	NAME O		METPICO	Lie NE	TWIL	100	UNAGO	1 00
Trieding printle	1400-2011	Burlun / 1220 end	Pards	\$7UA87	Burburking .		4 00000		2912	00000	525.1	100	104456-00	000	20003	ertu.	10-04
Trading general	61-07	Parametric 64*	Bacan Huartenberg	Distant.	Volument Studget Briter.	1	b00000		391.0	0000	1100	00000	1100.000	00.	300000	etico	08A
Kinghad product	P-108	Pure PRECIDION 108	- 049	Own	horvegar inport & Export Dro		1 00000		1540	00000	3400	00000	110005.0	0000	200000	0803	11.4
Finance product	1-810	Overhampe 30 Wet Ker 201/238v	Tesser .	Franklet	Langah-Marie Gridek		81.00000		8027	.00000.	346.3	0000	141945.0	0000	500.000	10000	16-1
Reared product	6.400	Overlange 50 Hist Har 220/2351	Bayan .	Muehthen	Karlason High Tech Marie		0 000000		18.00	000	1111	00000	38.00000		200000	1000	05-5
Tracing general	\$5-08	Parameet 1/5 1460 P	Salheet	Dresder!	C.A.S. Computer Application By	1	30000		\$736	. 90000	1860	00000	13445.00	005	300.000	0460	08-16
Rearest product	0.105	Punce PRECISION 138	Norther-Resferrer	Family	Backer Yoah	1.0	00000		2042	1.00000	3823	00000	108349.0	0000	secold	1300	18.4
Tieding groom	7-45407	Farsower 5/3 1450 P		Surger	Serviced	4	20000		887.0	0000	1880	00000	1845.500	00	1.5554	45	04.0
Trading goods	1430-400	Moonadhem - Standard	Eacer- Muertenberg	visitely.	Votoriario Hedeberg Groph	4	215 00000		1840	1.00000	\$100.0	100000	1200053	0000	800000	0000	24.4
Trading goods	OPC1014	SIM-Manu MIN' v 12, 128MB 20M-RAM	Depeire	WUMINGTON	Circle Industries	1	\$2.00000		5915	30008	78.00	3000	11435.55	000.	300030	eren	08-4
Trading goods	\$9-03	Surviy Tered	Nevada	CARSON C/TY	Impositue Sultaine, Imp.		00000.0		1000	1.00000	345.0	00000	22783.00	000	800030	8110	10-1
Tracing pools	85-12	MAD DX 17F	Norther-Destant	Bote	Sofuers Systems Dript	1	£ 000000		1054	50000	424.0	10000	12425-00	000	000000	1969	45-5
Trading goods	10-10	Paradreet MS 1775P	"eccel	Paridut	NUC HIS Test	4	6 00000		3521	1.00000	1002	60556	84062.00	000	000000	2140	21.4
Tracing groute	\$1.02	Surry 3a1	Valenarier	Harrison	HTG Kampanana Grow		00000		2011	00000	405.1	10000	10435-00	1000	300.000	0000	01.4
Tracing goods	10-18	SEC Munaphe XV18	Georga	AUGUSTA.	Wattan	- 14	4.00000		2010	50000	405.0	00000	0083-000	100	000036	0716	0.0
Trading goods	9400-300	Bunkun/ 1000 and	Balan (Kartenberg	Durget	Votorrarie Durigan Desire		6.00000		2081	80.00000	7984	00000	400405.0	0000	2000000	0174	10.0
Trading gives	80-17	Jetech Shi4000	Minimannia .	E-eleft	Burrows Dept.	1	\$ 200000		2162	00000	245.0	10000	4717.000	00	000030	0790	08.1
Trading groots	9400-200	Delure Tarlight	Ocanona	ARONOAE	trans-datenta		\$4.00000		3684	00000	12.00	0000	9626-000	00	000000	1940	47.0
Trading groots	94.07	Paracrean LE dath	Balan Ulur tertary	Duripet	Votonani Dutpet Drov	. 4	\$99990		381.0	0000	1100	30000	1100.000	00	000000	01174	-26-4
Trading groots	55.10	Jelaim Endloop	Sector.	Dresdart	C.A.B. Computer Application By		1 30000		1100	100000	1684	30000	10879-00	000	00000	01460	04.4
Training groups	1.48420	Paracesen 573, 1450 /P		Su/get	Technolana		00000		HT	00000	1840	00000	18800-00	000	1.0454	40	94-0
Tracing groots	1400-400	Meterscheim - Standartt	Batan (Kartantar)	Hateberg.	Moonarie Helleberg Gron	. 1	43.00000		7036	00000	300.0	10000	40000.00	000	900000	0100	08-0
Trading groots	14-08	Parameter 103, 1480 P	Northern Restaurs		CONPUTING AD	1	1.00000		1040	and the second se		00000	12846.00		ano at	and the second	25-5

CREATING A DATASET—COLUMNS AVAILABLE IN THE EXISTING DATASET

The dataset is now available in the repository.

6.5.1 Data Types Supported by Smarten

The following table lists the data types of SAP ABAP script that are compatible with Smarten data types. Smarten typecasts the data type of the BAPI output column as mentioned in the following table. Any data type that is not mentioned in the table is converted to null values.

АВАР Туре	Description	Smarten Data Type
С	Character	String
N	Numerical Character	String
Р	Binary Coded Decimal	Big Decimal
I	4-byte Integer	Int
В	1-byte Integer	Int
S	2-byte Integer	Int
F	Float	Double
D	Date	Date
Т	Time	Date
decfloat16	Decimal floating point 8 bytes (IEEE 754r)	Big Decimal
decfloat34	Decimal floating point 16 bytes (IEEE 754r)	Big Decimal
g	String (variable length)	String

6.6 Creating a Dataset Using a Dataset

You can use an existing dataset and create a dataset to retrieve the required data from that dataset.

About this task

Use this task to create a dataset using an existing dataset.

Procedure

1. Click **New** -> **Dataset** from the menu.

	Welcome Shyam Raman
	A 1
	🚔 Open
Crosstab	New New
Tabular	Publishing agent
di∭ Graph	🚓 TeamUp
铤 GeoMap	Edit profile
₩ крі	⊂→ Logout
KPI group	1 About us
Dashboard	Network speed (229.38 kBps)
SmartenView	
Data source	-
Dataset	
₩ SmartenInsight	_

MENU OPTION-NEW DATASET

The system displays the Create dataset page.

		Welcome Shyam Ra
scription		
	All obj	jects Name 🔺
DATA SOURCE TYPE	CREATED	UPDATED
Dataset	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25
		May 14, 2010 11:00:20
File / Text	jalpa April 03, 2018 12:17:24	jalpa April 03, 2018 12:17:52
File / Text Dataset		jalpa
	April 03, 2018 12:17:24	jalpa April 03, 2018 12:17:52 jalpa
		DATA SOURCE TYPE CREATED

CREATING A NEW DATASET—THE CREATE DATASET SCREEN

- 2. Enter a name and description for the dataset in the **Name** and **Description** fields.
- 3. Select the file type profile you want to use to create a dataset from the list.
 - Or,

Enter the keyword to search for the file type data source profile based on the keyword provided, and then press **Enter**.

The system displays the file type data source profiles that match the keyword you have provided.

4. Click Next.

The system displays the **Select columns** page.

New Dataset									
Select columns									
ataset: Dataset_From_D	Dat D	ata preview					Data source: F	Flight_Dataset - Da	atase
olumns	#	ØDATE ⇔	⊤ UNIQUE_CARRIER ⇔	ı₂∍FL_NUM ⇔	⊤ ORIGIN ⇔	⊤DEST⇔	ı₂∋DEP_TIME ⇔	I.III DEP_DELAY 🖨	: 123
earch	Q 1	January 06, 2016 00:00:00	WN	2438	TPA	BWI	1855	0.0	2(
	2	January 07, 2016 00:00:00	00	5300	ORD	MKE	2050	-8.0	21
	3	January 27, 2016 00:00:00	EV	5571	RIC	BOS	635	0.0	81
SELECT ALL	4	January 03, 2016 00:00:00	DL	2505	CLT	MSP	1713	-2.0	18
DATE	5	January 05, 2016 00:00:00	AA	2091	DFW	CLT	947	-3.0	13
DATE	6	January 25, 2016 00:00:00	DL	860	SNA	MSP	700	15.0	12
UNIQUE_CARRIER	7	January 24, 2016 00:00:00	AA	2145	LGA	DCA	NULL	NULL	
	8	January 31, 2016 00:00:00	AA	481	RSW	PHL	610	0.0	83
FL_NUM	9	January 13, 2016 00:00:00	AA	2050	ATL	CLT	1350	-5.0	18
	1	0 January 23, 2016 00:00:00	WN	3182	SJC	AUS	654	-1.0	13
ORIGIN	1	1 January 26, 2016 00:00:00	UA	1877	DEN	IAH	650	-5.0	10
DEST	1	2 January 19, 2016 00:00:00	DL	1205	ATL	SDF	1910	-6.0	20
DEST	1	3 January 05, 2016 00:00:00	EV	2848	DFW	GPT	1208	3.0	13
DEP TIME	1	4 January 23, 2016 00:00:00	WN	2111	SEA	SJC	1608	8.0	1
	1	5 January 31, 2016 00:00:00	EV	4588	GPT	IAH	625	-10.0	7
DEP DELAY	1	6 January 30, 2016 00:00:00	B6	249	DCA	TPA	1134	-6.0	1
-	1	7 January 14, 2016 00:00:00	WN	1172	DEN	RNO	1452	-3.0	1
ARR TIME	1	8 January 04, 2016 00:00:00	AA	412	SJC	PHX	1254	18.0	1
_	1	9 January 02, 2016 00:00:00	UA	1057	ORD	IAH	508	4.0	73
ARR_DELAY	2	0 January 29, 2016 00:00:00	AA	560	DEN	PHX	533	-2.0	73
	2	1 January 05, 2016 00:00:00	WN	215	MDW	LAS	NULL	NULL	
AIR_TIME	2	2 January 04, 2016 00:00:00	WN	933	IND	BOS	1117	-3.0	1
DISTANCE	2	3 January 26, 2016 00:00:00	WN	1772	OAK	MDW	1535	55.0	21
DISTANCE	2	4 January 13, 2016 00:00:00	UA	1870	PBI	EWR	938	-6.0	10
)	2	5 January 02, 2016 00:00:00	00	3423	MKE	SEA	1700	15.0	1
IV AIRPORT LANDING	20 2	6 January 18, 2016 00:00:00		550	СМН	PHX	1622	-3.0	18
ARFORI_LANDING	2	7 January 21, 2016 00:00:00	00	4639	LSE	MSP	1901	274.0	20
	T	(×.

CREATING A DATASET—COLUMNS AVAILABLE IN THE EXISTING DATASET

5. Select the columns that you want to use in the dataset from the left pane.

Or,

Enter the keyword to search for the columns you want to use in the dataset in the **Columns** field, and then press **Enter**.

Advanced Data Discovery



Dataset: Dataset_From_Dat	Data	a preview					Data source: Fligh	it_Dataset - Data
olumns	#	©DATE ⇔	ाट∃FL_NUM ⇔	⊤ ORIGIN ⇔		123 DEP_TIME 👙	DEP_DELAY ⇔	AIR_TIME ⇔
earch Q,	1	January 06, 2016 00:00:00	2438	TPA	BWI	1855	0.0	103.0
	2	January 07, 2016 00:00:00	5300	ORD	MKE	2050	-8.0	20.0
SELECTALL	3	January 27, 2016 00:00:00	5571	RIC	BOS	635	0.0	59.0
SELECTALL	4	January 03, 2016 00:00:00	2505	CLT	MSP	1713	-2.0	137.0
DATE	5	January 05, 2016 00:00:00	2091	DFW	CLT	947	-3.0	119.0
DATE	6	January 25, 2016 00:00:00	860	SNA	MSP	700	15.0	186.0
UNIQUE CARRIER	7	January 24, 2016 00:00:00	2145	LGA	DCA	NULL	NULL	NULL
_	8	January 31, 2016 00:00:00	481	RSW	PHL	610	0.0	126.0
FL_NUM	9	January 13, 2016 00:00:00	2050	ATL	CLT	1350	-5.0	43.0
	10	January 23, 2016 00:00:00	3182	SJC	AUS	654	-1.0	177.0
ORIGIN	11	January 26, 2016 00:00:00	1877	DEN	IAH	650	-5.0	115.0
DEST	12	January 19, 2016 00:00:00	1205	ATL	SDF	1910	-6.0	54.0
DEST	13	January 05, 2016 00:00:00	2848	DFW	GPT	1208	3.0	69.0
DEP TIME	14	January 23, 2016 00:00:00	2111	SEA	SJC	1608	8.0	102.0
	15	January 31, 2016 00:00:00	4588	GPT	IAH	625	-10.0	67.0
DEP DELAY	16	January 30, 2016 00:00:00	249	DCA	TPA	1134	-6.0	125.0
	17	January 14, 2016 00:00:00	1172	DEN	RNO	1452	-3.0	119.0
ARR TIME	18	January 04, 2016 00:00:00	412	SJC	PHX	1254	18.0	78.0
	19	January 02, 2016 00:00:00	1057	ORD	IAH	508	4.0	135.0
ARR_DELAY	20	January 29, 2016 00:00:00	560	DEN	PHX	533	-2.0	85.0
AIR TIME	21	January 05, 2016 00:00:00	215	MDW	LAS	NULL	NULL	NULL
AIR_IIME	22	January 04, 2016 00:00:00	933	IND	BOS	1117	-3.0	105.0
DISTANCE	23	January 26, 2016 00:00:00	1772	OAK	MDW	1535	55.0	234.0
DIGINITOL	24	January 13, 2016 00:00:00	1870	PBI	EWR	938	-6.0	145.0
]	25	January 02, 2016 00:00:00	3423	MKE	SEA	1700	15.0	217.0
IV AIRPORT LANDINGS	26	January 18, 2016 00:00:00	550	CMH	PHX	1622	-3.0	234.0
	27	January 21, 2016 00:00:00	4639	LSE	MSP	1901	274.0	28.0
	28	January 30, 2016 00:00:00	1976	SFO	PHX	905	-5.0	77.0

CREATING A DATASET—DATA FROM THE SELECTED COLUMNS

The system displays the columns you have selected along with the data available in those columns in the **Data preview** pane.

6. Click **OK**.

The system displays a preview of the data based on the columns you have selected.

aset_From_Data	ser				(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	<u>)</u> * 2 h
						Data extraction is in pro
t set 👻 Flight_Data	set					
O DATE	Q 📧 FL_NUM	Q, T ORIGIN	Q T DEST	Q, 📧 DEP_TIME	Q IIII DEP_DELAY	Q, LO AIR_TIME
lanuary 27, 2016 00:00:00	1990	HOU	AUS	2153	-7.0	29.0
lanuary 09, 2016 00:00:00	2340	DCA	ORD	1830	15.0	96.0
lanuary 13, 2016 00:00:00	844	BWI	TPA	1750	0.0	133.0
lanuary 23, 2016 00:00:00	634	ATL	LAS	1243	-2.0	248.0
lanuary 23, 2016 00:00:00	1759	IND	ATL	909	69.0	61.0
lanuary 24, 2016 00:00:00	1519	STL	HOU	1259	9.0	106.0
anuary 24, 2016 00:00:00	7394	SGU	SLC	1535	23.0	45.0
anuary 12, 2016 00:00:00	27	OMA	DAL	1052	17.0	82.0
anuary 01, 2016 00:00:00	1144	LGA	DFW	1937	-3.0	208.0
anuary 16, 2016 00:00:00	1170	LAX	CMH	2159	-1.0	222.0
anuary 09, 2016 00:00:00	3663	DAL	LBB	841	6.0	50.0
lanuary 23, 2016 00:00:00	344	FSD	ORD	812	-1.0	64.0
lanuary 01, 2016 00:00:00	1533	DTW	PBI	839	-3.0	147.0
lanuary 12, 2016 00:00:00	4743	ICT	MSP	1727	35.0	79.0
lanuary 24, 2016 00:00:00	585	ROC	JFK	1857	-10.0	48.0
anuary 08, 2016 00:00:00	5257	DEN	STL	826	22.0	99.0
anuary 30, 2016 00:00:00	3346	DTW	MDW	1737	-8.0	49.0
anuary 12, 2016 00:00:00	5631	BFL	SFO	638	-8.0	43.0
anuary 29, 2016 00:00:00	917	LGA	DFW	1243	-7.0	184.0
lanuary 22, 2016 00:00:00	2028	RIC	CLT	NULL	NULL	NULL
anuary 07, 2016 00:00:00	1961	FLL	ORD	1903	5.0	NULL
anuary 16, 2016 00:00:00	2534	LAX	BOS	1042	7.0	297.0
anuary 12, 2016 00:00:00	1928	PIT	BWI	1842	47.0	43.0
	4158	BOS	CLE	1352	-3.0	98.0
lanuary 11, 2016 00:00:00						

PREVIEW—DATASET CREATED USING AN EXISTING DATASET

The dataset is now available in the repository.

7 Working with Dataset

Dataset is a source of analysis-ready data in the columnar structure. You can perform various operations on a dataset such as highlighting data, apply transformation and cleaning operations, manage columns, and much more.

7.1 Dataset Management

Managing a Dataset involves providing access rights for a Dataset; opening, editing, deleting, and copying a Dataset; changing the Data Source for a Dataset, and getting a dataset IT certified. A Dataset can be managed either by the user who created it or by the Administrator.

Reference: Concept Manual > Dataset Management

7.1.1 Opening a Dataset

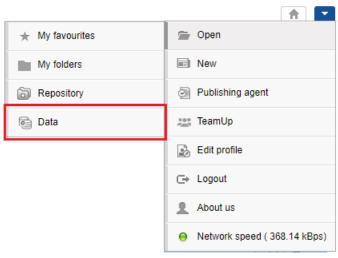
You must open a dataset to be able to perform any operation on that dataset.

About this task

Use this task to open an existing dataset.

Procedure

1. Click **Open** ->**Data** from the menu.



MENU OPTION - OPEN DATA

The system displays the following page.

Sma	nced Data Discove	ery				Welcome Shyam R	Raman
Data	isets						
Datasets		0	Ŧ	Search	Q Page 1 of 7 1 -	Name 🔺	
			NAME	CREATED	UPDATED		
Data sources			Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25		••
Cubes			Age-Purchase Relationship-PearsonCorrelation-Dataset	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	.	••
Cubes			Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	.	••
			Cadila Product master ★★★★★	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	.	••
		삥	Credit card Dataset	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	.	••
		삥	CustomerPaymentDetails_old	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	ø	••
		14	Database_From_Database_Query_O	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	.	•••
		ιĶ(Dataset_From_Database ★ ★ ★ ★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	.	••
		n¥(Dataset_From_Dataser	Shyam Ramani October 11, 2018 14:10:44	Shyam Ramani October 11, 2018 14:10:44	e -	••
		13/4	Dataset_From_RScript	Shyam Ramani October 20, 2018 13:13:27	Shyam Ramani October 20, 2018 13:13:27	ф л —	•••

OPEN ADATASET – SELECTING A DATASET

2. Click **Datasets**, and then select the dataset you want to open.

The system displays the dataset along with the data from the data source.

lvan	ted Data Discovery				†
a	set_From_Database		🗎 🖷 🗗 🛢	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	2 * 2 • 0
				Last n	efreshed on October 13, 2018 15:2
lt e	set 👻				
nt a	set •				
	T SALES_CUSTOMER_ROWGUID Q	SALES_CUSTOMER_MODIFIEDDATE Q	SALES_STORE_CUSTOMERIDQ	T SALES_STORE_NAME Q	SALES_STORE_SALES
7	8E2E4C3-B1BA-4CB2-B410-A4D48BA886E5	October 13, 2004 11:15:07	63	Metro Bike Mart	279
2	D6BBC35-BC19-4CB4-A61B-46899D3A4237	October 13, 2004 11:15:07	169	Downtown Hotel	281
1	47692E6-80FE-492F-97F6-51D9C5AA0C36	October 13, 2004 11:15:07	594	Casual Bicycle Store	275
1	47692E6-80FE-492F-97F6-51D9C5AA0C36	October 13, 2004 11:15:07	594	Casual Bicycle Store	275
3	59BB644-407D-4C24-AB98-E637AEE7C81E	October 13, 2004 11:15:07	62	Manufacturers Inc	279
1	548C6D6-55AE-42CC-813D-093D70330662	October 13, 2004 11:15:07	464	Educational Services	289
9	8EA497E-45D0-4C54-821A-4FDD9A751095	October 13, 2004 11:15:07	221	Bike Dealers Association	281
6	0552ADB-643C-461A-9DFD-57029760B59A	October 13, 2004 11:15:07	234	Eastside Sporting Goods	275
D	903D48A-5B03-472E-B802-8500A3C81305	October 13, 2004 11:15:07	650	Permanent Finish Products	281
5	475E9DD-98CA-4989-B7A2-3FC929BEEA12	October 13, 2004 11:15:07	148	Latest Sports Equipment	283
F	7FA597E-BEDA-4488-9101-A8CD272DBF47	October 13, 2004 11:15:07	514	Retail Mall	282
8	AB2C195-E95A-45DE-B0D1-02F13D20D0B0	October 13, 2004 11:15:07	640	Liquidation Sales	290
9	D1A7488-6CD7-4866-A0A4-DD3A8A850ED0	October 13, 2004 11:15:07	498	Top Sports Supply	282
в	C98B78E-3068-475A-8EAD-FBA537DDE9B9	October 13, 2004 11:15:07	399	Big Cycle Mall	277
A	6B62683-6B48-4B90-8618-01A36F459ECD	October 13, 2004 11:15:07	423	Bike Rims Company	279
1	31056AB-E899-43BF-91E6-D92F44456655	October 13, 2004 11:15:07	345	Genial Bike Associates	277
A	8ACF94D-2B05-4EF4-96EA-87B3466619C5	October 13, 2004 11:15:07	621	Running and Cycling Gear	283
8	194B68E-AF15-4EDC-B403-6C8F7475492B	October 13, 2004 11:15:07	492	Basic Sports Equipment	276
в	3DCE5B4-BBFA-4A57-B5C2-EED1EF13E0BE	October 13, 2004 11:15:07	697	Brakes and Gears	276
F	8BF1985-3C65-400F-BD46-92F88008F003	October 13, 2004 11:15:07	335	Scratch-Resistant Finishes Company	282
0	484601B-6A04-41BF-9554-3EB22D5B4DC1	October 13, 2004 11:15:07	403	Affordable Sports Equipment	281
5	27D2334-C39D-49A8-901E-B1057F41BD73	October 13, 2004 11:15:07	315	Juvenile Sports Equipment	279
2	F89E8DD-A3C3-4ED4-A604-4B3D45DD1BEA	October 13, 2004 11:15:07	254	Safe Cycles Shop	283
1	1FEDA31-15B6-4F08-9357-355371D4D928	October 13, 2004 11:15:07	88	Closest Bicycle Store	285

OPEN DATASET – DATA AVAILABLE IN AN EXISTING DATASET

7.1.2 Editing a Dataset

This feature enables authorized users to edit a Dataset. Users can change the name, description, data source, and columns of the dataset. Users can also change the data source of the dataset.

Reference: Concept Manual > Dataset Management > Editing a Dataset

7.1.2.1 Editing Name and Description of a Dataset

About this task

Use this task to editname and description of a dataset.

Procedure

1. Click **Open** ->**Data** from the menu.

	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
★ My favourites	🗁 Open
My folders	New New
B Repository	Publishing agent
🗟 Data	🚉 TeamUp
	Edit profile
	C⇒ Logout
	About us
	Network speed (368.14 kBps)

MENU OPTION - OPEN DATA

The system displays the following page.

Sma	arten Inced Data Discove	ery				Welcome Shyam Ramar
Data	sets					
Datasets	C	0	Ŧ	Search	Q Page 1 of 7 1 -	Name 🔺
			NAME	CREATED	UPDATED	
Data sources		삥	Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	e
Cubes		삥	Age-Purchase Relationship-PearsonCorrelation-Dataset	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	ф я
Cubes		몡	Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	"
		삥	Cadila Product master ★★★★★	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	ф т
		뺑	Credit card Dataset	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	
		뺑	CustomerPaymentDetails_old	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	e
		13	Database_From_Database_Query_O	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	e
		14	Dataset_From_Database ★ ★ ★ ★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	e
		ηĶĮ	Dataset_From_Dataser	Shyam Ramani October 11, 2018 14:10:44	Shyam Ramani October 11, 2018 14:10:44	<i></i>
		150	Dataset_From_RScript	Shyam Ramani October 20, 2018 13:13:27	Shyam Ramani October 20, 2018 13:13:27	ø

OPEN A DATASET – SELECTING A DATASET

- 2. Select the checkbox adjacent to the dataset you want to edit.
- 3. Click the edit icon.

The system displays the **Edit dataset** page.

Sma Advar	rten nced Data Disco	overy			V	/elcome Shyar	
Data	sets						
Datasets	S	•		Search	Q Page 1 of 7 1 -	Name	•
			NAME	CREATED	UPDATED		
Data sources			Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	ц л	
Cubes			Age-Purchase Relationship-PearsonCorrelation-Dataset	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	1	
			Cadila Product Data Set ★★★★	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	P	•••
			Cadila Product master	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41		
			Classification dataset	jalpa November 05, 2018 13:40:41	jalpa November 05, 2018 13:58:52		••••
		몡	CO dataset ★★★★	jalpa November 05, 2018 14:12:35	jalpa November 05, 2018 14:13:00		••••
			Credit card Dataset	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	1	
		(종)	CustomerPaymentDetails_old ★★★★	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	1	
		嵶	Database_From_Database_Query_O ★ ★ ★ ★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	ų.	
		154	Dataset_From_Database	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	P	

MANAGING DATASET – EDITING A DATASET

4. You can provide a new name and description for the dataset in the **Name** and **Description** boxes, and then click **OK**.

Advanced Data Discovery				Welcome Shyam Rama
Dataset_From_Database				
Dataset_From_Database Description				
	DATA SOURCE TYPE	CREATED	UPDATED	
AdventureWorks_Datasource	Database / SQL server Database / SQL server			
OK NEXT CANCEL				

EDITING A DATASET - EDITING NAME AND DESCRIPTION

7.1.2.2 Enabling Managed Memory for a Dataset

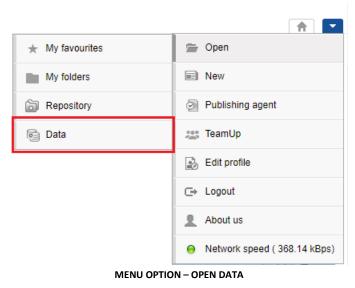
About this task

Use this task to allow the system to use managed memory computing architecture for this dataset.

Reference: Smarten The Working of Managed Memory Computing Reference: Smarten Managed Memory Computing Concept

Procedure

1. Click **Open** ->**Data** from the menu.



The system displays the following page.

Sma	nced Data Discove	ry				Welcome Shyam Rama
Data	sets					
Datasets		0	Ŧ	Search	Q Page 1 of 7 1 -	Name 🔺
			NAME	CREATED	UPDATED	
Data sources			Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Cubes			Age-Purchase Relationship-PearsonCorrelation-Dataset	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	, л
Cubes			Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			Cadila Product master	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			Credit card Dataset ★★★★★	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			CustomerPaymentDetails_old	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	
		¥	Database_From_Database_Query_O ★ ★ ★ ★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	,
		14	Dataset_From_Database	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		¥	Dataset_From_Dataser ★★★★	Shyam Ramani October 11, 2018 14:10:44	Shyam Ramani October 11, 2018 14:10:44	æ
		134	Dataset_From_RScript	Shyam Ramani October 20, 2018 13:13:27	Shyam Ramani October 20, 2018 13:13:27	<i></i>

OPEN A DATASET – SELECTING A DATASET

- 2. Select the checkbox adjacent to the dataset you want to edit.
- 3. Click the edit icon.

The system displays the **Edit dataset** page.

Smar	r ten ced Data Discovery	y				Welcome Shya	
Datas	sets						
Datasets	S	0		Search	Q Page 1 of 7 1 -	Name	•
0			NAME	CREATED	UPDATED		
Data sources			Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	ця. П	
Cubes		뼬	Age-Purchase Relationship-PearsonCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	,	
Cabbo		똉	Cadila Product Data Set ★★★★	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•••
		뻉	Cadila Product master ★★★★	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	1	•••
		똉	Classification dataset ★★★★	jalpa November 05, 2018 13:40:41	jalpa November 05, 2018 13:58:52	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•••
		1	CO dataset	jalpa November 05, 2018 14:12:35	jalpa November 05, 2018 14:13:00	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		뼬	Credit card Dataset	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		몡	CustomerPaymentDetails_old ★ ★ ★ ★ ★	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	1	••••
		-	Database_From_Database_Query_O ★ ★ ★ ★ ★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	1	•••
		154	Dataset_From_Database ★★★★★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	4 8	••••

MANAGING DATASET – EDITING A DATASET

4. You can select the **Enable managed memory**checkbox.

Advanced Data Discovery				Welcome Shyam Ramani
Dataset_From_Database				
Edit dataset				
Name				
Dataset_From_Database				
Description				
Enable managed memory				
DATA SOURCE NAME	DATA SOURCE TYPE	CREATED	UPDATED	
AdventureWorks_Datasource	Database / SQL server Database / SQL server	admin October 11, 2018 20:23:00	admin October 11, 2018 20:23:00	

EDITING A DATASET – OPTION TO ENABLE MANAGED MEMORY

7.1.2.3 Changing the Data Source of a Dataset

There are two scenarios when you need to change data source of a dataset.

Scenario 1:

OK NEXT CANCEL

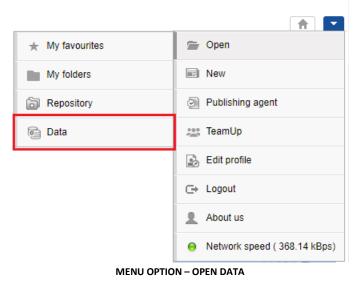
You need to change data source of a dataset if the data source is deleted or not available.

About this task

Use this task to change the data source of a dataset when the data source is deleted or not available.

Procedure

1. Click **Open** ->**Data** from the menu.



The system displays the following page.

Sma	nced Data Discove	ny				e 1 of 7 1 Name ED 2018 11:38:25 Image: Constraint of the second s	
Data	sets				Search Q Page 1 of 7 1 → Name ▲ REATED UPDATED pa jalpa		
atasets		0	¥	Search	Q, Page 1 of 7 1 -	Name	•
			NAME	CREATED	UPDATED		
)ata ources			Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03		1 11	••••
ubes			Age-Purchase Relationship-PearsonCorrelation-Dataset	jalpa April 03, 2018 12:16:10		1	
1003		삥	Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01		1	••••
			Cadila Product master	Rajesh Mehta July 27, 2018 12:28:24		49	
			Credit card Dataset	jalpa July 26, 2018 19:42:01		1	••••
			CustomerPaymentDetails_old	Ritu Gupta October 05, 2018 15:16:13		1	••••
		¥	Database_From_Database_Query_O	Shyam Ramani October 13, 2018 14:25:37		1	••••
		194	Dataset_From_Database ★ ★ ★ ★	Shyam Ramani October 12, 2018 01:08:51		4 8	
		¥	Dataset_From_Dataser ★★★★	Shyam Ramani October 11, 2018 14:10:44		1	••••
		帧	Dataset_From_RScript	Shyam Ramani October 20, 2018 13:13:27	Shyam Ramani October 20, 2018 13:13:27	1	

OPEN A DATASET – SELECTING A DATASET

- 2. Select the checkbox adjacent to the dataset for which you want to change the data source.
- 3. Click the edit icon.

The system	displays the	Edit dataset page.
------------	--------------	--------------------

Data:	rten Inced Data Discover	y			v	elcome Shyar	
Datasets		0	2 B B / Ø D B Ł F	Search	Q Page 1 of 7 1 👻	Name -	•
			NAME	CREATED	UPDATED		
Data sources			Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	ų.	
Cubes		몡	Age-Purchase Relationship-PearsonCorrelation-Dataset	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	1	••••
Cubes		몡	Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			Cadila Product master	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	1 11	
			Classification dataset ★★★★	jalpa November 05, 2018 13:40:41	jalpa November 05, 2018 13:58:52	1 9	
			CO dataset ★★★★★	jalpa November 05, 2018 14:12:35	jalpa November 05, 2018 14:13:00	1	••••
			Credit card Dataset ★★★★	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	••••
		뻉	CustomerPaymentDetails_old ★★★★	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	ų.	••••
			Database_From_Database_Query_O ★★★★★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	1	•••
	\checkmark	14	Dataset_From_Database ★★★★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	P	

MANAGING DATASET - EDITING A DATASET

4. Click **CHANGE DATASOURCE**, if the data source used to create the dataset is deleted and no longer available, the system displays the message and provides an option to change the data source.

The system displays the Change Datasource dialog box.

Advanced Data Discovery	
Dataset_From_Database	
Edit dataset	
Name	
Dataset_From_Database	
Description	
Enable managed memory	
Datasource not found for this dataset. Select another datasource.	
CHANGE DATASOURCE	

EDITING A DATASET – CHANGING THE DATA SOURCE

Edit dataset	>>> Change Datasource
Name	Current datasource :
Dataset_From_Dataset	Search Q, Name
Description	flight-dataset-27062018
	flight-dataset-29052018
Enable managed memory	Flight_Dataset_SR
Datasource not found for this dataset. Select another datasource.	Flight_Dataset_SR1
CHANGE DATASOURCE	FlightData_09072018
	FlightData_2016_SV
	FlightData_Dataset_25062018
	FlightData_jan-fab-2016_Dataset

EDITING A DATASET – CHANGING THE DATA SOURCE

6. Click Apply.

Scenario 2:

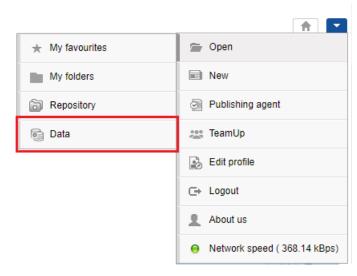
You can change data source associated to a dataset. For example, monthlysales dataset is currently associated with June_Sales data source and you want to change the data source to July_Sales.

About this task

Use this task to change the data source of a dataset.

Procedure

1. Click **Open** ->**Data** from the menu.



MENU OPTION - OPEN DATA

The system displays the following page.

Sma	arten Inced Data Disco	overy			V	elcome Shyan	_
Data	sets	Search Q Page 1 of 7 1 • Name • NAME CREATED UPDATED adde-Pastbrough-ease-SpearmanCorrelation-Dataset jalpa jalpa jalpa jalpa Age-Product Data Set jalpa jalpa					
Dataset	G	0	Ŧ	Search	Q Page 1 of 7 1 -	Name 4	•
			NAME	CREATED	UPDATED		
Data ources		1991				1	••••
A ubes		몡				1	••••
ubes						ц я	••••
					-	450	
		1991				Page 1 of 7 1 Name - JPDATED sipa laga 1 (ay 14, 2018 11:38:25 - laga 1 (ay 14, 2018 11:38:53 - laga 1 (ay 14, 2018 11:38:53 - laga 1 (ay 14, 2018 11:38:53 - laga 1 (ay 21, 2018 11:38:53 - laga 1 (ay 27, 2018 14:12:31 - laga 2 (ay 27, 2018 12:29:41 - luly 27, 2018 12:29:41 - luly 26, 2018 19:42:32 - luly 26, 2018 19:42:42:38 - luly 26, 2018 19:42:117 - luly 26, 2018 19:42:10:44 - luly 26, 2018 19:42:10:44 -<	••••
		1991		Search Q Page 1 of 7 1 → Image: SpearmanCorrelation-Dataset Jalpa Jalpa Jalpa April 03, 2018 12:18:03 Jalpa May 14, 2018 11:38:25 Relationship-PearsonCorrelation-Dataset Jalpa May 14, 2018 11:38:53 t Data Set April 03, 2018 12:16:10 May 14, 2018 11:38:53 t Data Set Rajesh Mehta July 27, 2018 12:27:01 May 14, 2018 14:12:31 t naster Rajesh Mehta July 27, 2018 12:28:24 July 27, 2018 14:12:31 ttaset July 27, 2018 12:28:24 July 27, 2018 12:29:41 July 27, 2018 12:29:41 tataset July 26, 2018 19:42:01 July 26, 2018 19:42:32 Mehta mentDetails_old Ritu Gupta October 11, 2018 13:51:36 October 11, 2018 13:51:36 m_Database_Query_Q Shyam Ramani October 13, 2018 14:25:37 October 13, 2018 14:25:38 Database Shyam Ramani October 13, 2018 15:21:17 October 13, 2018 14:25:37	ц е		
		喊			-	цШ.	••••
		嵶		-		1	••••
		-				P	••••
		阏	Dataset_From_RScript			47	

OPEN A DATASET – SELECTING A DATASET

2. Select the checkbox adjacent to the dataset for which you want to change the data source.

3. Click the edit icon.

	he syst rten		n displays the Edit dataset page.		v	Velcome Shya	
Data						1	
Datasets	S (Ð		Search	Q Page 1 of 7 1 -	Name	•
			NAME	CREATED	UPDATED		
Data sources		뻉	Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	1	•••
Cubes			Age-Purchase Relationship-PearsonCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53		•••
Cubes			Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	,	•••
		뼰	Cadila Product master	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	.	•••
		뼰	Classification dataset	jalpa November 05, 2018 13:40:41	jalpa November 05, 2018 13:58:52	1	•••
		뼰	CO dataset	jalpa November 05, 2018 14:12:35	jalpa November 05, 2018 14:13:00	1	•••
		뻉	Credit card Dataset ★★★★★	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•••
		뻉	CustomerPaymentDetails_old ★★★★	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	1	•••
		ŝ	Database_From_Database_Query_O ★ ★ ★ ★ ★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	1	•••
		ŝ	Dataset_From_Database ★★★★★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	,	

MANAGING DATASET - EDITING A DATASET

4. You can change the name, description, and managed memory option for the dataset, and then click **NEXT**.

Smarten Advanced Data Discovery			Welcome S	hyam Ram
Dataset_From_Database				
Edit dataset				
lame				
Dataset_From_Database				
Description				
Enable managed memory				
DATA SOURCE NAME	DATA SOURCE TYPE	CREATED	UPDATED	
AdventureWorks_Datasource	Database / SQL server	admin October 11, 2018 20:23:00	Shyam Ramani November 07, 2018 02:25:55	
OK NEXT CANCEL				
EDITII	NG A DATASET – CHANGING THE I	DATA SOURCE		

- NG A DATASET CHANGING THE DATA SOURC
- 5. Click the Change Datasource button.

The system displays the Change Datasource dialog box.

Advanced Data Discovery			-			Welcome Shyam Rama
Dataset_From_Database						
Edit dataset - step by step wizard	d					
Dataset: Dataset_From_Database				Data source	: AdventureWorks_Datasource - D	atabase/SQL serve
Schema name	Selected table(s) & v	iew(s)				
Sales v						^
Table(s) and view(s)						
Search Q			Store	-		
ContactCreditCard CountryRegionCurrency CreditCard CreditCard Currency Currency CurrencyRate	Customer		SalesOrderHe		SalesOrderDet v	
E Customer	•					•
EustomerAddress				÷ OFF	Result set	
SalesOrderDetail	# IEE CUSTOMERID			⊤ CUSTOMERTYPE ⇔	TROWGUID	• • MODIFIEDDATE
SalesOrderHeader	1 475	4	AW00000475	s	14CA38FA-E45C-421C-BB5A-22CDE0948AEA	October 13, 2004 11: A
SalesOrderHeaderSalesRea	2 52	10	AW00000052	S	8FB34B30-B19D-4AEC-B02E-F1BE942800E5	October 13, 2004 11:
SalesPerson	3 423	5	AW00000423	s	A6B62683-6B48-4B90-8618-01A36F459ECD	October 13, 2004 11:
SalesPersonQuotaHistory	4 533	6	AW00000533	S	89E3BBB3-134C-465B-A2BD-558EA54D3D9E	October 13, 2004 11:
SalesReason	5 678	8	AW00000678	S	9AE2B1F8-8F7D-4439-99FE-2B67E38DE4EE	October 13, 2004 11: 🔻
OK BACK CANCEL						



6. Select a data source from the list of available data sources.

CI	hange Datasource				×
Cur	rrent datasource : Advent	ureV	Vorks_Datas	ource	
Se	arch Q			Name 🔺	
	NAME		TYPE	CREATED	UPD
۲	AdventureWorks_Dataso	urce	SQL server	admin October 11, 2018 20:23:00	Shya Nove
0	Plan_Datasource		SQL server	Ritu Gupta October 01, 2018 14:57:26	Ritu Octo
	APPLY CANCEL				

EDITING A DATASET – THE CHANGE DATASOURCE DIALOG BOX

Note:

The options available to change datasource are of the same type that of the current data source.For example, the current data source type is a database, hence, the system displays only database data sources. The system does not display a data source that has a different data source type than the current data source.

The new data source schema must be the same as the current data source. If any column in the current dataset is not available in the new data source, the system does not allow you to change the current data source with the new data source.

If the new data source has additional or more columns in the schema, the system allows you to change the data source.

- 7. Click Apply.
- 8. Click OK.

7.1.3 Managing Access Rights for a Dataset

Dataset access permission is about granting or restricting access to Datasets. The permissions are provided to view, edit, or delete a Dataset. For example, team members who are power users require performing all actions on a Dataset and hence should be given all permissions, whereas some team members may just need to view or use the data, and so they should be given the permission to only view the Dataset. Access permissions can be given as per Roles or to individual users of Smarten by the user who created the Dataset or by the Administrator. The access rights provided by the last user whether creator or Administrator are applicable. The following table describes the rights that can be assigned to a user:

Right	Description
View	This access right grants permission to a user to view and access a dataset.
Write	This access right grants permission to a user to edit a dataset.
Delete	This access right grants permission to a user to delete a dataset.
Export	This access right grants permission to a user to export a dataset.

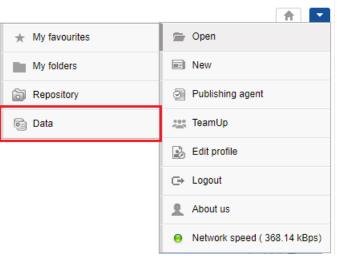
Reference: Concept Manual > Dataset Management > Managing Access Rights for a Dataset

About this task

Use this task to manage access rights for a dataset.

Procedure

1. Click **Open** ->**Data** from the menu.



MENU OPTION - OPEN DATA

The system displays the following page.

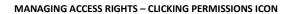
Sma Advar	rten Inced Data Disco	wery				Welcome Shya	
Data	sets						
Datasets	C	0	Ŧ	Search	Q Page 1 of 7 1 -	Name	•
			NAME	CREATED	UPDATED		
Data sources		-eel	Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	ц я	
Cubes		·@I	Age-Purchase Relationship-PearsonCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	4 9	•••
Cubes		·@I	Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	1	
		·@I	Cadila Product master	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	ц я	
		·#i	Credit card Dataset	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	ų.	•••
			CustomerPaymentDetails_old	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	P	
		1 <u>34</u>	Database_From_Database_Query_O ★ ★ ★ ★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	ф.	
		=} <u>iji</u> j	Dataset_From_Database ★ ★ ★ ★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	ц я	
		* <u>}</u> 4	Dataset_From_Dataser ★★★★	Shyam Ramani October 11, 2018 14:10:44	Shyam Ramani October 11, 2018 14:10:44	ця. 1	
		ığ¢	Dataset_From_RScript	Shyam Ramani October 20, 2018 13:13:27	Shyam Ramani October 20, 2018 13:13:27	1	••••

OPEN A DATASET – SELECTING A DATASET

- 2. Select the checkbox adjacent to the dataset for which you want to manage access rights.
- 3. Click the permissions icon.

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

Sma	rten Iced Data Discov	very			W	elcome Shya	
Data	sets						
Datasets	S	0	4 B i < Ø () î L F	Search	Q Page 1 of 7 1 -	Name	•
			NAME	CREATED	UPDATED		
Data sources			Age-Passthrough-ease-SpearmanCorrelation-Dataset	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	19	
Cubes			Age-Purchase Relationship-PearsonCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	1	•••
ouboo		몡	Cadila Product Data Set ★★★★	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	P	
		몡	Cadila Product master ★★★★	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	1	•••
			Classification dataset ★★★★	jalpa November 05, 2018 13:40:41	jalpa November 05, 2018 13:58:52	1	•••
			CO dataset ★★★★★	jalpa November 05, 2018 14:12:35	jalpa November 05, 2018 14:13:00	1 11	
			Credit card Dataset ★★★★★	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	1	••••
			CustomerPaymentDetails_old ★★★★	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	1 1	
		14	Database_From_Database_Query_O ★★★★★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	1 9	
	\checkmark	-14	Dataset_From_Database ★★★★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	ця. П	



4. Click the **Roles** tab, to assign access rights to various roles.

Sma	arten anced Data Discov	very	ſ	🛔 Permissions							ome adn
Data Dataset	S	0	<u> </u>	Permissions Roles Users					107 1 -	Name 🔺	
Data			NAME	ROLES	VIEW	Sear WRITE	DELETE	Q EXPORT	ST DATA REBUILD		
æ		몡	2019-07-0						nin Jan-2020 16:58:25	4 8	
Cubes		唢	2019-07-2	DemoApp	\checkmark	\checkmark	\checkmark		nin Jan-2020 16:58:43	4 8	
		몡	2019-08-2						ər Aug-2019 09:24:19	1	
		몡	3ilnfotech ★★★★						esh Mehta Apr-2019 12:28:33	ц я .	
		몡	AB_datas ★★★★						ər Jun-2019 12:37:27	4	
		몡	Accentive					*	esh Mehta Apr-2019 11:44:38	ц я .	
			Aditya_Bir	▶ Apply permissions to other datasets					esh Mehta May-2019 16:51:47	1	
			Admission	OK CANCEL					Vi	49	



- 5. Select the box under the **VIEW**, **WRITE**, **DELETE**, and **EXPORT** permissions columns to assign that access to a role. For example, in the above image, you can select the **VIEW**, **WRITE**, and **DELETE** boxes for DemoApp role, to allow users with DemoApp role to view, modify, or delete the dataset.
- 6. Click the **Users** tab, to assign access rights to different users or group of users.

E	marten Advanced Data Dis	covery		🗒 Permissions							Welc	ome adr
Data		0		Permissions Roles Users All groups			Sear	ch	Q	107 1 -	Name 🔺	Q
Data			NAME	USERNAME	PERSON NAME	VIEW	WRITE	DELETE	EXPORT	ST DATA REBUILD		
sour	\checkmark		2019-07-0							nin Jan-2020 16:58:25	1 9	••••
Cube	es	150	2019-07-2	dhavaloza	Dhaval Oza					nin Jan-2020 16:58:43	47	
			2019-08-2	sanjayp	Sanjay Patel					er	_	
			***	kartik	Kartik Patel	\checkmark	\checkmark	\checkmark		Aug-2019 09:24:19		••••
		1	3ilnfotech ★★★★	Janvi	janvi					esh Mehta Apr-2019 12:28:33		••••
		-	AB_datas	Nisarg	nisarg					зг		
		1 <u>9</u> 1	****	pathik	Pathik Shah					Jun-2019 12:37:27		
			Accentive	rushabh	Rushabh Shelat				.	esh Mehta Apr-2019 11:44:38	1	••••
			Aditya_Bir	 Apply permissi 	ons to other datasets					esh Mehta May-2019 16:51:47	1	••••
			Admissior	OK CANCEL						Vi	49	••••

ASSIGN PERMISSIONS – ACCESS PERMISSIONS FOR USERS

- 7. Select the box under the **VIEW**, **WRITE**, **DELETE**, and **EXPORT** permissions columns to assign that access to a role. For example, in the above image, you can select the **VIEW**, **WRITE**, and **DELETE** boxes for the use 'kartik', to allow 'kartik' to view, modify, or delete the dataset.
- 8. Click **Apply permissions to other datasets**option to grant the same permissions to other datasets which you have selected for roles and users in the previous step.

This option allows you to grant the same set of permissions you have granted to a role for other datasets instead of granting the same set of permissions to the role for each datasets separately. For example, if you have grated view and export permissions to Role 1 and want to grant the same permissions for Dataset1, Dataset2, and Dataset3. You can use the **Apply permissions to other datasets** option to grant the view and export permissions to Role 1 for Dataset1, Dataset2, and Dataset3.

Permissions		
 Apply permissions to other data 	tasets	
Available datasets	Selected datasets	
	0	e
2019-07-25-sql-dataset-pradip	+ ^	
2019-08-22-Pradip-GA-Dataset	+	
3iInfotech_dataset	+	
AB_dataset	+	
Accentive_Dataset	+	
Aditya_Birla_dataset	+	
Admission count dataset	+	
AdventureWorks	+	
Age-Passthrough-ease-	+	
Age-Purchase Relationship-	+ •	

DATASET PERMISSION: APPLY PERMISSIONS TO OTHER DATASETS

- 9. Click the plus sign adjacent to the datasets for which you want to grant the permissions you have granted to the roles in the earlier step.
- 10. Click **OK**togrant the permissions you have selected for roles and users.

7.1.4 Deleting a Dataset

This feature enables authorized users to delete a Dataset. A deleted Dataset is no longer available in the system.

While deleting a Dataset, users may or may not delete Objects associated with that Dataset. Users can reuse these objects by associating them with another Dataset having the same columnar data structure as the deleted one.

Note:

If you delete a dataset that is associated with an object, the system displays an error message while accessing the object using deleted dataset.

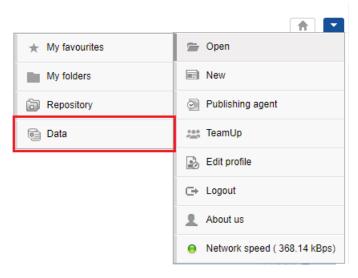
Reference: Concept Manual > Dataset Management > Deleting a Dataset

About this task

Use this task to delete a dataset.

Procedure

1. Click **Open** ->**Data** from the menu.



MENU OPTION - OPEN DATA

The system displays the following page.

Sma	rten Inced Data Discov	ery			v	Velcome Shya	
Data	sets						
Datasets	S	0	Ŧ	Search	Q Page 1 of 7 1 -	Name	•
			NAME	CREATED	UPDATED		
Data sources		몡	Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	1	••••
Cubes		1	Age-Purchase Relationship-PearsonCorrelation-Dataset	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	P	
		뻉	Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	P	
		몡	Cadila Product master	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	P	•••
		뼰	Credit card Dataset	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	1	
		뻉	CustomerPaymentDetails_old	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	ų.	•••
		14	Database_From_Database_Query_O ★ ★ ★ ★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	P	
		13	Dataset_From_Database ★ ★ ★ ★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	P	
		14	Dataset_From_Dataser ★★★★	Shyam Ramani October 11, 2018 14:10:44	Shyam Ramani October 11, 2018 14:10:44	P	••••
		1950	Dataset_From_RScript ★★★★	Shyam Ramani October 20, 2018 13:13:27	Shyam Ramani October 20, 2018 13:13:27	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

OPEN A DATASET – SELECTING A DATASET

- 2. Select the checkbox adjacent to the dataset you want to delete.
- 3. Click the delete icon.

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

Sma	rten aced Data Discover	ry				Welcome Shyam R	Ramani
Data	sets						
Datasets		0		Search	Q Page 1 of 7 1 -	Name 🔺	
Data sources			NAME	CREATED	UPDATED		
			Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	ø	•••
Cubes		몡	Age-Purchase Relationship-PearsonCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	ф	•••
, une a		몡	Cadila Product Data Set ★★★★	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	ця —	•••
			Cadila Product master ★★★★★	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	ця —	
			Classification dataset ★★★★★	jalpa November 05, 2018 13:40:41	jalpa November 05, 2018 13:58:52	ф	
			CO dataset ★★★★★	jalpa November 05, 2018 14:12:35	jalpa November 05, 2018 14:13:00	. .	
			Credit card Dataset	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	ø -	
			CustomerPaymentDetails_old ★★★★	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	ф	
		1954	Database_From_Database_Query_O ★★★★★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	ф	
	\checkmark	17K)	Dataset_From_Database ★★★★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	ø -	

DELETING A DATASET – CLICKING THE DELETE ICON

4. Click **YES**, to delete the selected dataset.

	rten ord Data Discovery			〕 Delete			v	lelcome Shyam Ram. 4
Data	sets		8 4	Are you sure you want to delete selected on Also delete associated object(s)	object(s)?	Q	Page 1 of 4 1 +	Name 🔺
Datasets		NAME	E	YES NO			UPDATED	
Data sources		-st Age-	Passthrough-ease-Spearman	Correlation-Dataset	jalpa April 03, 2018 13	2:18:03	jalpa May 14, 2018 11:38:25	
Gubes		rel App	Purchase Relationship-Pears	onCorrelation-Dataset	jalpa April 03, 2018 1	2.16:10	jalpa May 14, 2018 11:38:53	
Cupes		el Educ	cation wise balance difference	-Dataset	jalpa April 03, 2018 12	2.21.39	jalpa May 14, 2018 11:39:28	

DELETING A DATASET – PROVIDING CONFIRMATION TO DELETE THE DATASET

If there are objects associated with the dataset, the system displays the option asking if you want to delete the associated objects along with the dataset. You can select the option if you want to delete the objects or associate the objects with another dataset.

Sma Advar	rten ced Data Discovery			🗎 Delete				Welcome Shyam Ram
Data	sets			Are you sure you want to delete selected object(s)? Also delete associated object(s) YES NO		٩	Page 1 of 4 1 🗸	Name 🔺
			NAME				UPDATED	
Data sources		몡	Age-Passthrough-ease-Spearman	Correlation-Dataset	jalpa April 03, 201	8 12:18:03	jalpa May 14, 2018 11:38:25	
Cubes			Age-Purchase Relationship-Pears	onCorrelation-Dataset	jalpa April 03, 201	8 12:16:10	jalpa May 14, 2018 11:38:53	
cubes			Education wise balance difference	-Dataset	jalpa April 03, 201	8 12:21:39	jalpa May 14, 2018 11:39:28	

DELETING A DATASET – DELETING ASSOCIATED OBJECTS

7.1.5 Copying a Dataset

This feature enables authorized users to replicate a Dataset along with its structure, data source, and data from the dataset.

It allows users to create a copy of a Dataset without going through the process of creating a Dataset from scratch.



About this task

Use this task to copy a dataset.

Procedure

1. Click **Open** ->**Data** from the menu.

★ My favourites	🖀 Open
My folders	New
B Repository	Publishing agent
📴 Data	📇 TeamUp
	Edit profile
	⊂→ Logout
	About us
	O Network speed (368.14 kBps)

MENU OPTION - OPEN DATA

The system displays the following page.

Sma	rten nced Data Disc	covery			V	/elcome Shya	
Data	sets						
atasets	G	0	Ŧ	Search	Q Page 1 of 7 1 -	Name	•
			NAME	CREATED	UPDATED		
Data ources			Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	1	••••
Cubes		몡	Age-Purchase Relationship-PearsonCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	1 7	••••
		몡	Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31		
			Cadila Product master ★★★★	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	1	
		-191	Credit card Dataset ★★★★	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	1	••••
			CustomerPaymentDetails_old ★★★★	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	1	
		455	Database_From_Database_Query_O ★ ★ ★ ★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	ų.	••••
		-156	Dataset_From_Database ★★★★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	1 9	••••
		¥4	Dataset_From_Dataser	Shyam Ramani October 11, 2018 14:10:44	Shyam Ramani October 11, 2018 14:10:44	P	•••
		-	Dataset_From_RScript	Shyam Ramani October 20, 2018 13:13:27	Shyam Ramani October 20, 2018 13:13:27	1	••••

OPEN A DATASET – SELECTING A DATASET

- 2. Select the checkbox adjacent to the dataset you want to copy.
- 3. Click the copy icon.

The system displays the **Copy dataset** dialog box.

Sma Adva	nced Data Disco	wery			۷	/elcome Shyam	Raman
Data	isets						
Datasets	S	0	2 B	Search	Q Page 1 of 7 1 -	Name 🔺	
			NAME	CREATED	UPDATED		
Data sources		-elli	Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	ų.	••••
Cubes		1	Age-Purchase Relationship-PearsonCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	1	••••
Cubca			Cadila Product Data Set ★★★★	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	1	••••
			Cadila Product master ★★★★★	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	1	••••
		1	Classification dataset ★★★★★	jalpa November 05, 2018 13:40:41	jalpa November 05, 2018 13:58:52	1	••••
		1	CO dataset ★★★★	jalpa November 05, 2018 14:12:35	jalpa November 05, 2018 14:13:00	1	••••
		-eel	Credit card Dataset ★★★★★	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	1	••••
		- egi	CustomerPaymentDetails_old ★★★★★	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	1	••••
		1954	Database_From_Database_Query_O ★ ★ ★ ★ ★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	1	•••
		ь¥(Dataset_From_Database ★★★★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	P	•••

COPYING A DATASET - CLICKING THE COPY ICON

4. Specify a name and description for the new dataset to be created using the dataset you copied in the previous step.

Sma Advan	rten Inced Data Disco	wery		🕒 Copy dataset			Welcome Sh	yam Rami
Data	sets			Name Copy_Dataset_From_Database				
Datasets	S	0		Description Copied Form Dataset : Dataset From Database		Q Page 1 of 7 1 -	Name 4	•
			NAME			UPDATED		
Data sources		191	Age-Passthrough-ease-SpearmanC		// 13	jalpa May 14, 2018 11:38:25	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•••
Cubes		-191	Age-Purchase Relationship-Pearson	OK CANCEL	10	jalpa May 14, 2018 11:38:53	,	
		-1991	Cadila Product Data Set		Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•••
		-191	Cadila Product master ★★★★★		Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•••
		1	Classification dataset ★★★★		jalpa November 05, 2018 13:4	jalpa 40:41 November 05, 2018 13:58:52	1	••••
		-91	CO dataset ★★★★★		jalpa November 05, 2018 14:1	jalpa 12:35 November 05, 2018 14:13:00	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	••••
		·(8)	Credit card Dataset ★★★★		jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•••
		·(8)	CustomerPaymentDetails_old ★★★★		Ritu Gupta October 05, 2018 15:16:	Ritu Gupta 13 October 11, 2018 13:51:36	ų.	•••
		= <u>}</u>	Database_From_Database_Query_ ★★★★	0	Shyam Ramani October 13, 2018 14:25:	Shyam Ramani 37 October 13, 2018 14:25:38	1 99	•••
		1 <u>34</u>	Dataset_From_Database ★★★★		Shyam Ramani October 12, 2018 01:08:	Shyam Ramani 51 October 13, 2018 15:21:17	4 8	••••

COPYING A DATASET - PROVIDING A NEW NAME AND DESCRIPTION

5. Click **OK**.

The system creates a new dataset using the dataset you have copied with a new name and the description you have provided. The system copies complete dataset metadata definition and data of the selected dataset. The system will not copy permissions from the original dataset.

7.1.6 Exporting a Dataset

You can export a dataset definition in the XML format. The exported XML file can be imported in same or another instance of Smarten. The system exports metadata, data source reference, and preparation actions (as per action editor) used for the dataset in the XML file. Dataset export does not include dataset permissions and data.

You must also import associated data source while importing a dataset. If the associated data source is not available in the system where the dataset is imported, the system will not be able to extract data for that dataset. In such cases, you must change the data source for the imported dataset.

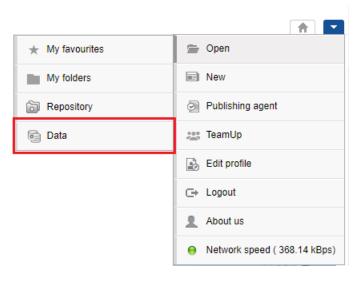
You can use dataset export feature to take backup of the dataset and you can restore a dataset by importing the XML file of that dataset.

About this task

Use this task to export a dataset.

Procedure

1. Click **Open** ->**Data** from the menu.



MENU OPTION - OPEN DATA

The system displays the following page.

	rten nced Data Disco	wery			٧	/elcome Shyam Rar
Data	sets					
Datasets	S	0	<u>,</u>	Search	Q, Page 1 of 7 1 -	Name 🔺
			NAME	CREATED	UPDATED	
Data Data		똉	Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
wbes		몡	Age-Purchase Relationship-PearsonCorrelation-Dataset	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	<i></i>
ubes		-191	Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	"
		1991	Cadila Product master	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	ця —
		·(#)	Credit card Dataset	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	"
		- egi	CustomerPaymentDetails_old	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	<i></i>
		-	Database_From_Database_Query_O ★ ★ ★ ★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	, ,
		-154	Dataset_From_Database	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	,
		134	Dataset_From_Dataser ★★★★	Shyam Ramani October 11, 2018 14:10:44	Shyam Ramani October 11, 2018 14:10:44	, ,
		n ji ji	Dataset_From_RScript	Shyam Ramani October 20, 2018 13:13:27	Shyam Ramani October 20, 2018 13:13:27	<i></i>

OPEN A DATASET – SELECTING A DATASET

- 2. Select the checkbox adjacent to the dataset you want to export.
- 3. Click the export icon.

The system downloads the dataset in .xml format.

Sma	rten nced Data Discove	ery				Welcome Shyam Ramani
Data	sets					
Datasets	S	0	L B E	Search	Q Page 1 of 7 1 -	Name 🔺
0			NAME	CREATED	UPDATED	
Data sources			Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	,
Cubes			Age-Purchase Relationship-PearsonCorrelation-Dataset ★★★★★	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	".
Cubes		1	Cadila Product Data Set ★★★★	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	".
		몡	Cadila Product master ★★★★★	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	"
			Classification dataset ★★★★	jalpa November 05, 2018 13:40:41	jalpa November 05, 2018 13:58:52	
			CO dataset ★ ★ ★ ★ ★	jalpa November 05, 2018 14:12:35	jalpa November 05, 2018 14:13:00	"
			Credit card Dataset ★★★★	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	<i></i>
			CustomerPaymentDetails_old ★ ★ ★ ★ ★	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	,
		ιĶ(Database_From_Database_Query_O ★ ★ ★ ★ ★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	
		nýš()	Dataset_From_Database ★★★★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	<i></i>

EXPORTING A DATASET – CLICKING THE EXPORT ICON

7.1.7 Importing a Dataset

You can import an exported dataset in XML format from the same instance or another instance of Smarten.

Note:

Dataset Export does not include data. You must also import the associated data source along with thedataset. If the associated data source is not available in the system, the system will not be able to extract data for that dataset. In such cases, you must change the data source for those datasets.

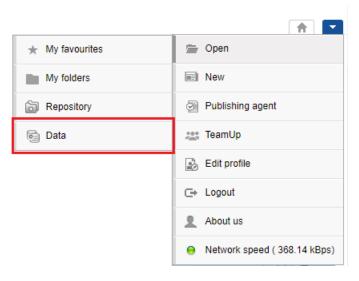
After importing a dataset, you must open and publish the dataset to extract data from the associated data source.

About this task

Use this task to import a dataset.

Procedure

1. Click **Open** ->**Data** from the menu.



MENU OPTION - OPEN DATA

The system displays the following page.

Sma	rten nced Data Discove	ery			v	/elcome Shya	_
Data	sets						
Datasets	S	0	Ŧ	Search	Q Page 1 of 7 1 -	Name	•
			NAME	CREATED	UPDATED		
Data sources			Age-Passthrough-ease-SpearmanCorrelation-Dataset $\star \star \star \star$	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	1	
Cubes		몡	Age-Purchase Relationship-PearsonCorrelation-Dataset	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53		••••
		1	Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	P	••••
		몡	Cadila Product master	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41		
		뺑	Credit card Dataset	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32		
		몡	CustomerPaymentDetails_old	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36		••••
		ηĶ	Database_From_Database_Query_O	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	P	••••
		Ŵ	Dataset_From_Database	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	1	••••
		ι¥.	Dataset_From_Dataser ★★★★	Shyam Ramani October 11, 2018 14:10:44	Shyam Ramani October 11, 2018 14:10:44	1	••••
		- M	Dataset_From_RScript ★★★★★	Shyam Ramani October 20, 2018 13:13:27	Shyam Ramani October 20, 2018 13:13:27	49	••••

OPEN A DATASET – SELECTING A DATASET

2. Click the import icon.

The system displays the Import Dataset dialog box.

Sma	rten nced Data Disco	overy				Welcome Shyam Rama
Data	sets					
Datasets	S	0		Search	Q Page 1 of 7 1 -	Name 🔺
			NAME	CREATED	UPDATED	
Data sources		喇	Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	ы л
		喇叭	Age-Purchase Relationship-PearsonCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	,
Cubea		- egi	Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	ы л
		- Mil	Cadila Product master	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		- U	Classification dataset	jalpa November 05, 2018 13:40:41	jalpa November 05, 2018 13:58:52	,
		1991	CO dataset ★ ★ ★ ★ ★	jalpa November 05, 2018 14:12:35	jalpa November 05, 2018 14:13:00	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		1991	Credit card Dataset ★★★★★	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		喇叭	CustomerPaymentDetails_old ★★★★	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		- M	Database_From_Database_Query_O ★★★★★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	"
		ι¥(Dataset_From_Database ★★★★★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	<i></i>

IMPORTING A DATASET – CLICKING THE IMPORT ICON

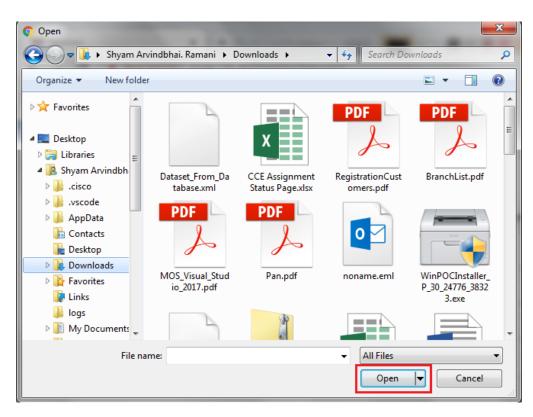
3. Click the **BROWSE** button.

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

Smal	rten Int Data Discourse			O Import Dataset			Vielcome S	hyam Ram		
Data	sets			Select file Choose File						
Datasets	s	0	2 3 4	Overwrite	L	Page 1 of 7 1 + Name +				
0			NAME	OK CANCEL		UPDATED	UPDATED			
Data Bources				ase-SpearmanCorrelation-Dataset	jalpa April 03, 2018 12,10:03	jalpa May 54, 2018 11 38 25				
and the second s		.4	Age-Purchase Rela 余余余余	tionship-PearsonCorrelation-Dataset	jølpa April 03, 2018 12;18;10	jalpa May 14, 2010 11:30:53				
Cont.		-15	Cadila Product Dat 来来来来	a Set	Rajesh Mehta July 27, 2010 12:27:01	Rajesh Mehta July 27, 2018 14,12:51				
		-	Cadia Product mar ****	der	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Melita July 27, 2018 12:29:41				
		-	Classification datas * * * * *	et	jalpa November 05, 2018-13-40-41	jalpa November 05, 2018 13:58:52				
		-6	CO dataset ****		jaba November 05, 2018 14 12:35	jalpa November 05, 2018 14:13:00				
		-9	Credit card Dataset	N.	jalpa July 26, 2016 10-42 01	jalpa July 26, 2018 19:42:52				
		-1	CustomerPayment + + + + +	Details_old	Ritu Gupta October 05, 2018 15 18 13	Ritu Gupla October 11, 2018 13:51:36				
		-99	Database_From_D	atabase_Query_Q	Shyano Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38				
	Z	44	Dataset_From_Dat	abase	Shyam Ramani October 12, 2018 01.00 51	Shyam Ramani October 13, 2018 15:21 17				

IMPORTING A DATASET - OPENING THE OPEN DIALOG BOX

4. Select the XML file for the dataset that has been exported, and then click **Open**.



IMPORTING A DATASET - THE OPEN DIALOG BOX

5. If a dataset with the same name as of the imported dataset exists in the system, you can select the **Overwrite** checkbox, to allow the system to overwrite dataset in the system with the imported dataset.

Sma	rten wat Data Discov		-	O Import Dataset			Welcome S	tiyam Ran
Data	sets			Select file C (fakepath/Dataset, From, Database xml	BROWSE			
Datasets		0	2 3 4	Cverwrite		Page 1 of 7 1 +	Name	•
0	NAME NAME			OK CANCEL		UPDATED		
Data		4	Age-Passthrough-e * * * * *	ase-SpearmanCorrelation-Dataset	jaipa April 03, 2018 12:18:03	jøpa May 14, 2018 11:38:25		
-		-1	Age-Purchase Rela ☆☆☆☆	tionship-PearsonCorrelation-Dataset	jalpa April 83, 2018 12:16:18	jaipa May 14, 2018 11 35 55	-	
labes		-9	Cadila Product Data * * * * *	a Sat	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:01	10	•••
		-11	Cadila Product mas ****	ter	Rajesh Mehta July 27, 2016 12:28:24	Rajesh Mehta July 27, 2016 12:29:41		
		-5	Classification datas * * * * *	et	jaipa Hovember 85, 2918 13:40:41	jalpa Novembel 95, 2018 13.58:52		
		-#	CO dataset ****		jalpa November 05, 2010 14:12:35	jøba November 05, 2018 14:13:00		
		-	Credit card Dataset * * * * *		jalpa July 26, 2018 19:42:01	jøpa July 26, 2010 19 42 32		
			CustomerPayment(****	Defails_old	Ritu Gupta October 05, 2018 15 16 13	Ritu Gupta October 11, 2018 13:51:26		
		99	Database_From_Do	atabase_Query_0	Styam Ramani October 13, 2016 14 25:37	Shyam Ramani October 13, 2018 14:25:36		
	2	99	Dataset_From_Data ★ ★ ★ ★	abase	Shyam Ramani October 12, 2018 01:05:51	Shyam Ramani October 13, 2018 15:21:17		

IMPORTING A DATASET – SELECTING THE OVERWRITE OPTION

If the **Overwrite** option is not selected, the system retains the existing dataset and adds the imported dataset with a new name. The new name of the dataset is appended with a numeric value in increasing order. For example, if you import ABC dataset and a dataset with the same name already exists, the system will rename the imported dataset as ABC_1.

Similarly, if dataset with name ABC_1 exists, the system will rename the imported dataset as ABC_2.

6. Click OK.

7.1.8 Viewing Dataset Information

You can view information about a dataset such as a name, last updated, data source, dataset size, and much more. Based on the

About this task

Use this task to view information about a dataset.

Procedure

1. Click **Open** ->**Data** from the menu.

★ My favourites	🚘 Open
My folders	New New
B Repository	Publishing agent
📴 Data	📇 TeamUp
	Edit profile
	⊂→ Logout
	L About us
	O Network speed (368.14 kBps)

MENU OPTION - OPEN DATA

The system displays the following page.

Sma	rten nced Data Disco	overy				Welcome Shya	
Data	sets						
Datasets	S	0	Ŧ	Search	Q, Page 1 of 7 1 👻	Name	•
			NAME	CREATED	UPDATED		
Data ources		몡	Age-Passthrough-ease-SpearmanCorrelation-Dataset	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	ця. 1	••••
wbes		몡	Age-Purchase Relationship-PearsonCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	1	••••
ubes		몡	Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	1	••••
		몡	Cadila Product master ★★★★★	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	1	••••
		몡	Credit card Dataset ★★★★	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	1	••••
		몡	CustomerPaymentDetails_old ★ ★ ★ ★	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	1	••••
		3	Database_From_Database_Query_O ★ ★ ★ ★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	1	••••
		3	Dataset_From_Database ★ ★ ★ ★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	1	
		3	Dataset_From_Dataser ★★★★	Shyam Ramani October 11, 2018 14:10:44	Shyam Ramani October 11, 2018 14:10:44	1	
		3	Dataset_From_RScript	Shyam Ramani October 20, 2018 13:13:27	Shyam Ramani October 20, 2018 13:13:27	ц я	••••

OPEN A DATASET – SELECTING A DATASET

- 2. Select the checkbox adjacent to the dataset whose information you want to view.
- 3. Click the information icon.

Adva	rten nced Data Disco	overy			v	/elcome Shyam Raman
Data	sets					
Datasets	S	0		Search	Q Page 1 of 7 1 👻	Name 🔺
			NAME	CREATED	UPDATED	
Data sources		·())	Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	1
Cubes		191	Age-Purchase Relationship-PearsonCorrelation-Dataset	jalpa jalpa jalpa April 03, 2018 12:16:10 May 14, 2018 11:38:53		,
Cubes		1	Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	ы л
			Cadila Product master ★★★★	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			Classification dataset ★★★★	jalpa November 05, 2018 13:40:41	jalpa November 05, 2018 13:58:52	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			CO dataset ★★★★	jalpa November 05, 2018 14:12:35	jalpa November 05, 2018 14:13:00	,
		1	Credit card Dataset ★★★★	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		1	CustomerPaymentDetails_old ★★★★	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	ул
		17	Database_From_Database_Query_O ★ ★ ★ ★ ★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	,
			Dataset_From_Database ★★★★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	,

The system displays the Datasets information dialog box.

VIEW DATASET INFORMATION – CLICKING THE INFORMATION ICON

- 4. Click the **General** tab, to view general information about the dataset. The following information is displayed:
 - Name: Name of the dataset.
 - **Created**: Date and time when the dataset was created.
 - **Updated**: Date and time when the dataset was last updated.
 - Refreshdate: Date and time when the dataset was last refreshed.
 - Datasource: Name of the data source used in the dataset.
 - **No.records**: Number of records available in the dataset.
 - Totalcolumns: Number of columns available in the dataset.

Advar	rten Iced Data Discover	v		(i) Dataset	information				v	Welcome St			
Datasets			General Name Dataset_From Created	-	Objects			Page 1 of 7 1 →	Name	•			
Datasets			NAME	Updated	Shyam Ramani October 12, 2018 01:08:51 Updated				UPDATED				
Data sources		몡	Age-Passthrough-e	Shyam Rama Refresh date October 13, 2		:21:17			alpa May 14, 2018 11:38:25	1	•••		
Cubes			Age-Purchase Rela ★★★★★		rks_Datasource				alpa May 14, 2018 11:38:53	1 2			
04000		쏍	Cadila Product Dat	DATASET SI	ZE SUMMARY				Rajesh Mehta July 27, 2018 14:12:31	1			
		몡	Cadila Product mas	No. records			60919 75		Rajesh Mehta July 27, 2018 12:29:41	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
			Classification datas	CLOSE					alpa November 05, 2018 13:58:52	4 8 9			
		몡	CO dataset					յութո November 05, 2018 14:12:35	jalpa November 05, 2018 14:13:00	1			
		몡	Credit card Datase ★★★★★	t				jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	1 11			
		몡	CustomerPayment	Details_old				Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	4 8			
		吲	Database_From_D ★★★★★	atabase_Query	_0			Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	4 8			
		150	Dataset_From_Dat ★★★★★	abase				Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	ця. П			

VIEWING DATASET INFORMATION – VIEWING GENERAL INFORMATION

5. Click the **Dataset columns** tab, to view information regarding the dataset columns of the selected dataset. The tab displays the name of the columns and their data type.

Sma Advar	rten nced Data Discov	ery		(j) Dataset information	W	iyam Rami		
Data	sets			General Dataset columns Objects COLUMN NAME COLUMN TYPE		î		
Datasets			 B B	Sales_Customer_Custo int		Page 1 of 7 1 -	Name	•
			NAME	Sales_Customer_Territor int		UPDATED		
Data sources		1	Age-Passthrough-e	Sales_Customer_Accoun string		alpa May 14, 2018 11:38:25	, #	••••
	Age-Purchase Rel			CustomerType string Sales_Customer_rowguid string		alpa May 14, 2018 11:38:53	, #	
Cubes	Cubes			Sales_Customer_Modifie timestamp		Rajesh Mehta July 27, 2018 14:12:31	, 9	•••
			Cadila Product mas	Sales_Store_CustomerID int 		Rajesh Mehta July 27, 2018 12:29:41	ця н	•••
			Classification datas	Sales_Store_SalesPerso int		alpa November 05, 2018 13:58:52	1	••••
		몡	CO dataset	CLOSE		alpa November 05, 2018 14:13:00		•••
			Credit card Dataset		jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	4 8 9	•••
			CustomerPayment	Details_old	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	4 8 9	•••
		1¥I	Database_From_D	atabase_Query_O	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	4 5 9	•••
	\checkmark	阙	Dataset_From_Dat	abase	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	45	••••

VIEWING DATASET INFORMATION - VIEWING THE DATASET COLUMN INFORMATION

6. Click the **Objects** tab, to view information regarding the objects using the selected dataset.

Advanced	n Data Discov	very			@ Dataset information				
Dataset	ts				General Dataset columns Objects				
			L B	Crosstab	pred	Page 1 of 1	Name	•	
Datasets				NAME	Repository/Objects/FlightDataCrosstab	UPDATED			
				TO THE	Graph		or DALED		
Data			몡	FlightData_Nov_Dec_2016_Dataset_Pred ★ ★ ★ ★	Repository/Objects/FlightDataGraph		admin 21-Sep-2018 15:03:44	1	
Cubes			몡	Hot lead Prediction-Binary Classification-Dataset $\pm \pm \pm \pm$	Tabular		jalpa 03-Apr-2018 12:28:30	ø	
Cubes			몡	Hot lead Prediction-Binary Classification-Dataset1 \pm \pm \pm \pm	KPIs		jalpa 12-Apr-2018 15:29:45	19	
			몡	Medical cost prediction-Multiple Regression-Datase 含含含含素	GeoMap		jalpa 03-Apr-2018 13:09:29	19	
			몡	Red wine quality prediction-Binary Classification De ★★★★	SmartenInsight		jalpa 03-Apr-2018 13:51:29	19	
					Repository/Predictive Analytics/Predicting arrival delay of flight* Repository/Predictive Analytics/Regression/Predicting arrival delay of flight*				
					SmartenView				
					Repository/Objects/FlightDataView				
					CLOSE				

VIEWING DATASET INFORMATION - VIEWING THE OBJECTS RELATED INFORMATION

7. Click CLOSE.

7.1.9 Marking a Dataset as IT Approved

This feature enables IT staff to approve a Dataset. Marking a Dataset as IT approved certifies it for data quality and helps users in identifying quality Datasets.

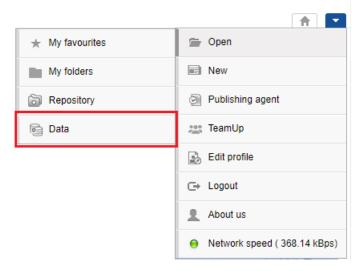
Reference: Concept Manual > Dataset Management >IT Certification for Dataset

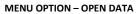
About this task

Use this task to mark a dataset as IT approved.

Procedure

1. Click **Open** ->**Data** from the menu.





The system displays the following page.

-	rten need Data Discove	iry				Welcome Shyam Rama
Data	sets					
Datasets	S	0	Ŧ	Search	Q Page 1 of 7 1 -	Name 🔺
			NAME	CREATED	UPDATED	
Data sources		1	Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	P
Cubes			Age-Purchase Relationship-PearsonCorrelation-Dataset	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	,
cubca			Cadila Product Data Set ★★★★	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	
			Cadila Product master	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	"
		1	Credit card Dataset ★★★★	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	ц л
		1	CustomerPaymentDetails_old	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	
		ъ¥Į	Database_From_Database_Query_O ★ ★ ★ ★ ★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	P
		4	Dataset_From_Database ★★★★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	
		14	Dataset_From_Dataser ★★★★	Shyam Ramani October 11, 2018 14:10:44	Shyam Ramani October 11, 2018 14:10:44	ф .
		13KU	Dataset_From_RScript ★★★★★	Shyam Ramani October 20, 2018 13:13:27	Shyam Ramani October 20, 2018 13:13:27	

OPEN A DATASET – SELECTING A DATASET

- 2. Select the checkbox adjacent to the dataset you want to mark as IT approved.
- 3. Click the Mark IT Approved icon.

Sma Advar	rten need Data Discovery	y			W	elcome Shyar	
Data	sets						
Datasets	S	0	Z B B V Ø D B L F	Search	Q Page 1 of 7 1 -	Name	•
			NAME	CREATED	UPDATED		
Data sources			Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	ų.	••••
Cubes			Age-Purchase Relationship-PearsonCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	1	•••
Cubes			Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	1	•••
			Cadila Product master ★★★★	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	1	••••
			Classification dataset ★★★★★	jalpa November 05, 2018 13:40:41	jalpa November 05, 2018 13:58:52	ų.	••••
			CO dataset ★★★★	jalpa November 05, 2018 14:12:35	jalpa November 05, 2018 14:13:00	ų.	•••
			Credit card Dataset ★★★★	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	1	••••
		1	CustomerPaymentDetails_old ★ ★ ★ ★ ★	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	ų.	•••
		3	Database_From_Database_Query_O ★ ★ ★ ★ ★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	1	•••
		14	Dataset_From_Database ★★★★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	1	••••

MARKING A DATASET – CLICKING THE MARK IT APPROVED ICON

The system marks the dataset as IT approved and displays a check symbol adjacent to the dataset.

Smai	r ten ced Data Discove	ery			V	Velcome Shyar	
Data	sets						
Datasets	G	0	Ŧ	Search	Q Page 1 of 7 1 -	Name	•
			NAME	CREATED	UPDATED		
Data ources			Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	1	••••
ubes		몡	Age-Purchase Relationship-PearsonCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53		••••
Jubeo		몡	Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31		
		몡	Cadila Product master	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	1	
			Classification dataset	jalpa November 05, 2018 13:40:41	jalpa November 05, 2018 13:58:52	1 9	
		몡	CO dataset ★★★★	jalpa November 05, 2018 14:12:35	jalpa November 05, 2018 14:13:00	1	
		몡	Credit card Dataset ★★★★	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	4 99	
			CustomerPaymentDetails_old	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	1 99	
		154	Database_From_Database_Query_O	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	P	
	-	×4	Dataset_From_Database ★★★★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	1	•••

MARKING A DATASET – THE CHECK MARK INDICATING THAT THE DATASET IS IT APPROVED

7.1.10 Unmarking a Dataset as IT Approved

This feature enables IT staff to unmark the datasets that are marked as approved.

Reference: Concept Manual > Dataset Management > IT Certification for Dataset

About this task

Use this task to unmark a dataset that is marked as IT approved.

Procedure

1. Click **Open** ->**Data** from the menu.

★ My favourites	🚍 Open
My folders	New New
B Repository	Publishing agent
📴 Data	📇 TeamUp
	Edit profile
	⊂→ Logout
	1 About us
	Network speed (368.14 kBps)

MENU OPTION - OPEN DATA

The system displays the following page.

Sma	nced Data Discove	erv				Welcome Shya	
Data		,				1	T
Datasets	S	0	Ŧ	Search	Q Page 1 of 7 1 -	Name	•
			NAME	CREATED	UPDATED		
Data sources		1	Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	1	
Cubes			Age-Purchase Relationship-PearsonCorrelation-Dataset	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	ц я	
Cubes			Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	4 8	••••
			Cadila Product master	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	ц я	
		1	Credit card Dataset	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	ų.	••••
		1	CustomerPaymentDetails_old	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	9	
		14	Database_From_Database_Query_O ★ ★ ★ ★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	P	
		44	Dataset_From_Database	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	9	
		ι¥(Dataset_From_Dataser ★★★★	Shyam Ramani October 11, 2018 14:10:44	Shyam Ramani October 11, 2018 14:10:44	P	••••
		嘭	Dataset_From_RScript	Shyam Ramani October 20, 2018 13:13:27	Shyam Ramani October 20, 2018 13:13:27	ц л	

OPEN A DATASET – SELECTING A DATASET

2. Select the checkbox adjacent to the dataset you want to unmark.



3. Click the Unmark IT Approved icon.

	ced Data Discove	iry				lcome Shy	
Datas	sets						
atasets	G	0	4 🖻 🖡 🗸 Ø Ø 🕯 🛓 F	Search	Q Page 1 of 7 1 -	Name	•
			NAME	CREATED	UPDATED		
ata ources		- U	Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	4 9	
ubes			Age-Purchase Relationship-PearsonCorrelation-Dataset	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	1	
			Cadila Product Data Set	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	P	
			Cadila Product master ★★★★	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	1	
			Classification dataset ★★★★	jalpa November 05, 2018 13:40:41	jalpa November 05, 2018 13:58:52	49	
		- U	CO dataset ★★★★	jalpa November 05, 2018 14:12:35	jalpa November 05, 2018 14:13:00	49	
			Credit card Dataset ★★★★	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	1	
			CustomerPaymentDetails_old	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	49	
		4	Database_From_Database_Query_O ★ ★ ★ ★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	1	
	~	ŝ	Dataset_From_Database	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

UNMARKING A DATASET - CLICKING THE UNMARK IT APPROVED ICON

The system unmarks the dataset as IT approved and the check symbol adjacent to the dataset is no longer available.

Advar	rten nced Data Discow	ery				Welcome Shya	
Data	sets						
Datasets	S	0	¥.	Search	Q Page 1 of 7 1 -	Name	•
			NAME	CREATED	UPDATED		
Data sources		뻉	Age-Passthrough-ease-SpearmanCorrelation-Dataset ★★★★★	jalpa April 03, 2018 12:18:03	jalpa May 14, 2018 11:38:25	4 8	
Cubes		몡	Age-Purchase Relationship-PearsonCorrelation-Dataset ★★★★★	jalpa April 03, 2018 12:16:10	jalpa May 14, 2018 11:38:53	ця.	
Cubes		몡	Cadila Product Data Set ★★★★	Rajesh Mehta July 27, 2018 12:27:01	Rajesh Mehta July 27, 2018 14:12:31	ця.	
		몡	Cadila Product master ★★★★	Rajesh Mehta July 27, 2018 12:28:24	Rajesh Mehta July 27, 2018 12:29:41	1	
		몡	Classification dataset ★★★★	jalpa November 05, 2018 13:40:41	jalpa November 05, 2018 13:58:52	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		몡	CO dataset ★★★★	jalpa November 05, 2018 14:12:35	jalpa November 05, 2018 14:13:00	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		삥	Credit card Dataset ★★★★★	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32	ц л	
		몡	CustomerPaymentDetails_old ★★★★	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36	ця.	
		Ň	Database_From_Database_Query_O ★ ★ ★ ★ ★	Shyam Ramani October 13, 2018 14:25:37	Shyam Ramani October 13, 2018 14:25:38	4 9	
		14	Dataset_From_Database ★★★★	Shyam Ramani October 12, 2018 01:08:51	Shyam Ramani October 13, 2018 15:21:17	ц л	

UNMARKING A DATASET - THE CHECK MARK FOR IT CERTIFIED IS REMOVED

7.2 Operations on Dataset

7.2.1 Managing Columns in the Resultset

You can hide the columns that are displayed in a dataset, delete columns, export data from selected columns, and arrange the order in which they are displayed.

7.2.1.1 Displaying Columns in a Dataset

You can display the hidden columns in a dataset.

Note: This is a front-end operation and does not affect any data in a dataset.

About this task

Use this task to display the hidden columns in a dataset.

Procedure

- 1. Open the dataset for which you want to display the hidden columns.
- 2. Click the Result set menu icon.

4	Smarten Advanced Data Discovery				١	Nelcome Shyam Rama	ini
F	lightData_201	6_SV					
Ξ.				🛢 💿 💿 🚑 tu	***		
					Last refreshed on A	pril 13, 2018 23:35:31	
R	esult set 🚽 Fligh	tData_Nov_Dec_2016	_Dataset_Pred				
#	C DEP_YEARQ	O DEP_QUARTERQ	C DEP_MONTH Q	D DEP_DAY_OF_MONTH Q	O DEP_HOUR Q	C DEP_DATE	٩
1	2016	Q2	6	9	19	June 09, 2016 19:00:00	
2	2016	Q2	6	18	11	June 18, 2016 11:00:00	
3	2016		0	14	9	August 14, 2016 09:00:00	
	2010	Q3	8	14	8	August 14, 2010 09:00:00	



3. Click Manage columns from the menu.

Advanced Data Discovery	,			١	Welcome Shyam Rama
FlightData_20)16_SV				
			📑: 🛈 💿 🚔 " _{""}	***	
				I and and an hard and d	
				Last refreshed on A	April 13, 2018 23:35:31
	ghtData_Nov_Dec_2016	_Dataset_Pred		Last refreshed on A	April 13, 2018 23:35:31
Result set - Flig Manage columns Refresh from source			D DEP_DAY_OF_MONTHQ		
Manage columns			D DEP_DAY_OF_MONTHQ		
Manage columns Refresh from source		O DEP_MONTHQ		C DEP_HOURQ	O DEP_DATE
Manage columns Refresh from source Properties		C DEP_MONTH Q	9	O DEP_HOUR Q	O DEP_DATE

MANAGE COLUMNS—THE MANAGE COLUMNS OPTION

		6_S	💾 📰 💿 💿 🚳 😘 🔛 🏟	
			Last refreshed on	April 13, 2018 23:35:31
Re	esult set 👻 Fligt	nt ≫	Manage columns	
ī	O DEP_YEARQ	©		
				Q
	2016 2016	Q2 Q2		
	2016	Q2		
	2016	Q4	NAME	
	2016	Q3	DEP_YEAR (Integer)	• • • • 1
	2016	Q2		••••
	2016	Q2	DEP_QUARTER (String)	• 🕒 💿 I
	2016	Q3	DEP_MONTH (Integer)	A
	2016	Q3		• • • 1
	2016	Q1	DEP_DAY_OF_MONTH (Integer)	• • • 1
	2016	Q1		••••
	2016	Q1	DEP_HOUR (Integer)	• • • • ‡
	2016	Q4	DEB DATE (Datatima)	
	2016	Q4	DEP_DATE (Datetime)	● D ③ Î
	2016 2016	Q3 Q2	ARR_YEAR (Integer)	• C • 1
	2016	Q3		
	2016	Q3	ARR_QUARTER (String)	• • • 1
	2016	Q1	ARR_MONTH (Integer)	
	2016	Q3		• • • 1
	2016	Q3	ARR_DAY_OF_MONTH (Integer)	• • • 1
	2016	03		
			ARR_HOUR (Integer)	• • • • î

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



The dialog box displays the following information about the columns available in the dataset:

- This icon indicates the color theme of the dataset a column belongs to.
- () : This icon indicates that the column is marked as a time dimension.
- D : This icon indicates that the column is marked as a dimension.
- M : This icon indicates that the column is marked as a measure.
- ③ : This icon indicates that the column is marked as a geo dimension.
- This icon indicates whether the column is visible or hidden.
- 1 : This icon allows you to move a column up or down to change the position of that column.
- 4. Select the check box next to the columns to select those columns.
- 5. Click the Visible icon to display those columns in the dataset.

 ♥ ■ E+ 	Search	Q
NAME		
DEP_YEAR (Integer)	•	C 👁 1
DEP_QUARTER (String)	•	C 💿 İ
DEP_MONTH (Integer)	•	© © ‡
DEP_DAY_OF_MONTH (Integer)	•	• • ‡
DEP_HOUR (Integer)	•	• • ‡
DEP_DATE (Datetime)	•	D 👁 ‡
ARR_YEAR (Integer)	•	• • ‡
ARR_QUARTER (String)	•	• • ‡
ARR_MONTH (Integer)	•	• • ‡
ARR_DAY_OF_MONTH (Integer)	•	© © ‡
ARR_HOUR (Integer)	•	• • ‡

MANAGE COLUMNS-OPTION TO MAKE A COLUMN VISIBLE

6. Click **APPLY**.

7.2.1.2 Hiding Columns in a Dataset

You can hide the visible columns in a dataset.



About this task

Use this task to hide the visible columns in a dataset.

Procedure

- 1. Open the dataset for which you want to hide the visible columns.
- 2. Click the Result set menu icon.

2	Smarten Advanced Data Discovery				١	Nelcome Shyam Raman
F	FlightData_201	6_SV				
		-		📑 💿 ∞ 👰 't _a	## @ <i>#</i>	
R	esult set 🚽 Fligh	tData_Nov_Dec_2016	5_Dataset_Pred		Last remestied on A	pril 13, 2018 23:35:31
¥	O DEP_YEARQ	O DEP_QUARTER Q	C DEP_MONTH Q	D DEP_DAY_OF_MONTHQ	O DEP_HOUR Q	O DEP_DATE
	2016	Q2	6	9	19	June 09, 2016 19:00:00
	2016	Q2	6	18	11	June 18, 2016 11:00:00
	2016	Q3	8	14	9	August 14, 2016 09:00:00

MANAGE COLUMNS-THE RESULT SET MENU ICON

3. Click Manage columns from the menu.

Advanced Data Discovery				١	Velcome Shyam Rama
FlightData_201	6_SV				
			🛢: 🛈 🗠 🛱 ^t ta	***	
				Last refreshed on A	pril 13, 2018 23:35:31
Result set 👻 Fligh	tData_Nov_Dec_2016	_Dataset_Pred			
Manage columns					
Refresh from source	DEP_QUARTER Q	O DEP_MONTH Q	D DEP_DAY_OF_MONTHQ	O DEP_HOURQ	O DEP_DATE
Properties		6	9	19	June 09, 2016 19:00:00
Information		6	18	11	June 18, 2016 11:00:00
	03	8	14	9	August 14, 2016 09:00:00
2018					

MANAGE COLUMNS—THE MANAGE COLUMNS OPTION

The system displays the Manage columns dialog box.

			🗎 🖷 🛢 🛈 🕺 👫 🏭	<u>></u> 🕸 🖻		Ì	01	Q
			Last	t refreshed on Apr	il 13, 20	18 23	:35:3	1
Re	esult set 👻 Fligh	t ≫	Manage columns					
	C DEP_YEARQ	Θ		Search			Q	
	2016	Q2		Search			Q	
	2016	Q2						
	2016	Q3	NAME					
	2016	Q4						
	2016	Q3		• •	۲	\$	î	
	2016	Q2	DEP_QUARTER (String)				*	
	2016	Q2		• •	0	÷		
	2016	Q3	DEP_MONTH (Integer)	DEP_MONTH (Integer)	• •		† I	
	2016	Q3		• •	0	*		
	2016	Q1	DEP_DAY_OF_MONTH (Integer)		• •	۲	1	
	2016 2016	Q1 Q1	DED LIQUE (Integer)					
	2016	Q4	DEP_HOUR (Integer)		• •	۲	t	
	2016	Q4	DEP_DATE (Datetime)		• D		†	
	2016	Q3			• 0	0	+	
	2016	Q2	ARR_YEAR (Integer)		• •	۲	Ĵ	
	2016	Q3						
	2016	Q3	ARR_QUARTER (String)		• •	۲	Î	
	2016	Q1	ARR_MONTH (Integer)		• •	_	†.	
	2016	Q3			- 0	9	+	
	2016	Q3	ARR_DAY_OF_MONTH (Integer)		• •	۲	1	
_	2016	03			-	_	-	
			ARR_HOUR (Integer)		• •	۲	1	

MANAGE COLUMNS—THE MANAGE COLUMNS DIALOG BOX

- 4. Select the check box next to the columns to select those columns.
- 5. Click the Hide icon to hide those columns in the dataset.

	Search	Q
NAME		
DEP_YEAR (Integer)	•	© © 1
DEP_QUARTER (String)	•	C 👁 I
DEP_MONTH (Integer)	•	C 👁 1
DEP_DAY_OF_MONTH (Integer)	•	C 👁 I
DEP_HOUR (Integer)	•	© © ‡
DEP_DATE (Datetime)	•	D 👁 ‡
ARR_YEAR (Integer)	•	© © ‡
ARR_QUARTER (String)	•	© © ‡
ARR_MONTH (Integer)	•	• • ‡
ARR_DAY_OF_MONTH (Integer)	•	© © ‡
ARR_HOUR (Integer)	•	0 .

MANAGE COLUMNS—OPTION TO HIDE A COLUMN

6. Click APPLY.

7.2.1.3 Deleting Columns in a Dataset

You can delete columns in a dataset. This will delete columns from the dataset.

About this task

Use this task to delete columns in a dataset.

Procedure

- 1. Open the dataset from which you want to delete the columns.
- 2. Click the Result set menu icon.

4	Smarten Advanced Data Discovery				٨	Welcome Shyam Ram	iai
	FlightData_201	6_SV					
				🛢: 🛈 🗠 🛱 ^t u	***		æ
					Last refreshed on A	pril 13, 2018 23:35:31	
R	esult set 🚽 Fligh	tData_Nov_Dec_2016	_Dataset_Pred				
ŧ	O DEP_YEARQ	O DEP_QUARTER Q	O DEP_MONTH Q	D DEP_DAY_OF_MONTH Q	O DEP_HOURQ	O DEP_DATE	
	2016	Q2	6	9	19	June 09, 2016 19:00:00	1
						h	-1
	2016	Q2	6	18	11	June 18, 2016 11:00:00	
	2016 2016	Q2 Q3	8	18	9	August 14, 2016 09:00:0	c

MANAGE COLUMNS—THE RESULT SET MENU ICON

3. Click Manage columns from the menu.

Advanced Data Discovery					Welcome Shyam Rama
FlightData_20	16_SV				
			📑 🛈 🗠 🔒 'u	***	
				Last refreshed on A	April 13, 2018 23:35:31
Result set 👻 Flig	htData_Nov_Dec_2	016_Dataset_Pred			
Manage columns					
Manage columns Refresh from source	DEP_QUARTE	rq 🕑 dep_monthq	D DEP_DAY_OF_MONTH Q	O DEP_HOUR Q	O DEP_DATE
	DEP_QUARTE	RQ 🕑 DEP_MONTHQ	D DEP_DAY_OF_MONTH Q	O DEP_HOURQ	DEP_DATE June 09, 2016 19:00:00
Refresh from source	DEP_QUARTE				
Refresh from source Properties	DEP_QUARTE	6	9	19	June 09, 2016 19:00:00

MANAGE COLUMNS—THE MANAGE COLUMNS OPTION

The system displays the Manage columns dialog box.

			Last refreshed on A	oril 13, 2018	23:35:31
Result set 👻	Flight \gg	Manage columns			
C DEP_YE			Search		Q
2016	Q2				
2016	Q2				
2016	Q3	NAME			
2016	Q4	DEP_YEAR (Integer)		• •	- + ·
2016	Q3 Q2			• •	9 †
2016	Q2 Q2	DEP_QUARTER (String)		• •	n î
2016	Q2 Q3			- 0	
2010	Q3	DEP_MONTH (Integer)		• •	9 Î
2016	Q1	DEP_DAY_OF_MONTH (Integer)		• •	
2016	Q1			• •	©↓
2016	Q1	DEP_HOUR (Integer)		• •	n î
2016	Q4			- 0 -	*
2016	Q4	DEP_DATE (Datetime)		• D •	9 Î
2016	Q3				_
2016	Q2	ARR_YEAR (Integer)		• •	I C
2016	Q3	ARR_QUARTER (String)		• •	e t
2016	Q3			- 0 -	9 ÷
2016	Q1	ARR_MONTH (Integer)		• •	10
2016	Q3			- 0	
2016	Q3	ARR_DAY_OF_MONTH (Integer)		• •) î (
2016	03	ARR_HOUR (Integer)			

MANAGE COLUMNS—THE MANAGE COLUMNS DIALOG BOX

- 4. Select the check box next to the columns to select those columns.
- 5. Click the Delete icon to delete those columns in the dataset.

The system deletes the selected columns after confirmation.

 (4) (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)<th>Search</th><th>Q</th>	Search	Q
NAME		
DEP_YEAR (Integer)	•	• • t •
DEP_QUARTER (String)	•	0 @ 1
DEP_MONTH (Integer)	•	0 © 1
DEP_DAY_OF_MONTH (Integer)	•	0 o 1
DEP_HOUR (Integer)	•	0 o 1
DEP_DATE (Datetime)	•	D © 1
ARR_YEAR (Integer)	•	© © 1
ARR_QUARTER (String)	•	0 © 1
ARR_MONTH (Integer)	•	0 o 1
ARR_DAY_OF_MONTH (Integer)	•	0 © 1
ARR_HOUR (Integer)	•	0 o î

MANAGE COLUMNS—OPTION TO DELETE A COLUMN

6. Click APPLY.

7.2.1.4 Exporting dataset metadata information

You can export dataset metadata information.

About this task

Use this task to export columns from a dataset.

Procedure

- 1. Open the dataset from which you want to export metadata information of the columns.
- 2. Click the Result set menu icon.

4	Welcome Shyam Raman						
F	FlightData_201	6_SV					
		-		💼 💿 💿 🚉 "t _u	₩ <u>2</u> \$		
					Last refreshed on A	pril 13, 2018 23:35:31	
R	esult set 🚽 Fligh	tData_Nov_Dec_2016	_Dataset_Pred				
#	O DEP_YEARQ	O DEP_QUARTER Q	O DEP_MONTH Q	D DEP_DAY_OF_MONTH Q	O DEP_HOUR Q	O DEP_DATE	٩
1	2016	Q2	6	9	19	June 09, 2016 19:00:00	*
2	2016	Q2	6	18	11	June 18, 2016 11:00:00	
3	2016	Q3	8	14	9	August 14, 2016 09:00:00	
4	2016	Q4	11	12	16	November 12, 2016 16:00	

MANAGE COLUMNS—THE RESULT SET MENU ICON

3. Click Manage columns from the menu.

Advanced Data Discovery							
FlightData_2	016 5	SV					
	-			🛢: 💿 💿 🙀 "t _a	\$		
					Last refreshed on A	pril 13, 2018 23:35:31	
Result set 👻 F	lightData	a_Nov_Dec_2016	Dataset_Pred				
Manage columns Refresh from source		DEP_QUARTER Q	O DEP_MONTH Q	D DEP_DAY_OF_MONTH Q	O DEP_HOURQ	O DEP_DATE	
Properties			6	9	19	June 09, 2016 19:00:00	
Information			6	18	11	June 18, 2016 11:00:00	
2016	Q3		8	14	9	August 14, 2016 09:00:0	
2016	Q4		11	12	16	November 12, 2016 16:0	

MANAGE COLUMNS-THE MANAGE COLUMNS OPTION

The system displays the Manage columns dialog box.

Advanced Data Die	scovery		W	elcome Shyam Ra	lama
FlightData	2016 S	\checkmark			
			i 🕑 🏶 🛛		æ
		1	Last refreshed on Ap	ril 13, 2018 23:35:3	31
Deput est	Elight				_
Result set 👻	Flight >>	Manage columns			
# O DEP_YE	Q2	Image: Contract of the second secon	Search	Q,	
2 2016 3 2016	Q2 Q3	NAME			
4 2016 5 2016	Q4 Q3	DEP_YEAR (Integer)		• © © ‡	•
6 2016 7 2016	Q2 Q2	DEP_QUARTER (String)		• © © ‡	
8 2016 9 2016	Q3 Q3	DEP_MONTH (Integer)		• © © ‡	
10 2016 11 2016	Q1 Q1	DEP_DAY_OF_MONTH (Integer)		• © © ‡	
12 2016 13 2016	Q1 Q4	DEP_HOUR (Integer)		● © ⊚ ‡	
14 2016 15 2016	Q4 Q3	DEP_DATE (Datetime)		● D ⊚ ‡	
16 2016 17 2016	Q2 Q3	ARR_YEAR (Integer)		• © © ‡	
18 2016	Q3	ARR_QUARTER (String)		• C © ‡	
19 2016 20 2016	Q1 Q3	ARR_MONTH (Integer)		• © © ‡	
21 2016 22 2016	Q3 Q3	ARR_DAY_OF_MONTH (Integer)		• © © ‡	
4		ARR_HOUR (Integer)		• © © ‡	-
www.smarten.cor		APPLY CANCEL			

MANAGE COLUMNS-THE MANAGE COLUMNS DIALOG BOX

4. Click the Export icon to hide those columns in the dataset.

The system exports the metadata information of the dataset into an Excel file.

 Image: Compared with the second /li>	Search	Q,
NAME		
DEP_YEAR (Integer)	•	0 o 1 '
DEP_OUARTER (String)	•	0 .
DEP_MONTH (Integer)	•	0 @ 1
DEP_DAY_OF_MONTH (Integer)	•	0 o 1
DEP_HOUR (Integer)	•	• • 1
DEP_DATE (Datetime)	•	D © 1
ARR_YEAR (Integer)	•	© © 1
ARR_QUARTER (String)	•	© © 1
ARR_MONTH (Integer)	•	© © 1
ARR DAY OF MONTH (Integer)		0 at

MANAGE COLUMNS—OPTION TO EXPORT COLUMNS

5. Click **APPLY**.

7.2.1.5 Arranging Columns in a Dataset

You can arrange columns from a dataset to display them in a specific order.

About this task

Use this task to arrange columns in a dataset.

Procedure

- 1. Open the dataset for which you want to arrange the columns.
- 2. Click the Result set menu icon.

4	Smarten Advanced Data Discovery				X	Velcome Shyam Ramani
F	FlightData_201	6_SV				
		_		🛢: 🛈 🗠 🛱 ^t u	***	r 🗈 🕅 🧭
					Last refreshed on A	pril 13, 2018 23:35:31 🛛 🚛
R	esult set 👻 Fligh	tData_Nov_Dec_2016	_Dataset_Pred			
#	C DEP_YEARQ	O DEP_QUARTER Q	C DEP_MONTH Q	D DEP_DAY_OF_MONTH Q	C DEP_HOUR Q	O DEP_DATE Q
1	2016	Q2	6	9	19	June 09, 2016 19:00:00 🔺
2	2016	Q2	6	18	11	June 18, 2016 11:00:00
3	2016	Q3	8	14	9	August 14, 2016 09:00:00
4	2016	Q4	11	12	16	November 12, 2016 16:00

MANAGE COLUMNS—THE RESULT SET MENU ICON

3. Click Manage columns from the menu.

Advanced Data Discovery	Welcome Shyam Rama					
FlightData_20	16_5	SV V				
•				🛢: 🛈 🗠 🛱 't _a	***	× • • •
Desult and		Nev Dec 0040	Detect Det		Last refreshed on A	pril 13, 2018 23:35:31 🔋
Result set - Flig Manage columns		a_Nov_Dec_2016				
Refresh from source		DEP_QUARTER Q	O DEP_MONTH Q	D DEP_DAY_OF_MONTH Q	O DEP_HOUR Q	O DEP_DATE
1 Properties			6	9	19	June 09, 2016 19:00:00
² Information			6	18	11	June 18, 2016 11:00:00
3 2016	Q3		8	14	9	August 14, 2016 09:00:00
4 2016	Q4		11	12	16	November 12, 2016 16:00

MANAGE COLUMNS—THE MANAGE COLUMNS OPTION

5	Smarten Advanced Data Dis	scovery		Welcome SI	
	FlightData	_2016_5	V		
			🗎 📲 🛢 💿 ∞ 🛔 🐂 🔛 🏟		0
			Last refreshed o	on April 13, 2018	23:
R	esult set 👻	Flight \gg	Manage columns		
#	O DEP_YE	ARQ 💿			
1	2016	02			
2	2016	02			
3	2016	Q3	NAME		
4	2018	Q4			
5	2016	Q3	DEP_YEAR (Integer)	• •	•
	2016	Q2			-
	2016	Q2	DEP_QUARTER (String)	• •	•
3	2016	Q3			_
9	2016	Q3	DEP_MONTH (Integer)	• •	0
10	2016	Q1	DEP_DAY_OF_MONTH (Integer)	• •	
11	2016	Q1			9
12	2016	Q1	DEP_HOUR (Integer)	• •	0
13	2016	Q4			-
14	2016	Q4	DEP_DATE (Datetime)	• D	0
15	2016	Q3	ARR_YEAR (Integer)		_
16	2016	Q2		• •	
7	2016	Q3	ARR_QUARTER (String)	• •	0
18	2016	Q3		• •	_
19	2016 2016	Q1 Q3	ARR_MONTH (Integer)	• •	۲
20 21	2016	Q3 Q3	ARR DAY OF MONTH (Integer)		_
21 22	2016	03	ARR_DAY_OF_MONTH (Integer)	• © •	0
•		1444	ARR_HOUR (Integer)		-
				• •	0

MANAGE COLUMNS—THE MANAGE COLUMNS DIALOG BOX

4. Drag the column that you want to change, and drop it at the desired position.

 (*) /ul>	Search	Q
NAME		
DEP_QUARTER (String)	•	© © 1
DEP_YEAR (Integer)	•	0 💿 1
DEP_MONTH (Integer)		• • •
DEP_HOUR (Integer)	•	0 o î
DEP_DATE (Datetime)	•	D ⊚ ‡
ARR_YEAR (Integer)	•	• • t
ARR_QUARTER (String)	•	0 .
ARR_MONTH (Integer)	•	C 👁 1
ARR_DAY_OF_MONTH (Integer)	•	0 o 1
ARR_HOUR (Integer)	•	0 © 1
ARR_DATE (Datetime)		D 👁 1

MANAGE COLUMNS—ARRANGING COLUMNS

5. Click APPLY.

7.2.2 Refreshing Data in a Dataset

You can refresh the data available in a dataset with the latest data available in the data source.

About this task

Use this task to refresh data in a dataset.

Procedure

- 1. Open the dataset for which you want to refresh data.
- 2. Click the Result set menu icon.

4	Smarten Advanced Data Discovery				٧	Velcome Shyam Ramai	ni
F	-lightData_201	6_SV					
				🛢 🛈 🗠 🛱 ^t u	***		I
					Last refreshed on A	pril 13, 2018 23:35:31	_
R	esult set 🚽 Fligh	tData_Nov_Dec_2016	Dataset_Pred				
#	O DEP_YEAR Q	O DEP_QUARTER Q	C DEP_MONTH Q	D DEP_DAY_OF_MONTH Q	O DEP_HOURQ	O DEP_DATE	Q
1	2016	Q2	6	9	19	June 09, 2016 19:00:00	*
2	2016	Q2	6	18	11	June 18, 2016 11:00:00	
3	2016	Q3	8	14	9	August 14, 2016 09:00:00	
4	2016	Q4	11	12	16	November 12, 2016 16:00	

MANAGE COLUMNS—THE RESULT SET MENU ICON

3. Click **Refresh from source** from the menu.

The system refreshes the data with the latest data in the data source.

Advanced Data Discove	ery				١	Welcome Shyam Rama
FlightData_2	2016 5	SV V				
	_			∎: © ∞ ∰ ^t t _s	***	
					Last refreshed on Janu	ary 29, 2019 22:58:51
Result set 👻 E	lightData	a Nov Dec 2016	Dataset Pred			
Result set - F Manage columns	-	a_Nov_Dec_2016				
	Ŭ.			D DEP_DAY_OF_MONTHQ		
Manage columns	Ŭ.			D DEP_DAY_OF_MONTHQ		
Manage columns Refresh from source	Ŭ.				O DEP_HOURQ	C DEP_DATE C
Manage columns Refresh from source Properties	Ŭ.			19	C DEP_HOUR Q	O DEP_DATE O
Manage columns Refresh from source Properties Information	•			19	DEP_HOUR Q 18 12	DEP_DATE Q January 19, 2016 18:00:0 January 18, 2016 12:00:0
Manage columns Refresh from source Properties Information	a1			19 18 7	DEP_HOUR Q 18 12 6	© DEP_DATE C January 19, 2016 18:00:0 January 18, 2016 12:00:0 January 07, 2016 06:00:0



7.2.3 Editing Dataset Properties

You can edit properties of a dataset. A user can edit the first month of the financial year.

7.2.3.1 Specify the First Month of the Financial Year

You can specify which month will be the first month of the current year. This feature allows you to specify the start of a financial year if it is different from the calendar year. For example, if the financial year is from April to March, you can specify April as the first month of the year.

Reference: Concept Manual > Designing the Data Model > Cube > Time Dimension > Time

dimension based on a financial year

About this task

Use this task to specify the first month of the financial year.

Procedure

- 1. Open the dataset for which you want to specify the first month of the year.
- 2. Click the Result set menu icon.

4	Smarten Advanced Data Discovery				١	Nelcome Shyam Ramani
F	FlightData_201	6_SV		.	···· 2/ \$	× • • •
R	esult set 🚽 Fligh	tData_Nov_Dec_2016	_Dataset_Pred		Last refreshed on A	pril 13, 2018 23:35:31 🛛 🜉
#	O DEP_YEARQ	O DEP_QUARTERQ	O DEP_MONTH Q	D DEP_DAY_OF_MONTH Q	O DEP_HOURQ	O DEP_DATE Q
1	2016	Q2	6	9	19	June 09, 2016 19:00:00 🔺
2	2016	Q2	6	18	11	June 18, 2016 11:00:00
3	2016	Q3	8	14	9	August 14, 2016 09:00:00
4	2016	Q4	11	12	16	November 12, 2016 16:00

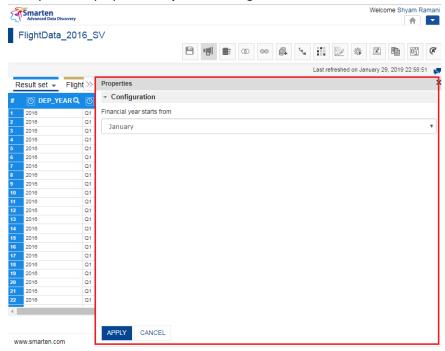
PROPERTIES—THE RESULT SET MENU ICON

3. Click **Properties** from the menu.

Advanced Data Discovery				,	Welcome Shyam Rama
FlightData_201	16_SV				
	_		📑 🛈 💿 🚑 ^t u	***	
				Last refreshed on Janu	ary 29, 2019 22:58:51
				East remeaned on ound	ary 20, 2010 22.00.01
Decult set _ Eligi	htData Nov Dec 201	6 Dataset Pred		Last reneared on our	ary 20, 2010 22.00.01
	htData_Nov_Dec_201	6_Dataset_Pred			ary 23, 2010 22.00.01
Result set - Fligi Manage columns Refresh from source			D DEP_DAY_OF_MONTHQ		
Manage columns			D DEP_DAY_OF_MONTHQ		
Manage columns Refresh from source Properties				C DEP_HOURQ	C DEP_DATE Q
Manage columns Refresh from source			19	O DEP_HOUR Q	DEP_DATE Q January 19, 2016 18:00:0 January 18, 2016 12:00:0
Manage columns Refresh from source Properties Information	DEP_QUARTER C		19	DEP_HOUR Q 18 12	© DEP_DATE Q January 19, 2016 18:00:0 January 18, 2016 12:00:0 January 07, 2016 08:00:0
Manage columns Refresh from source Properties Information 2016			19 18 7	DEP_HOUR Q 18 12 6	O DEP_DATE Q January 19, 2016 18:00:0

PROPERTIES—THE PROPERTIES OPTION

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



MANAGE COLUMNS—THE MANAGE COLUMNS DIALOG BOX

4. Select a month from the list to specify that month as the start of the financial year.

Properties	×
- Configuration	
Financial year starts from	
January	•
APPLY CANCEL	

MANAGE COLUMNS—OPTION TO MAKE A COLUMN VISIBLE

5. Click APPLY.

7.2.4 Viewing Dataset Information

You can view information about a dataset, such as a name, last updated, data source, dataset size, and much more.

About this task

Use this task to view information about a dataset.

Procedure

- 1. Open the dataset for which you want to view information.
- 2. Click the Result set menu icon.

ৰ্শ	Smarten Advanced Data Discovery				١	Velcome Shyam Rama
F	lightData_201	6_SV				
				🛢: 🛈 🗠 🛱 ''ta	···· 😥 🏶	
					Last refreshed on A	pril 13, 2018 23:35:31
Re	esult set 👻 Flight	tData_Nov_Dec_2016	Dataset_Pred			
#	O DEP_YEAR Q	O DEP_QUARTER Q	C DEP_MONTH Q	D DEP_DAY_OF_MONTH Q	O DEP_HOUR Q	O DEP_DATE
1	2016	Q2	6	9	19	June 09, 2016 19:00:00
2	2016	Q2	6	18	11	June 18, 2016 11:00:00
3	2016	Q3	8	14	9	August 14, 2016 09:00:00
4	2016	Q4	11	12	16	November 12, 2016 16:00

DATASET INFORMATION—THE RESULT SET MENU ICON

3. Click Information from the menu.

FlightData_20	016_S	SV .				
				■: 0 00 🔂 ^t t _a	***	
					Last refreshed on Janu	uary 29, 2019 22:58:51
Deputtent Eli	abtDate	Nev Des 0010	Detect Dred			
	ghtData	a_Nov_Dec_2016	Dataset_Pred			
Result set - Flig Manage columns						
				D DEP_DAY_OF_MONTHQ	O DEP_HOUR Q	O DEP_DATE
Manage columns				D DEP_DAY_OF_MONTHQ	C DEP_HOUR Q	DEP_DATE January 19, 2016 18:00
Manage columns Refresh from source Properties						
Manage columns Refresh from source				19	18	January 19, 2016 18:00 January 18, 2016 12:00
Manage columns Refresh from source Properties Information				19	18 12	January 19, 2016 18:00
Manage columns Refresh from source Properties Information				19 18 7	18 12 6	January 19, 2016 18:00 January 18, 2016 12:00 January 07, 2016 06:00

DATASET INFORMATION—THE INFORMATION OPTION

4. The system displays the **Dataset information** dialog box.

4	Smarten Advanced Data Discovery		() Dataset information						Welcom	e Shyam	Rama
F	lightData_20	lightData_2016_SV General Dataset columns Objects Name FilghtData_2016_SV						eshed on Ja		1 2019 22:58	
Re #	esult set → Flig	htData_N	Created nisarg April 13	, 2018 17:10:04						R_YEAR C	
1	2016	Q2		2018 11:46:26				9:00:00	2016		Q2
2	2016	Q2						1:00:00	2016		Q2
3	2016	Q3	Refresh date	40.00-50-54				09:00:00	2016		QS
4	2016	Q4	January 29, 20	19 22.36.31				016 16:00:00	2016		Q4
5	2016	Q3	Data source					16:00:00	2016		QS
6	2016	Q2	FlightData_20	16_Datasource_SV,	FlightData_Nov_Dec_2	2016_Dataset_Pred,		8:00:00	2016		02
7	2016	Q2						8:00:00	2016		02
8	2016	Q3	DATASET SIZ	E SUMMARY				016 16:00:00	2016		QS
9	2016	Q3		2 001111111				:00:00	2016		QS
10	2016	Q1	No. records		560	6065		8 05:00:00	2016		Q1
11	2016	Q1						8 05:00:00	2016		Q1
12	2016	Q1	Total column	S	25			11:00:00	2016		Q1
13	2016	Q4						016 05:00:00	2016		Q4
14	2016	Q4	CLOSE					8 14:00:00	2016		Q4
15	2016	Q3	GLUBE					:00:00	2016		QS
16	2016	Q2		0	8	10	June 08, 2010	6:00:00	2016		Q2
17	2016	Q3		9	19	10	September 19	2016 10:00:00	2016		QS
18	2016	Q3		9	6	9	September 08	2016 09:00:00	2016		QS

VIEW DATASET INFORMATION—THE DATASET INFORMATION DIALOG BOX

- 5. Click the **General** tab to view general information about the dataset. The following information is displayed:
 - Name: Name of the dataset.
 - **Created**: Date and time when the dataset was created.
 - Updated: Date and time when the dataset was last updated.
 - **Refresh date**: Date and time when the dataset was last refreshed.
 - Data source: Name of the data source used in the dataset.
 - No. records: Number of records available in the dataset.
 - **Total columns**: Number of columns available in the dataset.

General	Dataset columns	Objects					
Name FlightData_2016_SV							
Created nisarg April 13, 2018 17:10:04							
Updated nisarg May 18, 2018 11:46:26							
lisary way to,	Refresh date January 29, 2019 22:58:51						
Refresh date							
Refresh date January 29, 20 Data source	19 22:58:51	ightData_Nov_	Dec_2016_Dataset_Pred,				
Refresh date January 29, 20 Data source	119 22:58:51 16_Datasource_SV, FI	ightData_Nov_	Dec_2016_Dataset_Pred,				
Refresh date January 29, 20 Data source FlightData_201	119 22:58:51 16_Datasource_SV, FI	ightData_Nov_	Dec_2016_Dataset_Pred, 5606065				

VIEWING DATASET INFORMATION—VIEWING GENERAL INFORMATION

6. Click the **Dataset columns** tab to view information regarding the dataset columns of the selected dataset. The tab displays the name of the columns and their data type.

(i) Dataset information				
General	Dataset colur	nns Objects		
COLUMN NA	ME	COLUMN TYPE		
DEP_YEAR		int		
DEP_QUART	TER	int		
DEP_MONTH	4	int		
DEP_DAY_O	F_MONTH	int		
DEP_HOUR		int		
DEP_DATE		timestamp		
ARR_YEAR		int		
ARR_QUART	TER	int		
ARR_MONTH	н	int		
CLOSE				

VIEWING DATASET INFORMATION—VIEWING THE DATASET COLUMN INFORMATION

7. Click the **Objects** tab to view information regarding the objects using the selected dataset.

(i) Dataset information						
General	Dataset columns	Objects				
Crosstab						
pathik : myfolder/ACT1						
Graph						
myfolder/test						
Tabular						
KPIs						
GeoMap						
SmartenInsight						
SmartenViev	N					
CLOSE						

VIEWING DATASET INFORMATION—VIEWING THE OBJECTS RELATED INFORMATION

8. Click CLOSE.

7.2.5 Highlighting Data in a Dataset

Typical steps involved in creating a Data Source Profile for File (txt, csv, tsv) are as follows:

Users can identify the data by highlighting it for missing and inconsistent values, spaces, and duplication of rows and columns and accordingly take action for data correction.

Note:

These are the front-end operations that highlight records in the front-end interface and do not remove any records from the dataset.

Reference: Concept Manual > Explore Data > Highlight

About this task

Use this task to highlight certain data in a dataset.

Procedure

- 1. Open the dataset for which you want to highlight data.
- 2. Right-click in the column from which you want to highlight data. The system displays the context menu.

Sma	arten anced Data Discovery						Welcome Shyam Rar	man •
Flig	htData_2016_S	V						
					0 00 🛱		🕸 🖭 📴 🖤	(A
						Last refres	shed on April 13, 2018 23:35	5:31
Result	t set 👻							
TERQ	O DEP_MONTH Q	DD	FP DAY OF MONTHO	O DEP_HOUR Q	O DEP_DATE Q	C ARR_YEAR Q	O ARR_QUARTER Q	C
	1	19	Highlight >	18	January 19, 2016 12:30:00	2016	Q1	1.
	1	18	Unique values	12	January 18, 2016 06:30:00	2016	Q1	1
	1	7	Find & replace	6	January 07, 2016 00:30:00	2016	Q1	1
	1	10	Remove >	13	January 10, 2016 07:30:00	2016	Q1	1
	1	19		13	January 19, 2016 07:30:00		Q1	1
	1	3	Mark as >	10	January 03, 2016 04:30:00		Q1	1
	1	19	Copy >	6	January 19, 2016 00:30:00		Q1	1
	1	17	Sort >	9	January 17, 2016 03:30:00		Q1	1
	1	28	Transform >	5	January 27, 2016 23:30:00		Q1	1
	1	3		8	January 03, 2016 02:30:00		Q1	
	1	14	Add column >	20	January 14, 2016 14:30:00		Q1	1
	1	18 3	Fill >	14	January 18, 2016 08:30:00		Q1 Q1	-
	1	3	Split >	/ NULL	January 03, 2016 01:30:00 January 21, 2016 18:30:00		Q1	
	1	6	Merge columns	10	January 26, 2016 04:30:00		01	+
	1	20		10	January 20, 2016 04:30:00 January 20, 2016 08:30:00		Q1	-
	1	20	Filter >	12	January 29, 2016 06:30:00		Q1	
	1	10	Display Format	7	January 10, 2016 01:30:00		Q1	
	1	13	Edit row	17	January 13, 2016 11:30:00		Q1	
	1	25	Statistics	5	January 24, 2016 23:30:00		Q1	
	-		Citubios	-	,			

HIGHLIGHT VALUES—THE CONTEXT MENU

3. Click **Highlight** from the menu.

22

The system displays the options available for highlight based on the data type of the column.

January 22, 2016 02:30:00 2016

Q1

ί.

Smarten Advanced Data Discovery	Welcome Shyam Ramani
FlightData_2016_SV	Image: A the second
	Last refreshed on April 13, 2018 23:35:31 📲

O ARR_HOUR Q	🕑 ARR_DATE 🔍	FLIGHT_COUNT Q	Т	UNIQUE_CARRIER Q	T FLIGHT_NUMBER Q	T ORIGIN_AIRPORT Q	T ORIGIN_CI
21	June 09, 2016 21:00:00	1	AA		AA2008	мсо	Orlando, FL
12	June 18, 2016 12:00:00	1	DL		DL2025	BWI	Baltimore, MD
10	August 14, 2016 10:00:00	1	UA		UA195	IAH	Houston, TX
18	November 12, 2016 18:00:00	1	B6	Highlight >	Missing values		Newark, NJ
19	August 19, 2016 19:00:00	1	AA				Chicago, IL
12	June 19, 2016 12:00:00	1	VX	Unique values	Spaces		Las Vegas, NV
10	June 18, 2016 10:00:00	1	AA	Cluster & edit	Inconsistent values		Tampa, FL
16	September 26, 2016 16:00:00	1	AA	Find & replace	Duplicate columns with this co	olumn	Charlotte, NC
10	July 19, 2016 10:00:00	1	VX				San Francisco, CA
7	January 03, 2016 07:00:00	1	B6	Remove >	Duplicate rows with this row		Fort Myers, FL
7	January 03, 2016 07:00:00	1	B6	Mark as >	Duplicate column values		Fort Myers, FL
13	March 26, 2016 13:00:00	1	NK	Сору >	All duplicate rows		Atlanta, GA
7	December 05, 2016 07:00:00	1	WN	Sort >	Rows with all null		Chicago, IL
17	October 13, 2016 17:00:00	1	B6				Fort Lauderdale, FL
18	July 23, 2016 18:00:00	1	AS	Transform >	Rows with all zeros		Anchorage, AK
17	June 09, 2016 17:00:00	1	00	Add column >	Columns with all null		Los Angeles, CA
18	September 19, 2016 18:00:00	1	WN	Fill >	Columns with all zeros		Las Vegas, NV
11	September 06, 2016 11:00:00	1	WN		Columns with an 2010s		New Orleans, LA
18	March 20, 2016 18:00:00	1	EV	Split >	EV4248	СМН	Columbus, OH
21	July 17, 2016 21:00:00	1	AS	Merge columns	AS46	BET	Bethel, AK
16	August 20, 2016 16:00:00	1	00	Filter >	007361	RHI	Rhinelander, WI
16	August 15, 2016 16:00:00	1	DL	Editrow	DL815	SEA	Seattle, WA
NULL	August 18, 2016 00:00:00	1	DL	Edit row DL1585		DTW	Detroit, MI

HIGHLIGHT VALUES—OPTIONS AVAILABLE FOR THE HIGHLIGHT MENU

4. Click any of the options in the following table to apply that operation.

Option	Description			
Missing values	Use this option to highlight all the cells of the selected column that contain null or blank values.			
Spaces	Use this option to highlight all the cells of the selected column that have spaces in the data. Note: This option is only available for the columns with the string data type.			
Inconsistent values	Use this option to highlight all the inconsistent values in the selected column, such as a string type of column having integer values and vice versa or capitalization not staying the same throughout and many more.			
Duplicate columns with this column	Use this option to highlight all the columns that contain exactly the same data as the selected column.			
Duplicate row with this row	Use this option to highlight all the rows that contain exactly the same data as the selected row.			
Duplicate column values	Use this option to highlight all duplicate values in the selected column. Each set of duplicate values is highlighted with a different color.			
All duplicate rows	Use this option to highlight a set of rows that contain exactly the same data. Each set of duplicate rows is highlighted with a different color.			
Rows with all null	Use this option to highlight all the rows that have null in all the columns.			
Rows with all zeros	Use this option to highlight all the rows that have zeros in all numeric columns.			
Columns with all null	Use this option to highlight all the columns that have null in all rows.			
Columns with all zeros	Use this option to highlight all the columns that have zeros in all rows.			

7.2.6 Identifying Unique Values

You can identify unique values and the number of times a value is repeated in a particular column. This function allows you to edit or delete a value. If you delete a value, the system deletes all rows containing that value. Similarly, if you edit a value, the system replaces the value in all rows with the new value.

Reference: Concept Manual > Explore Data > Unique Values

About this task

Use this task to identify unique values in a column.

Procedure

- 1. Open the dataset in which you want to identify unique values.
- 2. Right-click in the column from which you want to identify unique values.

The system displays the context menu.

Sm	Welcome Shyam Ramani							
Flig	htData_2016_S	V			: 0 ∞ A	*•	10 II - 4	æ
						Last refres	shed on April 13, 2018 23:35	5:31
Resul	t set 👻							
RTERQ	C DEP_MONTH Q	DD	P DAY OF MONTHO	O DEP_HOUR Q	C DEP_DATE Q	C ARR_YEAR Q	C ARR_QUARTER Q	
	1	19	Highlight >	18	January 19, 2016 12:30:00	2016	Q1	1 +
	1	18	Unique values	12	January 18, 2016 06:30:00		Q1	1
	1	7	Find & replace	6	January 07, 2016 00:30:00	2016	Q1	1
	1	10		13	January 10, 2016 07:30:00	2016	Q1	1
	1	19	Remove >	13	January 19, 2016 07:30:00	2016	Q1	1
	1	3	Mark as >	10	January 03, 2016 04:30:00	2016	Q1	1
	1	19	Copy >	6	January 19, 2016 00:30:00	2016	Q1	1
	1	17	Sort >	9	January 17, 2016 03:30:00	2016	Q1	1
	1	28		5	January 27, 2016 23:30:00	2016	Q1	1
	1	3	Transform >	8	January 03, 2016 02:30:00	2016	Q1	1
	1	14	Add column >	20	January 14, 2016 14:30:00	2016	Q1	1
	1	18	Fill >	14	January 18, 2016 08:30:00	2016	Q1	1
	1	3		7	January 03, 2016 01:30:00	2016	Q1	1
	1	22	Split >	NULL	January 21, 2016 18:30:00	2016	Q1	1
	1	6	Merge columns	10	January 06, 2016 04:30:00	2016	Q1	1
	1	20	Filter >	14	January 20, 2016 08:30:00	2016	Q1	1
	1	29	Display Format	12	January 29, 2016 06:30:00	2016	Q1	1
	1	10		7	January 10, 2016 01:30:00	2016	Q1	1
	1	13	Edit row	17	January 13, 2016 11:30:00	2016	Q1	1
	1	25	Statistics	5	January 24, 2016 23:30:00	2016	Q1	1
	1	22		8	January 22, 2016 02:30:00	2016	Q1	1.
4	1	22		8	January 22, 2016 02:30:00	2016	Q1	

UNIQUE VALUES-THE CONTEXT MENU

3. Click **Unique values** from the menu.

The system displays the **Unique values** dialog box.

ightD	ata_2016_SV						.	00	6	¹ 1		\$	<u></u>	Þ	0
											Last refre	shed o	n April 1	3, 2018	23:3
sult set	-					>>	Unique valu	ies - DEF	DAY_	OF_MO	NTH				
AR Q,	O DEP_QUARTER Q	O DEP_MONTH Q	D DEP_DAY_OF_MONTH Q	C DEP_HOUR Q	O DEP_DAT	Е				_				_	
	Q2	6	9	19	June 09, 2016 19	:00:0	Search		Q,	Pag	e 1 of 1	1	•	Row c	oun
	Q2	6	18	11	June 18, 2016 11:	00:0	Full data	a valuos		Filtor	d data v	aluoe			
	Q3	8	14	9	August 14, 2016 (09:00	· Full data	avalues		Filtere	u uata v	alues			
	Q4	11	12	16	November 12, 20	16 16									
	Q3	8	19	16	August 19, 2016 1	16:00	VALUE	ES							
	Q2	6	19	8	June 19, 2016 08	_	28						191	263	1
	02	6	18	8	June 18, 2016 08	:00:0								200	<u>e</u>
	Q3	9	26	16	September 26, 20		14						190	812	1
	Q3	7	19	9	July 19, 2016 09:1										
	Q1	1	3	5	January 03, 2016		21						190	012	1
	Q1	1	3	5	January 03, 2016										
	Q1	3	26	11	March 26, 2016 1		7						180	895	
	Q4	12	5	5	December 05, 20		22				_		400	3408	
	Q4 Q3	10	13	14	October 13, 2016		22						180	5408	<u>_</u>
	Q2	6	9	14	July 23, 2016 14:1 June 09, 2016 16		15						18	935	
	Q2 Q3	9	19	10	September 19, 20	_							101	000	<u>e</u>
	Q3	9	6	9	September 06, 20		18						187	791	
	Q1	3	20	17	March 20, 2016 1										
	Q3	7	17	20	July 17, 2016 20:1		11						187	543	
	Q3	8	20	15	August 20, 2016										
	Q3	8	15	9	August 15, 2016 0		29						18	242	Ľ
	Q3	8	18	NULL	August 18, 2016 (_				
	Q3	7	25	9	July 25, 2016 09:1		27						180	616	Ľ
	Q3	9	22	20	September 22, 20		26						124	863	1
	Q4	11	4	10	November 04, 20	_	20						103		<u>.</u>
	Q4	10	30	15	October 30, 2016		13						184	988	1
		1													_
							8						184	883	1

UNIQUE VALUES—DIALOG BOX DISPLAYING UNIQUE VALUES

The system displays the unique values in the dataset along with the number of rows a value appears in the dataset and options to edit and delete a unique value. The system also displays a total number of unique values available from the specific number of rows available in a dataset.

4. You can type a keyword in the Search box to search for a unique value.

earch Q		Page 1 of 1 1-	Row count 🔺
Full data values	Filtered data values		
VALUES			
31		_	116480 ! 📋
30		_	172881 ! 📋
24		_	173112 🖉 📋
16		_	174081 🛛 🛃 📋
9		_	174158 💆 📋
23		_	174826 💆 📋
17		_	178942 🗶 📋
10		_	179111 💉 🏛
1		_	179615 💉 📋
3		_	180561 📝 🃋
25		_	180798 🛯 💆 🃋
4		_	180877 ! 💼

UNIQUE VALUES—SEARCHING A UNIQUE VALUE

5. You can select the Full data values if you want to perform the search in the entire dataset.

Unique values - DEP_DAY_OF	_MONTH		
Search Q Full data values	Filtered data value	Page 1 of 1 1-	Row count 👻
VALUES			ĺ
28		_	191263 🗶 📋
14		_	190812 🗶 📋
21		_	190012 🗶 📋
7		_	188895 🗶 📋
22		_	188408 🗶 📋
15		_	187935 🗶 📋
18		_	187791 🗶 📋
11		_	187543 💉 📋
29		_	187242 🗶 📋
27		_	186616 🛛 🗶 📋
26		_	185863 🗶 📋
13		_	184988 ! 📋
8			184883 🛯 🗶 📋
20			184746 💉 📋
6			184127 💆 📋 ,
CLOSE		31 Unique values	from 5606065 rows

UNIQUE VALUES—SEARCH WITHIN FULL DATA

6. You can select the Filtered data values if you want to perform the search within only the unique values.

Search Q		Page 1 of 1 1	Row	count 🚽
Full data values	Filtered data va	lues		
VALUES				
28			191263	∠ 11
14			190812	🗶 î
21			190012	₫ 1
7		_	188895	1
22		_	188408	∠ i
15		_	187935	∠ i
18			187791	1
11			187543	∠ 1
29			187242	∠ 1
27		_	186616	∠ 1
26			185863	∠ 1
13		_	184988	∠ i
8		_	184883	∠ i
20		_	184746	₫ i
6		_	184127	21

UNIQUE VALUES—SEARCH WITHIN FILTERED DATA

7. You can select an option to sort the unique values listed in the dialog box based on the number of rows the unique value appears in or the unique value itself.

Search Q		Page 1 of 1 1-	Row count 🔺
Full data values	Filtered data values		
VALUES			
31		_	116480 ! 📋
30		_	172881 💆 📋
24		_	173112 💆 📋
16		_	174081 💆 📋
9		_	174158 💆 📋
23		_	174826 💆 📋
17		_	178942 💆 📋
10		_	179111 💆 📋
1		_	179615 ! 💼
3		_	180561 ! 💼
25		_	180798 ! 💼
4			180877 🖉 📋

UNIQUE VALUES—SORTING UNIQUE VALUES

8. Select the unique value you want to edit, and then click the Edit icon adjacent to that value.

Inique values - DEP_DAY_C	F_MONTH				
Search	Q,		Page 1 of 1 1 -	Row cou	nt 🔺
Full data values	Filtered of	lata values			
VALUES					
31				116480 🖉	Î
30			_	172881 🏼	Ê
24			_	173112 🏼 🌌	Î
16			_	174081 🖉	Ê
9			_	174158 🏼 🌌	Î
23			_	174826 🖉	Î
17			_	178942 🏼 🌌	Î
10			_	179111 🏾 🌌	Ê
1			_	179615 🖉	Î
3			_	180561 🏾 🌌	Ê
25			_	180798 🖉	İ
4			_	180877 🏼 🖉	Ê
CLOSE			31 Unique values	From FCOCOCE	50110

UNIQUE VALUES—EDITING A UNIQUE VALUE

9. Modify the unique value, and then click the Save icon.

💼 Search 🗘	2	Page 1 of 1 1- Row coun	t 🔺
Full data values	Filtered data values		
VALUES			
31	Change to NULL	116480 🗸 🗙	Î
30		172881 🧷	Î
24		173112 🖉	Î
16		174081 🥒	Î
9		174158 🏾 🧷	Î
23		174826 🏒	Î
17		178942 🏒	Î
10		179111 🖉	Î
1		179615 🖉	Î
3		180561 🖉	Î
25		180798 🖉	Î
4		180877 🥒	ŵ

UNIQUE VALUES—EDITING A UNIQUE VALUE

10. You can click the Delete icon adjacent to a unique value to delete that value.

💼 Search Q	Page 1 of 1 1- Row count
Full data values Filtered	data values
VALUES	
31	116480 🚽 🗊
30	172881 🖉 🗊
24	173112 🖉 📋
16	174081 🖉 🗊
9	174158 🖉 🗊
23	174826 🖉 🗊
17	178942 🖉 🗍
10	179111 🖉 🗊
1	179615 🛃 🗍
3	180561 💆 🏾
25	180798 💆 🗊
4	180877 🖉 🗍

UNIQUE VALUES—DELETING A UNIQUE VALUE

You can also select multiple values you want to delete, and then click the Delete icon next to the Search box.

Advanced Data Dise	covery					Welcome S	Shyam Ram
FlightData_	2016_3	SV					
				ـ ∞	'. III 🖉 🕸		
					Last refreshed of	on April 13, 201	8 23:35:31
Result set 👻	$Fligh \gg$	Unique values - DEP_[DAY_OF_MONTH				
	6	Bearch	Q		Page 1 of 1	1 √ Row	count -
12 13	6	Full data values	ilt Eilt	tered data values			
13	8						
13	8	VALUES					
12	6					101000	∕ <u>⊥</u>
12	6	28				191263	<u> </u>
13	9	✓ 14				190812	1
13	7						÷ =
21	1	21				190012	1
21	1	✓ 7				188895	1
11	3	· ·					<u> </u>
24	12	22				188408	1
24	10	15				187935	1
13	7					16/935	<u>*</u>
12	6	18				187791	1
		11				187543	1
							A
vww.smarten.com		CLOSE			31 Unique valu	5 5000	

UNIQUE VALUES—DELETING MULTIPLE UNIQUE VALUES

The system deletes the unique value after confirmation.

শ্	Smarten Advanced Data Discovery			📋 Dele	te			Welcome	Shyan	_
F	FlightData_201	6_S∨				delete all the rows containing t ou want to continue?		\$ 2		<u>"</u> (
R	esult set 👻	>>	Unique	YES			Last refreshe	d on April 13, 2	018 23:3	/5:31
#	O DEP_YEARQ	🕒 DE					Dens di st di			
1	2016	Q2	Ē	Search	Q		Page 1 of 1	1- R0	w coui	it 🔺
2	2016	Q2								
3	2016	Q3	Ful	ll data values		Filtered data values				
4	2016	Q4								
5	2016	Q3		VALUES						
6	2016	Q2								
7	2016	Q2	✓ 3	31				116480	/	Ê.
8	2016	Q3								
9	2016	Q3	3	30				172881		Ê
10	2016	Q1								-
11	2016	Q1	2	24				173112		Ê
12	2016	Q1	_							Ê
13	2016	Q4	1	16				174081	<u>a</u>	
14	2016	Q4	9	n				174158		Ê
15	2016	Q3		9				1/4150	<u>.</u>	
16	2016	Q2	2	23				174826		÷.
17	2016	Q3	4	20				174020	<u>.</u>	
18	2016	Q3	1	17				178942		Ê
19	2016	Q1							_	
20	2016	Q3	1	10				179111	/	Ê
21	2016	Q3								
22	2016	Q3	1	1				179615	<u>/</u>	Ê
23	2016	Q3							+	_
24	2016	Q3	3	3				180561	<u>/</u>	Ê
25	2016	Q3	_							
•	-		2	25				180798	<u>_</u>	Î
			4	4			-	180877	1	Î
ww	w.smarten.com		CLOS	SE			31 Unique v	values from 56	06065 i	ows



11. Click CLOSE.

7.2.7 Clustering and Editing Data in a Dataset

You can use the Cluster and Edit function to edit values in bulk. This function creates groups of similar data and displays them in a cluster that allows you to edit them in bunches.

Note:

This option is only available for the columns with the string data type.

Reference: Concept Manual > Clean Data > Cluster & Edit

About this task

Use this task to cluster and edit data in bulk.

Procedure

- 1. Open the dataset for which you want to edit data.
- Right-click in the column from which you want to edit data. The system displays the context menu.

Advanced Data Discovery					Welcome Shyam Ramani
FlightData_2016	SV				
				\$ \ III 🕑 🕸	× 1 01 (
				Last refreshed on	April 13, 2018 23:35:31 🛛 🜉
Deputterst Elight	Ante New Des 0040 De		t David		
Result set - Flight	Data_Nov_Dec_2016_Da	itase	t_Pred		
T UNIQUE_CARRIER Q		Т	ORIGIN_AIRPORT Q		ORIGIN_STATE_NM
AA	AA2008	MCC)	Orlando, FL	Florida 🔺
DL	DL2025	BWI		Baltimore, MD	Maryland
UA	UA195	IAH		Houston, TX	Texas
B6	B6305	EWF	Highlight >	Newark, NJ	New Jersey
AA	AA2387	ORE	Unique values	Chicago, IL	Illinois
vx	VX776	LAS	Cluster & edit	Las Vegas, NV	Nevada
AA	AA712	TPA		Tampa, FL	Florida
AA	AA2044	CLT	Find & replace	Charlotte, NC	North Carolina
VX	VX902	SFO	Remove >	San Francisco, CA	California
B6	B62204	RSV	Mark as >	Fort Myers, FL	Florida
B6	B62204	RSV		Fort Myers, FL	Florida
NK	NK473	ATL	Copy >	Atlanta, GA	Georgia
WN	WN51	MDV	Sort >	Chicago, IL	Illinois
B6	B61272	FLL	Transform >	Fort Lauderdale, FL	Florida
AS	AS92	ANC		Anchorage, AK	Alaska
00	003099	LAX	Add column >	Los Angeles, CA	California
WN	WN1682	LAS	Fill >	Las Vegas, NV	Nevada
WN	WN528	MSY	Split >	New Orleans, LA	Louisiana
EV	EV4246	CMH	· · · · · · · · · · · · · · · · · · ·	Columbus, OH	Ohio
AS	AS46	BET	Merge columns	Bethel, AK	Alaska
00	OO7361	RHI	Filter >	Rhinelander, WI	Wisconsin
4			Edit row		
			L	1	

www.smarten.com

Powered by ElegantJ BI Version 5.0.1.000

CLUSTER AND EDIT VALUES—THE CONTEXT MENU

3. Click Cluster & edit from the menu.

The system displays the **Cluster & edit** dialog box. The system creates clusters of values that are similar types of words.

FlightData_	2016_SV							
							\$ X	
						.ast refresh	ned on April 1	3, 2018 23:35:31
Result set 👻	FlightDat » C	luster & edit - ORIG	IN_AIRPORT					
UNIQUE_CARF								
	AA200	Search	Q,		Page	e 1 of 6	1 -	Size 👻
	DL202							
-		Full data values		Filtered data values				
	B6305							
	AA238	SIZE	VALUES			NAME		
	VX776	SIEL	ALUES					
	AA712	9	SFO		200248	SFO		
	AA204	_						
	VX902		SFO	171453	İ			
	B6220		SAV	7301	m			
	B6220		SBA					
	NK473							
1	WN51		SHV					
	B6127		SBP	3084	iii ↓			
	AS92	7	CHS		28480	CHS		
)	00308		ens		20400	CIIO		
4	WN16		CHS	14384	i Î			
1	WN52		CHA		 			
	EV424							
	AS46 00736		CAE		<u> </u>			
	DL815		СНО	2383	iii i			
	DL815		CSG	1186	≟ ↓			
		7	мсо		248764	MOO		
	60148	7	WICO		240704	MCO		
			MCO	126493	≘ Î			
				.20.00				

CLUSTER AND EDIT VALUES-CLUSTER AND EDIT DIALOG BOX

The system displays the size of a cluster, which indicates the number of values available in that cluster, the number of rows in which a particular value appears, and the total number of rows for a particular cluster. For example, in the image below, the highlighted region is a cluster. The cluster has 9 values, which indicates there are 9 unique values in that cluster and the total number of rows is 200248. The SFO value in the cluster appears in 171453 rows.

Search		Q,			Page	e1 of 6 1 ₩	Size 👻
Full	data values		Filtered data values				
	SIZE	VALUES				NAME	
	9	SFO			200248	SFO	
		SFO	171453	î î			
		SAV	7301	Ê			
		SBA	6028	Ê			
		SHV	5966	Ê			
		SBP	3084	î			
	7	CHS			28480	CHS	
		CHS	14384	Ê Î			
		CHA	4536	Ê			
		CAE	4499	Ê			
		СНО	2383	Ê			
		CSG	1186	<u> </u>			
	7	MCO			248764	MCO	
		MCO	126493	Ê Î			

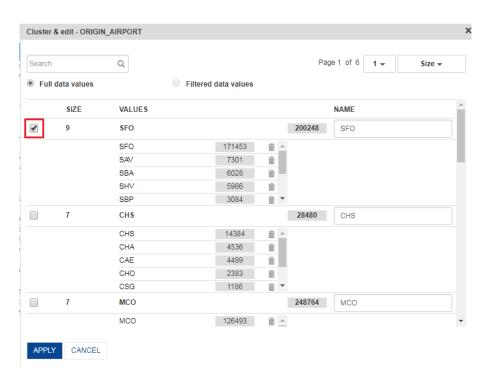
CLUSTER AND EDIT-INFORMATION AVAILABLE IN A CLUSTER

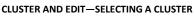
4. You can click the Delete icon adjacent to a value to exclude that value from the cluster. The system excludes the value after confirmation.

Searcl	h	Q,			Page 1	of 6 1 - Size -
🖲 Fu	ll data values		Filtered dat	a values		
	SIZE	VALUES				NAME
	9	SFO			200248	SFO
		SFO		171453	± ĵ	
		SAV		7301	童	
		SBA		6028	in l	
		SHV		5966	1	
		SBP		3084	<u>∎</u> ↓	
	7	CHS			28480	CHS
		CHS		14384	m Î	
		CHA		4536	ŵ	
		CAE		4499	1	
		СНО		2383	ŵ.	
		CSG		1186	i	
	7	MCO			248764	МСО
		MCO		126493	m Î	

CLUSTER AND EDIT-EXCLUDE A VALUE FROM A CLUSTER

5. Select the cluster that contains the value you want to edit, and then specify a new name in the **Name** box.





6. Provide a new value in the box adjacent to the selected cluster, and then click APPLY. The system updates all values within the selected cluster with the value provided. For example, in the image above, the values in the selected cluster, i.e., SFO, SAV, SBA, SHV, SBP, and so on will be replaced with the value SAR.

7.2.8 Finding and Replacing a Value

You use the find and replace function to find a particular value in a column and replace it with another value.

Note:

This option is only available for the columns with the string and numeric data type.

Reference: Concept Manual > Clean Data > Find & Replace

About this task

Use this task to find and replace a value within a column.

Procedure

Result set -

- 1. Open the dataset in which you want to find and replace a value.
- 2. Right-click the column from which you want to find and replace a value.

The system displays the context menu.

Advanced Data Discovery		Welcome Shyam Ramani
FlightData_2016_SV	💾 🖷 🛢: 💿 ∞ 🚑 🍡 🏭 🎯	
		on April 13, 2018 23:35:31

erq	O DEP_MONTH Q	DC	EP DAY OF MONT	ΉО	🕑 DEP_HOUR 🔍	🕑 DEP_DATE 🔍	O ARR_YEAR Q	O ARR_QUARTER Q	
	1	19	Highlight	>	18	January 19, 2016 12:30:00	2016	Q1	1
	1	18	Unique values		12	January 18, 2016 06:30:00	2016	Q1	1
	1	7	Find & replace	-[6	January 07, 2016 00:30:00	2016	Q1	1
	1	10	· · · · · · · · · · · · · · · · · · ·	-1	13	January 10, 2016 07:30:00	2016	Q1	1
	1	19	Remove	>	13	January 19, 2016 07:30:00	2016	Q1	1
	1	3	Mark as	>	10	January 03, 2016 04:30:00	2016	Q1	1
	1	19	Сору	>	6	January 19, 2016 00:30:00	2016	Q1	1
	1	17	Sort	-	9	January 17, 2016 03:30:00	2016	Q1	
	1	28		_	5	January 27, 2016 23:30:00	2016	Q1	
	1	3	Transform	>	8	January 03, 2016 02:30:00	2016	Q1	
	1	14	Add column	>	20	January 14, 2016 14:30:00	2016	Q1	
	1	18	Fill	>	14	January 18, 2016 08:30:00	2016	Q1	
	1	3		_	7	January 03, 2016 01:30:00	2016	Q1	
	1	22	Split	_	NULL	January 21, 2016 18:30:00	2016	Q1	
	1	6	Merge columns		10	January 06, 2016 04:30:00	2016	Q1	
	1	20	Filter	>	14	January 20, 2016 08:30:00	2016	Q1	
	1	29	Display Format	-[12	January 29, 2016 06:30:00	2016	Q1	
	1	10		_	7	January 10, 2016 01:30:00	2016	Q1	
	1	13	Edit row		17	January 13, 2016 11:30:00	2016	Q1	
	1	25	Statistics		5	January 24, 2016 23:30:00	2016	Q1	
	1	22	L	_	8	January 22, 2016 02:30:00	2016	Q1	

FIND AND REPLACE A VALUE—THE CONTEXT MENU

3. Click Find & replace from the menu.

The system displays the Find & replace dialog box.

Advanced Data Discovery	Welcome Shyam	Ramani
FlightData_2016_SV	P	R
	Last refreshed on April 13, 2018 23:3	
Result set 👻 FlightData_N	Find & replace - UNIQUE_CARRIER	×
R_QUARTER Q, 🕑 ARR_MONT	Find	
6	Value	3
8		
8	Equals Starts with Ends with Contains	
° 6	✓ Ignore case	
6	Replace with	
9	Value	3
7		~
1	Entire cell value Only matched value	
3		
12		
10		
7		
6		
9		
3		
7		
8		
8		
8		
7		
4		
	APPLY CANCEL	
www.smarten.com	APPLY CANCEL	

FIND AND REPLACE A VALUE—FIND AND REPLACE DIALOG BOX

4. Enter the value you want to find in the Find box.

Find		
lax		**
Equals Starts with Ends	with O Contains	
Ignore case Replace with		
lax		**

	APPLY	CANCEL
--	-------	--------

FIND AND REPLACE—PROVIDING THE VALUE TO BE FOUND

You can also click the Envelope icon to select a value from the list.

The following options are available:

- **Space**: Select this option if you want to find values that contain space.
- **Tab**: Select this option if you want to find values that contain tab.
- **Empty**: Select this option if you want to find empty values.
- Null: Select this option if you want to find null values.
- **Other**: Select this option if you want to find values other than space, tab, empty, and null.

Find & replace - UNIQUE_CARRIER		×
Find		
Value		t diama arrakaa diama diama diama diama diama diama diama diama diama diama diama diama diama diama diama diama diama di
 ● Equals ● Starts with ● Ends with ● Contains ✓ Ignore case Replace with 	\$SPACE\$ \$TAB\$ \$EMPTY\$	▲
Value		ŧ
APPLY CANCEL		

FIND AND REPLACE—SELECTING A VALUE FROM THE LIST

- 5. Select any of the following options:
 - **Equals**: Select this option to find values that are exactly the same as the value provided in the **Find** box.
 - **Starts with**: Select this option to find values that start with the value provided in the **Find** box.
 - Ends with: Select this option to find values that end with the value provided in the Find box.
 - **Contains**: Select this option to find values that contain the value provided in the **Find** box.

Note: These options are only available for the string data type columns.

6. Select the **Ignore case** option to ignore the case of the value provided in the **Find** box. For example, while finding "ABCD," data containing "abcd" or "ABcd" is also considered.

Find & replace - UNIQUE_CARRIER	×
Find	
lax	₩
 ● Equals ● Starts with ● Ends with ● Contains ✓ Ignore case Replace with 	
lax	₩
Entire cell value Only matched value	
APPLY CANCEL	

FIND AND REPLACE A VALUE—THE IGNORE CASE OPTION

If you do not select the option, the system finds values that contain the same case of the value provided in the **Find** box. For example, while finding "ABCD," data containing "ABCD" will only be considered, and "abcd" or "ABcd" will not be considered.

7. Enter the value you want to replace with the found values in the **Replace with** box.

Find & replace - UNIQUE_CARRIER	
Find	
lax	
 ● Equals ● Starts with ● Ends with ● Contains ✓ Ignore case 	
Replace with	
NYC	*
Entire cell value Only matched value	



FIND AND REPLACE A VALUE—SPECIFYING THE REPLACEMENT VALUE

- 8. Select any of the following values:
 - Entire cell value: Select this option to replace the entire value of the cell that contains find value with the new value. For example, "N002AA" will be replaced with "99" when finding values containing "00" and replacing them with "99."
 - **Only matched value**: Select this option to replace only the matched value with the new value. For example, "N002AA" will be replaced with "N992AA" when finding values containing "00" and replacing them with "99."
- 9. Click APPLY.

7.2.9 Removing Data from a Dataset

You can remove unnecessary or duplicate rows, columns, and rows having null or zero values or having a specific value in a column.

Reference: Concept Manual > Clean Data > Remove

About this task

Use this task to remove certain data in a dataset.

Procedure

- 1. Open the dataset from which you want to remove data.
- 2. Right-click in the column from which you want to remove data.

The system displays the context menu.

Flig	htData_2016_S	V				0 00 🚑	₩	\$ 2 1 01	(A
								shed on April 13, 2018 23:35	5:31
Resul	t set 👻								
ERQ	O DEP_MONTH Q	DD	EP DAY OF MON	тнС	DEP_HOUR Q	O DEP_DATE Q	O ARR_YEAR Q	C ARR_QUARTER Q	[
	1	19	Highlight	>	18	January 19, 2016 12:30:00	2016	Q1	
	1	18	Unique values		12	January 18, 2016 06:30:00		Q1	
	1	7	· ·		8	January 07, 2016 00:30:00		Q1	
	1	10	Find & replace		13	January 10, 2016 07:30:00	2016	Q1	
	1	19	Remove	>	13	January 19, 2016 07:30:00	2016	Q1	
	1	3	Mark as	>	10	January 03, 2016 04:30:00	2016	Q1	
	1	19	Сору	>	6	January 19, 2016 00:30:00	2016	Q1	
	1	17			9	January 17, 2016 03:30:00	2016	Q1	
	1	28	Sort	>	5	January 27, 2016 23:30:00	2016	Q1	
	1	3	Transform	>	8	January 03, 2016 02:30:00	2016	Q1	
	1	14	Add column	>	20	January 14, 2016 14:30:00	2016	Q1	
	1	18	Fill	_	14	January 18, 2016 08:30:00	2016	Q1	
	1	3			7	January 03, 2016 01:30:00	2016	Q1	
	1	22	Split	>	NULL	January 21, 2016 18:30:00	2016	Q1	
	1	6	Merge columns		10	January 06, 2016 04:30:00	2016	Q1	
	1	20	Filter	>	14	January 20, 2016 08:30:00	2016	Q1	
	1	29	Display Format	-	12	January 29, 2016 06:30:00	2016	Q1	
	1	10			7	January 10, 2016 01:30:00	2016	Q1	
	1	13	Edit row		17	January 13, 2016 11:30:00	2016	Q1	
	1	25	Statistics	1	5	January 24, 2016 23:30:00	2016	Q1	
	1	22	·		8	January 22, 2016 02:30:00	2016	Q1	

REMOVE VALUES—THE CONTEXT MENU

3. Click **Remove** from the menu.

The system displays the options available to remove data from the dataset.

Smarter Advanced Da								We	elcome	Shyam	n Rama
FlightDa	ta_2016_SV										
					ų		۹.	··· 2 \$			<u>«</u>
								Last refreshed on Apr	il 13, 2	018 23:3	5:31
Result set	FlightData_N	lov_Dec_2016_Dataset_	Pre	d							
Q. 📺 UN	QUE_CARRIER Q	T FLIGHT_NUMBER Q	Т	ORIGIN_AIRPORT	q		•	ORIGIN_STATE_NM Q	Т	DEST_	AIRPO
AA		AA2008	MC	0		Orlando, FL	Flori	da	PHL		
DL		DL2025	BW	1		Baltimore, MD	Mary	/land	ATL		
UA		UA195	IAH		_	Houston, TX	Texa	5	LAS		
B6		B6305	EV	Highlight >	·٢	Newark, NJ	New	Jersey	FLL		
AA		AA2387	OR	Unique values		Chicago, IL	Illino	is	BOS		
VX		VX776	LA	Cluster & edit	-	Las Vegas, NV	Neva	ada	DAL		
AA		AA712	TPA		-	Tampa, FL	Flori	da	DCA		
AA		AA2044	CĽ	Find & replace	Γ	Charlotte, NC	Nort	h Carolina	MSY		
VX		VX902	SF	Remove >	Г	This column	Calif	ornia	LAS		
B6		B62204	RS	Mark as >	Ŀ	This row	lori	da	BDL		
B6		B62204	RS		⊢		lori	da	BDL		
NK		NK473	ATI	Copy >	Ľ	Rows with this column value	Geo	rgia	LAX		
WN		WN51	MD	Sort >		Duplicate columns with this column	lino	is	DEN		
B6		B61272	FLI	Transform >		Duplicate rows with this row	Iori	da	LGA		
AS		AS92	AN	Add column >	H		las	ka	SEA		
00		003099	LA:	Add column /	Ľ	All duplicate rows	Calif	ornia	FAT		
WN		WN1682	LA	Fill >		Rows with all null	lev:	ada	MCC)	
WN		WN528	MS	Split >		Rows with all zeros	oui	siana	HOU		
EV		EV4246	CM	Merge columns	L	Columns with all null	Dhio		IAH		
AS		AS46	BE	-	H		las	ka	ANC		
00		OO7361	RH	Filter >	1	Columns with all zeros	Viso	onsin	MSP		
DL		DL815	SE	Edit row	Т	Seattle, WA	Was	hington	DTV		
DL		DL1565	DT	N		Detroit, MI	Mich	igan	BNA		
DA		B81490	EL I			Eart Loudordola, El	Elori		DCA		

REMOVE VALUES—OPTIONS AVAILABLE FOR THE REMOVE MENU

4. Click any of the options in the following table to apply that operation:

Option	Description
This column	Use this option to remove the selected column.
This row	Use this option to remove the selected row.
Rows with this column value	Use this option to remove all the rows that contain selected value in a particular column.
Duplicate columns with this column	Use this option to remove all the columns that contain exactly the same data as the selected column.
Duplicate row with this row	Use this option to remove all the rows that contain exactly the same data as the selected row.
All duplicate rows	Use this option to remove a set of rows that contain exactly the same data.
Rows with all null	Use this option to remove all the rows that have null in all the columns.
Rows with all zeros	Use this option to remove all the rows that have zeros in all numeric columns.
Columns with all null	Use this option to remove all the columns that have null in all rows.
Columns with all zeros	Use this option to remove all the columns that have zeros in all rows.

7.2.10 Marking Data in a Dataset

You can mark a column as a GeoMap dimension, time dimension, or dimension column depending on the data of that column.

Marking columns as a GeoMap dimension makes them available to be used in GeoMap objects. Similarly, columns marked as time dimension makes them available to be used in objects where they are needed for time-based analysis. Marking a column as dimension allows them to be used as dimension columns.

Note:

This function is only applicable for string and numeric data.

Reference: Concept Manual > Shape Data > Mark as

About this task

Use this task to mark data in a column.

Procedure

- 1. Open the dataset for which you want to mark data.
- 2. Right-click in the column from which you want to mark data.

The system displays the context menu.

Advanced Data Discovery					
FlightData_2016	6_SV				
			a 00 00 1	a 🖌 🏭 😥 🏟	
		п.			
				Last refreshed on	April 13, 2018 23:35:31
Result set - Flight	Data_Nov_Dec_2016_Da	itase	t_Pred		
	FLIGHT_NUMBERQ	F	ORIGIN_AIRPORT Q	T ORIGIN_CITY_NAME Q	ORIGIN_STATE
	AA2008	мсо		Orlando, FL	Florida
- _	DL2025	BWI		Baltimore, MD	Maryland
- A	UA195	IAH .		Houston, TX	Texas
3	B6305	EWF	Highlight >	Newark, NJ	New Jersey
4	AA2387	ORD	Unique values	Chicago, IL	Illinois
(VX776	LAS		Las Vegas, NV	Nevada
A	AA712	TPA	Cluster & edit	Tampa, FL	Florida
A	AA2044	CLT	Find & replace	Charlotte, NC	North Carolina
(VX902	SFO	Remove >	San Francisco, CA	California
3	B62204	RSV	Mark as >	Fort Myers, FL	Florida
3	B62204	RSV	·	Fort Myers, FL	Florida
K	NK473	ATL	Copy >	Atlanta, GA	Georgia
N	WN51	MDV	Sort >	Chicago, IL	Illinois
3	B61272	FLL	Transform >	Fort Lauderdale, FL	Florida
3	AS92	ANC		Anchorage, AK	Alaska
o	003099	LAX	Add column >	Los Angeles, CA	California
N	WN1682	LAS	Fill >	Las Vegas, NV	Nevada
N	WN528	MSY	Split >	New Orleans, LA	Louisiana
/	EV4246	CMH	Merge columns	Columbus, OH	Ohio
3	AS46	BET		Bethel, AK	Alaska
C	OO7361	RHI	Filter >	Rhinelander, WI	Wisconsin
			Edit row		•

www.smarten.com

Powered by ElegantJ BI Version 5.0.1.000

MARK DATA-THE CONTEXT MENU

3. Click Mark as from the menu.

The system displays the options available to mark data from the dataset.

Advanced Data Discovery						Welcome Shyam	Ramani
FlightData_20	16_SV						
-				•	····	* × •	æ
					Last	refreshed on April 13, 2018 23:35	5:31
Result set 👻 Flia	htData No	v Dec 2016 Da	taset Dred				
Result set + Fligh	niDala_N0	V_Dec_2016_Da	lasel_Pieu				
🕑 ARR_DATE 🛛 🔍	123 FLIGH	T_COUNTQ 🔳	UNIQUE_CARRIER Q	T FLIGHT_NUMBER Q	T ORIGIN_AIRPORT Q	T ORIGIN_CITY_NAME Q	ι 💽 C
June 09, 2016 21:00:00	1	AA		AA2008	MCO	Orlando, FL	Flor 🔺
June 18, 2016 12:00:00	1	DL		DL2025	BWI	Baltimore, MD	Mar
August 14, 2016 10:00:00	1		_	UA195	IAH	Houston, TX	Tex
November 12, 2016 18:00:00	1	Highlight	>	B6305	EWR	Newark, NJ	Nev
August 19, 2016 19:00:00	1	Unique values		AA2387	ORD	Chicago, IL	Illine
June 19, 2016 12:00:00	1	Find & replace		VX776	LAS	Las Vegas, NV	Nev
June 18, 2016 10:00:00	1	Remove	>	AA712	TPA	Tampa, FL	Flor
September 28, 2016 16:00:00	1			AA2044	CLT	Charlotte, NC	Nor
July 19, 2016 10:00:00	1	Mark as	> Time dimension	> <mark>9</mark> 02	SFO	San Francisco, CA	Cali
January 03, 2016 07:00:00	1	Сору	> GeoMap dimension	n> 1204	RSW	Fort Myers, FL	Flor
January 03, 2016 07:00:00	1	Sort	> Dimension	204	RSW	Fort Myers, FL	Flor
March 26, 2016 13:00:00	1		_	473	ATL	Atlanta, GA	Gec
December 05, 2016 07:00:00	1	Transform	>	WN51	MDW	Chicago, IL	Illine
October 13, 2016 17:00:00	1	Add column	>	B61272	FLL	Fort Lauderdale, FL	Flor
July 23, 2016 18:00:00	1	Fill	>	AS92	ANC	Anchorage, AK	Alas
June 09, 2016 17:00:00	1	Split	>	OO3099	LAX	Los Angeles, CA	Cali
September 19, 2016 18:00:00	1		-	WN1682	LAS	Las Vegas, NV	Nev
September 06, 2016 11:00:00	1	Merge columns		WN528	MSY	New Orleans, LA	Lou
March 20, 2016 18:00:00	1	Filter	>	EV4246	CMH	Columbus, OH	Ohi
July 17, 2016 21:00:00	1	Display Format	-	AS46	BET	Bethel, AK	Alas
August 20, 2016 16:00:00	1		_	OO7361	RHI	Rhinelander, WI	Wis
August 15, 2016 16:00:00	1	Edit row	_	DL815	SEA	Seattle, WA	Was
August 18, 2016 00:00:00	1	Statistics		DL1565	DTW	Detroit, MI	Micl
July 25, 2016 11:00:00	1	B6		B61480	FLL	Fort Lauderdale, FL	Flor _
Roofombor 22, 2048 22-00-00.	4	**		A A 2 2 2 5	MIA .	Miami El	Elor F

MARK DATA-OPTIONS AVAILABLE FOR THE MARK MENU

4. Click any of the options in the following table to apply that operation.

Optio	on	Suboption	Description
Time	dimension Note: This option is	Year	Use this option to mark the selected column as time dimension for the interval of a year.
	available for the numeric data type.	Quarter	Use this option to mark the selected column as time dimension for the interval of a quarter.
		Month	Use this option to mark the selected column as time dimension for the interval of a month.
		Week	Use this option to mark the selected column as time dimension for the interval of a week.
		Day	Use this option to mark the selected column as time dimension for the interval of a day.

	Hour	Use this option to mark the selected column as time dimension for the interval of an hour.
	Minute	Use this option to mark the selected column as time dimension for the interval of a minute.
	Second	Use this option to mark the selected column as time dimension for the interval of a second.
GeoMap dimension Note:	ZIP code	Use this option to mark the selected column as GeoMap dimension of a ZIP code.
The ZIP code, latitude, and	Latitude	Use this option to mark the selected column as GeoMap dimension of latitude.
longitude options are available for	Longitude	Use this option to mark the selected column as GeoMap dimension of longitude.
numeric data type, and the	Country	Use this option to mark the selected column as GeoMap dimension of a country.
country, county, state, city, and area	County	Use this option to mark the selected column as GeoMap dimension of a county.
options are available for	State	Use this option to mark the selected column as GeoMap dimension of state.
the string data type.	City	Use this option to mark the selected column as GeoMap dimension of a city.
	Area	Use this option to mark the selected column as GeoMap dimension of the area of a city.
Dimension		Use this option to mark the selected
Note:		column as a dimension column.
This option is available for		
the numeric		
data type.		

Similar to marking a column, you can use the above steps to unmark a marked column.

7.2.11 Copying Data in a Dataset

You can copy a particular column or a row and add a duplicate of the copied row or column in the dataset.

Reference: Concept Manual > Shape Data > Copy

About this task

Use this task to copy data in a dataset.

Procedure

- 1. Open the dataset in which you want to copy data.
- 2. Right-click in the column or row you want to copy.

The system displays the context menu.

	arten anced Data Discovery							Welcome Shyam Ran	mani
Flig	htData_2016_S	V							
						: (1) (1) (1)	₩	\$ I II	(A
							Last refre	shed on April 13, 2018 23:35	:31
Resul	t set 👻								
RTERQ		DD	FP DAY OF MONT	нQ	O DEP_HOUR Q	O DEP_DATE Q	C ARR_YEAR Q	O ARR_QUARTER Q	0
	1	19	Highlight	>	18	January 19, 2016 12:30:00	2016	Q1	1 🔺
	1	18	Unique values		12	January 18, 2016 06:30:00	2016	Q1	1
	1	7	Find & replace	-1	6	January 07, 2016 00:30:00	2016	Q1	1
	1	10	· · · · · · · · · · · · · · · · · · ·	_	13	January 10, 2016 07:30:00	2016	Q1	1
	1	19	Remove	>	13	January 19, 2016 07:30:00	2016	Q1	1
	1	3	Mark as	>	10	January 03, 2016 04:30:00	2016	Q1	1
	1	19	Сору	>	6	January 19, 2016 00:30:00	2016	Q1	1
	1	17	Sort	-	9	January 17, 2016 03:30:00	2016	Q1	1
	1	28		-1	5	January 27, 2016 23:30:00	2016	Q1	1
	1	3	Transform	>	8	January 03, 2016 02:30:00	2016	Q1	1
	1	14	Add column	>	20	January 14, 2016 14:30:00	2016	Q1	1
	1	18	Fill	>	14	January 18, 2016 08:30:00	2016	Q1	1
	1	3			7	January 03, 2016 01:30:00	2016	Q1	1
	1	22	Split	>	NULL	January 21, 2016 18:30:00	2016	Q1	1
	1	6	Merge columns		10	January 06, 2016 04:30:00	2016	Q1	1
	1	20	Filter	>	14	January 20, 2016 08:30:00	2016	Q1	1
	1	29		-1	12	January 29, 2016 06:30:00	2016	Q1	1
	1	10	Display Format	_1	7	January 10, 2016 01:30:00	2016	Q1	1
	1	13	Edit row		17	January 13, 2016 11:30:00	2016	Q1	1

COPY DATA-THE CONTEXT MENU

January 24, 2016 23:30:00 2016

January 22, 2016 02:30:00 2016

3. Click **Copy** from the menu.

25

22

Statistics

The system displays the options available to mark data from the dataset.

5

Q1

Q1

Advanced Data Discovery						
FlightData_201	16_SV					
				(D) (D) (T) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D	•••• 🖗 😰	
					Last refreshed on April 13,	2018 23:35:31
Result set 👻 Fligh	ntData Nov Dec 2016	Data	aset Pred			
		-	-	_	_	_
D ARR_DATE Q	FLIGHT_COUNT Q	U	NIQUE_CARRIER Q	T FLIGHT_NUMBER Q	T ORIGIN_AIRPORT Q	
une 09, 2016 21:00:00	1	AA		AA2008	MCO	Orlando, FL
une 18, 2016 12:00:00	1	DL		DL2025	BWI	Baltimore, MD
ugust 14, 2016 10:00:00	1	UA	Highlight >	UA195	IAH	Houston, TX
ovember 12, 2016 18:00:00	1	B6		B6305	EWR	Newark, NJ
igust 19, 2016 19:00:00	1	AA	Unique values	AA2387	ORD	Chicago, IL
ne 19, 2016 12:00:00	1	VX	Cluster & edit	VX776	LAS	Las Vegas, NV
ne 18, 2016 10:00:00	1	AA	Find & replace	AA712	TPA	Tampa, FL
eptember 26, 2016 16:00:00	1	AA	· · ·	AA2044	CLT	Charlotte, NC
ily 19, 2016 10:00:00	1	VX	Remove >	VX902	SFO	San Francisco, C
anuary 03, 2016 07:00:00	1	B6	Mark as >	B62204	RSW	Fort Myers, FL
anuary 03, 2016 07:00:00	1	B6	Copy >	Column	RSW	Fort Myers, FL
arch 26, 2016 13:00:00	1	NK			ATL	Atlanta, GA
ecember 05, 2016 07:00:00	1	WN	Sort >	Row	MDW	Chicago, IL
ctober 13, 2016 17:00:00	1	B6	Transform >	861272	FLL	Fort Lauderdale,
ily 23, 2016 18:00:00	1	AS	Add column >	AS92	ANC	Anchorage, AK
ine 09, 2016 17:00:00	1	00	Fill >	003099	LAX	Los Angeles, CA
eptember 19, 2016 18:00:00	1	WN		WN1682	LAS	Las Vegas, NV
eptember 08, 2016 11:00:00	1	WN	Split >	WN528	MSY	New Orleans, LA
arch 20, 2016 18:00:00	1	EV	Merge columns	EV4248	CMH	Columbus, OH
ly 17, 2016 21:00:00	1	AS	Filter >	AS48	BET	Bethel, AK
ugust 20, 2016 16:00:00	1	00		007361	RHI	Rhinelander, WI
ugust 15, 2016 16:00:00	1	DL	Edit row	DL815	SEA	Seattle, WA

COPY DATA-OPTIONS AVAILABLE FOR COPYING DATA

4. You can select **Column** if you want to copy the selected column.

The system creates a copy of the selected column next to the selected column. The name of the new column is the name of the copied column appended with the numeric value, which increases each time a copy of the column is added. For example, in the image above, we have selected the UNIQUE_CARRIER column. The system creates a copy of the column with the name UNIQUE_CARRIER_1 as shown in the image below.

Advanced Data Discor	very			Welcome	Shyam Raman
FlightData_2	2016_SV				
	-	8	0 0 🖡 't		
				Last refreshed on April 13, 20	018 23:35:31 🔒
Description of					
	ElightData Nov Dec 201	6 Dataset Pred			
	FlightData_Nov_Dec_201		1		
	Č	6_Dataset_Pred	T FLIGHT_NUMBERQ		
	Č				T ORIGIN_
		T UNIQUE_CARRIER_1Q			
		T UNIQUE_CARRIER_1 Q	AA2008	мсо	Orlando, FL 4
	T UNIQUE_CARRIER Q	T UNIQUE_CARRIER_1Q	AA2008 DL2025	MCO BWI	Orlando, FL A
	T UNIQUE_CARRIER Q	T UNIQUE_CARRIER_1 Q	AA2008 DL2025 UA195	MCO BWI IAH	Orlando, FL Baltimore, MD Houston, TX
	AA DL UA B6	T UNIQUE_CARRIER_1 Q	AA2008 DL2025 UA195 B6305	MCO BWI IAH EWR	Orlando, FL A Baltimore, MD Houston, TX Newark, NJ
	T UNIQUE_CARRIER Q	T UNIQUE_CARRIER_1 Q AA DL UA B6 AA AA	AA2008 DL2025 UA195 B6305 AA2387	MCO BWI IAH EWR ORD	Orlando, FL Baltimore, MD Houston, TX Newark, NJ Chicago, IL

FIND AND REPLACE—PROVIDING THE VALUE TO BE FOUND

5. You can select **Row** if you want to copy data of the selected row.

The system displays the **Copy Row** dialog box that allows you to copy the selected row. The user can modify value of any columns in that row, and a new row is inserted into the dataset.

FlightData_	2016_S	V		• • • • • • • • • • • • • • • • • • •
				Last refreshed on April 13, 2018 23:35:31
Result set 👻 🖡	Flight >>	Copy Row		
RR_DATE Q	123 FLIGI	DEP_YEAR	201	6
2016 21:00:00	1	DEP_QUARTER	Q1	
	1	DEP_MONTH	1	
19, 2016 19:00:00	1 1	DEP_DAY_OF_MONTH	1	
2016 10:00:00 4 ber 28, 2016 16:00:00 4 2016 10:00:00 4		DEP_DATE	1	01-01-16
03, 2016 07:00:00	1 1	UNIQUE_CARRIER	DL	
per 05, 2016 07:00:00		ORIGIN_AIRPORT	BZN	4
2016 18:00:00	1	ORIGIN_CITY_NAME	Boz	eman, MT
ber 19, 2016 18:00:00		ORIGIN_STATE_NM		itana
ber 08, 2016 11:00:00 1 0, 2016 18:00:00 1	1 1	DEST_AIRPORT	MSI	
2016 21:00:00 1 20, 2016 16:00:00 1	1	DEST_CITY_NAME		neapolis, MN
	1	DEST_STATE_NM		nesota
2016 11:00:00	1	DEP_DELAY	72.0	
1		ARR_DELAY	124	.0

COPY DATA-THE COPY ROW DIALOG BOX

6. Click **APPLY**.

The system creates a new row with the updated values.

7.2.12 Sorting Data in a Dataset

You can sort data in a column within a dataset in ascending or descending order.

Reference: Concept Manual > Shape Data > Sort

About this task

Use this task to sort data in a particular column.

Procedure

- 1. Open the dataset in which you want to sort data.
- 2. Right-click in the column whose data you want to sort.

The system displays the context menu.

Sm	arten vanced Data Discovery							Welcome Shyam Ra	man
Flig	htData_2016_S	V							~
						· · · · ·	<u>الم</u>	🕸 🖺 O1	(A
							Last refre	shed on April 13, 2018 23:35	5:31
Resul	it set 👻								
TERQ	O DEP_MONTHQ	DC	PEP DAY OF MON	тнО	O DEP_HOURQ	O DEP_DATE Q	C ARR_YEAR Q	C ARR_QUARTER Q	
	1	19	Highlight	>	18	January 19, 2016 12:30:00	2016	Q1	1
	1	18	Unique values		12	January 18, 2016 06:30:00	2016	Q1	1
	1	7	Find & replace	_	6	January 07, 2016 00:30:00	2016	Q1	1
	1	10	· · · · · · · · · · · · · · · · · · ·	_	13	January 10, 2016 07:30:00	2016	Q1	1
	1	19	Remove	>	13	January 19, 2016 07:30:00	2016	Q1	1
	1	3	Mark as	>	10	January 03, 2016 04:30:00	2016	Q1	1
	1	19	Сору	_	6	January 19, 2016 00:30:00	2016	Q1	1
	1	17			9	January 17, 2016 03:30:00	2016	Q1	1
	1	28	Sort	>	5	January 27, 2016 23:30:00	2016	Q1	1
	1	3	Transform	>	8	January 03, 2016 02:30:00	2016	Q1	1
	1	14	Add column	>	20	January 14, 2016 14:30:00	2016	Q1	1
	1	18	Fill	_	14	January 18, 2016 08:30:00	2016	Q1	1
	1	3		_	7	January 03, 2016 01:30:00	2016	Q1	1
	1	22	Split	>	NULL	January 21, 2016 18:30:00	2016	Q1	1
	1	6	Merge columns		10	January 06, 2016 04:30:00	2016	Q1	1
	1	20	Filter	>	14	January 20, 2016 08:30:00	2016	Q1	1
	1	29		-	12	January 29, 2016 06:30:00	2016	Q1	1
	1	10	Display Format	_	7	January 10, 2016 01:30:00	2016	Q1	1
	1	13	Edit row		17	January 13, 2016 11:30:00	2016	Q1	1
	1	25	Statistics		5	January 24, 2016 23:30:00	2016	Q1	1
						January 22, 2016 02:30:00			

SORT DATA—THE CONTEXT MENU

3. Click **Sort** from the menu.

The system displays the options available to sort data from the dataset.

Advan	rten ced Data Discovery				Welcome Shyam Ramani
Flight	tData_2016_SV				
		E	III : 0 00	🕵 🐂 🔛 🔛	🎄 🗵 🖺 OI 🧭
				L ast refeat	ed on April 13, 2018 23:35:31
				Last refreshe	ed on April 13, 2018 23:35:31 🛛 🚛
Result s	set 👻 FlightData_No	v_Dec_2016_Dataset_Pr	ed		
TE Q					
TE Q	FLIGHT_COUNT Q		T FLIGHT_NUMBERQ		
:00:00	1	AA	AA2008	MCO	Orlando, FL 🔺
2:00:00	1	DL	DL2025	BWI	Baltimore, MD
10:00:00	1	UA	UA195	IAH	Houston, TX
16 18:00:00	1	B6	E Highlight >	EWR	Newark, NJ
19:00:00	1	AA	Unique values	ORD	Chicago, IL
2:00:00	1	VX	Cluster & edit	LAS	Las Vegas, NV
):00:00	1	AA	4	TPA	Tampa, FL
016 16:00:00	1	AA	Find & replace	CLT	Charlotte, NC
00:00	1	VX	Remove >	SFO	San Francisco, CA
07:00:00	1	B6	Mark as >	RSW	Fort Myers, FL
3 07:00:00	1	B6	4	RSW	Fort Myers, FL
13:00:00	1	NK	Copy >	ATL	Atlanta, GA
16 07:00:00	1	WN	v Sort >	Ascending	Chicago, IL
3 17:00:00	1	B6	Transform >	Descending	Fort Lauderdale, FL
00:00	1	AS		Descending	Anchorage, AK
1:00:00	1	00	Add column >	LAX	Los Angeles, CA
016 18:00:00	1	WN	V Fill >	LAS	Las Vegas, NV
016 11:00:00	1	WN	Split >	MSY	New Orleans, LA
18:00:00	1	EV		СМН	Columbus, OH
00:00	1	AS	Merge columns	BET	Bethel, AK
16:00:00	1	00	Filter >	RHI	Rhinelander, WI
16:00:00	1	DL	Edit row	SEA	Seattle, WA
00:00:00	1	DL	DL1565	DTW	Detroit, MI
nn-nn	4	DR	DR1400	E11	Fort Loudordala, El
•					•

SORT DATA-OPTIONS AVAILABLE FOR THE SORT MENU

4. Click Ascending to sort data in the selected column in ascending order.

Or,

Click **Descending** to sort data in the selected column in descending order.

7.2.13 Transforming Data in a Dataset

You can change the data type and format of data within a particular column.

Note:

The options available to transform data depend on the data type of the selected column.

Reference: Concept Manual > Transform Data

About this task

Use this task to transform data in a column.

Procedure

- 1. Open the dataset for which you want to transform data.
- 2. Right-click in the column that you want to transform data.

The system displays the context menu.

Advanced Data Discovery				Welcome Shyam Raman
FlightData_2016	S_SV			
	B	I	a 1 III 🕑 🕸	
			Last refreshed on	April 13, 2018 23:35:31 惧
Result set 👻 Flight	Data_Nov_Dec_2016_Da	taset_Pred		
		T ORIGIN_AIRPORT Q		
A	AA2008	MCO	Orlando, FL	Florida 4
L	DL2025	BWI	Baltimore, MD	Maryland
A	UA195	IAH	Houston, TX	Texas
8	B6305	EWF Highlight >	Newark, NJ	New Jersey
A	AA2387	ORE Unique values	Chicago, IL	Illinois
х	VX776	LAS Cluster & edit	Las Vegas, NV	Nevada
A	AA712	TPA Cluster & edit	Tampa, FL	Florida
A	AA2044	CLT Find & replace	Charlotte, NC	North Carolina
х	VX902	SFO Remove >	San Francisco, CA	California
6	B62204	RSV Mark as >	Fort Myers, FL	Florida
6	B62204	RSV	Fort Myers, FL	Florida
к	NK473	ATL Copy >	Atlanta, GA	Georgia
/N	WN51	MDV Sort >	Chicago, IL	Illinois
6	B61272	FLL Transform >	Fort Lauderdale, FL	Florida
S	AS92	ANG	Anchorage, AK	Alaska
0	003099	LAX Add column >	Los Angeles, CA	California
/N	WN1682	LAS Fill >	Las Vegas, NV	Nevada
/N	WN528	MSY Split >	New Orleans, LA	Louisiana
V	EV4246	CMH	Columbus, OH	Ohio
s	AS46	BET Merge columns	Bethel, AK	Alaska
0	007361	RHI Filter >	Rhinelander, WI	Wisconsin

www.smarten.com

Powered by ElegantJ BI Version 5.0.1.000

TRANSFORM DATA—THE CONTEXT MENU

3. Click Transform from the menu.

The system displays the options available to transform data based on the data type of the selected column.

				🖡 🐂 🔛 🕑	\$ E D C
				Last refreshe	ed on April 13, 2018 23:35:31
Result s	et 🚽 FlightData_No	v_Dec_2016_Dataset_	Pred		
ΈQ	FLIGHT_COUNT Q	T UNIQUE_CARRIER	Q T FLIGHT_NUMBERQ	T ORIGIN_AIRPORT Q	T ORIGIN_CITY_NAME
:00:00	1	AA	AA2008	MCO	Orlando, FL
00:00	1	DL	DL2025	BWI	Baltimore, MD
0:00:00	1	UA	UA195	IAH	Houston, TX
6 18:00:00	1	e Highlight >	B6305	EWR	Newark, NJ
9:00:00	1	4 Unique values	AA2387	ORD	Chicago, IL
00:00	1		VX776	LAS	Las Vegas, NV
00:00	1	Cluster & edit	AA712	TPA	Tampa, FL
16 16:00:00	1	A Find & replace	AA2044	CLT	Charlotte, NC
00:00	1	Remove >	VX902	SFO	San Francisco, CA
07:00:00	1	Mark as >	B62204	RSW	Fort Myers, FL
07:00:00	1	E	B62204	RSW	Fort Myers, FL
3:00:00	1	Copy >	NK473	ATL	Atlanta, GA
6 07:00:00	1	V Sort >	WN51	MDW	Chicago, IL
17:00:00	1	Transform >	Upper case	FLL	Fort Lauderdale, FL
00:00	1	4		ANC	Anchorage, AK
00:00	1	Add column > I	Lower case	LAX	Los Angeles, CA
16 18:00:00	1	vFill > (Capitalise	LAS	Las Vegas, NV
16 11:00:00	1	Split > 1	Data type	MSY	New Orleans, LA
8:00:00	1	Merge columns		СМН	Columbus, OH
00:00	1	4	More	BET	Bethel, AK
6:00:00	1	Filter >	007361	RHI	Rhinelander, WI
6:00:00	1	C Edit row	DL815	SEA	Seattle, WA
00:00:00	1	DL	DL1565	DTW	Detroit, MI
00:00	1	86	B61480	FLL	Fort Lauderdale, FL

TRANSFORM DATA—OPTIONS AVAILABLE FOR THE TRANSFORM MENU

4. Click any of the options in the following table to apply that operation:

Data Type	Option	Description
String	Uppercase	Use this option to convert the characters in lowercase to uppercase in the selected column.
	Lowercase	Use this option to convert the characters in uppercase to lowercase in the selected column.
	Capitalize	Use this option to capitalize the data of the selected column.
	Data Type	Use this option to change the data type of the data within the selected column.
	More	Use this option to access the advanced options. The advanced options available depend on the data type of the data within the selected column.
Numeric	Data Type	Use this option to change the data type of the data within the selected column.
	More	Use this option to access the advanced options. The advanced options available depend on the data type of the data within the selected column.
Datetime	Make timepart zero	Use this option to convert the timepart of the datetime type of the selected column to zero.
	First date of month	Use this option to convert all dates of the selected column to the first date of their

	respective month.
Last date of month	Use this option to convert all dates of the selected column to the last date of their respective month.
Data type	Use this option to change the data type of the data within the selected column.
More	Use this option to access the advanced options. The advanced options available depend on the data type of the data within the selected column.

7.2.13.1 Changing Data Type of Data in a Dataset

You can change the data type of data in a particular column.

About this task

Use this task to change the data type of a column.

Procedure

- 1. Open the dataset for which you want to change the data type.
- 2. Right-click in the column you want to change the data type.

The system displays the context menu.

Advanced Data Discovery					Welcome Shyam Ram	.ani
FlightData_2016	SV					
° -	•			\$ '• III 🕑 \$		æ
				Last refreshed on	April 13, 2018 23:35:31	, s
Result set 👻 Flight	Data_Nov_Dec_2016_Da	taset_	Pred			
T UNIQUE_CARRIER Q		тО	RIGIN_AIRPORT Q		ORIGIN_STATE_	NM
AA	AA2008	MCO		Orlando, FL	Florida	-
DL	DL2025	BWI		Baltimore, MD	Maryland	
JA	UA195	IAH		Houston, TX	Texas	
36	B6305	EWF	Highlight >	Newark, NJ	New Jersey	
AA .	AA2387	ORE	Unique values	Chicago, IL	Illinois	
/X	VX776	LAS	Cluster & edit	Las Vegas, NV	Nevada	
AA .	AA712	TPA_	Cluster & edit	Tampa, FL	Florida	
AA .	AA2044	CLT	Find & replace	Charlotte, NC	North Carolina	
/X	VX902	SFO	Remove >	San Francisco, CA	California	
36	B62204	RSV	Mark as >	Fort Myers, FL	Florida	
36	B62204	RSV -		Fort Myers, FL	Florida	
NK	NK473	ATL	Copy >	Atlanta, GA	Georgia	
WN	WN51	MDV	Sort >	Chicago, IL	Illinois	
36	B61272	FLL	Transform >	Fort Lauderdale, FL	Florida	
AS	AS92	ANC -		Anchorage, AK	Alaska	
00	003099	LAX	Add column >	Los Angeles, CA	California	
WN	WN1682	LAS	Fill >	Las Vegas, NV	Nevada	
WN	WN528	MSY	Split >	New Orleans, LA	Louisiana	
EV	EV4248	CMH	Merge columns	Columbus, OH	Ohio	
AS	AS46	BET -	-	Bethel, AK	Alaska	
00	OO7361	RHI	Filter >	Rhinelander, WI	Wisconsin	•
4			Edit row		+	

www.smarten.com

Powered by ElegantJ BI Version 5.0.1.000

TRANSFORM DATA—THE CONTEXT MENU

3. Click **Transform** from the menu.

The system displays the options available to transform data based on the data type of the selected column.

						A 14		<u>.</u>	ŝ 🛛		01	æ
							Last re	efreshed	on Apri	113, 2018	3 23:35:	31 🚽
Result s	et - FlightData Nov	v Dec 2016 Datase	t Pre	ed								
E Q			-					ото				
	<u> </u>		~~~		L					_	1_10/44	41L 44
:00:00	1	AA		AA2008		co			Orlando, I	-		
:00:00	1	DL		DL2025		WI			Baltimore			- 1
10:00:00	1	UA Highlight >		UA195	IA				Houston,			
	1	- ingringin		B6305		WR			Newark, N			
19:00:00	1	Unique values		AA2387 VX776		RD			Chicago,			
1:00:00 1:00:00	1	Cluster & edit	<u> </u>	AA712		AS PA			Las Vega			
00:00		Find & replace	<u> </u>	AA712 AA2044		PA LT			Tampa, Fl Charlotte			
00:00	1		-	VX902		FO			San Fran			
07:00:00	1	Remove >	-	B62204	_	sw			Fort Myer			
07:00:00	1	Mark as >	-	B62204		SW			Fort Myer			
3:00:00	1	Copy >	<u> </u>	NK473		SVV TL			Atlanta, G			
	1	V Sort >	-	WN51		DW			Chicago.			
17:00:00	1	1				LL				erdale. FL		
00:00	1	Transform >	Upp	ercase		NC			Anchorag			
:00:00	1	Add column >	Low	ercase		AX			Los Ange			
016 18:00:00	1	Fill >	Capi	talise		AS			Las Vega			
016 11:00:00	1	V Split >	Data	type	M	SY			New Orle			
8:00:00	1		Data	type	с	мн			Columbus	, OH		
00:00	1	Merge columns	More	e	в	ET			Bethel, Al	<		
16:00:00	1	Filter >		007361	R	н		1	Rhineland	ler, WI		
16:00:00	1	Edit row		DL815	s	EA		:	Seattle, V	/A		
00:00:00	1	DL		DL1565	D	TW		1	Detroit, M	1		
00:00	1	86		B61480	FI	LL			Fort Laud	erdale, FL		
148 22-00-00	4	A A		A A 2226		IA			Miami El			

TRANSFORM DATA-OPTIONS AVAILABLE FOR THE TRANSFORM MENU

4. Click Data type.

The system displays the Transform data type dialog box.

set → Flight) DEP_YEAR Q (Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	Current data typ INT New data type		EP_MON	NTH						Last refre	eshed on	April 13	3, 2018	23:35:3	1
DEP_YEARQ	Current data typ INT New data type		EP_MON	NTH											
DEP_YEARQ	Current data typ INT New data type)e													×
0 0 0	3 New data type														
0 0	3														
٥	A INT														
															1
		come dat	ta durino	n datatur	no trans	formati	00								
٥	-	Some data	a danng	y aarary p	oc trans	Jonnau	011								
Q															-
Q													PR	EVIEW	
															-
٩	3														
0	0														
		03 01 01 01 04 04 04 03 02 03 03 03 03 03 03 03 03 03 03 03 03 03 03 03 03 03 03 03	Q3 Q1 Q1 Q4 Q4 Q3 Q2 Q3 Q1 Q3 Q3	Q3 Q1 Q1 Q1 Q1 Q4 Q3 Q3	Q3 Q1 Q1 Q1 Q4 Q4 Q4 Q3 Q3 Q3 Q3 Q3 Q3 Q3 Q3 Q3 Q3	Q3 Q1 Q1 Q4 Q4 Q3 Q3	Q3 Q1 Q1 Q1 Q4 Q4 Q3 Q2 Q3 Q3	Q3 Q1 Q1 Q1 Q4 Q4 Q3 Q3	Q3 Q1 Q1 Q1 Q1 Q1 Q4 Q4 Q4 Q4 Q3 Q3	Q3 Q1 Q1 Q1 Q4 Q4 Q3 Q2 Q3 Q3	Q3 Q1 Q1 Q1 Q4 Q4 Q3 Q3	Q3 Q1 Q1 Q1 Q4 Q4 Q3 Q3	Q3 Q1 Q1 Q1 Q1 Q1 Q4 Q4 Q3 Q3	Q3 Q1 Q1 Q1 Q1 Q4 Q4 Q3 Q3	Q3 Q1 Q1 Q1 Q4 Q4 Q3 Q3

TRANSFORM DATA—THE TRANSFORM DATA TYPE DIALOG BOX

The system displays the current data type of the selected column.

5. Select an option from the **New data type** list.

The following options are available based on the data type of the selected column: **String**:

- STRING
- DATE
- TIMESTAMP
- Double
- INT
- BIGINT

Integer:

- STRING
- DOUBLE
- INT
- BIGINT

Datetime:

- STRING
- DATE
- TIMESTAMP
- 6. You can click **PREVIEW** to view a preview of the transformed data.
- 7. Click **APPLY**.

7.2.13.2 Advanced Options for Transforming Data in a Dataset

You can use the advanced option to change data in a dataset.

About this task

Use this task to use advanced options to change data in a dataset.

Procedure

- 1. Open the dataset for which you want to change the data type.
- 2. Right-click in the column from which you want to change the data type.

The system displays the context menu.

Advanced Data Discovery					
FlightData_2016	S_SV				
	B		. (1)	\$ ' . 🔛 🕸	
				Last refreshed on	April 13, 2018 23:35:31
Deput est Elight	Data New Dea 2010 Da	taaa	t Drod		
Result set 👻 Flight	Data_Nov_Dec_2016_Da	lase			
UNIQUE_CARRIER Q	T FLIGHT_NUMBER Q		ORIGIN_AIRPORT Q	T ORIGIN_CITY_NAME Q	ORIGIN_STATE_N
A	AA2008	MCO		Orlando, FL	Florida
	DL2025	BWI		Baltimore, MD	Maryland
A	UA195	IAH		Houston, TX	Texas
6	B6305	EWF	Highlight >	Newark, NJ	New Jersey
A	AA2387	ORE	Unique values	Chicago, IL	Illinois
x	VX776	LAS	Cluster & edit	Las Vegas, NV	Nevada
A	AA712	TPA		Tampa, FL	Florida
A	AA2044	CLT	Find & replace	Charlotte, NC	North Carolina
X	VX902	SFO	Remove >	San Francisco, CA	California
6	B62204	RSV	Mark as >	Fort Myers, FL	Florida
6	B62204	RSV		Fort Myers, FL	Florida
IK	NK473	ATL	Copy >	Atlanta, GA	Georgia
/N	WN51	MDV	Sort >	Chicago, IL	Illinois
6	B61272	FLL	Transform >	Fort Lauderdale, FL	Florida
s	AS92	ANC		Anchorage, AK	Alaska
0	003099	LAX	Add column >	Los Angeles, CA	California
VN	WN1682	LAS	Fill >	Las Vegas, NV	Nevada
VN	WN528	MSY	Split >	New Orleans, LA	Louisiana
V	EV4248	CMH	Adama and man	Columbus, OH	Ohio
s	AS46	BET	Merge columns	Bethel, AK	Alaska
0	007361	RHI	Filter >	Rhinelander, WI	Wisconsin
(Edit row		+

www.smarten.com

Powered by ElegantJ BI Version 5.0.1.000

TRANSFORM DATA—THE CONTEXT MENU

3. Click **Transform** from the menu.

The system displays the options available to transform data based on the data type of the selected column.

Flight	tData_2016_SV		P III =: 0 00	.	a 🗈 🗈 🕅 🏹
				🖡 🖌 🏭 🕑	* I I (*
				Last refreshe	ed on April 13, 2018 23:35:31 🛛 🚛
					• • • •
Result	set 👻 FlightData_No	v_Dec_2016_Dataset	_Pred		
TE Q	123 FLIGHT_COUNT Q		RQ T FLIGHT_NUMBERQ	T ORIGIN_AIRPORT Q	T ORIGIN_CITY_NAME Q
1:00:00	1	AA	AA2008	MCO	Orlando, FL
2:00:00	1	DL	DL2025	BWI	Baltimore, MD
10:00:00	1	UA	UA195	IAH	Houston, TX
016 18:00:00	1	e Highlight >	B6305	EWR	Newark, NJ
19:00:00	1	⁴ Unique values	AA2387	ORD	Chicago, IL
2:00:00	1		VX776	LAS	Las Vegas, NV
0:00:00	1	Cluster & edit	AA712	TPA	Tampa, FL
016 16:00:00	1	A Find & replace	AA2044	CLT	Charlotte, NC
:00:00	1	Remove >	VX902	SFO	San Francisco, CA
8 07:00:00	1	Mark as >	B62204	RSW	Fort Myers, FL
3 07:00:00	1	4	B62204	RSW	Fort Myers, FL
13:00:00	1	Copy >	NK473	ATL	Atlanta, GA
016 07:00:00	1	V Sort >	WN51	MDW	Chicago, IL
8 17:00:00	1	E Transform >	Upper case	FLL	Fort Lauderdale, FL
:00:00	1	4		ANC	Anchorage, AK
7:00:00	1	Add column >	Lower case	LAX	Los Angeles, CA
016 18:00:00	1	v Fill >	Capitalise	LAS	Las Vegas, NV
016 11:00:00	1	V Split >	Data type	MSY	New Orleans, LA
18:00:00	1	Merge columns		CMH	Columbus, OH
:00:00	1	4	More	BET	Bethel, AK
16:00:00	1	Filter >	007361	RHI	Rhinelander, WI
16:00:00	1	C Edit row	DL815	SEA	Seattle, WA
00:00:00	1	DL .	DL1565	DTW	Detroit, MI
00:00	1	B6	B61480	FLL	Fort Lauderdale, FL
048-22-00-00	4	**	A A 2 2 2 B	MIA	Miami El

TRANSFORM DATA—OPTIONS AVAILABLE FOR THE TRANSFORM MENU

4. Click More.

The system displays the Transform dialog box.

			🕒 🖷 🛢: 💿 ∞ 🚑 🐂 🔛 🏟 🗷 🖺 🖽
			Last refreshed on April 13, 2018 23:35:31
Re	sult set 🚽 Fligh	h≫	Transform - DEP_QUARTER
	O DEP_YEARQ	Ō	Operation
_	2016		Select operation
_	2016	Q2 Q2	
	2016	Q2	Select operation
	2016	Q4	concat("string", "string")
_	2016	Q3	isNull(object)
	2016	Q2	isNumber("string")
	2016	Q2	left("string", i)
	2016	Q3	leftTrim("string")
	2016	Q3	
	2016	Q1	lpad("string", i, "string")
	2016	Q1	match("string", "string")
	2016	Q1	reverse("string")
	2016	Q4	right("string", i)
	2016	Q4	rightTrim("string")
	2016	Q3	rpad("string", i, "string")
	2016	Q2	substring("string", i, i)
	2016	Q3	trim("string")
	2016	Q3	uning suring)
	2016	Q1	
	2016	Q3	
	2016	Q3	
	2016	Q3	

TRANSFORM DATA—THE TRANSFORM DATA ADCVANCED OPTIONS

5. Select an option from the **Operation** list.

The following tables provide information about the advanced options available for transforming data in a dataset:

For string data type:

Operation	Description	Example
concat("string",	Returns a resulting string after concatenating	Argument 1 = "N787"
"string")	specified strings	Argument 2 = "AA"
	Argument 1: The text that has to be	Returns "N787AA"
	concatenate with argument 2	
	Argument 2: The text that has to be	
	concatenate with argument 1	
	Returns: A string	
isNull(object)	Determines if the argument is NULL	Argument 1 = "N787AA"
	Argument 1: The object that is to be checked	Returns "false"
	Returns: A boolean	Argument 1 = "NULL"
		Returns "true"

isNumber("string	Determines if the specified string contains a	Argument 1 = "N787AA"
")	number	Returns "false"
	Argument 1: The string that is to be checked	Argument 1 = "787"
	Returns: A boolean	Returns "true"
left("string", i)	Returns a specified number of characters	Argument 1 = "N787AA"
	from a string starting with the first character	Argument 2 = 2
	Argument 1: The text from which the partial	Returns "N7"
	words are to be returned	Argument 1 = "N787AA"
	Argument 2: The number of characters to be	Argument 2 = 8
	extracted from the beginning of the text	Returns "N787AA"
	Returns: A string	
leftTrim("string")	Returns a copy of a specified string with	Argument 1 = "87AA"
	leading blanks removed	Returns "87AA"
	Argument 1: The text for which blank spaces	Argument 1 = "87AA"
	are to be removed from left	Returns "87AA"
	Returns: A string	Argument 1 = "87AA"
		Returns "87AA"
lpad("string", i,	Returns a string with left-pad of specified	Argument 1 = "N787AA"
"string")	length	Argument 2 = 10
	Argument 1: The text in which left-pad is to	Argument 3 = "X"
	be added	Returns "XXXXN787AA"
	Argument 2: The length of string to be	Argument 1 = "N787AA"
	returned	Argument 2 = 3
	Argument 3: The text that is to be padded in	Argument 3 = "X"
	specified string	Returns "N78"
	Returns: A string	Argument 1 = "N787AA"
		Argument 2 = 6
		Argument 3 = "X"
		Returns "N787AA"
		RELUITIS NYOTAA
match("string",	Returns a determination of whether or not a	Argument 1 = "AA"
match("string", "string")		Argument 1 = "AA"
match("string", "string")	Returns a determination of whether or not a string contains a particular pattern of characters	
	string contains a particular pattern of characters	Argument 1 = "AA" Argument 2 = "N787AA" Returns 1
	string contains a particular pattern of	Argument 1 = "AA" Argument 2 = "N787AA" Returns 1 Argument 1 = "aa"
	string contains a particular pattern of characters Argument 1: The text that has to be searched in argument 2	Argument 1 = "AA" Argument 2 = "N787AA" Returns 1
	string contains a particular pattern of characters Argument 1: The text that has to be searched	Argument 1 = "AA" Argument 2 = "N787AA" Returns 1 Argument 1 = "aa" Argument 2 = "N787AA" Returns 0
	string contains a particular pattern of characters Argument 1: The text that has to be searched in argument 2 Argument 2: The text in which argument 1	Argument 1 = "AA" Argument 2 = "N787AA" Returns 1 Argument 1 = "aa" Argument 2 = "N787AA" Returns 0 Argument 1 = "AB"
	string contains a particular pattern of characters Argument 1: The text that has to be searched in argument 2 Argument 2: The text in which argument 1 has to be searched	Argument 1 = "AA" Argument 2 = "N787AA" Returns 1 Argument 1 = "aa" Argument 2 = "N787AA" Returns 0
	string contains a particular pattern of characters Argument 1: The text that has to be searched in argument 2 Argument 2: The text in which argument 1 has to be searched Returns: A number	Argument 1 = "AA" Argument 2 = "N787AA" Returns 1 Argument 1 = "aa" Argument 2 = "N787AA" Returns 0 Argument 1 = "AB" Argument 2 = "N787AA"
"string")	string contains a particular pattern of characters Argument 1: The text that has to be searched in argument 2 Argument 2: The text in which argument 1 has to be searched Returns: A number Reverses the order or characters in a string	Argument 1 = "AA" Argument 2 = "N787AA" Returns 1 Argument 1 = "aa" Argument 2 = "N787AA" Returns 0 Argument 1 = "AB" Argument 2 = "N787AA" Returns 0
"string")	string contains a particular pattern of characters Argument 1: The text that has to be searched in argument 2 Argument 2: The text in which argument 1 has to be searched Returns: A number	Argument 1 = "AA" Argument 2 = "N787AA" Returns 1 Argument 1 = "aa" Argument 2 = "N787AA" Returns 0 Argument 1 = "AB" Argument 2 = "N787AA" Returns 0 Argument 1 = "N208WN"
"string")	string contains a particular pattern of characters Argument 1: The text that has to be searched in argument 2 Argument 2: The text in which argument 1 has to be searched Returns: A number Reverses the order or characters in a string Argument 1: The text that needs to be reversed	Argument 1 = "AA" Argument 2 = "N787AA" Returns 1 Argument 1 = "aa" Argument 2 = "N787AA" Returns 0 Argument 1 = "AB" Argument 2 = "N787AA" Returns 0 Argument 1 = "N208WN"
"string") reverse("string")	string contains a particular pattern of characters Argument 1: The text that has to be searched in argument 2 Argument 2: The text in which argument 1 has to be searched Returns: A number Reverses the order or characters in a string Argument 1: The text that needs to be reversed Returns: A string	Argument 1 = "AA" Argument 2 = "N787AA" Returns 1 Argument 1 = "aa" Argument 2 = "N787AA" Returns 0 Argument 1 = "AB" Argument 2 = "N787AA" Returns 0 Argument 1 = "N208WN" Returns "NW802N"
"string")	string contains a particular pattern of characters Argument 1: The text that has to be searched in argument 2 Argument 2: The text in which argument 1 has to be searched Returns: A number Reverses the order or characters in a string Argument 1: The text that needs to be reversed	Argument 1 = "AA" Argument 2 = "N787AA" Returns 1 Argument 1 = "aa" Argument 2 = "N787AA" Returns 0 Argument 1 = "AB" Argument 2 = "N787AA" Returns 0 Argument 1 = "N208WN"

	specified number of characters should be	Argument 1 = "N208WN"
	returned from the end	Argument 2 = 8
	Argument 2: The number of characters to be	Returns "N208WN"
	returned from the string	
	Returns: A string	
rightTrim("string"	Returns a copy of the specified string with	Argument 1 = "N208"
)	trailing blanks removed	Returns "N208"
	Argument 1: The text from which extra	Argument 1 = "08WN"
	spaces have to be removed from the right	Returns "08WN"
	Returns: A string	Argument 1 = "208W"
		Returns "208W"
rpad("string", i,	Returns a string with right-pad of specified	Argument 1 = "N208WN"
"string")	length	Argument 2 = 9
	Argument 1: The text in which left-pad is to	Argument 3 = "XY"
	be added	Returns "N208WNXYX"
	Argument 2: The length of string to be	Argument 1 = "N208WN"
	returned	Argument 2 = 6
	Argument 3: The text that is to be padded in	Argument 3 = "XY"
	specified string	Returns "N208WN"
	Returns: A string	Argument 1 = "N208WN"
	5	Argument 2 = 4
		Argument 3 = "XY"
		Returns "N208"
substring("string"	Returns a string containing a character	Argument 1 = "N208WN"
, i, i)	copied (starting at a specified position and	Argument $2 = 2$
, , , ,	ending at a specified position) from a	Argument 3 = 4
	specified string	Returns "08"
	Argument 1: The text from which the	Argument 1 = "N208WN"
	characters have to be copied	Argument $2 = 2$
	Argument 2: Starting position from which the	-
		Argument 3 = 6 Returns "08WN"
	characters have to be copied considering the	Returns 08WN
	position of the first character at 0	
	Argument 3: Ending position up to which the	
	characters in the text are to be copied	
	Returns: A string	
trim("string")	Returns a string with leading and trailing	Argument 1 = "08WN"
	blanks removed	Returns "08WN"
	Argument 1: The text from which the extra	Argument 1 = "N208"
	spaces are to be removed	Returns "N208"
	Returns: A string	Argument 1 = "208W"
		Returns "208W"

For numeric data type:

Operation	Description	Example
abs(number)	Return absolute value of a number, a number without	Argument 1 = 32
	its sign	Returns 32
	Argument 1: The number for which absolute value is	Argument 1 = 67.98
	required	Returns 67.98
	Returns: A number	Argument 1 = -23
		Returns 23
ceil(d)	Returns the smallest whole number that is greater	Argument 1 = 26
	than or equal to a specified number	Returns 26
	Argument 1: The number that has to be rounded up	Argument 1 = 26.7
	Returns: A number	Returns 27
		Argument 1 = -26.7
		Returns -26
divide(number,	Returns the quotient of two numbers	Argument 1 = 551
number)	Argument 1: Dividend number that is to be divided by	Argument 2 = 2
	the divisor	Returns 275.50
	Argument 1: Divisor number	Argument 1 = -450
	Returns: A number	Argument 2 = 3
		Returns -150.00
		Argument 1 = 551
		Argument 2 = 0
		Returns NULL
		Argument 1 = 0
		Argument 2 = 551
		Returns 0.00
exp(d)	Returns the exponential value of a number	Argument 1 = 1145
	Argument 1: The exponent applied to base e	Returns "Infinity"
	Returns: A number	Argument 1 = 12
		Returns 162754.79
		Argument 1 = -25
		Returns 0.00
fact(i)	Returns the factorial of a number	Argument 1 = 7
	Argument 1: The number for which factorial is to be	Returns 5040
	calculated	Argument 1 = -5
	Returns: A number	Returns NULL
floor(d)	Returns the largest whole number that is smaller than	Argument 1 = 26
	or equal to a specified number	Returns 26
	Argument 1: The number to be rounded down	Argument 1 = 26.7
	Returns: A number	Returns 26
		Argument 1 = -26.7
		Returns -27
log(d)	Returns natural logarithm (base e) of a number	Argument 1 = 551
	Argument 1: A value greater than 0 for which	Returns 6.31
	logarithm is to be calculated	Argument 1 = -551
	Returns: A number	Returns NULL

		Argument 1 = 551.45
		Returns 6.31
logTen(d)	Returns decimal logarithm (base 10) of a number	Argument 1 = 551
	Argument 1: The value greater than 0 for which	Returns 2.74
	logarithm is to be calculated	Argument 1 = -551
	Returns: A number	Returns NULL
		Argument 1 = 551.45
		Returns 2.74
max(number,	Returns larger of two numbers	Argument 1 = 198
number)	Argument 1: First number to find out if it is larger than	Argument 2 = 1660
	the second number	Returns 1660.00
	Argument 2: Second number to find out if it is larger	Argument 1 = 198
	than the first number	Argument 2 = -1660
	Returns: A number	Returns 198.00
min(number,	Returns smaller of two numbers	Argument 1 = 198
number)	Argument 1: First number to find out if it is smaller	Argument 2 = 1660
	than the second number	Returns 198.00
	Argument 2: Second number to find out if it is smaller	Argument 1 = 198
	than the first number	Argument 2 = -1660
	Returns: A number	Returns -1660.00
minus(number,	Returns the subtraction of two numbers	Argument 1 = -5
number)	Argument 1: A base number	Argument 2 = 1237
	Argument 2: A number that is to be subtracted from	Returns -1242.00
	the base number	Argument 1 = 1237
	Returns: A number	Argument 2 = 29
		Returns 1208.00
mod(number,	Returns modulus of two numbers	Argument 1 = 460
number)	Argument 1: Dividend: The number to be divided	Argument 2 = 72
	Argument 2: Divisor: The number by which the	Returns 28.00
	dividend has to be divided	Argument $1 = -460$
	Returns: A number	Argument 2 = 72
		Returns 44.00
		Argument 1 = 460
		Argument 2 = -72
		Returns 28.00
		Argument 1 = -460
		Argument 2 = -72
		Returns -28.00
multiply(number,	Returns the product of two numbers	Argument 1 = 460
number)	Argument 1: A base number	Argument 2 = 72
	Argument 2: A number that is to be multiplied by the	Returns 33120.00
	base number	Argument 1 = -460
	Returns: A number	Argument 2 = 72
		Returns -33120.00
		Argument $1 = -460$
		Argument 2 = -72
		Returns 33120.00

pi(d)	Returns pi times a number	Argument 1 = 641
	Argument 1: The number	Returns 2013.76
	Returns: A number	Argument 1 = -3
		Returns -9.42
plus(number,	Returns the sum of two numbers	Argument 1 = 460
number)	Argument 1: A base number	Argument 2 = 72
	Argument 1: A number that is to be added to the base	Returns 532.00
	number	Argument 1 = 460
	Returns: A number	Argument 2 = -72
		Returns 388.00
		Argument 1 = -460
		Argument 2 = -72
		Returns -532.00
round(d, i)	Returns the number rounded to a specified number of	Argument 1 = 12.356
	decimal places	Argument 2 = 1
	Argument 1: The number to be rounded	Returns 12.40
	Argument 2: The number of places to which the	Argument 1 = -12.356
	number is to be rounded	Argument 2 = 1
	Returns: A number	Returns -12.40
		Argument 1 = 12.356
		Argument 2 = 2
		Returns 12.36
		Argument 1 = 12.356
		Argument 2 = 3
		Returns 12.35
sign(d)	Returns a number (-1, 0, or 1) indicating the sign of a	Argument 1 = -5
	number	Returns -1
	Argument 1: The number for which the algebraic sign	Argument 1 = 0
	is to be determined	Returns 0
	Returns: A number	Argument 1 = 29
		Returns 1
sqrt(d)	Returns the square root of a number	Argument 1 = 100
	Argument 1: A positive value for which the square root	Returns 10.00
	is to be calculated	Argument 1 = 588
	Returns: A number	Returns 24.24
		Argument 1 = -588
		Returns NaN (Not a
		number)

For datetime data type:

Operation	Description	Example
date(Timestamp)	Returns the date part of a timestamp	Argument 1 = 2018-02-16 20:38:40
	Argument 1: The timestamp for	Returns 2018-02-16
	which the date has to be returned	
	Returns: A date	

dateAdd("string", i ,Adds a certain date or time interval to a dateArgument 1 = "Year"date)to a dateArgument 2 = 2Argument 1: The type of interval to be addedArgument 3 = 2018-02-16 20:3(where the type of interval can be:Argument 1 = "Month"	3:40
Argument 1: The type of interval to be addedArgument 3 = 2018-02-16 20:3 Returns 2020-02-16 20:38:40	3:40
be added Returns 2020-02-16 20:38:40	5.40
I (where the type of interval can be: I Argument 1 = "Month"	
Year / Month / Day / Hour / Minute / Argument 2 = 2	
Second) Argument 3 = 2018-02-16 20:3	3:40
Argument 2: The interval to be added Returns 2018-04-16 20:38:40	
Argument 3: The date or timestamp Argument 1 = "Day"	
to which the specified interval has to Argument 2 = 10	
be added or subtracted Argument 3 = 2018-02-16 20:3	3:40
Returns: A timestamp Returns 2018-02-26 20:38:40	
Argument 1 = "Hour"	
Argument 2 = 2	
Argument 3 = 2018-02-16 20:3	3:40
Returns 2018-02-16 22:38:40	
Argument 1 = "Minute"	
Argument 2 = 2	
Argument 3 = 2018-02-16 20:3	8:40
Returns 2018-02-16 22:40:40	
Argument 1 = "Second"	
Argument 2 = 2	
Argument 3 = 2018-02-16 20:3	8:40
Returns 2018-02-16 22:38:42	5.10
dateDiff("string", Returns the number of intervals Argument 1 = "Year"	
date, date) between two dates or times Argument 2 = 2018-02-16 20:3	8:40
Argument 3 = 2016-02-16 20:3	
Argument 1: The type of interval to Returns 2	5.20
be calculated Argument 1 = "Month"	
(where the type of interval to be Argument 2 = 2018-02-16 20:3	8·10
calculated can be: Argument 3 = 2018-05-16 20:3	
Year / Month / Day / Hour / Minute / Returns -3	0.40
Second) Argument 1 = "Day"	
	0.40
	3:40
Returns 4	
Returns: A number Argument 1 = "Hour"	
Argument 2 = 2018-02-16 20:3	
Argument 3 = 2018-02-16 10:3	3:40
Returns 10	
Argument 1 = "Minute"	
Argument 2 = 2018-02-16 20:3	3:40
Argument 3 = 2018-02-16 10:1	3:40
Returns 10	
Argument 1 = "Second"	
	~ . ~
Argument 2 = 2018-02-16 20:3	3:40

do. (do t -)	Doturno the dour of a data	Argument 1 = $2010, 02, 10, 20, 10$
day(date)	Returns the day of a date	Argument 1 = 2018-02-16 20:38:40
	represented by a number (an integer	Returns 16
	between 1 and 31)	
	Argument 1: The date or timestamp	
	argument whose day of the month is	
	to be returned	
	Returns: A number	
dayName (date)	Returns the name of the day of the	Argument 1 = 2018-02-16 20:38:40
	week	Returns Friday
	Argument 1: The date or timestamp	
	for which day of the week is to be	
	returned	
	Returns: A string	
dayOfWeek(date)	Returns a number (between 1 and 7)	Argument 1 = 2018-02-16 20:38:40
	representing the day of the week (for	Returns 5
	example, Monday is 1, Wednesday is	
	3, and Sunday is 7)	
	Argument 1: The date or timestamp	
	for which day of the week is to be	
	returned	
	Returns: A number	
dayofYear(date)	Returns a number representing the	Argument 1 = 2018-02-16 20:38:40
	day of the year (an integer between	Returns 47
	1 and 366)	
	Argument 1: The date or timestamp	
	for which day of the year is to be	
	returned	
	Returns: A number	
daysAfter(date,	Returns the count of number of days	Argument 1 = 2018-02-16 20:38:40
date)	after specified date	Argument 2 = 2018-02-10 20:38:40
	Argument 1: The start date	Returns 6
	Argument 2: The end date	
	Returns: A number	
formatDate(date,	Returns the date or timestamp in	Argument 1 = 2018-02-16
"string")	specified format as a string datatype	Argument 2 = "yy/mm/dd"
	Argument 1: The date or timestamp	Returns 18/02/16
	Argument 2: The format in which	Argument 1 = 2018-02-16 20:38:40
	specified date or timestamp will be	Argument 2 = "mm/dd/yyyy"
	transformed	Returns 02/16/2018
	(where the format can be user	
	defined, such as "dd-mm-yy	
	hh:mm:ss")	
	Returns: A string	
hour(date)	Returns the hour of a time value (an	Argument 1 = 2018-02-16 20:38:40
/	integer ranging from 0 [12:00 AM] to	Returns 20
	23 [11:00 PM])	
	Argument 1: The timestamp for	
	which hours are to be returned	
i		

	Returns: A number	
minute(date)	Returns the minutes of a time value	Argument 1 = 2018-02-16 20:38:40
minute (uate)	(an integer ranging from 0 to 59)	Returns 38
	Argument 1: The timestamp for	
	-	
	which minutes are to be returned	
	Returns: A number	
month(date)	Returns the month (an integer	Argument 1 = 2018-02-16 20:38:40
	between 1 and 12)	Returns 2
	Argument 1: The date or timestamp	
	for which month is to be returned	
	Returns: A number	
monthName (date)	Returns the month name for a given	Argument 1 = 2018-02-16 20:38:40
	date or timestamp	Returns February
	Argument 1: The date or timestamp	
	for which month name is to be	
	returned	
	Returns: A string	
quarter(date)	Returns the quarter corresponding to	Argument 1 = 2018-02-16 20:38:40
	a date (an integer between 1 and 4)	Returns 1
	Argument 1: The date or timestamp	
	for which quarter is to be returned	
	Returns: A number	
second(timestamp)	Returns the seconds of a time value	Argument 1 = 2018-02-16 20:38:40
	(an integer in the range 0 to 59)	Returns 40
	Argument 1: The timestamp for	
	which seconds are to be returned	
	Returns: A number	
time(timestamp)	Returns the time part from a given	Argument 1 = 2018-02-16 20:38:40
	timestamp as a string datatype	Returns "20:38:40"
	Argument 1: The timestamp for	
	which time part is to be returned	
	Returns: A string	
weekOfMonth	Returns a number (between 1 and 5)	Argument 1 = 2018-02-16 20:38:40
(date)	representing the week of the month	Returns 3
(ddtc)	(for example, 1 for the first week and	
	3 for the third week)	
	Argument 1: The date or timestamp	
	for which week of month is to be	
	returned	
	Returns: A number	
weekOfVeer (date)	Returns a number (between 1 and	Argument 1 = 2018-02-16 20:38:40
weekOfYear (date)		Returns 7
	52) representing the week of the	
	year (for example, 8 for the eighth	
	week, 19 for the nineteenth week)	
	Argument 1: The date or timestamp	
	for which week of the year is to be	
	returned	
	Returns: A number	

year(date)	Returns the year part of the date or	Argument 1 = 2018-02-16 20:38:40
	timestamp (for example, 2001, 2018,	Returns 2018
	3000)	
	Argument 1: The date or timestamp	
	for which year part is to be returned	
	Returns: A number	

7.2.14 Adding a Column in a Dataset

You can add columns to a dataset as per your requirements.

Reference: Concept Manual > Shape Data > Add Column

About this task

Use this task to add a column in a dataset.

Procedure

- 1. Open the dataset in which you want to add a column.
- 2. Right-click in the column next to which you want to add a column.

The system displays the context menu.

	arten anced Data Discovery							Welcome Shyam Rar	man
Flia	htData_2016_S	V							
						· · · ·	*t	\$ E E	æ
							Last refres	shed on April 13, 2018 23:35	5:31
Resul	t set 👻								
TERQ	O DEP_MONTH Q	D D	EP DAY OF MON	тно	O DEP_HOUR Q	O DEP_DATE Q	O ARR_YEAR Q	O ARR_QUARTER Q	
	1	19	Highlight	>	18	January 19, 2016 12:30:00	2016	Q1	1
	1	18	Unique values		12	January 18, 2016 06:30:00	2016	Q1	1
	1	7	Find & replace	-1	6	January 07, 2016 00:30:00	2016	Q1	1
	1	10	Find & replace		13	January 10, 2016 07:30:00	2016	Q1	1
	1	19	Remove	>	13	January 19, 2016 07:30:00	2016	Q1	1
	1	3	Mark as	>	10	January 03, 2016 04:30:00	2016	Q1	1
	1	19	Сору	>	6	January 19, 2016 00:30:00	2016	Q1	1
	1	17		_	9	January 17, 2016 03:30:00	2016	Q1	1
	1	28	Sort	>	5	January 27, 2016 23:30:00	2016	Q1	1
	1	3	Transform	>	8	January 03, 2016 02:30:00	2016	Q1	1
	1	14	Add column	>	20	January 14, 2016 14:30:00	2016	Q1	1
	1	18	Fill	-	14	January 18, 2016 08:30:00	2016	Q1	1
	1	3			7	January 03, 2016 01:30:00	2016	Q1	1
	1	22	Split	>	NULL	January 21, 2016 18:30:00	2016	Q1	1
	1	6	Merge columns		10	January 06, 2016 04:30:00	2016	Q1	1
	1	20	Filter	>	14	January 20, 2016 08:30:00	2016	Q1	1
	1	29	Display Format	-	12	January 29, 2016 06:30:00	2016	Q1	1
	1	10			7	January 10, 2016 01:30:00	2016	Q1	1
	1	13	Edit row		17	January 13, 2016 11:30:00	2016	Q1	1
	1	25	Statistics		5	January 24, 2016 23:30:00	2016	Q1	1
	1	22			8	January 22, 2016 02:30:00	2016	Q1	

ADD A COLUMN-THE CONTEXT MENU

3. Click Add column from the menu.

The system displays the options available to add a column in the dataset.

									п
F	lightData_	2016	_S∖	/					
						•	📑 💿 💿 🚑 tu	***	
								Last refreshed on A	pril 13, 2018 23:35:31
Re	sult set 👻	Elight	Data	Nov Dec 2016	Dat	taset Pred			
					-	-			
	O DEP_YE	ARQ	O D	EP_QUARTER Q	C	DEP_MONTH Q	D DEP_DAY_OF_MONTH Q	O DEP_HOUR Q	O DEP_DATE
	2016	(22		6		9	19	June 09, 2016 19:00:00
	2016	(22		6		18	11	June 18, 2016 11:00:00
	2016	<	23	· · · · · · ·	8	1	14	9	August 14, 2016 09:00:00
	2016	(24	Highlight	>		12	16	November 12, 2016 16:0
	2016	•	23	Unique values			19	16	August 19, 2016 16:00:00
	2016	(22	Cluster & edit			19	8	June 19, 2016 08:00:00
	2016	(22	Find & replace			18	8	June 18, 2016 08:00:00
	2016	(23	- · · ·			26	16	September 26, 2016 16:0
	2016		23	Remove	>		19	9	July 19, 2016 09:00:00
)	2016		21	Mark as	>		3	5	January 03, 2016 05:00:0
	2016		21	Сору	>		3	5	January 03, 2016 05:00:0
	2016		21				26	11	March 26, 2016 11:00:00
	2016		24	Sort	>		5	5	December 05, 2016 05:00
	2016		24	Transform	>		13	14	October 13, 2016 14:00:0
	2016		23	Add column	>	Row number		14	July 23, 2016 14:00:00
	2016		22	Fill	>			16	June 09, 2016 16:00:00
	2016		23			Custom		10	September 19, 2016 10:0
	2016		23	Split	>			9	September 08, 2016 09:0
	2016		21	Merge columns			20	17	March 20, 2016 17:00:00
	2016		23 23	Filter	>		17 20	20	July 17, 2016 20:00:00
	2016		13 23	Edit row			15	15 9	August 20, 2016 15:00:00
:	2016		13 23	Luitiow	8		15	9 NULL	August 15, 2016 09:00:00 August 18, 2016 00:00:00

ADD A COLUMN—OPTIONS AVAILABLE FOR ADDING A COLUMN

4. Click any of the options in the following table to apply that operation.

Option	Description
Row number	Use this option to add a column that contains row number in ascending order starting from zero next to the selected column. For example, in the image above, the DEP_DATE column contains 100 records. When you apply Row number operation on that column, the system adds a column after the DEP_DATE column that contains row numbers in ascending order starting from zero. Row numbers sequence is based on the current order of the dataset.
Custom	Use this option to add a custom column based on the expression you have provided.

The table below describes the options available for the DateTime data type.

Function	Description	Example (23-Jan-2015 03:45:00)
Year	Use this option to return the year part of the selected date.	2015
Quarter	Returns the quarter corresponding to the date with the year starting from January.	1

Month	Returns the month number of the date with the year starting from January.	1
Month name	Returns the name of the month.	January
Week of Year	Returns a number (between 1 and 52) representing the week of the year starting from January.	4
Week of Month	Returns a number (between 1 and 5) representing the week of the month with the year starting from January.	4
Day of Week	Returns a number (between 1 and 7) representing the day of the week with the year starting from January.	5
Weekday Name	Returns the name of the weekday.	Friday
Day of Year	Returns a number representing the day of the year (an integer between 1 and 366) with the year starting from January.	23
Day of Month	Returns the day of the month.	23
Hour	Returns the hour of a time value (an integer ranging from 0 (12:00 A.M.) to 23 (11:00 P.M.).	03
Minute	Returns the minutes of a time value (an integer ranging from 0 to 59).	45
Second	Returns the seconds of a time value (an integer in the range from 0 to 59).	00

While adding a column for a datetime data type column, you can click the **Financial** option.

FlightData_201	16	SV				· · · ·
	-				• •	\$ I I II
					Last refresh	ed on April 13, 2018 23:35:31
Result set 👻 Fligi	ntDa	ta_Nov_Dec_2016	_Dataset_Pred			
O DEP_HOURQ	C	DEP_DATE Q	O ARR_YEAR Q	O ARR_QUARTER Q	O ARR_MONTH Q	C ARR_DAY_OF_MON
19	June		-2016	Q2	6	9
11	June	Highlight >	2016	Q2	6	18
9	Aug	Unique values	2016	Q3	8	14
16	Nove	Remove >	2016	Q4	11	12
16	Aug	Copy >	2016	Q3	8	19
8	June		2016	Q2	6	19
8	June	Sort >	Row number	12	6	18
16	Sept	Transform >	Year	13	9	28
9	July	Add column >		3	7	19
5	Janu	Fill >	Quarter	11	1	3
5	Janu		Month	11	1	3
11	Marc	-	Month Name	11	3	26
5	Dece	1 11101	Week of Year		12	5
14	Octo	Display Format		14	10	13
14	July		Week of Month	13	7	23
16	June		Day of Week	12	6	8
10		tember 19, 2016 10:00:00	Weekday Name	13	9	19
9		tember 06, 2016 09:00:00		_13	9	6
17		ch 20, 2016 17:00:00	Day of Year	11	3	20
20		17, 2016 20:00:00	Day of Month	13	7	17
15	-	ust 20, 2016 15:00:00	Hour	13	8	20
м	Aug	ust 15: 2016 09:00:00	Minute	13	8	15
			Second	-		
			Second	-		
			Financial			

ADD A COLUMN—FINANCIAL OPTION FOR DATETIME DATA TYPE

Financial				
Function	Description	Example (23-Jan-2015 03:45:00) Financial year start - April		
Year	Returns the year part of the date.	2014		
Quarter	Returns the quarter corresponding to the date with the year starting from the user's selected month.	4		
Month	Returns the month number of the date with the year starting from the user's selected month.	10		
Week of Year	Returns a number (between 1 and 52) representing the week of the year starting from the user's selected month.	43		
Week of Month	Returns a number (between 1 and 5) representing the week of the month with the year starting from the user's selected month.	4		
Day of Month	Returns the day of the month.	23		

Shown below are the options available for the Financial suboption.

Hour	Returns the hour of a time value (an integer ranging from 0 (12:00 A.M.) to 23 (11:00 P.M.).	03
Minute	Returns the minutes of a time value (an integer ranging from 0 to 59).	45
Second	Returns the seconds of a time value (an integer ranging from 0 to 59).	00

In the example above, you can set any month as the start of the financial year using the **Properties** option of the **Resultset** menu.

	0040.0	N (
FlightData_	_2016_S	SV .			
					A I
		1			
Result set 👻	FlightData	_Nov_Dec_:	2016_	Dataset	Pred
Result set 👻 Manage columns			_	·	-
		_Nov_Dec_2	_	Dataset	-
Manage columns			٩	·	-

RESULTSET MENU – THE PROPERTIES OPTION

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

FlightData_2	016_5	v	8	» fi 'i		× • •
					Last refreshed	on April 13, 2018 23:35:31
esult set 👻 FI	ight \gg	Properties				
O DEP_HOUR	_	 Configuration 				
19		Financial year starts from				
11	June	1				
9	Augus	January				
16	Nover					
16	Augus					
8	June					
8	June					
16	Septe					
9	July 1					
5	Janus					
5	Janus					
11	March					
5	Decer					
14	Octob					
14	July 2					
16	June					
10	Septe					
9	Septe					
17	March					
20	July 1					
15	Augus					
9	Aunus					

RESULTSET PROPERTIES—SETTING START OF A FINANCIAL YEAR

The system adds a new column based on the option you have selected.

7.2.14.1 Using Custom Options to Add a Column

You can quickly create custom columns by creating expressions based on various string, arithmetic, date, or miscellaneous statements using various arithmetic and comparison operators.

About this task

Use this task to add a column in a dataset using custom options.

Procedure

- 1. Open the dataset in which you want to add a column.
- 2. Right-click in the column next to which you want to add a column.

The system displays the context menu.

	arten anced Data Discovery							Welcome Shyam Ra	ima
Flia	htData_2016_S	V							
						0 00	۲	\$ E E	Q
							Last refre	shed on April 13, 2018 23:35	5:3
Resul	t set 👻								
ER Q	O DEP_MONTH Q	DD	EP DAY OF MON	гнО	O DEP_HOUR Q	O DEP_DATE Q	C ARR_YEAR Q	O ARR_QUARTER Q	
	1	19	Highlight	>	18	January 19, 2016 12:30:00	2016	Q1	
	1	18	Unique values		12	January 18, 2016 06:30:00		Q1	
	1	7	· ·	-	6	January 07, 2016 00:30:00	2016	Q1	
	1	10	Find & replace	_	13	January 10, 2016 07:30:00	2016	Q1	
	1	19	Remove	>	13	January 19, 2016 07:30:00	2016	Q1	
	1	3	Mark as	>	10	January 03, 2016 04:30:00	2016	Q1	
	1	19	Сору	>	6	January 19, 2016 00:30:00	2016	Q1	
	1	17		_	9	January 17, 2016 03:30:00	2016	Q1	
	1	28	Sort	>	5	January 27, 2016 23:30:00	2016	Q1	
	1	3	Transform	>	8	January 03, 2016 02:30:00	2016	Q1	
	1	14	Add column	>	20	January 14, 2016 14:30:00	2016	Q1	
	1	18	Fill	>	14	January 18, 2016 08:30:00	2016	Q1	
	1	3		-	7	January 03, 2016 01:30:00	2016	Q1	
	1	22	Split	>	NULL	January 21, 2016 18:30:00	2016	Q1	
	1	6	Merge columns		10	January 06, 2016 04:30:00	2016	Q1	
	1	20	Filter	>	14	January 20, 2016 08:30:00	2016	Q1	
	1	29	Display Format	-[12	January 29, 2016 06:30:00	2016	Q1	
	1	10	_ · ·	_	7	January 10, 2016 01:30:00	2016	Q1	
	1	13	Edit row		17	January 13, 2016 11:30:00	2016	Q1	
	1	25	Statistics		5	January 24, 2016 23:30:00		Q1	
	1	22	-	_	8	January 22, 2016 02:30:00	2016	Q1	

ADD A COLUMN-THE CONTEXT MENU

3. Click Add column from the menu.

The system displays the options available to add a column in the dataset.

۲ľ	Advanced Data Discover	ry						
F	lightData_2	016_S	SV V					
						🛢: 🛈 🗠 🚑 't _a	***	
							Last refreshed on A	pril 13, 2018 23:35:31
D	esult set 👻 Fl	ightDat:	a Nov Dec 2016	Dat	taset Dred			
		-		_	-			
	O DEP_YEAR	Q 🖸	DEP_QUARTER Q	0	DEP_MONTH Q	D DEP_DAY_OF_MONTHQ	O DEP_HOUR Q	DEP_DATE
	2016	Q2		6		9	19	June 09, 2016 19:00:00
	2016	Q2		6		18	11	June 18, 2016 11:00:00
	2016	Q3		8	1	14	9	August 14, 2016 09:00:00
	2016	Q4	Highlight	>		12	16	November 12, 2016 16:0
	2016	Q3	Unique values			19	16	August 19, 2016 16:00:00
	2016	Q2	Cluster & edit			19	8	June 19, 2016 08:00:00
	2016	Q2				18	8	June 18, 2016 08:00:00
	2016	Q3	Find & replace			26	16	September 26, 2016 16:0
	2016	Q3	Remove	>		19	9	July 19, 2016 09:00:00
)	2016	Q1	Mark as	>	1	3	5	January 03, 2016 05:00:0
	2016	Q1	Copy	>		3	5	January 03, 2016 05:00:0
2	2016	Q1				26	11	March 26, 2016 11:00:00
3	2016	Q4	Sort	>		5	5	December 05, 2016 05:00
	2016	Q4	Transform	>		13	14	October 13, 2016 14:00:0
5	2016	Q3	Add column	>	Row number		14	July 23, 2016 14:00:00
3	2016	Q2	Fill	>			16	June 09, 2016 16:00:00
	2016	Q3			Custom		10	September 19, 2016 10:0
3	2016	Q3	Split	>			9	September 06, 2016 09:0
)	2016	Q1	Merge columns			20	17	March 20, 2016 17:00:00
)	2016	Q3	Filter	>		17	20	July 17, 2016 20:00:00
	2016	Q3				20	15	August 20, 2016 15:00:00
2	2016	Q3	Edit row			15	9	August 15, 2016 09:00:00
}	2016	Q3		8		18	NULL	August 18, 2016 00:00:00

ADD A COLUMN—OPTIONS AVAILABLE FOR ADDING A COLUMN

- 4. Click Custom.
- 5. The system displays the **Add Column** dialog box.

Dataset_From_Da		🗈 💿 🛤 🧤 🏭 🔛 🏶	
esult set 👻 🚿	Add Column	Last refreshed on Octo	ber 13, 2018 15:21:37
MERIDQ E SALES_C	New column Name		
2 5 8 4 2	Expression		Position
1 1 0 0 6 4 5 4 1 4 1 2 2 3 4 1 2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4	Columns ContactID Sales_SalesOrderHeader_SalesI Sales_SalesOrderHeader_Territo BillToAddressID ShipToAddressID ShipToAddressID ShipMethodID CreditCardID CreditCardApprovalCode	Personi pryID	• • • •

ADD A COLUMN—ADDING A COLUMN USING CUSTOM OPTION

- 6. Enter a name for the new column in the **Name** box.
- 7. Double-click name of the column you want to use in the expression from the **Columns** section.

8. Select an option from the Functions list.

The following options are available:

- Arithmetic
- Date
- Miscellaneous
- String
- 9. Select an operation.

The operations available are based on the option you have selected in the above step.

- 10. Select an operator you want to use from the **Operators** section.
- 11. Click APPLY.

You can refer to the tables below for more information about the operations available for arithmetic, string, date, and miscellaneous functions.

Arithmetic functions:

Function	Description	Example
abs(number)	Returns absolute value of a number, a number	Argument 1 = 32
	without its sign	Returns 32
	Argument 1: The number for which absolute value is	Argument 1 = 67.98
	required	Returns 67.98
	Returns: A number	Argument 1 = -23
		Returns 23
ceil(d)	Returns the smallest whole number that is greater	Argument 1 = 26
	than or equal to a specified number	Returns 26
	Argument 1: The number that has to be rounded up	Argument 1 = 26.7
	Returns: A number	Returns 27
		Argument 1 = -26.7
		Returns -26
exp(d)	Returns the exponential value of a number	Argument 1 = 1145
	Argument 1: The exponent applied to base e	Returns "Infinity"
	Returns: A number	Argument 1 = 12
		Returns 162754.79
		Argument 1 = -25
		Returns 0.00
fact(i)	Returns the factorial of a number	Argument 1 = 7
	Argument 1: The number for which factorial is to be	Returns 5040
	calculated	Argument 1 = -5
	Returns: A number	Returns NULL
floor(d)	Returns the largest whole number that is smaller than	Argument 1 = 26
	or equal to a specified number	Returns 26
	Argument 1: The number to be rounded down	Argument 1 = 26.7
	Returns: A number	Returns 26
		Argument 1 = -26.7
		Returns -27

log(d)	Returns natural logarithm (base e) of a number	Argument 1 = 551
	Argument 1: A value greater than 0 for which	Returns 6.31
	logarithm is to be calculated	Argument 1 = -551
	Returns: A number	Returns NULL
		Argument 1 = 551.45
		Returns 6.31
logTen(d)	Returns decimal logarithm (base 10) of a number	Argument 1 = 551
0 ()	Argument 1: The value greater than 0 for which	Returns 2.74
	logarithm is to be calculated	Argument 1 = -551
	Returns: A number	Returns NULL
		Argument 1 = 551.45
		Returns 2.74
max(number,	Returns larger of two numbers	Argument 1 = 198
number)	Argument 1: First number to find out if it is larger than	Argument 2 = 1660
,	the second number	Returns 1660.00
	Argument 2: Second number to find out if it is larger	Argument 1 = 198
	than the first number	Argument 2 = -1660
	Returns: A number	Returns 198.00
min(number,	Returns smaller of two numbers	Argument 1 = 198
number)	Argument 1: First number to find out if it is smaller	Argument 2 = 1660
	than the second number	Returns 198.00
	Argument 2: Second number to find out if it is smaller	Argument 1 = 198
	than the first number	Argument 2 = -1660
	Returns: A number	Returns -1660.00
mod(number,	Returns modulus of two numbers	Argument 1 = 460
number)	Argument 1: Dividend: The number to be divided	Argument 2 = 72
,	Argument 2: Divisor: The number by which the	Returns 28.00
	dividend has to be divided	Argument 1 = -460
	Returns: A number	Argument 2 = 72
		Returns 44.00
		Argument 1 = 460
		Argument 2 = -72
		Returns 28.00
		Argument 1 = -460
		Argument 2 = -72
		Returns -28.00
pi(d)	Returns pi times a number	Argument 1 = 641
, . ,	Argument 1: The number	Returns 2013.76
	Returns: A number	Argument 1 = -3
		Returns -9.42
random(number,	Returns a random number between two specified	Argument 1 = 54
number)	numbers	Argument 2 = 55
		5
	Argument 1: The smallest integer value	Returns 54.45/54.51

	Deturner A much en	A
	Returns: A number	Argument 1 = 72
		Argument 2 = 80
		Returns 72.89/
		73.94/75.20/76.47
		Argument 1 = 20
		Argument 2 = -10
		Returns -7.68/-9.75/-
		2.65/5.97
round(d, i)	Returns a number rounded to a specified number of	Argument 1 = 12.356
	decimal places	Argument 2 = 1
	Argument 1: The number to be rounded	Returns 12.40
	Argument 2: The number of places to which the	Argument 1 = -12.356
	number is to be rounded	Argument 2 = 1
	Returns: A number	Returns -12.40
		Argument 1 = 12.356
		Argument 2 = 2
		Returns 12.36
		Argument 1 = 12.356
		Argument 2 = 3
		Returns 12.35
sign(d)	Returns a number (-1, 0, or 1) indicating the sign of a	Argument 1 = -5
31811(0)	number	Returns -1
	Argument 1: The number for which the algebraic sign	Argument 1 = 0
	is to be determined	Returns 0
	Returns: A number	Argument 1 = 29
		Returns 1
cart(d)	Returns the square root of a number	
sqrt(d)		Argument 1 = 100 Returns 10.00
	Argument 1: A positive value for which the square root is to be calculated	
		Argument 1 = 588
	Returns: A number	Returns 24.24
		Argument 1 = -588
		Returns NaN (Not a
		number)
truncate(d, i)	Returns a number truncated to a specified number of	Argument 1 = 10.54
	decimal places	Argument 2 = 1
	Argument 1: The number to be truncated	Returns 10.50
	Argument 2: The scale of the truncation	Argument 1 = 10.54
	Returns: A number	Argument 2 = 2
		Returns 10.54
		Argument 1 = 10.54
		Argument 2 = 0
		Returns 11.00
		Argument 1 = 10.25
		Argument 2 = 0
1		Returns 10.00

Argument 1 = -10.54
Argument 2 = 1
Returns -10.50

String functions:

Function	Description	Examples
asc(c)	Returns ASCII value of a character	Argument 1 = A
	Argument 1: The character for which the ASCII	Returns 65
	value is to be returned	Argument 1 = a
	Returns: A number	Returns 97
		Argument 1 = "1"
		Returns 49
booleanValue	Returns the content of a string as a boolean	Argument 1 = "True"
	Argument 1: The string from which boolean is	Returns true
("string")	to be returned	Argument 1 = "TRUE"
	Returns: A boolean	Returns true
		Argument 1 = "abc"
		Returns false
		Argument 1 = "748"
		Returns false
byteValue(object)	Returns the content of a string as a byte	Argument 1 = "N787AA"
	Argument 1: The object from which byte is to	Returns 0
	be returned	Argument 1 = "-128"
	Returns: A byte	Returns -128
		Argument 1 = "-129"
		Returns 0
		Argument 1 = "127"
		Returns 127
		Argument 1 = "128"
		Returns 0
		Argument 1 = "120.54"
		Returns 120
charValue(i)	Returns the content of an integer as a	Argument 1 = 65
	character	Returns "A"
	Argument 1: The number from which	Argument 1 = 97
	character is to be returned	Returns "a"
	Returns: A character	Argument 1 = 49
		Returns "1"
doubleValue(object)	Returns the content of a string as double	Argument 1 = "748"
	Argument 1: The object from which double is	Returns 748.00
	to be returned	Argument 1 = "748.52"
	Returns: A double	Returns 748.52
		Argument 1 = "-748.52"
		Returns -748.52

[]		Argument 1 - "aba"
		Argument 1 = "abc"
		Returns 0.00
		Argument 1 = "ABC"
		Returns 0.00
fill("string," i)	Returns a string of specified length filled with	Argument 1 = "N787AA"
	occurrences of a specified string	Argument 2 = 2
	Argument 1: The string that has to be filled	Returns "N7"
	Argument 2: The length of the filled string	Argument 1 = "N787AA"
	Returns: A string	Argument 2 = 6
		Returns "N787AA"
		Argument 1 = "N787AA"
		Argument 2 = 9
		Returns "N787AAN78"
floatValue(object)	Returns the content of a string as a float	Argument 1 = "748"
	Argument 1: The object from which float is to	Returns 748.00
	be returned	Argument 1 = "-748.52"
	Returns: A float	Returns -748.52
		Argument 1 = "abc"
		Returns 0.00
		Argument 1 = "ABC"
		Returns 0.00
indexOfChar("string",	Returns the starting position of a character	Argument 1 = "N787AA"
c, i)	within a specified string	Argument 2 = $'7'$
C, I)	Argument 1: The string from which the index is	Argument 3 = 1
	to be returned	Returns 1
	Argument 2: The character to find the index	Argument 1 = "N787AA"
	Argument 3: The starting position of the string	Argument 2 = $'7'$
	in number	0
	Returns: A number	Argument 3 = 3
	Returns. A number	Returns 3
		Argument 1 = "N787AA"
		Argument 2 = 'A'
		Argument 3 = 3
		Returns 4
		Argument 1 = "N787AA"
		Argument 2 = 'A'
		Argument 3 = 6
		Returns 5
		Returns 5
		Argument 1 = "N787AA"
		Argument 1 = "N787AA"
		Argument 1 = "N787AA" Argument 2 = 'Y'
IndexOfString	Returns the starting position of a string within	Argument 1 = "N787AA" Argument 2 = 'Y' Argument 3 = 1
IndexOfString ("string", "string", i)	Returns the starting position of a string within a specified string	Argument 1 = "N787AA" Argument 2 = 'Y' Argument 3 = 1 Returns -1
-		Argument 1 = "N787AA" Argument 2 = 'Y' Argument 3 = 1 Returns -1 Argument 1 = "N208WN"

		A
	Argument 2: The string to find index	Argument 1 = "N208WN"
	Argument 3: The starting position of the string	Argument 2 = '208'
	in number	Argument 3 = 4
	Returns: A number	Returns -1
		Argument 1 = "N208WN"
		Argument 2 = 'WN'
		Argument 3 = 4
		Returns 4
intValue(object)	Returns the contents of a string as an integer	Argument 1 = "N787AA"
	Argument 1: The object from which integer is	Returns 0
	to be returned	Argument 1 = "748"
	Returns: An integer	Returns 748
		Argument 1 = "748.52"
		Returns 748
		Argument 1 = "-748"
		Returns -748
isDate("string")	Determine if the specified string contains a	Argument 1 = "2015-01-
	valid date	09″
	Argument 1: The string that is to be checked	Returns "true"
	Returns: A boolean	Argument 1 = "N787AA"
		Returns "false"
isNull(object)	Determines if the argument is NULL	Argument 1 = "N787AA"
	Argument 1: The object that is to be checked	Returns "false"
	Returns: A boolean	Argument 1 = NULL
		Returns "true"
isNumber("string")	Determines if the specified string contains a	Argument 1 = "N787AA"
	number	Returns "false"
	Argument 1: The string that is to be checked	Argument 1 = "787"
	Returns: A boolean	Returns "true"
isTime("string")	Determines if the specified string contains a	Argument 1 = "15:30:00"
	valid time	Returns "true"
	Argument 1: The string that is to be checked	Argument 1 = "N787AA"
	Returns: A boolean	Returns "false"
left("string", i)	Returns a specified number of characters from	Argument 1 = "N787AA"
	a string starting with the first character	Argument 2 = 2
	Argument 1: The text from which the partial	Returns "N7"
	words are to be returned	Argument 1 = "N787AA"
	Argument 2: The number of characters to be	Argument 2 = 8
	extracted from the beginning of the text	Returns "N787AA"
	Returns: A string	
leftTrim("string")	Returns a copy of a specified string with	Argument 1 = "87AA"
	leading blanks removed	Returns "87AA"
	Argument 1: The text for which blank spaces	Argument 1 = "87AA"
	are to be removed from left	Returns "87AA"

	Returns: A string	Argument 1 = "87AA"
		Returns "87AA"
length("string")	Returns the length of a string	Argument 1 = "N787AA"
	Argument 1: The string for which length is to	Returns 6
	be checked	Argument 1 = "748"
	Returns: A number	Returns 3
		Argument 1 = "748.52"
		Returns 6
		Argument 1 = "-748.52"
		Returns 7
longValue(object)	Returns the content of a string as long	Argument 1 = "N787AA"
	Argument 1: The object from which long is to	Returns 0
	be returned	Argument 1 = "748"
	Returns: A long	Returns 748
		Argument 1 = "748.52"
		Returns 748
		Argument 1 = "-748.52"
		Returns -748
match("string",	Returns a determination whether or not a	Argument 1 = "AA"
"string")	string contains a particular pattern of	Argument 2 = "N787AA"
0,	characters	Returns 1
	Argument 1: The text that has to be searched	Argument 1 = "aa"
	in argument 2	Argument 2 = "N787AA"
	Argument 2: The text in which argument 1 has	Returns 0
	to be searched	Argument 1 = "AB"
	Returns: A number	Argument 2 = "N787AA"
		Returns 0
replace("string", i, i,	Returns a copy of a specified string in which a	Argument 1 = "N208WN"
"string")	specified number of characters starting with a	Argument 2 = 1
0,	specified character have been replaced with	Argument 3 = 2
	characters from another specified string	Argument 4 = "3"
	Argument 1: The string to be processed	Returns "N308WN"
	Argument 2: Start index	Argument 1 = "N208WN"
	Argument 3: End index	Argument 2 = 4
	Argument 4: The string to be replaced	Argument 3 = 6
	Returns: A string	Argument 4 = "ML"
		Returns "N208ML"
		Argument 1 = "N208WN"
		Argument $2 = 0$
		Argument 3 = 1
		Argument 4 = "M"
		Returns "M208WN"
reverse("string")	Reverses the order or characters in a string	Argument 1 = "N208WN"
i e rei se (sti ing /	Argument 1: The text that needs to be	Returns "NW802N"
	reversed	
	Returns: A string	

Returns the specified number of characters	Argument 1 = "N208WN"
	Argument 2 = 3
Argument 1: The text from which the specified	Returns "8WN"
number of characters should be returned from	Argument 1 = "N208WN"
the end	Argument 2 = 8
Argument 2: The number of characters to be	Returns "N208WN"
returned from the string	
Returns: A string	
Returns a copy of a specified string with	Argument 1 = "N208"
trailing blanks removed	Returns "N208"
Argument 1: The text from which extra spaces	Argument 1 = "08WN"
have to be removed from the right	Returns "08WN"
Returns: A string	Argument 1 = "208W"
	Returns "208W"
Returns contents of a string as short	Argument 1 = "N787AA"
Argument 1: The object from which short to	Returns 0
be returned	Argument 1 = "748"
Returns: A long	Returns 748
	Argument 1 = "748.52"
	Returns 748
	Argument 1 = "-748.52"
	Returns -748
Returns the string of a specified length filled	Argument 1 = 5
with a specified number of spaces	Returns " "
Argument 1: Number of space	
Returns: A string	
Returns a string containing a character copied	Argument 1 = "N208WN"
(starting at a specified position and ending at a	Argument 2 = 2
specified position) from a specified string	Argument 3 = 4
Argument 1: The text from which the	Returns "08"
characters have to be copied	Argument 1 = "N208WN"
Argument 2: Starting position from which the	Argument 2 = 2
characters have to be copied	Argument 3 = 6
Argument 3: Ending position up to which the	Returns "08WN"
characters in the text are to be copied	
Returns: A string	
Returns a copy of a specified string with all	Argument 1 = "N208WN"
uppercase letters converted to lowercase	Returns "n208wn"
Argument 1: The text for which the uppercase	Argument 1 = "N208wN"
letters are to be converted to lowercase	Returns "n208wn"
Returns: A string	Argument 1 = "n208wn"
	Returns "n208wn"
Poturne a string representation of a specified	Argument 1 = 748
Returns a string representation of a specified	
object	Returns "748"
	-
	from the end of a specified string Argument 1: The text from which the specified number of characters should be returned from the end Argument 2: The number of characters to be returned from the string Returns: A string Returns a copy of a specified string with trailing blanks removed Argument 1: The text from which extra spaces have to be removed from the right Returns: A string Returns contents of a string as short Argument 1: The object from which short to be returned Returns: A long Returns: A long Returns a string containing a character copied (starting at a specified position and ending at a specified position) from a specified string Argument 1: The text from which the characters have to be copied Argument 2: Starting position from which the characters in the text are to be copied Returns: A string Returns: A string Returns 3: Ending position up to which the characters in the text are to be copied Returns: A string Returns: A string Returns: A string Returns 3: Ending position up to which the characters in the text are to be copied Argument 3: Ending position up to which the characters in the text are to be copied Returns: A string Returns: A string

	Del con Astrico	A
	Returns: A string	Argument 1 = -748.52
		Returns "-748.52"
		Argument 1 = 16-02-2018
		20:38:40
		Returns "16-02-2018
		20:38:40"
ToUpperCase	Returns a copy of a specified string with all	Argument 1 = "n208wn"
("string")	lowercase letters converted to uppercase	Returns "N208WN"
	Argument 1: The text for which the lowercase	Argument 1 = "n208Wn"
	letters are to be converted to uppercase	Returns "N208WN"
	Returns: A string	Argument 1 = "N208WN"
		Returns "N208WN"
trim("string")	Returns a string with leading and trailing	Argument 1 = "08WN"
	blanks removed	Returns "08WN"
	Argument 1: The text from which the extra	Argument 1 = "N208"
	spaces are to be removed	Returns "N208"
	Returns: A string	Argument 1 = "208W"
		Returns "208W"

Miscellaneous functions:

Functions	Description	Examples
ifCase(condition,	Returns TRUE if the condition is validated	Argument 1 =
truevalue, falsevalue)	and returns FALSE if invalidated	origin=="LAX"
	Argument 1: The condition	Argument 2 = "Los
	Argument 2: True value	Angeles"
	Argument 3: False value	Argument 3 = "Others"
	Returns: An object	
		Returns "Los Angeles" if
		the value of origin is "LAX"
		or else returns "Others"
noOfDaysByDate(Start	Returns the number of days between a	Argument 1 = 2014-03-10
Date, EndDate)	given start and end date	Argument 2 = 2014-04-10
	Argument 1: Start date	Returns 32
	Argument 2: End date	
	Returns: A number	
noOfHalfYearsByDate(S	Returns a number of half years between a	Argument 1 = 2014-01-01
tartDate, EndDate)	given start and end date	Argument 2 = 2014-12-31
	Argument 1: Start date	Returns 2
	Argument 2: End date	Argument 1 = 2014-01-01
	Returns: A number	Argument 2 = 2014-05-31
		Returns 0
		Argument 1 = 2014-01-01
		Argument 2 = 2014-08-31
		Returns 1

noOfMonthsByDate(St	Returns the number of months between a	Argument 1 = 2014-01-01
artDate, EndDate)	given start and end date	Argument 2 = 2014-12-31
,	Argument 1: Start date	Returns 12
	Argument 2: End date	Argument 1 = 2014-01-01
	Returns: A number	Argument 2 = 2014-07-10
		Returns 6
		Argument 1 = 2014-01-01
		Argument 2 = 2014-05-15
		Returns 4
noOfQuartersByDate(St	Returns a number of quarters between a	Argument 1 = 2014-01-01
artDate, EndDate)	given start and end date	Argument 2 = 2014-12-31
	Argument 1: Start date	Returns 4
	Argument 2: End date	Argument 1 = 2014-01-01
	Returns: A number	Argument 2 = 2014-08-15
		Returns 2
noOfWeeksByDate(Star	Returns the number of weeks between a	Argument 1 = 2014-01-01
, ,		-
tDate, EndDate)	given start and end date	Argument 2 = 2015-01-01
	Argument 1: Start date	Returns 52
	Argument 2: End date	Argument 1 = 2014-01-01
	Returns: A number	Argument 2 = 2014-07-01
		Returns 25
		Argument 1 = 2014-01-01
		Argument 2 = 2014-01-03
		Returns 0
		Argument 1 = 2014-01-01
		Argument 2 = 2014-01-12
		Returns 1
whenThen(columnnam	Tests values of a column or expression and	Argument 1 = Origin
e, whenvalue1, thenres	returns values based on the results of the	Argument 2 = "LAX"
ult1, whenvalue2, then	test	Argument 3 = "Los
result2,, elseresult)		Angeles"
		Argument 4 = "JFK"
		Argument 5 = "John F.
		Kennedy"
		Argument 6 = "Others"
		Returns "Los Angeles" if
		the value of column
		"origin" is "LAX" and "John
		F. Kennedy" if the value is
		"JFK." For rest of the
		values, returns "Others"

Date functions:

Function	Description	Example
date(Timestamp)	Returns the date part of a timestamp Argument 1: The timestamp for which the date has to be returned Returns: A date	Argument 1 = 2018-02-16 20:38:40 Returns 2018-02-16
dateAdd ("string", i , date)	Adds a certain date or time interval to a date Argument 1: The interval of time (where the type of interval can be: Year / Month / Day / Hour / Minute / Second) Argument 2: The number of interval to be added to the time Argument 3: The date and time to add the interval to Returns: A date	Argument 1 = " γ " or "Y" Argument 2 = 2 Argument 3 = 2018-02-16 20:38:40 Returns 2020-02-16 20:38:40 Argument 1 = "m" or "M" Argument 2 = 2 Argument 3 = 2018-02-16 20:38:40 Returns 2018-04-16 20:38:40 Argument 1 = "d" or "D" Argument 2 = 10 Argument 3 = 2018-02-16 20:38:40 Returns 2018-02-26 20:38:40 Argument 1 = "h" or "H" Argument 2 = 2 Argument 3 = 2018-02-16 20:38:40 Returns 2018-02-16 22:38:40 Argument 1 = "n" or "N" Argument 2 = 2 Argument 3 = 2018-02-16 20:38:40 Returns 2018-02-16 22:38:40 Argument 1 = "s" or "S" Argument 1 = "s" or "S" Argument 2 = 2 Argument 3 = 2018-02-16 20:38:40 Returns 2018-02-16 22:40:40 Argument 1 = "s" or "S" Argument 2 = 2 Argument 3 = 2018-02-16 20:38:40 Returns 2018-02-16 20:38:40 Returns 2018-02-16 20:38:40
dateDiff ("string", date, date)	Returns the number of intervals between two dates or times Argument 1: The interval of time (where the type of interval to be calculated can be: Year / Month / Day / Hour / Minute / Second) Argument 2: The first date or time Argument 3: The second date or time Returns: A number	Argument 1 = "y" or "Y" Argument 2 = 2018-02-16 20:38:40 Argument 3 = 2016-02-16 20:30:20 Returns 2 Argument 1 = "m" or "M" Argument 2 = 2018-02-16 20:38:40 Argument 3 = 2018-05-16 20:38:40 Returns -3 Argument 1 = "d" or "D" Argument 2 = 2018-02-20 20:38:40 Argument 3 = 2018-02-16 20:38:40 Returns 4 Argument 1 = "h" or "H" Argument 2 = 2018-02-16 20:38:40 Returns 3 = 2018-02-16 20:38:40 Argument 3 = 2018-02-16 10:38:40 Returns 10

	Τ	T
		Argument 1 = "n" or "N"
		Argument 2 = 2018-02-16 20:38:40
		Argument 3 = 2018-02-16 10:18:40
		Returns 10
		Argument 1 = "s" or "S"
		Argument 2 = 2018-02-16 20:38:40
		Argument 3 = 2018-02-16 10:38:10
		Returns 30
datePart ("string",	Returns the specified part of a given	Argument 1 = "y" or "Y"
date)	date	Argument 2 = 2018-02-16 20:38:40
	Argument 1: The interval of time	Returns 2018
	(where the part of the date can be:	Argument 1 = "m" or "M"
	Year / Month / Day / Hour / Minute /	Argument 2 = 2018-02-16 20:38:40
		-
	Second)	Returns 2
	Argument 2: The date	Argument 1 = "d" or "D"
	Returns: A number	Argument 2 = 2018-02-16 20:38:40
		Returns 16
		Argument 1 = "h" or "H"
		Argument 2 = 2018-02-16 20:38:40
		Returns 20
		Argument 1 = "n" or "N"
		Argument 2 = 2018-02-16 20:38:40
		Returns 38
		Argument 1 = "s" or "S"
		Argument 2 = 2018-02-16 20:38:40
		Returns 40
dateTime("string")	Returns contents of a string as date-	Argument 1 = "2018-02-16
(0,	time	20:38:40"
	Argument 1: The string for which	Returns 2018-02-16 20:38:40
	date-time is to be returned	
	Returns: A date-time	
day(date)	Returns the day of a date	Argument 1 = 2018-02-16 20:38:40
	represented by a number (an integer	Returns 16
	between 1 and 31)	
	,	
	Argument 1: The date or timestamp	
	for which day part is to be returned	
	Returns: A number	
dayName (date)	Returns the name of the day of the	Argument 1 = 2018-02-16 20:38:40
	week	Returns Friday
	Argument 1: The date or timestamp	
	for which day of the week is to be	
	returned	
	Returns: A string	
dayofWeek(date)	Returns a number (between 1 and 7)	Argument 1 = 2018-02-16 20:38:40
	representing the day of the week	Returns 5
	Argument 1: The date or timestamp	
	for which day of the week is to be	
	, returned	

	Returns: A number	
daysAfter(date,	Returns the count of number of days	Argument 1 = 2018-02-16 20:38:40
date)	after a specified date	Argument 2 = 2018-02-10 20:38:40
	Argument 1: The start date	Returns 6
	Argument 2: The end date	
	Returns: A number	
formatDate (date,	Returns the date format for a given	Argument 1 = 2018-02-16
"string")	pattern	Argument 2 = "yy/mm/dd"
	Argument 1: The target date	Returns 18/02/16
	Argument 2: The string	Argument 1 = 2018-02-16 20:38:40
	(where the format can be user	Argument 2 = "mm/dd/yyyy"
	defined, such as "dd-mm-yy	Returns 02/16/2018
	hh:mm:ss")	
	Returns: A date	
hour(date)	Returns the hour of a time value (an	Argument 1 = 2018-02-16 20:38:40
	integer ranging from 0 [12:00 AM] to	Returns 20
	23 [11:00 PM])	
	Argument 1: The timestamp for	
	which hours are to be returned	
	Returns: A number	
minute(date)	Returns the minutes of a time value	Argument 1 = 2018-02-16 20:38:40
	(an integer ranging from 0 to 59)	Returns 38
	Argument 1: The timestamp for	
	which minutes are to be returned	
	Returns: A number	
month(date)	Returns the month (an integer	Argument 1 = 2018-02-16 20:38:40
	between 1 and 12)	Returns 2
	Argument 1: The date or timestamp	
	for which month is to be returned	
	Returns: A number	
monthName(i, [b],	Returns the month name for a given	Argument 1 = 1
[i])	month number	Argument 2 = True
	Argument 1: The number for month	Argument 3 = 1
	Argument 2: True if the month name	Returns Jan
	is abbreviated; otherwise, False	Argument 1 = 3
	(Optional to enter. Default is False)	Argument 2 = True
	Argument 3: The starting month of	Argument 3 = 4
	year in number (Optional to enter.	Returns Jun
	Default is 1 for January)	Argument 1 = 9
	Returns: A string	Argument 2 = False
		Argument 3 = 1
		Returns September
		Argument 1 = 2
		Argument 2 = False
		Argument 3 = 12
		Returns January

		Argument 1 - 2
		Argument 1 = 2
		Argument 2 = ""
		Argument 3 = ""
		Returns February
now()	Returns the current time	Returns 20:38:40
	Returns: A timestamp	
relativeDate	Returns the date that occurs n days	Argument 1 = 2018-02-16 20:38:40
	after a given date	Argument 2 = 5
(timestamp, i)	Argument 1: The date or timestamp	Returns 2018-02-21
	Argument 2: The number of days to	
	be added to the date-timestamp	
	Returns: A timestamp	
relativeTime	Returns the time that occurs n	Argument 1 = 20:38:40
	seconds after a given time	Argument 2 = 5
(timestamp, i)	Argument 1: The timestamp	Returns 20:38:45
	Argument 2: The number of seconds	
	to be added to the timestamp	
	Returns: A timestamp	
second(timestamp)	Returns the seconds of a time value	Argument 1 = 2018-02-16 20:38:40
	(an integer in the range 0 to 59)	Returns 40
	Argument 1: The timestamp for	
	which seconds are to be returned	
	Returns: A number	
time(timestamp)	Returns the time part from a given	Argument 1 = 2018-02-16 20:38:40
······································	timestamp as a string datatype	Returns "20:38:40"
	Argument 1: The timestamp for	
	which time part is to be returned	
	Returns: A string	
today()	Returns the current system date	Returns 2018-02-16
	Returns: A date	
weekdayName(i,	Returns the day name for a given day	Argument 1 = 1
[b], [i])	number of a week	Argument 2 = True
[0], [i])	Argument 1: The number for day of	Argument 3 = 1
	week	Returns Sun
	Argument 2: True if the day name is	Argument 1 = 1
	abbreviated; otherwise, False	Argument 2 = False
	(Optional to enter. Default is False)	Argument 3 = 1
	Argument 3: The first day of the	
	week in number (Optional to enter.	Returns Sunday
		Argument 1 = 5
	Default is 1 for Sunday)	Argument 2 = False
	Returns: A string	Argument 3 = 1
		Returns Thursday
		Argument 1 = 1
		Argument 2 = False
		Argument 3 = 3
		Returns Tuesday

		Argument 1 = 1
		Argument 2 = False
		Argument 3 = 5
		Returns Thursday
		Argument 1 = 4
		Argument 2 = ""
		Argument 3 = ""
		Returns Wednesday
year(date)	Returns the year corresponding to a	Argument 1 = 2018-02-16 20:38:40
	date (an integer between 1000 and	Returns 2018
	3000)	
	Argument 1: The date or timestamp	
	for which year part is to be returned	
	Returns: A number	

7.2.15 Splitting Data in a Dataset

You can split data in a column into multiple columns or rows.

Reference: Concept Manual > Shape Data > Split

Note:

You can split data for string, numeric, array, and struct data type only.

7.2.15.1 Splitting Data into Columns

About this task

Use this task to split data in a particular column within a dataset.

Procedure

- 1. Open the dataset from which you want to split data.
- 2. Right-click in the column from whose data you want to split.

The system displays the context menu.

E 11-	htD-t- 0040 0								
Filg	htData_2016_S	V				: 0 00 fi		\$ E E OI	(
							Last refres	shed on April 13, 2018 23:35	5::
Resu	t set 👻								
TER Q	O DEP_MONTH Q	DD	EP DAY OF MONTH	0	DEP_HOUR Q	O DEP_DATE Q	C ARR_YEAR Q	C ARR_QUARTER Q	
	1	19	Highlight >	18		January 19, 2016 12:30:00	2016	Q1	1
	1	18	Unique values	12		January 18, 2016 06:30:00		Q1	
	1	7	Find & replace	6		January 07, 2016 00:30:00	2016	Q1	
	1	10	· · · · · · · · · · · · · · · · · · ·	13		January 10, 2016 07:30:00	2016	Q1	
	1	19	Remove >	13		January 19, 2016 07:30:00	2016	Q1	
	1	3	Mark as >	10		January 03, 2016 04:30:00	2016	Q1	
	1	19	Copy >	6		January 19, 2016 00:30:00	2016	Q1	
	1	17	Sort >	9		January 17, 2016 03:30:00	2016	Q1	
	1	28		5		January 27, 2016 23:30:00	2016	Q1	
	1	3	Transform >	8		January 03, 2016 02:30:00	2016	Q1	
	1	14	Add column >	20		January 14, 2016 14:30:00	2016	Q1	
	1	18	Fill >	14		January 18, 2016 08:30:00	2016	Q1	
	1	3	Split >	7		January 03, 2016 01:30:00	2016	Q1	
	1	22	- Opin		NULL	January 21, 2016 18:30:00	2016	Q1	
	1	6	Merge columns	10		January 06, 2016 04:30:00	2016	Q1	
	1	20	Filter >	14		January 20, 2016 08:30:00	2016	Q1	
	1	29	Display Format	12		January 29, 2016 06:30:00	2016	Q1	
	1	10		7		January 10, 2016 01:30:00		Q1	
	1	13	Edit row	17		January 13, 2016 11:30:00		Q1	
	1	25	Statistics	5		January 24, 2016 23:30:00	2016	Q1	

SPLIT DATA—THE CONTEXT MENU

3. Click **Split** from the menu.

The system displays the options available to split data.

				🖹 🖷	💼 💿 💿 🚑 't _a	III 🕑 🏟	
						Last refreshed on A	pril 13, 2018 23:35:31
Re	esult set 👻 Flight	tDa	ta_Nov_Dec_2016	Dataset_Pred			
	O DEP_YEARQ	C	DEP_QUARTER Q	O DEP_MONTHQ	D DEP_DAY_OF_MONTH Q	O DEP_HOURQ	O DEP_DATE
	2016	Q2		6	9	19	June 09, 2016 19:00:00
	2016	Q2		6	18	11	June 18, 2016 11:00:00
	2016	03	Highlight >	8	14	9	August 14, 2016 09:00:
	2016	Q4	Unique values	11	12	16	November 12, 2016 16
	2016	Q	· · ·	8	19	16	August 19, 2016 16:00:
	2016	02	Cluster & edit	6	19	8	June 19, 2016 08:00:00
	2016	02	Find & replace	6	18	8	June 18, 2016 08:00:00
	2016	Q:	Remove >	9	26	16	September 26, 2016 16
	2016	03	Mark as >	7	19	9	July 19, 2016 09:00:00
	2016	Q1		1	3	5	January 03, 2016 05:00
	2016	Q1	Copy >	1	3	5	January 03, 2016 05:00
	2016	Q1	Sort >	3	26	11	March 26, 2016 11:00:0
	2016	Q	Transform >	12	5	5	December 05, 2016 05;
	2016	Q4		10	13	14	October 13, 2016 14:00
	2016	Q	Add column >	7	23	14	July 23, 2016 14:00:00
	2016	02	Fill >	6	9	16	June 09, 2016 16:00:00
	2016	Q	Split >	Split to column	19	10	September 19, 2016 10
	2016	Q3	Merge columns	Split to row	6	8	September 06, 2016 09
	2016	Q1			20	17	March 20, 2016 17:00:0
	2016	Q3	Filter >	7	17	20	July 17, 2016 20:00:00
	2016	Q	Edit row	8	20	15	August 20, 2016 15:00:
	2016	Q3		8	15	9	August 15, 2016 09:00:
	2016	Q3		8	18	NULL	August 18, 2016 00:00:
	2016	Q3		7	25	9	July 25, 2016 09:00:00
	2016	Q3		9	22	20	September 22, 2016 20

SPLIT DATA—OPTIONS AVAILABLE TO SPLIT DATA

4. You can click **Split to column** to split data of the selected columns into two columns. The system displays the **Split column** dialog box.

~_' F	Smarten Advanced Data Discover		SV
I		_	P
			Last refreshed on April 13, 2018 23:35:31
	esult set 👻 Fli		Split column -DEP_QUARTER
R	esuit set 👻 🖓	ght >>	
¥ ! !	© DEP_YEAR 2018 2018 2018 2018	Q2 Q2 Q3	Split by Match Regex Length Separator
	2016 2016	Q4 Q3	Value
	2016	Q2	Split from
	2016	Q2	Left Right
	2016	Q3	
	2016	Q3	New column name
0	2016	Q1	DEP_QUARTER_1
1	2016	Q1	
2	2016	Q1	DEP_QUARTER_2
3	2016	Q4	
1	2016	Q4	
5	2016	Q3	PREVIEW
8	2016	Q2	
	2016	Q3	
3	2016	Q3	
)	2016	Q1	
)	2016	Q3	
1	2016	Q3	
	2016	Q3	
}	2016	Q3	
1	2016	Q3	
5	2016	Q3	
1			
			APPLY CANCEL



5. Select an option for **Split by** to select an option based on which you want to split the data.

The following options are available:

- Match: Select this option to split the data based on a separator. For example, colon, semicolon, and comma.
- **Regex**: Select this option to split the data based on an expression.
- Length: Select this option to split the data based on the length specified.

plit by Match Regex Leng	yth		
eparator Value			
plit from Deft	O Right		
New column name			
DEP_QUARTER_1		Include separator	
DEP_QUARTER_2		Include separator	
		PR	evie

SPLIT DATA—THE SPLIT BY OPTIONS

- 6. Based on the option you have selected, specify a value for separator, expression, or length in the box.
- 7. Select an option to specify from where you want to split the data.

The following options are available:

- Left: Select this option to split the data from the left.
- **Right**: Select this option to split the data from the right.

Split column -DEP_QUARTER	×
Split by Match Regex Length Separator	
Value	
Split from Left	C Right
New column name	
DEP_QUARTER_1	Include separator
DEP_QUARTER_2	Include separator
	PREVIEW
APPLY CANCEL	

SPLIT DATA—THE SPLIT FROM OPTIONS

8. Specify the name of the new column names in the New column name boxes.

9. You can select the Include separator options to include the separator in the new columns.

10. Click APPLY.

7.2.15.2 Splitting Data into Rows

About this task

Use this task to split data in a particular column within a dataset.

Procedure

- 1. Open the dataset from which you want to split data.
- 2. Right-click in the column from whose data you want to split.

The system displays the context menu.

	arten vanced Data Discovery							A	-
Flig	htData_2016_S	V							
						. O 00 A	u	\$ E E T	Q
							Last refre	shed on April 13, 2018 23:35	5:3
Resul	t set 👻							• /	
ERQ	O DEP_MONTH Q	D	OFP DAY OF MONT		O DEP_HOUR Q	O DEP_DATE Q	C ARR_TEAR Q	O ARR_QUARTER Q	
	1	19	Highlight	>	18	January 19, 2016 12:30:00	2016	Q1	
	1	18	Unique values	- 1	12	January 18, 2016 06:30:00		Q1	
	1	7	Find & replace		6	January 07, 2016 00:30:00	2016	Q1	
	1	10	· · · · · · · · · · · · · · · · · · ·		13	January 10, 2016 07:30:00	2016	Q1	
	1	19	Remove	_	13	January 19, 2016 07:30:00	2016	Q1	
	1	3	Mark as	>	10	January 03, 2016 04:30:00	2016	Q1	
	1	19	Сору	>	6	January 19, 2016 00:30:00	2016	Q1	
	1	17	Sort	>	9	January 17, 2016 03:30:00	2016	Q1	
	1	28		-	5	January 27, 2016 23:30:00	2016	Q1	
	1	3	Transform	>	8	January 03, 2016 02:30:00	2016	Q1	
	1	14	Add column	>	20	January 14, 2016 14:30:00	2016	Q1	
	1	18	Fill	>	14	January 18, 2016 08:30:00	2016	Q1	
	1	3			7	January 03, 2016 01:30:00	2016	Q1	
	1	22	Split	2	NULL	January 21, 2016 18:30:00	2016	Q1	
	1	6	Merge columns		10	January 06, 2016 04:30:00	2016	Q1	
	1	20	Filter	>	14	January 20, 2016 08:30:00	2016	Q1	
	1	29	Display Format	-1	12	January 29, 2016 06:30:00	2016	Q1	
	1	10		_1	7	January 10, 2016 01:30:00	2016	Q1	
	1	13	Edit row		17	January 13, 2016 11:30:00	2016	Q1	
	1	25	Statistics		5	January 24, 2016 23:30:00	2016	Q1	
	1	22	L		8	January 22, 2016 02:30:00	2018	Q1	

SPLIT DATA—THE CONTEXT MENU

3. Click **Split** from the menu.

The system displays the options available to split data.

				🗎 🖷	📑 🛈 👓 🛱 'ta	🔛 😥 🏶	
						Last refreshed on A	pril 13, 2018 23:35:31
						Last remotined on 74	pin 10, 2010 20.00.01
Re	esult set 👻 Fligh	tDa	ata_Nov_Dec_2016	_Dataset_Pred			
	O DEP_YEARQ	C	DEP_QUARTER Q	O DEP_MONTH Q	D DEP_DAY_OF_MONTH Q	O DEP_HOUR Q	O DEP_DATE
	2016	Q2		6	9	19	June 09, 2016 19:00:00
	2016	02		8	18	11	June 18, 2016 11:00:00
	2016	Q :	Highlight >	8	14	9	August 14, 2016 09:00:
	2016	Q4	Unique values	11	12	16	November 12, 2016 16:
	2016	Q3		8	19	16	August 19, 2016 16:00:
	2016	02	Cluster & edit	6	19	8	June 19, 2016 08:00:00
	2016	02	Find & replace	6	18	8	June 18, 2016 08:00:00
	2016	Q	Remove >	9	26	16	September 26, 2016 16
	2016	03	Mark as >	7	19	9	July 19, 2016 09:00:00
	2016	Q1	Mark as 2	1	3	5	January 03, 2016 05:00
	2016	Q1	Copy >	1	3	5	January 03, 2016 05:00
	2016	Q1	Sort >	3	26	11	March 26, 2016 11:00:0
	2016	Q4	Transform >	12	5	5	December 05, 2016 05:
	2016	Q4		10	13	14	October 13, 2016 14:00
	2016	Q	Add column >	7	23	14	July 23, 2016 14:00:00
	2016	02	Fill >	6	9	16	June 09, 2016 16:00:00
	2016	Q	Split >	Split to column	19	10	September 19, 2016 10
	2016	Q3	Merge columns	Colitite row	6	9	September 06, 2016 09
	2016	Q1	-	Split to row	20	17	March 20, 2016 17:00:0
	2016	Q3	Filter >	7	17	20	July 17, 2016 20:00:00
	2016	Q	Edit row	8	20	15	August 20, 2016 15:00:0
	2016	Q3		8	15	9	August 15, 2016 09:00:
	2016	Q3		8	18	NULL	August 18, 2016 00:00:0
	2016	Q3		7	25	9	July 25, 2016 09:00:00
	2016	Q3		9	22	20	September 22, 2016 20

SPLIT DATA—OPTIONS AVAILABLE TO SPLIT DATA

4. You can click the **Split to row** to **s**plit the value of a column into one or more rows.

The system displays the **Split row** dialog box.

	Discovery a_2016_SV	Advanced Data Disc lightData	
🖹 📲 🛢 🛈 💀 🌲 🧤 🏭 🔛 🕸 🖽 🖽			
Last refreshed on April 13, 2018 23:35:31			
DEP_QUARTER	Flight >> Split	sult set 👻	Re
	Cone	O DEP_YE	
	Q2 Nor	2016	
	Q2	2016	
in name	Q3 New	2016	
	Q4	2016	
	Q3 Col	2016	
	Q2	2016	
	Q2	2016	
	Q3	2016	
	Q3	2016	
	Q1	2016	
	Q1	2016	
	Q1	2016	
	Q4	2016	
	Q4	2016	
	Q3	2016	
	Q2	2016	
	Q3	2016	
	Q3	2016	
	Q1	2016	
	Q3	2016	
	03	2018	
	Q3 Q3	2016 2016 2018	4

SPLIT DATA—THE SPLIT ROW DIALOG BOX

- 5. Specify the separator in the **Separator** box based on which you want to split the data.
- 6. Specify a name for the new column in the **New column name** box.
- 7. Click APPLY.

7.2.16 Merging Columns in a Dataset

You can merge data from multiple columns into a single column.

Reference: Concept Manual > Shape Data > Merge column

About this task

Use this task to merge data into a single column.

Procedure

- 1. Open the dataset in which you want to merge data.
- 2. Right-click in the column in which you want to merge data.

The system displays the context menu.

ر Advanced Data Discovery									Π	
FlightData_2016	_SV									
-				4		<u>}</u>		Ŀ	01	æ
					La	st refreshed on	April 13,	2018 :	23:35:3	1
Result set 🚽 Flight	Data Nov Dec 2016 Da	tase	t Pred							
			-						CTAT	с м
\top UNIQUE_CARRIER Q	T FLIGHT_NUMBER Q		ORIGIN_AIRPORT Q		GIN_CI	TY_NAMEQ	OF OF		_STAT	E_N
A	AA2008	мсо		Orlando, F			Florida			_
L	DL2025	BWI		Baltimore,			Maryland			_
A	UA195	IAH		Houston, T			Texas			
6	B6305	EWF	Highlight >	Newark, N			New Jers	sey		
A	AA2387	ORE	Unique values	Chicago, Il			Illinois			
X	VX776	LAS	Cluster & edit	Las Vegas	, NV		Nevada			
A	AA712	TPA	Find & replace	Tampa, FL			Florida			
A	AA2044	CLT	Fillu a leplace	Charlotte,			North Ca			
X	VX902	SFO	Remove >	San Franci			California	8		
6	B62204	RSV	Mark as >	Fort Myers			Florida			
6	B62204	RSV	Copy >	Fort Myers			Florida			
к	NK473	ATL		Atlanta, GA			Georgia			
/N	WN51	MDV	Sort >	Chicago, Il			Illinois			
6	B61272	FLL	Transform >	Fort Laude		-	Florida			
S	AS92	ANC	Add column >	Anchorage			Alaska			
0	OO3099	LAX	Fill >	Los Angele			California	8		
/N	WN1682	LAS	Fill >	Las Vegas			Nevada			
/N	WN528	MSY	Split >	New Orlea			Louisians	3		
V	EV4248	CWH	Merge columns	Columbus,			Ohio			
S	AS46	BET	Filter >	Bethel, AK			Alaska			
0	007361	RHI		Rhinelande	er, WI		Wisconsi	n		
1			Edit row							

www.smarten.com

Powered by ElegantJ BI Version 5.0.1.000

MERGE COLUMNS-THE CONTEXT MENU

3. Click **Merge columns** from the menu.

The system displays the Merge columns dialog box.

				• • • •	🕸 🗈 🖺 O1
				Last refresh	ed on April 13, 2018 23:35:3
esult set 👻	Flight ≫	Merge columns			
O DEP_	YEARQ 🕑	New column name			
2016	Q2	New column name			
2016	Q2	Available column(a)		Calestad calumna for	
2016	Q3	Available column(s)		Selected columns for mergin	9
2016	Q4		0		6
2016	Q3				
2016	Q2	DEP_YEAR	+ *	DEP_QUARTER	-
2016	Q2	DEP_MONTH	+		
2016	Q3	_			
2016	Q3 Q1	DEP_DAY_OF_MONTH	+		
2016	Q1	DEP_DATE	+		
2016	Q1	UNIQUE CARRIER	+		
2016	Q4	_			
2016	Q4	ORIGIN_AIRPORT	+		
2016	Q3	ORIGIN_CITY_NAME	+		
2016	Q2	ORIGIN_STATE_NM	+ -		
2016	Q3		+ •		
2016	Q3	Separator			
2016	Q1	-			
2016	Q3	None			
2016	Q3				
2016	Q3				PREVIEW
2016	Q3				
2016	Q3				
2018	03				

MERGE COLUMNS—THE MERGE COLUMNS DIALOG BOX

- 4. Specify a name for the new column in the **New column name** box.
- 5. Click the plus sign adjacent to a column from the **Available column(s)** section.

lew column name			
New column name			
vailable column(s)		Selected columns for merging	
	C		0
DEP_YEAR	+	* DEP_QUARTER	-
DEP_MONTH	+		
DEP_DAY_OF_MONTH	+		
DEP_DATE	+		
UNIQUE_CARRIER	+		
ORIGIN_AIRPORT	+		
ORIGIN_CITY_NAME	+		
ORIGIN_STATE_NM	+	-	
Separator			
None			
			PREVIEW

MERGE COLUMNS-THE LIST OF COLUMNS AVAILABLE FOR MERGING

- 6. The selected column is now available within the **Selected columns for merging** section.
- 7. Specify a separator that you want to be used in the merged data.

New column name		
New column name		
Available column(s)	Selected columns for merg	ing
	0	0
DEP_YEAR	+	-
DEP_MONTH	+	
DEP_DAY_OF_MONTH	+	
DEP_DATE	+	
UNIQUE_CARRIER	+	
ORIGIN_AIRPORT	+	
ORIGIN_CITY_NAME	+	
ORIGIN_STATE_NM	+ -	

MERGE COLUMNS—OPTION TO SPECIFY SEPARATOR

- 8. You can click **PREVIEW** to view a preview of the merged data.
- 9. Click **APPLY**.

7.2.17 Filtering Data in a Dataset

You can filter data for a particular column value, duplicate rows, or rows with all null and zero values.

Reference: Concept Manual > Explore Data > Filter

About this task

Use this task to filter data in a dataset.

Procedure

- 1. Open the dataset in which you want to filter data.
- 2. Right-click in the column for which you want to filter data.

The system displays the context menu.

	arten anced Data Discovery						Welcome Shyam Rar	mani
Flia	htData_2016_S	v						
					: O 00 🔒	*••••	\$ E D1	(Å
						Last refres	shed on April 13, 2018 23:35	5:31
Resul	t set 👻							
RTERQ	O DEP_MONTH Q	D	DEP DAY OF MONTHO	O DEP_HOUR Q	🕑 DEP_DATE 🔍	C ARR_YEAR Q	C ARR_QUARTER Q	C
	1	19	Highlight >	18	January 19, 2016 12:30:00	2016	Q1	1 🔺
	1	18	Unique values	12	January 18, 2016 06:30:00		Q1	1
	1	7		6	January 07, 2016 00:30:00		Q1	1
	1	10	Find & replace	13	January 10, 2016 07:30:00	2016	Q1	1
	1	19	Remove >	13	January 19, 2016 07:30:00	2016	Q1	1
	1	3	Mark as >	10	January 03, 2016 04:30:00	2016	Q1	1
	1	19	Copy >	6	January 19, 2016 00:30:00	2016	Q1	1
	1	17		9	January 17, 2016 03:30:00	2016	Q1	1
	1	28	Sort >	5	January 27, 2016 23:30:00	2016	Q1	1
	1	3	Transform >	8	January 03, 2016 02:30:00	2016	Q1	1
	1	14	Add column >	20	January 14, 2016 14:30:00	2016	Q1	1
	1	18	Fill >	14	January 18, 2016 08:30:00	2016	Q1	1
	1	3		7	January 03, 2016 01:30:00	2016	Q1	1
	1	22	Split >	NULL	January 21, 2016 18:30:00	2016	Q1	1
	1	6	Merge columns	10	January 06, 2016 04:30:00	2016	Q1	1
	1	20	Filter >	14	January 20, 2016 08:30:00	2016	Q1	1
	1	29	Display Format	12	January 29, 2016 06:30:00	2016	Q1	1
	1	10		7	January 10, 2016 01:30:00	2016	Q1	1
	1	13	Edit row	17	January 13, 2016 11:30:00	2016	Q1	1
	1	25	Statistics	5	January 24, 2016 23:30:00	2016	Q1	1
		22		8		2016	Q1	

FILTER DATA—THE CONTEXT MENU

3. Click **Filter** from the menu.

The system displays the options available to filter data from the dataset.

FlightData_2	016	SV							
FlightData_2		_3v							
							·	🎄 🗵 🖺 OI	
							Last refres	hed on April 13, 2018 23:35	5:31
Decult eet El	iabt⊑	ata Nev Dea	2010	Det	taget Bred				
Result set 👻 FI	IgniL)ata_Nov_Dec_	2016	s_Dai	lasel_Pred				
🕒 DEP_MONTH 🔍	D	DEP_DAY_OF_M	IONT	нQ	O DEP_HOUR Q	O DEP_DATE Q	O ARR_YEAR		R Q,
	5				17	September 05, 2016 17:00:00	2016	Q3	
	14				9	August 14, 2016 09:00:00	2016	Q3	
	19	Highlight	>		16	August 19, 2016 16:00:00	2016	Q3	
	26	Unique values			16	September 26, 2016 16:00:00	2016	Q3	
	10	Find & replace			6	August 10, 2016 06:00:00	2016	Q3	
	19	<u> </u>			10	September 19, 2016 10:00:00	2016	Q3	
	17	Remove	>		20	July 17, 2016 20:00:00	2016	Q3	
	15	Mark as	>		9	August 15, 2016 09:00:00	2016	Q3	
	20	Сору	>		5	September 20, 2016 05:00:00	2016	Q3	
	22	Sort	>		20	September 22, 2016 20:00:00	2016	Q3	
	12				19	August 12, 2016 19:00:00	2016	Q3	
	25	Transform	>		6	August 25, 2016 06:00:00	2016	Q3	
	11	Add column	>		13	September 11, 2016 13:00:00	2016	Q3	
	16	Fill	>		13	September 16, 2016 13:00:00	2016	Q3	
	10	0.11	>		14	August 10, 2016 14:00:00	2016	Q3	
	25	Split			7	August 25, 2016 07:00:00	2016	Q3	
	28	Merge columns			17	September 26, 2016 17:00:00	2016	Q3	
	7	Filter	>	Rows	with this column value	eptember 07, 2016 22:00:00	2016	Q3	
	27	Display Format		Dupli	cate rows with this row	uly 27, 2016 06:00:00	2016	Q3	
	26		_			ugust 26, 2016 20:00:00	2016	Q3	
	23	Edit row	_	All du	plicate rows	eptember 23, 2016 18:00:00	2016	Q3	
	1	Statistics		Rows	with all null	eptember 01, 2016 13:00:00	2016	Q3	
	27			Rows	with all zeros	uly 27, 2016 19:00:00	2016	Q3	
	28					September 26, 2016 15:00:00	2016	Q3	

FILTER DATA—OPTIONS AVAILABLE FOR FILTERING DATA

4. Click any of the options in the following table to apply that operation.

Option	Description
Rows with this column value	Use this option to find and display the rows that contain the value available in the selected cell.
Duplicate rows with this row	Use this option to find and display the rows that contain exactly the same data as the selected row.
All duplicate rows	Use this option to find and display all duplicate rows. The duplicate rows are the set of rows that contain exactly the same data.
Rows with all null	Use this option to find and display all rows that have a null value in all columns.
Rows with all zeros	Use this option to find and display all rows that have zeros in all numeric columns.
Custom	Use this option to filter data based on an expression that is created using more than one column.

5. You can click **Custom** to filter data based on an expression.

The system displays the Add Filter dialog box. By default, the Filter option is selected.

Advanced Data D	liscovery		Welcome Shyam Ram
FlightData		SV	
			🗎 🔳 🛢 💿 ∞ 🌲 🍾 🏭 🔛 🕸 🖽 🖽 🕼
			Last refreshed on April 13, 2018 23:35:31
Result set 👻	$Flight \gg$	Add Filter	
		Additite	
# 🕑 DEP_Y	EARQ 🕐		
1 2016	Q2	Filter	Advanced Filter
2 2016	Q2	Column name	
3 2016	Q3		
4 2016	Q.4	DEP_QUARTER	•
5 2016	Q3		
6 2016	Q2	=	v
7 2016	Q2		
8 2016	Q3		
9 2016	Q3		
10 2016	Q1	ADD	
11 2016	Q1	Column	Operator Value
12 2016	Q1	Column	Operator Value
13 2016	Q4	Expression	
14 2016	Q4	Expression	
15 2016	Q3		
16 2016	Q2		
17 2016	Q3		
18 2016	Q3		
19 2016 20 2016	Q1		
20 2016 21 2016	Q3 Q3		
21 2016 22 2016	03		
4	143.5		
		APPLY CANC	XEL .
www.smarten.co	m		

FILTER DATA—THE ADD FILTER DIALOG BOX

- 6. Select a column that you want to use to build an expression from the **Column name** list.
- 7. Select an operator from the list.

Note:

The operations available in the list depend on the data type of the column you have selected in the above step.

Add Filter	×
Filter O Advanced Filter Column name	
DEP_QUARTER T	
=	1
= All I= Null Not Null	
Starts with Ends with Contains Does not start with	
Does not start with Does not end with Does not contain	
APPLY CANCEL	

FILTER DATA-BUILDING AN EXPRESSION

8. Select a value from the list.

The list provides values that are available for the column you have selected from the **Column name** list. You can select multiple values for this field.

9. Click ADD.

The system adds the filter based on the options you have selected.

- 10. You can perform the above steps to add more than one filter.
- 11. You can combine more than one filter in a group:
 - a) Select the check box adjacent to the filters you want to group.
 - b) The system displays the option to group and ungroup.

Add Filter				×
Filter Advanced Fi	Iter			
Column name				
DISTANCE				•
=				•
Column	Operator	Value		
DEP_QUARTER	=	Q1	AND 🔻 💼	
DEP_DAY_OF_MONTH	=	4	OR 🔻 💼	
DISTANCE	=	25.0	OR 🔻 🗰	
Expression (DEP_QUARTER = Q1 AND DEP_DAY	_OF_MONTH	= 4 OR DISTANCE = 25.0)		1
APPLY CANCEL				

FILTER DATA—OPTION TO GROUP FILTERS

- c) Similarly, you can select a group of filters and click ungroup to ungroup those filters.
- 12. You can select an option from the list adjacent to a filter to apply **AND** or **OR** operator. The operation is applied between the current filter and the next filter.
- 13. You can click the Delete icon adjacent to a filter to delete that filter.

Filter Advance	d Filter		
Column name			
DISTANCE			•
=			,
ADD O ₊ O_			
Column	Operator	Value	
DEP_QUARTER	=	Q1	AND 🔻 💼
DEP_DAY_OF_MONTH	=	4	OR 🔻 💼
DISTANCE	=	25.0	OR 🔻 🛍
Expression			
DEP_QUARTER = Q1 AND DEP_	DAY_OF_MONTH	= 4 OR DISTANCE = 25.0)	
APPLY CANCEL			

FILTER DATA—DELETING A FILTER

14. The resultant expression is displayed within the **Expression** section.

Add Filter					×
Filter Advance	d Filter				
Column name					
DISTANCE				,	·
=				,	·
ADD O_					
Column	Operator	Value			
DEP_QUARTER	=	Q1	AND	•	
DEP_DAY_OF_MONTH	=	4	OR	• 💼	
DISTANCE	=	25.0	OR	•	
Expression (DEP_QUARTER = Q1 AND DEP_	DAY_OF_MONTH	= 4 OR DISTANCE = 25.0)			
APPLY CANCEL					

FILTER DATA—THE RESULTANT EXPRESSION TO FILTER DATA

15. Click APPLY.

7.2.17.1 Filtering Data in a Dataset Using the Advanced Option

You can use advanced options to filter data in a dataset.

Reference: Concept Manual > Explore Data > Filter

About this task

Use this task to filter data in a dataset using advanced options.

Procedure

- 1. Open the dataset in which you want to filter data.
- 2. Right-click in the column for which you want to filter data.

The system displays the context menu.

	arten anced Data Discovery							Welcome Shyam Ra	-
Fligh	ntData_2016_S	V							
				1		: O 00 🖡	` t∎	\$ I II II	(
							Last refre	shed on April 13, 2018 23:3	35:3
Result	set 👻								
rer Q	O DEP_MONTH Q	DC	PEP DAY OF MONTH	0	DEP_HOUR Q	O DEP_DATE Q	O ARR_YEAR Q	C ARR_QUARTER O	۹.
	1	19	Highlight >	18		January 19, 2016 12:30:00	2016	Q1	
	1	18	Unique values	12		January 18, 2016 06:30:00	2016	Q1	
	1	7	Find & replace	6		January 07, 2016 00:30:00	2016	Q1	
	1	10	· · · · · · · · · · · · · · · · · · ·	13		January 10, 2016 07:30:00	2016	Q1	
	1	19	Remove >	13		January 19, 2016 07:30:00	2016	Q1	
	1	3	Mark as >	10		January 03, 2016 04:30:00	2016	Q1	
	1	19	Copy >	6		January 19, 2016 00:30:00	2016	Q1	
	1	17	Sort >	9		January 17, 2016 03:30:00	2016	Q1	
	1	28		5		January 27, 2016 23:30:00	2016	Q1	
	1	3	Transform >	8		January 03, 2016 02:30:00		Q1	
	1	14	Add column >	20		January 14, 2016 14:30:00		Q1	
	1	18	Fill >	14		January 18, 2016 08:30:00		Q1	
	1	3	Split >	7		January 03, 2016 01:30:00		Q1	
	1	22			NULL	January 21, 2016 18:30:00		Q1	
	1	6	Merge columns	10		January 06, 2016 04:30:00		Q1	
	1	20	Filter >	14		January 20, 2016 08:30:00		Q1	
	1	29	Display Format	12		January 29, 2016 06:30:00		Q1	
	1	10	Edit row	7		January 10, 2016 01:30:00		Q1	
	1	13		17		January 13, 2016 11:30:00		Q1	
	1	25	Statistics	5		January 24, 2016 23:30:00		Q1	
	1	22		8		January 22, 2016 02:30:00	2016	Q1	

FILTER DATA—THE CONTEXT MENU

3. Click **Filter** from the menu.

The system displays the options available to filter data from the dataset.

	016	_SV									
<u> </u>		_0*					í.	•			
								Last	refreshed	on April 13	, 2018 23:35:31
Result set 👻 FI	ightD	ata_Nov_Dec_	2016	6_Da	taset_Pred						
DEP_MONTHQ	D	DEP_DAY_OF_N	IONT	нQ	O DEP_HOUR Q	O DEP_DATE	Q	O ARR	YEAR Q	O ARR	QUARTER Q
	5				17	September 05, 2016	17:00:00	2016		Q3	
	14				9	August 14, 2016 09:0		2016		Q3	
	19	Highlight	>		16	August 19, 2016 16:0		2016		Q3	
	26	Unique values			16	September 26, 2016		2016		Q3	
	10	Find & replace			6	August 10, 2016 06:0	0:00	2016		Q3	
	19				10	September 19, 2016	10:00:00	2016		Q3	
	17	Remove	>		20	July 17, 2016 20:00:0	0	2016		Q3	
	15	Mark as	>		9	August 15, 2016 09:0	0:00	2016		Q3	
	20	Сору	>		5	September 20, 2016 (05:00:00	2016		Q3	
	22	Sort	>		20	September 22, 2016	20:00:00	2016		Q3	
	12				19	August 12, 2016 19:0	0:00	2016		Q3	
	25	Transform	>		6	August 25, 2016 06:0	0:00	2016		Q3	
	11	Add column	>		13	September 11, 2016 1	3:00:00	2016		Q3	
	16	Fill	>		13	September 16, 2016	13:00:00	2016		Q3	
	10		>		14	August 10, 2016 14:0	0:00	2016		Q3	
	25	Split			7	August 25, 2016 07:0	0:00	2016		Q3	
	26	Merge columns			17	September 26, 2016	17:00:00	2016		Q3	
	7	Filter	>	Row	s with this column value	September 07, 2016	22:00:00	2016		Q3	
	27	Display Format			cate rows with this row	uly 27, 2016 06:00:0		2016		Q3	
	26		_			ugust 26, 2016 20:0	0:00	2016		Q3	
	23	Edit row		All di	uplicate rows	September 23, 2016	18:00:00	2016		Q3	
	1	Statistics		Row	s with all null	September 01, 2016	13:00:00	2016		Q3	
	27			Row	s with all zeros	uly 27, 2016 19:00:0	0	2016		Q3	
	26					eptember 26, 2016 *	15:00:00	2016		Q3	

FILTER DATA—OPTIONS AVAILABLE FOR FILTERING DATA

4. Click Custom.

The system displays the Add Filter dialog box. By default, the Filter option is selected.

2	Smarten Advanced Data D	liscovery		Welcome Shyam Raman
F	lightData	2016_5	SV	
	-			P 🗐 🛢: 💿 ∞ 🌲 🐂 🔡 🏶 🗷 🖺 🖽 🗭
				Last refreshed on April 13, 2018 23:35:31
D	esult set 👻	Flight \gg	Add Filter	
- N			Add Filler	
#	O DEP_Y		Filter	Advanced Filter
1	2016	Q2	C	
2	2016 2016	Q2 Q3	Column name	
3 4	2016	Q4	DEP_QUARTER	T
4 5	2010	Q3		
6	2010	Q2	=	T
7	2016	02		
8	2016	Q3		
9	2016	Q3		
10	2016	Q1	ADD	
11	2016	Q1		
12	2016	Q1	Column	Operator Value
13	2016	Q4		
14	2016	Q4	Expression	
15	2016	Q3		
16	2016	Q2		
17	2016	Q3		
18	2016	Q3		
19	2016	Q1		
20	2016	Q3		
21	2016	Q3		
22	2016	03		
14/14	/w.smarten.co	m	APPLY CANC	EL



5. Select the Advanced Filter option.

Dimension values	Functions	Operators
DEP_YEAR DEP_QUARTER DEP_MONTH DEP_DAY_OF_MONTH DEP_DATE UNIQUE_CARRIER ORIGIN_AIRPORT ORIGIN_CITY_NAME ORIGIN_STATE_NM DEST_AIRPORT	Arithmetic abs ceil exp fact floor log logTen	▼ + ▲ - + ↓ - ↓ + ↓ + ↓ + ↓ + ↓ + ↓ + ↓ + ↓ + ↓



- 6. Double-click the name of the column you want to use in the expression from the **Columns** section.
- 7. Select an option from the Functions list.

The following options are available:

- Arithmetic
- Date
- Miscellaneous
- String
- 8. Select an operation.
 - The operations available are based on the option you have selected in the above step.
- 9. Select an operator you want to use from the **Operators** section.
- 10. Click APPLY.

You can refer to the tables below for more information about the operations available for arithmetic, string, date, and miscellaneous functions.

Arithmetic functions:

Function	Description	Example
abs(number)	Return absolute value of a number, a number without	Argument 1 = 32
	its sign	Returns 32
	Argument 1: The number for which absolute value is	Argument 1 = 67.98
	required	Returns 67.98
	Returns: A number	Argument 1 = -23
		Returns 23
ceil(d)	Returns the smallest whole number that is greater	Argument 1 = 26
	than or equal to a specified number	Returns 26
	Argument 1: The number that has to be rounded up	Argument 1 = 26.7
	Returns: A number	Returns 27
		Argument 1 = -26.7
		Returns -26
exp(d)	Returns the exponential value of a number	Argument 1 = 1145
	Argument 1: The exponent applied to base e	Returns "Infinity"
	Returns: A number	Argument 1 = 12
		Returns 162754.79
		Argument 1 = -25
		Returns 0.00
fact(i)	Returns the factorial of a number	Argument 1 = 7
	Argument 1: The number for which factorial is to be	Returns 5040
	calculated	Argument 1 = -5
	Returns: A number	Returns NULL
floor(d)	Returns the largest whole number that is smaller than	Argument 1 = 26
	or equal to a specified number	Returns 26
	Argument 1: The number to be rounded down	Argument 1 = 26.7
	Returns: A number	Returns 26
		Argument 1 = -26.7
		Returns -27

log(d)	Returns natural logarithm (base e) of a number	Argument 1 = 551
	Argument 1: A value greater than 0 for which	Returns 6.31
	logarithm is to be calculated	Argument 1 = -551
	Returns: A number	Returns NULL
		Argument 1 = 551.45
		Returns 6.31
logTen(d)	Returns decimal logarithm (base 10) of a number	Argument 1 = 551
0 ()	Argument 1: The value greater than 0 for which	Returns 2.74
	logarithm is to be calculated	Argument 1 = -551
	Returns: A number	Returns NULL
		Argument 1 = 551.45
		Returns 2.74
max(number,	Returns larger of two numbers	Argument 1 = 198
number)	Argument 1: First number to find out if it is larger than	Argument 2 = 1660
	the second number	Returns 1660.00
	Argument 2: Second number to find out if it is larger	Argument 1 = 198
	than the first number	Argument 2 = -1660
	Returns: A number	Returns 198.00
min(number,	Returns smaller of two numbers	Argument 1 = 198
number)	Argument 1: First number to find out if it is smaller	Argument 2 = 1660
	than the second number	Returns 198.00
	Argument 2: Second number to find out if it is smaller	Argument 1 = 198
	than the first number	Argument 2 = -1660
	Returns: A number	Returns -1660.00
mod(number,	Returns modulus of two numbers	Argument 1 = 460
number)	Argument 1: Dividend: The number to be divided	Argument $2 = 72$
	Argument 2: Divisor: The number by which the	Returns 28.00
	dividend has to be divided	Argument 1 = -460
	Returns: A number	Argument 2 = 72
		Returns 44.00
		Argument 1 = 460
		Argument $2 = -72$
		Returns 28.00
		Argument 1 = -460
		Argument $2 = -72$
		Returns -28.00
pi(d)	Returns pi times a number	Argument 1 = 641
1 (~)	Argument 1: The number	Returns 2013.76
	Returns: A number	Argument 1 = -3
		Returns -9.42
random(number,	Returns a random number between two specified	Argument $1 = 54$
number)	numbers	Argument $1 = 54$ Argument $2 = 55$
numberj	Argument 1: The smallest integer value	Returns 54.45/54.51
	Argument 2: The largest integer value	/54.95
	איקאוויכוור ב. דויכ ומוקבטר ווונכקבו עמועכ	/ J¬.JJ

		······
	Returns: A number	Argument 1 = 72
		Argument 2 = 80
		Returns 72.89/
		73.94/75.20/76.47
		Argument 1 = 20
		Argument 2 = -10
		Returns -7.68/-9.75/-
		2.65/5.97
round(d, i)	Returns a number rounded to a specified number of	Argument 1 = 12.356
	decimal places	Argument 2 = 1
	Argument 1: The number to be rounded	Returns 12.40
	Argument 2: The number of places to which the	Argument 1 = -12.356
	number is to be rounded	Argument 2 = 1
	Returns: A number	Returns -12.40
		Argument 1 = 12.356
		Argument 2 = 2
		Returns 12.36
		Argument 1 = 12.356
		Argument 2 = 3
		Returns 12.35
sign(d)	Returns a number (-1, 0, or 1) indicating the sign of a	Argument 1 = -5
	number	Returns -1
	Argument 1: The number for which the algebraic sign	Argument 1 = 0
	is to be determined	Returns 0
	Returns: A number	Argument 1 = 29
		Returns 1
sqrt(d)	Returns the square root of a number	Argument 1 = 100
	Argument 1: A positive value for which the square root	Returns 10.00
	is to be calculated	Argument 1 = 588
	Returns: A number	Returns 24.24
		Argument 1 = -588
		Returns NaN (Not a
		number)
truncate(d, i)	Returns a number truncated to a specified number of	Argument 1 = 10.54
	decimal places	Argument 2 = 1
	Argument 1: The number to be truncated	Returns 10.50
	Argument 2: The scale of the truncation	Argument 1 = 10.54
	Returns: A number	Argument 2 = 2
		Returns 10.54
		Argument 1 = 10.54
		Argument 2 = 0
		Returns 11.00
		Argument 1 = 10.25
		Argument $2 = 0$
		Returns 10.00

Argument 1 = -10.54
Argument 2 = 1
Returns -10.50

String functions:

Function	Description	Examples
asc(c)	Returns ASCII value of a character	Argument 1 = A
	Argument 1: The character for which the ASCII	Returns 65
	value is to be returned	Argument 1 = a
	Returns: A number	Returns 97
		Argument 1 = "1"
		Returns 49
booleanValue	Returns the content of a string as a boolean	Argument 1 = "True"
	Argument 1: The string from which boolean is	Returns true
("string")	to be returned	Argument 1 = "TRUE"
	Returns: A boolean	Returns true
		Argument 1 = "abc"
		Returns false
		Argument 1 = "748"
		Returns false
byteValue(object)	Returns the content of a string as a byte	Argument 1 = "N787AA"
	Argument 1: The object from which byte is to	Returns 0
	be returned	Argument 1 = "-128"
	Returns: A byte	Returns -128
		Argument 1 = "-129"
		Returns 0
		Argument 1 = "127"
		Returns 127
		Argument 1 = "128"
		Returns 0
		Argument 1 = "120.54"
		Returns 120
charValue(i)	Returns the content of an integer as a	Argument 1 = 65
	character	Returns "A"
	Argument 1: The number from which	Argument 1 = 97
	character is to be returned	Returns "a"
	Returns: A character	Argument 1 = 49
		Returns "1"
doubleValue(object)	Returns the content of a string as double	Argument 1 = "748"
	Argument 1: The object from which double is	Returns 748.00
	to be returned	Argument 1 = "748.52"
	Returns: A double	Returns 748.52
		Argument 1 = "-748.52"
		Returns -748.52

1		
		Argument 1 = "abc"
		Returns 0.00
		Argument 1 = "ABC"
		Returns 0.00
fill("string", i)	Returns a string of specified length filled with	Argument 1 = "N787AA"
	occurrences of a specified string	Argument 2 = 2
	Argument 1: The string that has to be filled	Returns "N7"
	Argument 2: The length of the filled string	Argument 1 = "N787AA"
	Returns: A string	Argument 2 = 6
		Returns "N787AA"
		Argument 1 = "N787AA"
		Argument 2 = 9
		Returns "N787AAN78"
floatValue(object)	Returns the content of a string as a float	Argument 1 = "748"
	Argument 1: The object from which float is to	Returns 748.00
	be returned	Argument 1 = "-748.52"
	Returns: A float	Returns -748.52
		Argument 1 = "abc"
		Returns 0.00
		Argument 1 = "ABC"
		Returns 0.00
indexOfChar("string",	Returns the starting position of a character	Argument 1 = "N787AA"
		Argument $2 = '7'$
c, i)	within a specified string Argument 1: The string from which the index is	Argument 3 = 1
	to be returned	Returns 1
	Argument 2: The character to find the index	Argument 1 = "N787AA"
	Argument 3: The starting position of the string	Argument $2 = '7'$
	in number	Argument 3 = 3
	Returns: A number	Returns 3
		Argument 1 = "N787AA"
		Argument 2 = 'A'
		Argument 3 = 3
		Returns 4
		Returns 4 Argument 1 = "N787AA"
		Returns 4
		Returns 4 Argument 1 = "N787AA"
		Returns 4 Argument 1 = "N787AA" Argument 2 = 'A'
		Returns 4 Argument 1 = "N787AA" Argument 2 = 'A' Argument 3 = 6
		Returns 4 Argument 1 = "N787AA" Argument 2 = 'A' Argument 3 = 6 Returns 5
		Returns 4 Argument 1 = "N787AA" Argument 2 = 'A' Argument 3 = 6 Returns 5 Argument 1 = "N787AA"
		Returns 4 Argument 1 = "N787AA" Argument 2 = 'A' Argument 3 = 6 Returns 5 Argument 1 = "N787AA" Argument 2 = 'Y'
indexOfString("string	Returns the starting position of a string within	Returns 4 Argument 1 = "N787AA" Argument 2 = 'A' Argument 3 = 6 Returns 5 Argument 1 = "N787AA" Argument 2 = 'Y' Argument 3 = 1
indexOfString("string ", "string", i)	Returns the starting position of a string within a specified string	Returns 4 Argument 1 = "N787AA" Argument 2 = 'A' Argument 3 = 6 Returns 5 Argument 1 = "N787AA" Argument 2 = 'Y' Argument 3 = 1 Returns -1
		Returns 4 Argument 1 = "N787AA" Argument 2 = 'A' Argument 3 = 6 Returns 5 Argument 1 = "N787AA" Argument 2 = 'Y' Argument 3 = 1 Returns -1 Argument 1 = "N208WN"

		A
	Argument 2: The string to find index	Argument 1 = "N208WN"
	Argument 3: The starting position of the string	Argument 2 = '208'
	in number	Argument 3 = 4
	Returns: A number	Returns -1
		Argument 1 = "N208WN"
		Argument 2 = 'WN'
		Argument 3 = 4
		Returns 4
intValue(object)	Returns the contents of a string as an integer	Argument 1 = "N787AA"
	Argument 1: The object from which integer is	Returns 0
	to be returned	Argument 1 = "748"
	Returns: An integer	Returns 748
		Argument 1 = "748.52"
		Returns 748
		Argument 1 = "-748"
		Returns -748
isDate("string")	Determine if the specified string contains a	Argument 1 = "2015-01-
	valid date	09″
	Argument 1: The string that is to be checked	Returns "true"
	Returns: A boolean	Argument 1 = "N787AA"
		Returns "false"
isNull(object)	Determines if the argument is NULL	Argument 1 = "N787AA"
	Argument 1: The object that is to be checked	Returns "false"
	Returns: A boolean	Argument 1 = NULL
		Returns "true"
isNumber("string")	Determines if the specified string contains a	Argument 1 = "N787AA"
	number	Returns "false"
	Argument 1: The string that is to be checked	Argument 1 = "787"
	Returns: A boolean	Returns "true"
isTime("string")	Determines if the specified string contains a	Argument 1 = "15:30:00"
	valid time	Returns "true"
	Argument 1: The string that is to be checked	Argument 1 = "N787AA"
	Returns: A boolean	Returns "false"
left("string", i)	Returns a specified number of characters from	Argument 1 = "N787AA"
	a string starting with the first character	Argument 2 = 2
	Argument 1: The text from which the partial	Returns "N7"
	words are to be returned	Argument 1 = "N787AA"
	Argument 2: The number of characters to be	Argument 2 = 8
	extracted from the beginning of the text	Returns "N787AA"
	Returns: A string	
leftTrim("string")	Returns a copy of a specified string with	Argument 1 = "87AA"
	leading blanks removed	Returns "87AA"
	Argument 1: The text for which blank spaces	Argument 1 = "87AA"
	are to be removed from left	Returns "87AA"

	Returns: A string	Argument 1 = "87AA"
		Returns "87AA"
length("string")	Returns the length of a string	Argument 1 = "N787AA"
	Argument 1: The string for which length is to	Returns 6
	be checked	Argument 1 = "748"
	Returns: A number	Returns 3
		Argument 1 = "748.52"
		Returns 6
		Argument 1 = "-748.52"
		Returns 7
longValue(object)	Returns the content of a string as long	Argument 1 = "N787AA"
	Argument 1: The object from which long is to	Returns 0
	be returned	Argument 1 = "748"
	Returns: A long	Returns 748
		Argument 1 = "748.52"
		Returns 748
		Argument 1 = "-748.52"
		Returns -748
match("string",	Returns a determination whether or not a	Argument 1 = "AA"
"string")	string contains a particular pattern of	Argument 2 = "N787AA"
	characters	Returns 1
	Argument 1: The text that has to be searched	Argument 1 = "aa"
	in argument 2	Argument 2 = "N787AA"
	Argument 2: The text in which the argument 1	Returns 0
	has to be searched	Argument 1 = "AB"
	Returns: A number	Argument 2 = "N787AA"
		Returns 0
replace("string", i, i,	Returns a copy of a specified string in which a	Argument 1 = "N208WN"
"string")	specified number of characters starting with a	Argument 2 = 1
0,	specified character have been replaced with	Argument 3 = 2
	characters from another specified string	Argument 4 = "3"
	Argument 1: The string to be processed	Returns "N308WN"
	Argument 2: Start index	Argument 1 = "N208WN"
	Argument 3: End index	Argument 2 = 4
	Argument 4: The string to be replaced	Argument 3 = 6
	Returns: A string	Argument 4 = "ML"
		Returns "N208ML"
		Argument 1 = "N208WN"
		Argument 2 = 0
		Argument 3 = 1
		Argument 4 = "M"
		Returns "M208WN"
	Reverses the order or characters in a string	Argument 1 = "N208WN"
reverse("string")		
reverse("string")	_	Returns "NW802N"
reverse("string")	Argument 1: The text that needs to be reversed	-

right("string", i)	Returns the specified number of characters	Argument 1 = "N208WN"
ngin (string, i)	from the end of a specified string	Argument $2 = 3$
	Argument 1: The text from which the specified	Returns "8WN"
	number of characters should be returned from	Argument 1 = "N208WN"
	the end	-
		Argument 2 = 8 Returns "N208WN"
	Argument 2: The number of characters to be returned from the string	Returns NZUSVVN
	Returns: A string	
rightTrim("ctring")		Argument 1 - "N209"
rightTrim("string")	Returns a copy of a specified string with	Argument 1 = "N208" Returns "N208"
	trailing blanks removed	
	Argument 1: The text from which extra spaces	Argument 1 = "08WN" Returns "08WN"
	have to be removed from the right	
	Returns: A string	Argument 1 = "208W"
		Returns "208W"
shortValue(object)	Returns contents of a string as short	Argument 1 = "N787AA"
	Argument 1: The object from which short to	Returns 0
	be returned	Argument 1 = "748"
	Returns: A long	Returns 748
		Argument 1 = "748.52"
		Returns 748
		Argument 1 = "-748.52"
		Returns -748
space(i)	Returns the string of a specified length filled	Argument 1 = 5
	with a specified number of spaces	Returns " "
	Argument 1: Number of space	
	Returns: A string	
substring("string", i,	Returns a string containing a character copied	Argument 1 = "N208WN"
i)	(starting at a specified position and ending at a	Argument 2 = 2
	specified position) from a specified string	Argument 3 = 4
	Argument 1: The text from which the	Returns "08"
	characters have to be copied	Argument 1 = "N208WN"
	Argument 2: Starting position from which the	Argument 2 = 2
	characters have to be copied	Argument 3 = 6
	Argument 3: Ending position up to which the	Returns "08WN"
	characters in the text are to be copied	
Tal.a	Returns: A string	
ToLowerCase("string	Returns a copy of a specified string with all	Argument 1 = "N208WN"
")	uppercase letters converted to lowercase	Returns "n208wn"
	Argument 1: The text for which the uppercase	Argument 1 = "N208wN"
	letters are to be converted to lowercase	Returns "n208wn"
	Returns: A string	Argument 1 = "n208wn"
		Returns "n208wn"
toString(object)	Returns a string representation of a specified	Argument 1 = 748
	object	Returns "748"
	Argument 1: The object for which string is to	Argument 1 = 748.52
	be returned	Returns "748.52"

	Returns: A string	Argument 1 = -748.52
		Returns "-748.52"
		Argument 1 = 16-02-2018
		20:38:40
		Returns "16-02-2018
		20:38:40″
toUpperCase("string"	Returns a copy of a specified string with all	Argument 1 = "n208wn"
)	lowercase letters converted to uppercase	Returns "N208WN"
	Argument 1: The text for which the lowercase	Argument 1 = "n208Wn"
	letters are to be converted to uppercase	Returns "N208WN"
	Returns: A string	Argument 1 = "N208WN"
		Returns "N208WN"
trim("string")	Returns a string with leading and trailing	Argument 1 = "08WN"
	blanks removed	Returns "08WN"
	Argument 1: The text from which the extra	Argument 1 = "N208"
	spaces are to be removed	Returns "N208"
	Returns: A string	Argument 1 = "208W"
		Returns "208W"

Miscellaneous functions:

Functions	Description	Examples
ifCase(condition,	Returns TRUE if the condition is validated	Argument 1 =
truevalue, falsevalue)	and returns FALSE if invalidated	origin=="LAX"
	Argument 1: The condition	Argument 2 = "Los
	Argument 2: True value	Angeles"
	Argument 3: False value	Argument 3 = "Others"
	Returns: An object	
		Returns "Los Angeles" if
		the value of origin is "LAX"
		or else returns "Others"
noOfDaysByDate(Start	Returns the number of days between a	Argument 1 = 2014-03-10
Date, EndDate)	given start and end date	Argument 2 = 2014-04-10
	Argument 1: Start date	Returns 32
	Argument 2: End date	
	Returns: A number	
noOfHalfYearsByDate(S	Returns a number of half years between a	Argument 1 = 2014-01-01
tartDate, EndDate)	given start and end date	Argument 2 = 2014-12-31
	Argument 1: Start date	Returns 2
	Argument 2: End date	Argument 1 = 2014-01-01
	Returns: A number	Argument 2 = 2014-05-31
		Returns 0
		Argument 1 = 2014-01-01
		Argument 2 = 2014-08-31
		Returns 1

noOfMonthsByDate(St	Returns the number of months between a	Argument 1 = 2014-01-01
artDate, EndDate)	given start and end date	Argument 2 = 2014-12-31
,	Argument 1: Start date	Returns 12
	Argument 2: End date	Argument 1 = 2014-01-01
	Returns: A number	Argument 2 = 2014-07-10
		Returns 6
		Argument 1 = 2014-01-01
		Argument 2 = 2014-05-15
		Returns 4
noOfQuartersByDate(St	Returns a number of quarters between a	Argument 1 = 2014-01-01
artDate, EndDate)	given start and end date	Argument 2 = 2014-12-31
	Argument 1: Start date	Returns 4
	Argument 2: End date	Argument 1 = 2014-01-01
	Returns: A number	Argument 2 = 2014-08-15
		Returns 2
noOfWeeksByDate(Star	Returns the number of weeks between a	Argument 1 = 2014-01-01
tDate, EndDate)	given start and end date	Argument 2 = 2015-01-01
(Date, Litubate)	Argument 1: Start date	Returns 52
	Argument 2: End date	
	Returns: A number	Argument 1 = $2014-01-01$
	Returns. A number	Argument 2 = 2014-07-01
		Returns 25
		Argument 1 = 2014-01-01
		Argument 2 = 2014-01-03
		Returns 0
		Argument 1 = 2014-01-01
		Argument 2 = 2014-01-12
		Returns 1
whenThen(columnnam	Tests values of a column or expression and	Argument 1 = Origin
e, whenvalue1, thenres	returns values based on the results of the	Argument 2 = "LAX"
ult1, whenvalue2, then	test	Argument 3 = "Los
result2,, elseresult)		Angeles"
		Argument 4 = "JFK"
		Argument 5 = "John F.
		Kennedy"
		Argument 6 = "Others"
		Poturns "Los Angolos" if
		Returns "Los Angeles" if the value of column
		"origin" is "LAX" and "John
		F. Kennedy" if the value is
		"JFK." For rest of the
		values, returns "Others"

Date functions:

Function	Description	Example
date(Timestamp)	Returns the date part of a timestamp Argument 1: The timestamp for which the date has to be returned Returns: A date	Argument 1 = 2018-02-16 20:38:40 Returns 2018-02-16
dateAdd ("string", i , date)	Adds a certain date or time interval to a date Argument 1: The interval of time (where the type of interval can be: Year / Month / Day / Hour / Minute / Second) Argument 2: The number of interval to be added to the time Argument 3: The date and time to add the interval to Returns: A date	Argument 1 = " γ " or "Y" Argument 2 = 2 Argument 3 = 2018-02-16 20:38:40 Returns 2020-02-16 20:38:40 Argument 1 = "m" or "M" Argument 2 = 2 Argument 3 = 2018-02-16 20:38:40 Returns 2018-04-16 20:38:40 Argument 1 = "d" or "D" Argument 2 = 10 Argument 3 = 2018-02-16 20:38:40 Returns 2018-02-26 20:38:40 Argument 1 = "h" or "H" Argument 2 = 2 Argument 3 = 2018-02-16 20:38:40 Returns 2018-02-16 22:38:40 Argument 1 = "n" or "N" Argument 2 = 2 Argument 3 = 2018-02-16 20:38:40 Returns 2018-02-16 22:38:40 Argument 1 = "s" or "S" Argument 1 = "s" or "S" Argument 2 = 2 Argument 3 = 2018-02-16 20:38:40 Returns 2018-02-16 22:40:40 Argument 1 = "s" or "S" Argument 2 = 2 Argument 3 = 2018-02-16 20:38:40 Returns 2018-02-16 20:38:40 Returns 2018-02-16 20:38:40
dateDiff ("string", date, date)	Returns the number of intervals between two dates or times Argument 1: The interval of time (where the type of interval to be calculated can be: Year / Month / Day / Hour / Minute / Second) Argument 2: The first date or time Argument 3: The second date or time Returns: A number	Argument 1 = "y" or "Y" Argument 2 = 2018-02-16 20:38:40 Argument 3 = 2016-02-16 20:30:20 Returns 2 Argument 1 = "m" or "M" Argument 2 = 2018-02-16 20:38:40 Argument 3 = 2018-05-16 20:38:40 Returns -3 Argument 1 = "d" or "D" Argument 2 = 2018-02-20 20:38:40 Argument 3 = 2018-02-16 20:38:40 Returns 4 Argument 1 = "h" or "H" Argument 2 = 2018-02-16 20:38:40 Returns 3 = 2018-02-16 20:38:40 Argument 3 = 2018-02-16 10:38:40 Returns 10

	Τ	T
		Argument 1 = "n" or "N"
		Argument 2 = 2018-02-16 20:38:40
		Argument 3 = 2018-02-16 10:18:40
		Returns 10
		Argument 1 = "s" or "S"
		Argument 2 = 2018-02-16 20:38:40
		Argument 3 = 2018-02-16 10:38:10
		Returns 30
datePart ("string",	Returns the specified part of a given	Argument 1 = "y" or "Y"
date)	date	Argument 2 = 2018-02-16 20:38:40
	Argument 1: The interval of time	Returns 2018
	(where the part of the date can be:	Argument 1 = "m" or "M"
	Year / Month / Day / Hour / Minute /	Argument 2 = 2018-02-16 20:38:40
		-
	Second)	Returns 2
	Argument 2: The date	Argument 1 = "d" or "D"
	Returns: A number	Argument 2 = 2018-02-16 20:38:40
		Returns 16
		Argument 1 = "h" or "H"
		Argument 2 = 2018-02-16 20:38:40
		Returns 20
		Argument 1 = "n" or "N"
		Argument 2 = 2018-02-16 20:38:40
		Returns 38
		Argument 1 = "s" or "S"
		Argument 2 = 2018-02-16 20:38:40
		Returns 40
dateTime("string")	Returns contents of a string as date-	Argument 1 = "2018-02-16
(0,	time	20:38:40"
	Argument 1: The string for which	Returns 2018-02-16 20:38:40
	date-time is to be returned	
	Returns: A date-time	
day(date)	Returns the day of a date	Argument 1 = 2018-02-16 20:38:40
	represented by a number (an integer	Returns 16
	between 1 and 31)	
	,	
	Argument 1: The date or timestamp	
	for which day part is to be returned	
	Returns: A number	
dayName (date)	Returns the name of the day of the	Argument 1 = 2018-02-16 20:38:40
	week	Returns Friday
	Argument 1: The date or timestamp	
	for which day of the week is to be	
	returned	
	Returns: A string	
dayofWeek(date)	Returns a number (between 1 and 7)	Argument 1 = 2018-02-16 20:38:40
	representing the day of the week	Returns 5
	Argument 1: The date or timestamp	
	for which day of the week is to be	
	, returned	

	Returns: A number	
daysAfter(date,	Returns the count of number of days	Argument 1 = 2018-02-16 20:38:40
date)	after specified date	Argument 2 = 2018-02-10 20:38:40
	Argument 1: The start date	Returns 6
	Argument 2: The end date	
	Returns: A number	
formatDate (date,	Returns the date format for a given	Argument 1 = 2018-02-16
"string")	pattern	Argument 2 = "yy/mm/dd"
	Argument 1: The target date	Returns 18/02/16
	Argument 2: The string	Argument 1 = 2018-02-16 20:38:40
	(where the format can be user	Argument 2 = "mm/dd/yyyy"
	defined, such as "dd-mm-yy	Returns 02/16/2018
	hh:mm:ss")	
	Returns: A date	
hour(date)	Returns the hour of a time value (an	Argument 1 = 2018-02-16 20:38:40
	integer ranging from 0 [12:00 AM] to	Returns 20
	23 [11:00 PM])	
	Argument 1: The timestamp for	
	which hours are to be returned	
	Returns: A number	
minute(date)	Returns the minutes of a time value	Argument 1 = 2018-02-16 20:38:40
	(an integer ranging from 0 to 59)	Returns 38
	Argument 1: The timestamp for	
	which minutes are to be returned	
	Returns: A number	
month(date)	Returns the month (an integer	Argument 1 = 2018-02-16 20:38:40
	between 1 and 12)	Returns 2
	Argument 1: The date or timestamp	
	for which month is to be returned	
	Returns: A number	
monthName(i, [b],	Returns the month name for a given	Argument 1 = 1
[i])	month number	Argument 2 = True
	Argument 1: The number for month	Argument 3 = 1
	Argument 2: True if the month name	Returns Jan
	is abbreviated; otherwise, False	Argument 1 = 3
	(Optional to enter. Default is False)	Argument 2 = True
	Argument 3: The starting month of	Argument 3 = 4
	year in number (Optional to enter.	Returns Jun
	Default is 1 for January)	Argument 1 = 9
	Returns: A string	Argument 2 = False
		Argument 3 = 1
		Returns September
		Argument 1 = 2
		Argument 2 = False
		Argument 3 = 12
		Returns January

		Argument 1 - 2
		Argument 1 = 2
		Argument 2 = ""
		Argument 3 = ""
		Returns February
now()	Returns the current time	Returns 20:38:40
	Returns: A timestamp	
relativeDate	Returns the date that occurs n days	Argument 1 = 2018-02-16 20:38:40
	after a given date	Argument 2 = 5
(timestamp, i)	Argument 1: The date or timestamp	Returns 2018-02-21
	Argument 2: The number of days to	
	be added to the date-timestamp	
	Returns: A timestamp	
relativeTime	Returns the time that occurs n	Argument 1 = 20:38:40
	seconds after a given time	Argument 2 = 5
(timestamp, i)	Argument 1: The timestamp	Returns 20:38:45
	Argument 2: The number of seconds	
	to be added to the timestamp	
	Returns: A timestamp	
second(timestamp)	Returns the seconds of a time value	Argument 1 = 2018-02-16 20:38:40
	(an integer in the range 0 to 59)	Returns 40
	Argument 1: The timestamp for	
	which seconds are to be returned	
	Returns: A number	
time(timestamp)	Returns the time part from a given	Argument 1 = 2018-02-16 20:38:40
······································	timestamp as a string datatype	Returns "20:38:40"
	Argument 1: The timestamp for	
	which time part is to be returned	
	Returns: A string	
today()	Returns the current system date	Returns 2018-02-16
	Returns: A date	
weekdayName(i,	Returns the day name for a given day	Argument 1 = 1
[b], [i])	number of a week	Argument 2 = True
[0], [i])	Argument 1: The number for day of	Argument 3 = 1
	week	Returns Sun
	Argument 2: True if the day name is	Argument 1 = 1
	abbreviated; otherwise, False	Argument 2 = False
	(Optional to enter. Default is False)	Argument 3 = 1
	Argument 3: The first day of the	
	week in number (Optional to enter.	Returns Sunday
		Argument 1 = 5
	Default is 1 for Sunday)	Argument 2 = False
	Returns: A string	Argument 3 = 1
		Returns Thursday
		Argument 1 = 1
		Argument 2 = False
		Argument 3 = 3
		Returns Tuesday

		Argument 1 = 1
		Argument 2 = False
		Argument 3 = 5
		Returns Thursday
		Argument 1 = 4
		Argument 2 = ""
		Argument 3 = ""
		Returns Wednesday
year(date)	Returns the year corresponding to a	Argument 1 = 2018-02-16 20:38:40
	date (an integer between 1000 and	Returns 2018
	3000)	
	Argument 1: The date or timestamp	
	for which year part is to be returned	
	Returns: A number	

7.2.18 Changing Display Format of Data in a Dataset

You can change the format of how data is displayed in a dataset.

Note:

You can change the display format of the number and DateTime data type only. This is a front-end operation and does not affect any data in a dataset.

7.2.18.1 Changing Display Format of Numeric Data in a Dataset

About this task

Use this task to change the display format of numeric data in a particular column.

Procedure

- 1. Open the dataset in which you want to change the display format.
- 2. Right-click in the column whose display format you want to change.

The system displays the context menu.

Sm	arten vanced Data Discovery							Welcome Shyam Ra	mani
Flig	htData_2016_S	V							
				E		∞ ∞ ∯	¹ t _a	\$ I I II	æ
							Last refre	shed on April 13, 2018 23:35	5:31
Resul	t set 👻								
TERQ	O DEP MONTHQ	D D			P_HOUR Q	O DEP DATE Q	ARR YEAR Q	O ARR_QUARTER Q	C
	1	19	Highlight >	18	-	January 19, 2016 12:30:00		Q1	
	1	18	Unique values	12		January 18, 2016 06:30:00		01	
	1	7		6		January 07, 2016 00:30:00		01	
	1	10	Find & replace	13		January 10, 2016 07:30:00		Q1	
	1	19	Remove >	13		January 19, 2016 07:30:00		Q1	
	1	3	Mark as >	10		January 03, 2016 04:30:00		Q1	
	1	19	Copy >	6		January 19, 2016 00:30:00	2016	Q1	1
	1	17		9		January 17, 2016 03:30:00	2016	Q1	1
	1	28	Sort >	5		January 27, 2016 23:30:00	2016	Q1	1
	1	3	Transform >	8		January 03, 2016 02:30:00	2016	Q1	1
	1	14	Add column >	20		January 14, 2016 14:30:00	2016	Q1	1
	1	18	Fill >	14		January 18, 2016 08:30:00	2016	Q1	1
	1	3		7		January 03, 2016 01:30:00	2016	Q1	1
	1	22	Split >		NULL	January 21, 2016 18:30:00	2016	Q1	1
	1	6	Merge columns	10		January 06, 2016 04:30:00	2016	Q1	1
	1	20	Filter >	14		January 20, 2016 08:30:00	2016	Q1	
	1	29	Diantau Farmat	12		January 29, 2016 06:30:00	2016	Q1	1
	1	10	Display Format	7		January 10, 2016 01:30:00	2016	Q1	1
	1	13	Edit row	17		January 13, 2016 11:30:00	2016	Q1	1
	1	25	Statistics	5		January 24, 2016 23:30:00	2016	Q1	1
	1	22		8		January 22, 2016 02:30:00	2016	Q1	

DISPLAY FORMAT-THE CONTEXT MENU

3. Click **Display Format** from the menu.

The system displays the **Display format** dialog box.

Advanced Data Discovery	Welcome Shyam Ramani
FlightData_2016_SV	
-	
	Last refreshed on April 13, 2018 23:35:31 🜉
Result set - Flight >>> Display format - DEP	_DAY_OF_MONTH X
🖸 DEP_MONTH Q D D 🗌 Comma separate	or
9 5 8 14	
8 19 1,234,567 9 28	•
8 10 Negative number for	nat
9 19 -1234	T
7 17 ⁻¹²³⁴	
9 20	
9 22	PREVIEW
8 12	
8 25	
9 11	
9 16	
8 10	
8 25	
9 26	
9 7 7 27	
7 27 8 28	
9 23	
9 1	
7 27	
9 26	
8 8	
4	
APPLY CANCED	-

DISPLAY FORMAT-THE DISPLAY FORMAT DIALOG BOX

- 4. Select the Comma separator option to use comma as a separator in the format.
- 5. Select an option from the **Comma format** list to display the data in that format.
- 6. Select an option from the **Negative number format** list to display negative values in that format.
- 7. You can click **PREVIEW** to view a preview of the new format selected.
- 8. Click **APPLY**.

7.2.18.2 Changing Display Format of Datetime Data in a Dataset

About this task

Use this task to change the display format of numeric data in a particular column.

Procedure

- 1. Open the dataset in which you want to change the display format.
- 2. Right-click in the column whose display format you want to change.

The system displays the context menu.

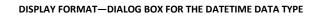
	arten vanced Data Discovery								-
Flia	htData_2016_S	V							
							*t	\$ E E U1	Q
							Last refre	shed on April 13, 2018 23:35	5:3
Resul	t set 👻								
ERQ	C DEP_MONTHQ	DD	EP DAY OF MONT	нΟ	O DEP_HOURQ	C DEP_DATE Q	O ARR_YEAR Q	C ARR_QUARTER Q	
	1	19	Highlight	>	18	January 19, 2016 12:30:00	2016	Q1	
	1	18	Unique values		12	January 18, 2016 06:30:00		Q1	
	1	7		-1	6	January 07, 2016 00:30:00	2016	Q1	
	1	10	Find & replace	_1	13	January 10, 2016 07:30:00	2016	Q1	
	1	19	Remove	>	13	January 19, 2016 07:30:00	2016	Q1	
	1	3	Mark as	>	10	January 03, 2016 04:30:00	2016	Q1	
	1	19	Сору	>	8	January 19, 2016 00:30:00	2016	Q1	
	1	17		-	9	January 17, 2016 03:30:00	2016	Q1	
	1	28	Sort	2	5	January 27, 2016 23:30:00	2016	Q1	
	1	3	Transform	>	8	January 03, 2016 02:30:00	2016	Q1	
	1	14	Add column	>	20	January 14, 2016 14:30:00	2016	Q1	
	1	18	Fill		14	January 18, 2016 08:30:00	2016	Q1	
	1	3		_	7	January 03, 2016 01:30:00	2016	Q1	
	1	22	Split	2	NULL	January 21, 2016 18:30:00	2016	Q1	
	1	6	Merge columns		10	January 06, 2016 04:30:00	2016	Q1	
	1	20	Filter	>	14	January 20, 2016 08:30:00	2016	Q1	
	1	29	Display Format	-1	12	January 29, 2016 06:30:00	2016	Q1	
	1	10		_[7	January 10, 2016 01:30:00	2016	Q1	
	1	13	Edit row		17	January 13, 2016 11:30:00	2016	Q1	
	1	25	Statistics		5	January 24, 2016 23:30:00	2016	Q1	
	1	22		_	8	January 22, 2016 02:30:00	2016	Q1	

DISPLAY FORMAT—THE CONTEXT MENU

3. Click **Display Format** from the menu.

The system displays the **Display format** dialog box.

FlightData_2	2016_3	\$V	
		E	
			Last refreshed on April 13, 2018 23:35:31
Result set 👻 F	light \gg	Display format - DEP_DATE	
	DD	Timestamp format	
	5		
	14		
	19		
	26		
	10		PREVIEW
	19		
	17		
	15		
	20		
	22		
	12		
	25		
	11		
	16		
	10		
	25		
	26		
	7		
	27		
	26		
	23		
	1		
	27		
	26		
	8		



4. Specify a format in the **Timestamp format** box.

As you start typing, the system displays the available formats, and you can select a format from the list.

DD dd - M - yy a h (01 - 9 - '03 PM 1)	
dd - M - yy a h:mm (01 - 9 - '03 PM 1:30)	
dd - M - yy a h:mm:ss (01 - 9 - '03 PM 1:30:55)	
dd - M - yy h a (01 - 9 - '03 1 PM)	
dd - M - yy H:m (01 - 9 - '03 3:2)	
dd - M - yy h:m a (01 - 9 - '03 3:2 AM)	
dd - M - yy H:m:s (01 - 9 - '03 3:2:5)	

DISPLAY FORMAT—SPECIFYING A FORMAT

5. You can click **PREVIEW** to view a preview of the selected format. Click **APPLY**.

7.2.19 Editing a row in a Dataset

You can change the value of one or more columns for a particular row if at least one column in the dataset has unique values.

Reference: Concept Manual > Shape Data > Edit

About this task

Use this task to edit data of a row.

Procedure

- 1. Open the dataset for which you want to edit data.
- 2. Right-click in the row for which you want to edit data.

The system displays the context menu.

Advanced Data Discovery				Welcome Shyam Raman
FlightData_20	16_SV			
		I	â 'i III 🕑 🕸	× • • •
			Last refreshed on	April 13, 2018 23:35:31
Deputtent Flig	htData New Dea 0040 D	teest Dred		
Result set - Flig	htData_Nov_Dec_2016_Da	alasel_Pred		
T UNIQUE_CARRIER	🔍 📺 FLIGHT_NUMBER Q		T ORIGIN_CITY_NAME Q	ORIGIN_STATE_N
AA .	AA2008	MCO	Orlando, FL	Florida ·
DL	DL2025	BWI	Baltimore, MD	Maryland
JA	UA195	IAH .	Houston, TX	Texas
36	B6305	EWF Highlight >	Newark, NJ	New Jersey
AA	AA2387	ORE Unique values	Chicago, IL	Illinois
/X	VX778	LAS Cluster & edit	Las Vegas, NV	Nevada
AA .	AA712	TPA	Tampa, FL	Florida
AA .	AA2044	CLT Find & replace	Charlotte, NC	North Carolina
/X	VX902	SFO Remove >	San Francisco, CA	California
36	B62204	RSV Mark as >	Fort Myers, FL	Florida
36	B62204	RSV	Fort Myers, FL	Florida
1K	NK473	ATL Copy >	Atlanta, GA	Georgia
WN	WN51	MDW Sort >	Chicago, IL	Illinois
36	B61272	FLL Transform >	Fort Lauderdale, FL	Florida
NS	AS92	ANC	Anchorage, AK	Alaska
00	003099	LAX Add column >	Los Angeles, CA	California
WN	WN1682	LAS Fill >	Las Vegas, NV	Nevada
WN	WN528	MSY Split >	New Orleans, LA	Louisiana
V	EV4248	CMH	Columbus, OH	Ohio
AS	AS46	BET Merge columns	Bethel, AK	Alaska
00	007361	RHI Filter >	Rhinelander, WI	Wisconsin
4		Edit row		

www.smarten.com

Powered by ElegantJ BI Version 5.0.1.000

EDIT ROW-THE CONTEXT MENU

3. Click **Edit row** from the menu.

The system displays the **Edit Row** dialog box.

Dataset_From_I	Database					
		• • • • • • • • • • • •				
		Last refreshed on October 13, 2018 15:21:37				
Result set 👻	>> Edit Row					
SALES_CUSTO	ME SalesOrderDetailID	1887				
63	Sales_Customer_CustomerID	169				
169 594	Sales_Customer_TerritoryID	1				
594	Sales_Customer_AccountNumber	AW00000169				
62 484	CustomerType	S 2D6BBC35-BC19-4CB4-A61B-46899D3A4237				
221 234	Sales_Customer_rowguid					
650	Sales_Customer_ModifiedDate	2004-10-13 11:15:07.263				
148 514	Sales_Store_CustomerID	169				
640 496	Sales_Store_Name	Downtown Hotel				
399	Sales_Store_SalesPersonID					
423 345	Demographics					
621						

EDIT ROW-THE EDIT ROW DIALOG BOX

All columns and their values are displayed in the dialog box for the selected row.

4. You can edit the value of columns, and then click APPLY.

7.2.20 Viewing Statistics of Data in a Dataset

You can explore data with the help of various statistics, including skewness and kurtosis.

Reference: Concept Manual > Explore Data > Statistics

About this task

Use this task to view statistics of data in a dataset.



Procedure

- 1. Open the dataset for which you want to view statistics.
- 2. Right-click in the column for which you want to view statistics.

The system displays the context menu.

Sma	arten anced Data Discovery						Welcome Shyam Rar	mani
Elia	htData_2016_S	V						
, ngi		v			0 00	u	\$ E D1	(Å
						Last refres	shed on April 13, 2018 23:35	5:31
Result	t set 👻							
RTERQ	C DEP_MONTH Q	DD	P DAY OF MONTHO	O DEP_HOURQ	O DEP_DATE Q	O ARR_YEAR Q	C ARR_QUARTER Q	0
	1	19	Highlight >	18	January 19, 2016 12:30:00	2016	Q1	1
	1	18	Unique values	12	January 18, 2016 06:30:00		Q1	1
	1	7	Find & replace	6	January 07, 2016 00:30:00	2016	Q1	1
	1	10	· · · · · · · · · · · · · · · · · · ·	13	January 10, 2016 07:30:00	2016	Q1	1
	1	19	Remove >	13	January 19, 2016 07:30:00	2016	Q1	1
	1	3	Mark as >	10	January 03, 2016 04:30:00	2016	Q1	1
	1	19	Copy >	6	January 19, 2016 00:30:00	2016	Q1	1
	1	17	Sort >	9	January 17, 2016 03:30:00	2016	Q1	1
	1	28		5	January 27, 2016 23:30:00	2016	Q1	1
	1	3	Transform >	8	January 03, 2016 02:30:00	2016	Q1	1
	1	14	Add column >	20	January 14, 2016 14:30:00	2016	Q1	1
	1	18	Fill >	14	January 18, 2016 08:30:00	2016	Q1	1
	1	3	- m	7	January 03, 2016 01:30:00	2016	Q1	1
	1	22	Split >	NULL	January 21, 2016 18:30:00	2016	Q1	1
	1	6	Merge columns	10	January 06, 2016 04:30:00	2016	Q1	1
	1	20	Filter >	14	January 20, 2016 08:30:00	2016	Q1	1
	1	29	Display Format	12	January 29, 2016 06:30:00		Q1	1
	1	10		7	January 10, 2016 01:30:00		Q1	1
	1	13	Edit row	17	January 13, 2016 11:30:00		Q1	1
	1	25	Statistics	5	January 24, 2016 23:30:00		Q1	1
	1	22	·	8	January 22, 2016 02:30:00	2016	Q1	1 🖵



3. Click **Statistics** from the menu.

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

FlightData_2	2016_S	SV .					
						<u>}</u>	
					Lasi	refreshed on April 1	3, 2018 23:35:31
Result set 👻 🖡	light ≫	Statistics - DEP	YEAR				
O DEP_YEA	R Q 🖸	Full data sta	atistics	Filtered dat	a statistics		
2016 2016	Q2 Q2	Count		5,606,065	Mean (Average)	<i>(i)</i>	2,016
2016	Q2	Sum		11,301,827,040	Kurtosis	\tilde{i}	-
2016	Q4	Min		2016			
2016	Q3	Min		2016	Skewness	(i)	-
2016	Q2	Max		2,016	Standard deviation	(i)	0
2016	Q2	Median	<i>(i)</i>	2,016			
2016	Q3						
2016	Q3			Distribution			-
2016	Q1			Distribution	of DEP_YEAR		G
2016	Q1	5,800,000					
2016	Q1	5,000,000					
2016	Q4	5 700 000					
2016	Q4	5,700,000					
2016	Q3						
2016	Q2	5,600,000					
2016 2016	Q3 Q3						
2016	Q1	5,500,000					
2016	Q3						
2016	Q3			Box plot of	DEP_YEAR		0
	Q3						
2016	Q3						
2016 2016							
	Q3						

STATISTICS—THE STATISTICS DIALOG BOX

Heading	Description
Count	Displays the count of the column.
Sum	Displays the sum of the column.
Min	Displays the minimum value of the column.
Max	Displays the maximum value of the column.
Median	Displays the value in the middle when the data items are arranged in ascending order.
Mean	Displays the average of all data values of the column.
Kurtosis	Displays the measure of the peakedness of the dataset.
Skewness	Displays the measure of symmetry. A dataset is symmetric if it looks the same to the left and right of the center point.
Standard deviation	Displays the measure of how spread out the dataset is.
Distribution	A graphical display where the data is grouped into buckets and then plotted as bars.
Box Plot	A standardized way of displaying the distribution of data based on the five-number summary: minimum, first quartile, median, third quartile, and maximum.

The dialog box displays the following statistics:

7.2.21 Filling Data in a Dataset

You can fill null or empty values in rows for a column based on previous row values.

Reference: Concept Manual > Shape Data > Fill Data

About this task

Use this task to fill null or empty values.

Procedure

- 1. Open the dataset for which you want to fill null or empty values.
- 2. Right-click in the row for which you want to fill null or empty values.

The system displays the context menu.

	anced Data Discovery							 ↑	•
Fligl	htData_2016_S	V							
						: (D) (O) (A)	۳ <u>ـ</u>	🕸 🖺 🕅	(
							Last refre	shed on April 13, 2018 23:35	5::
esul	t set 👻								
PO	O DEP_MONTH Q			uО	O DEP_HOURQ			O ARR_QUARTER Q	
			Highlight	>					
	1	19		_	18	January 19, 2016 12:30:00		Q1	
	1	18 7	Unique values	_	12 6	January 18, 2016 06:30:00 January 07, 2016 00:30:00		Q1 Q1	
	1	10	Find & replace		13	January 10, 2016 07:30:00		Q1	
	1	19	Remove	>	13	January 19, 2016 07:30:00		Q1	
	1	3	Mark as	>	10	January 03, 2016 04:30:00		Q1	
	1	19	Сору	_	6	January 19, 2016 00:30:00		Q1	
	1	17		-	9	January 17, 2016 03:30:00	2016	Q1	
	1	28	Sort	>	5	January 27, 2016 23:30:00	2016	Q1	
	1	3	Transform	>	8	January 03, 2016 02:30:00	2016	Q1	
	1	14	Add column	>	20	January 14, 2016 14:30:00	2016	Q1	
	1	18	Fill	<u>,</u>	14	January 18, 2016 08:30:00	2016	Q1	
	1	3		_	7	January 03, 2016 01:30:00	2016	Q1	
	1	22	Split	2	NULL	January 21, 2016 18:30:00	2016	Q1	
	1	6	Merge columns		10	January 06, 2016 04:30:00	2016	Q1	
	1	20	Filter	>	14	January 20, 2016 08:30:00	2016	Q1	
	1	29	Display Format		12	January 29, 2016 06:30:00		Q1	
	1	10		-	7	January 10, 2016 01:30:00		Q1	
	1	13	Edit row		17	January 13, 2016 11:30:00		Q1	
	1	25	Statistics		5	January 24, 2016 23:30:00		Q1	
	1	22	-		8	January 22, 2016 02:30:00	2016	Q1	

FILL DATA—THE CONTEXT MENU

3. Click Fill from the menu.

The system fills the null or empty value with the value from the above cell.

					8:	0 00 🛱 't	₩ <u>≥</u> \$	
							Last refreshed on A	pril 13, 2018 23:35:31 🍟
Re	esult set 👻 Fligh	tData_Nov_Dec_2016	_Dat	aset_Pred				
	O DEP_YEARQ	O DEP_QUARTER Q	0	DEP_MONTH Q	D	DEP_DAY_OF_MONTHQ	O DEP_HOURQ	O DEP_DATE
	2016	Q2	6		9		19	June 09, 2016 19:00:00
	2016	Q2	6		18	1	11	June 18, 2016 11:00:00
	2016	Q3	8	Highlight	>		9	August 14, 2016 09:00:00
	2016	Q4	11	Unique values			16	November 12, 2016 16:00
	2016	Q3	8	Find & replace			16	August 19, 2016 16:00:00
	2016	Q2	6				8	June 19, 2016 08:00:00
	2016	Q2	6	Remove	>		8	June 18, 2016 08:00:00
	2016	Q3	9	Mark as	>		16	September 28, 2016 16:0
	2016	Q3	7	Сору	>		9	July 19, 2016 09:00:00
	2016	Q1	1	Sort	>		5	January 03, 2016 05:00:0
	2016	Q1	1	Son			5	January 03, 2016 05:00:0
	2016	Q1	3	Transform	>		11	March 26, 2016 11:00:00
	2016	Q4	12	Add column	>		5	December 05, 2016 05:00
	2016	Q4	10	Fill	>	As Previous Value	14	October 13, 2016 14:00:0
	2016	Q3	7				14	July 23, 2016 14:00:00
	2016	Q2	6	Split	>	Mean	16	June 09, 2016 16:00:00
	2016	Q3	9	Merge columns		Median	10	September 19, 2016 10:0
	2016	Q3	9	Filter	>	Min	9	September 06, 2016 09:0
	2016	Q1	3				17	March 20, 2016 17:00:00
	2016	Q3	7	Display Format		Max	20	July 17, 2016 20:00:00
	2016	Q3	8	Edit row			15	August 20, 2016 15:00:00

FILL DATA—THE FILL OPTIONS

4. Select **As Previous Value** to fill the null or empty cells with the value available in the previous cell.

The following options are available for numeric data type:

- **Mean**: This option fills the null or empty cells with the mean value of all values available in the selected column.
- **Median**: This option fills the null or empty cells with the median value of all values available in the selected column.
- **Min**: This option fills the null or empty cells with the lowest value available in the selected column.
- **Max**: This option fills the null or empty cells with the highest value available in the selected column.

7.2.22 Enable or Disable Auto-Suggestions and Recommendations

The intuitively guided interface of Smarten SSDP provides users with relevant auto-suggestions and recommendations to help users improve the quality of data.

Guided by smart suggestions and auto recommendations, business users can prepare, blend, and transform data and create analysis-ready data quickly and accurately without assistance or any specialized skills or scripting.

For example, Smarten SSDP will provide suggestions when there are blank values in a String column, outlier values in a Numeric column, or when all rows of a String column contain numeric values, and many other suggestions to help users quickly create analysis-ready data.

Shown below is the image of auto-suggestions and recommendations provided by Smarten SSDP for a dataset.

Smarten Advanced Data Discovery																	W	elcome :	ad
lightData_Jan_2	015_Datase	t1							₽	8:	Ø	00 ĝ	۹. ۱۹.		<u>S</u> g	\$		01	(
															Last refre	eshed on 🗸	lune 15, 20	018 14:0	09
sult set 👻																			
O FLIGHTDATE Q		123 ROW_NUMBER Q					T DE	sтq	123 D	EPTIM	ΕQ	123 DEPD	ELAY Q	123 A	RRTIME	Q 📰	ARRDEL	AY Q	1
January 01, 2015 00:00:00	19805	0	AA	N787AA	1	JFK	LAX		855			-5		1237		7			3
January 23, 2015 00:00:00	19805	1	AA	N3JJAA	25	BOS	LAX		900			0		1237		0			3
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NU	L		NULL		NU	LL		NULL		NULL		ï
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NU	4		NULL		NUI	LL		NULL		NULL		íř
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NU			NULL		NU			NULL		NULL		Î
January 04, 2015 00:00:00	19805	5	AA	N3HLAA	184	DFW	SFO		1054			29		1237		27			2
January 29, 2015 00:00:00		8	AA	N002AA	1079	DFW	ELP		1145			-5		1237		2			
January 31, 2015 00:00:00	19805	7	AA	N5ESAA	253	LAX	OGG		858			-2		1237		-19			
January 14, 2015 00:00:00	19805	8	AA	N788AA	255	JFK	LAX		954			-6		1237		-53			1
January 21, 2015 00:00:00	19805	9	AA	N3CBAA	1010	DFW	PBI		915			-5		1237		-17			
January 03, 2015 00:00:00	19805	10	AA	N474AA	1023	DFW	AUS		1146			-4		1237		-13			
January 03, 2015 00:00:00	19805	11	AA	N3DYAA	1027	BOS	DFW		919			-6		1237		-23			ł
January 12, 2015 00:00:00	19805	12	AA	N856AA	1033	MIA	BOS		927			-3		1237		-7			ľ
January 16, 2015 00:00:00	19805	13	AA	N855AA	1033	MIA	BOS		932			2		1237		-7			
January 08, 2015 00:00:00	19805	14	AA	N555AA	1046	MCI	DFW		1101			-3		1237		-8			7
January 11, 2015 00:00:00		15	AA	N4XGAA	1046	MCI	DFW		1051			-13		1237		-8			1
January 14, 2015 00:00:00		16	AA	N4WPAA	1046	MCI	DFW		1055			-9		1237		-8			1
January 16, 2015 00:00:00		17	AA	N3LEAA	1238	FLL	ORD		1024			-8		1237		-13			1
January 21, 2015 00:00:00		18	AA	N3DJAA	1108	DFW	LGA		850			60		1237		36			ľ
January 09, 2015 00:00:00		19	101	HODITIT	1110	0.11			020			-1		1237		-2			ľ
January 10, 2015 00:00:00		20	Suggestion							X		16		1237		10			1
January 03, 2015 00:00:00		21	-									-1		1237		-18			1
January 31, 2015 00:00:00	19805		NULL value(s) foun values feature.	d in column: Row_N	Number. You can repla	ce or remove NUL	L values	using	Unique			-1		1237		-13			

AUTO-SUGGESTIONS AND RECOMMENDATIONS—DATASET

Reference: Concept Manual > Auto-suggestions and Recommendations

About this task

Use this task to enable or disable auto-suggestions and recommendations.

Procedure

- 1. Open the dataset for which you want to enable or disable auto-suggestions.
- 2. Click the Auto-Suggestions icon on the toolbar to enable auto-suggestions and recommendations.

ata	aset_From_Database		₽ ∰ ₽ ₽	(D) (0) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	
				Lastin	efreshed on Octo Enable auto sug
ult	set 👻				
2	T SALES_CUSTOMER_ROWGUID Q	SALES_CUSTOMER_MODIFIEDDATE Q	sales_store_customeridQ	T SALES_STORE_NAME Q	B SALES_STORE_SALESP
	76E2E4C3-B1BA-4CB2-B410-A4D48BA886E5	October 13, 2004 11:15:07	63	Metro Bike Mart	279
	2D6BBC35-BC19-4CB4-A61B-46899D3A4237	October 13, 2004 11:15:07	169	Downtown Hotel	281
	147692E6-80FE-492F-97F6-51D9C5AA0C36	October 13, 2004 11:15:07	594	Casual Bicycle Store	275
	147692E6-80FE-492F-97F6-51D9C5AADC36	October 13, 2004 11:15:07	594	Casual Bicycle Store	275
	359BB644-407D-4C24-AB98-E637AEE7C81E	October 13, 2004 11:15:07	62	Manufacturers Inc	279
	1548C6D6-55AE-42CC-813D-093D70330662	October 13, 2004 11:15:07	484	Educational Services	289
	98EA497E-45D0-4C54-821A-4FDD9A751095	October 13, 2004 11:15:07	221	Bike Dealers Association	281
	60552ADB-643C-461A-9DFD-57029760B59A	October 13, 2004 11:15:07	234	Eastside Sporting Goods	275
	D903D48A-5B03-472E-B802-8500A3C81305	October 13, 2004 11:15:07	650	Permanent Finish Products	281
	5475E9DD-98CA-4989-B7A2-3FC929BEEA12	October 13, 2004 11:15:07	148	Latest Sports Equipment	283
	F7FA597E-BE0A-4488-9101-A6CD272DBF47	October 13, 2004 11:15:07	514	Retail Mall	282
	8AB2C195-E95A-45DE-B0D1-02F13D20D0B0	October 13, 2004 11:15:07	640	Liquidation Sales	290
	9D1A7488-6CD7-4866-A0A4-DD3A8A850EDD	October 13, 2004 11:15:07	498	Top Sports Supply	282
	BC98B78E-3068-475A-8EAD-FBA537DDE9B9	October 13, 2004 11:15:07	399	Big Cycle Mall	277
	A6B62683-6B48-4B90-8618-01A36F459ECD	October 13, 2004 11:15:07	423	Bike Rims Company	279
	131056AB-E899-43BF-91E6-D92F44456655	October 13, 2004 11:15:07	345	Genial Bike Associates	277
	A8ACF94D-2B05-4EF4-98EA-87B3488819C5	October 13, 2004 11:15:07	621	Running and Cycling Gear	283
	8194B68E-AF15-4EDC-B403-6C8F7475492B	October 13, 2004 11:15:07	492	Basic Sports Equipment	276
	B30CE5B4-BBFA-4A57-B5C2-EED1EF13E0BE	October 13, 2004 11:15:07	697	Brakes and Gears	276
	F8BF1985-3C65-400F-BD46-92F88008F003	October 13, 2004 11:15:07	335	Scratch-Resistant Finishes Company	282
	0484601B-6A04-41BF-9554-3EB22D5B4DC1	October 13, 2004 11:15:07	403	Affordable Sports Equipment	281
	527D2334-C39D-49A8-901E-B1057F41BD73	October 13, 2004 11:15:07	315	Juvenile Sports Equipment	279
	2F89E8DD-A3C3-4ED4-A604-4B3D45DD1BEA	October 13, 2004 11:15:07	254	Safe Cycles Shop	283
	11FEDA31-15B8-4F08-9357-355371D4D928	October 13, 2004 11:15:07	88	Closest Bicycle Store	285

AUTO-SUGGESTIONS—ENABLING AUTO-SUGGESTIONS

Note:

The system displays a tooltip to enable auto-suggestions when you hover the mouse pointer over the icon if auto-suggestions is disabled.

Once auto-suggestions is enabled, the system analyses the data in the background and provides suggestions to the user.

3. Similarly, you can click the same icon to disable auto-suggestions.

vanced	en Data Discovery				Welcome Shya
ase	et_From_Database		8 🖷 🕒 🛢	0 00 🛱 🖌 🔛	🧼 🏟 🗵 🛍 [
				Last r	efreshed on Oct Disable auto su
t se	t -				·
Т	SALES_CUSTOMER_ROWGUID Q	SALES_CUSTOMER_MODIFIEDDATE Q		T SALES_STORE_NAME Q	SALES_STORE_SALES
76E	2E4C3-B1BA-4CB2-B410-A4D48BA886E5	October 13, 2004 11:15:07	63	Metro Bike Mart	279
2D6	BBC35-BC19-4CB4-A61B-46899D3A4237	October 13, 2004 11:15:07	169	Downtown Hotel	281
147	692E6-80FE-492F-97F6-51D9C5AA0C36	October 13, 2004 11:15:07	594	Casual Bicycle Store	275
147	692E6-80FE-492F-97F6-51D9C5AA0C36	October 13, 2004 11:15:07	594	Casual Bicycle Store	275
359	BB644-407D-4C24-AB98-E637AEE7C81E	October 13, 2004 11:15:07	62	Manufacturers Inc	279
154	8C6D6-55AE-42CC-813D-093D70330662	October 13, 2004 11:15:07	464	Educational Services	289
98E	A497E-45D0-4C54-821A-4FDD9A751095	October 13, 2004 11:15:07	221	Bike Dealers Association	281
605	52ADB-643C-461A-9DFD-57029760B59A	October 13, 2004 11:15:07	234	Eastside Sporting Goods	275
D90	3D48A-5B03-472E-B802-8500A3C81305	October 13, 2004 11:15:07	650	Permanent Finish Products	281
547	5E9DD-98CA-4989-B7A2-3FC929BEEA12	October 13, 2004 11:15:07	148	Latest Sports Equipment	283
F7F	A597E-BEDA-4488-9101-A6CD272DBF47	October 13, 2004 11:15:07	514	Retail Mall	282
8AB	2C195-E95A-45DE-B0D1-02F13D20D0B0	October 13, 2004 11:15:07	640	Liquidation Sales	290
9D1	A7488-6CD7-4866-A0A4-DD3A8A850ED0	October 13, 2004 11:15:07	496	Top Sports Supply	282
BCS	98878E-3068-475A-8EAD-FBA537DDE9B9	October 13, 2004 11:15:07	399	Big Cycle Mall	277
A6B	82683-6848-4890-8618-01A36F459ECD	October 13, 2004 11:15:07	423	Bike Rims Company	279
131	056AB-E899-43BF-91E6-D92F44456655	October 13, 2004 11:15:07	345	Genial Bike Associates	277
ASA	CF94D-2B05-4EF4-96EA-87B3488619C5	October 13, 2004 11:15:07	621	Running and Cycling Gear	283
819	4B68E-AF15-4EDC-B403-6C8F7475492B	October 13, 2004 11:15:07	492	Basic Sports Equipment	276
B30	CE584-BBFA-4A57-B5C2-EED1EF13E0BE	October 13, 2004 11:15:07	697	Brakes and Gears	276
F8B	F1985-3C65-400F-BD46-92F88008F003	October 13, 2004 11:15:07	335	Scratch-Resistant Finishes Company	282
048	4601B-6A04-41BF-9554-3EB22D5B4DC1	October 13, 2004 11:15:07	403	Affordable Sports Equipment	281
527	D2334-C39D-49A8-901E-B1057F41BD73	October 13, 2004 11:15:07	315	Juvenile Sports Equipment	279
2F8	9E8DD-A3C3-4ED4-A604-4B3D45DD1BEA	October 13, 2004 11:15:07	254	Safe Cycles Shop	283
11E	EDA31-15B6-4F08-9357-355371D4D928	October 13, 2004 11:15:07	88	Closest Bicycle Store	285

AUTO-SUGGESTIONS—DISABLING AUTO-SUGGESTIONS

Note:

The system displays a tooltip to disable auto-suggestions when you hover the mouse pointer over the icon if auto-suggestions is enabled.

7.2.23 Enable or Disable Record Count

You can display the total number of records available in a dataset.

About this task

Use this task to enable or disable the record count display for a dataset.

Procedure

- 1. Open the dataset for which you want to enable or disable record count.
- 2. Click the record count icon on the toolbar to display the total number of records available for the dataset.

Advanced Data Discovery								Wel	come S	hyam R	amani
Dataset_From_Database		₽	Ø	00	4	ч.,		\$	ŧ	01	æ

Last refreshed on October	Enable record count
---------------------------	---------------------

☐ SALES_CUSTOMER_ROWGUID Q	SALES_CUSTOMER_MODIFIEDDATE Q	SALES_STORE_CUSTOMERIDQ	T SALES_STORE_NAME Q	SALES_STORE_SALES
76E2E4C3-B1BA-4CB2-B410-A4D48BA886E5	October 13, 2004 11:15:07	63	Metro Bike Mart	279
2D6BBC35-BC19-4CB4-A61B-46899D3A4237	October 13, 2004 11:15:07	169	Downtown Hotel	281
147692E6-80FE-492F-97F6-51D9C5AADC36	October 13, 2004 11:15:07	594	Casual Bicycle Store	275
147692E6-80FE-492F-97F6-51D9C5AADC36	October 13, 2004 11:15:07	594	Casual Bicycle Store	275
359BB644-407D-4C24-AB98-E637AEE7C81E	October 13, 2004 11:15:07	62	Manufacturers Inc	279
1548C6D6-55AE-42CC-813D-093D70330662	October 13, 2004 11:15:07	484	Educational Services	289
98EA497E-45D0-4C54-821A-4FDD9A751095	October 13, 2004 11:15:07	221	Bike Dealers Association	281
60552ADB-643C-461A-9DFD-57029760B59A	October 13, 2004 11:15:07	234	Eastside Sporting Goods	275
D903D48A-5B03-472E-B802-8500A3C81305	October 13, 2004 11:15:07	650	Permanent Finish Products	281
5475E9DD-98CA-4989-B7A2-3FC929BEEA12	October 13, 2004 11:15:07	148	Latest Sports Equipment	283
F7FA597E-BE0A-4488-9101-A6CD272DBF47	October 13, 2004 11:15:07	514	Retail Mall	282
8AB2C195-E95A-45DE-B0D1-02F13D20D0B0	October 13, 2004 11:15:07	640	Liquidation Sales	290
9D1A7488-6CD7-4866-ADA4-DD3A8A850ED0	October 13, 2004 11:15:07	496	Top Sports Supply	282
BC98B78E-3068-475A-8EAD-FBA537DDE9B9	October 13, 2004 11:15:07	399	Big Cycle Mall	277
A6B62683-6B48-4B90-8618-01A36F459ECD	October 13, 2004 11:15:07	423	Bike Rims Company	279
131056AB-E899-43BF-91E6-D92F44456655	October 13, 2004 11:15:07	345	Genial Bike Associates	277
A8ACF94D-2B05-4EF4-96EA-87B3466619C5	October 13, 2004 11:15:07	621	Running and Cycling Gear	283
8194868E-AF15-4EDC-8403-6C8F74754928	October 13, 2004 11:15:07	492	Basic Sports Equipment	276
B30CE5B4-BBFA-4A57-B5C2-EED1EF13E0BE	October 13, 2004 11:15:07	697	Brakes and Gears	276
F8BF1985-3C65-400F-BD46-92F88008F003	October 13, 2004 11:15:07	335	Scratch-Resistant Finishes Company	282
0484601B-6A04-41BF-9554-3EB22D5B4DC1	October 13, 2004 11:15:07	403	Affordable Sports Equipment	281
527D2334-C39D-49A8-901E-B1057F41BD73	October 13, 2004 11:15:07	315	Juvenile Sports Equipment	279
2F89E8DD-A3C3-4ED4-A604-4B3D45DD1BEA	October 13, 2004 11:15:07	254	Safe Cycles Shop	283
11FEDA31-15B8-4F08-9357-355371D4D928	October 13, 2004 11:15:07	88	Closest Bicycle Store	285

RECORD COUNT—ENABLING RECORD COUNT

The system displays the number of records available for the dataset.

Sm	arten anced Data Discovery				Welcome Shyam Ramar
Data	aset_From_Database		🗎 🖷 🗗 🛢		🦻 🕸 🖻 🖽 🧭
Result	t set 👻			60,919 records Last r	refreshed on October 13, 2018 15:21:37
YPE Q	T SALES_CUSTOMER_ROWGUID Q	SALES_CUSTOMER_MODIFIEDDATE Q	SALES_STORE_CUSTOMERIDQ	T SALES_STORE_NAME Q	BALES_STORE_SALESPERSO
	76E2E4C3-B1BA-4CB2-B410-A4D48BA886E5	October 13, 2004 11:15:07	63	Metro Bike Mart	279
	2D6BBC35-BC19-4CB4-A61B-46899D3A4237	October 13, 2004 11:15:07	169	Downtown Hotel	281
	147692E6-80FE-492F-97F6-51D9C5AA0C36	October 13, 2004 11:15:07	594	Casual Bicycle Store	275
	147692E6-80FE-492F-97F6-51D9C5AA0C36	October 13, 2004 11:15:07	594	Casual Bicycle Store	275
	359BB644-407D-4C24-AB98-E637AEE7C81E	October 13, 2004 11:15:07	62	Manufacturers Inc	279
	1548C6D6-55AE-42CC-813D-093D70330662	October 13, 2004 11:15:07	484	Educational Services	289
	98EA497E-45D0-4C54-821A-4FDD9A751095	October 13, 2004 11:15:07	221	Bike Dealers Association	281

RECORD COUNT—DISPLAYING THE TOTAL NUMBER OF RECORDS

3. If record count is disabled, the system displays a tooltip to enable record count when you hover the mouse pointer over the icon. Similarly, you can click the same icon to disable record count.

Advanced Data Discovery	Welcome Styam Ramani
Dataset_From_Database	Image: the second se
	60,919 records Last refreshed on October Disable record count

	T SALES_CUSTOMER_ROWGUID Q	SALES_CUSTOMER_MODIFIEDDATE Q	SALES_STORE_CUSTOMERID	T SALES_STORE_NAME Q	SALES_STORE_SALESPERS
7	6E2E4C3-B1BA-4CB2-B410-A4D48BA886E5	October 13, 2004 11:15:07	63	Metro Bike Mart	279
2	D6BBC35-BC19-4CB4-A61B-46899D3A4237	October 13, 2004 11:15:07	169	Downtown Hotel	281
1	47692E6-80FE-492F-97F6-51D9C5AA0C36	October 13, 2004 11:15:07	594	Casual Bicycle Store	275
1	47692E6-80FE-492F-97F6-51D9C5AA0C36	October 13, 2004 11:15:07	594	Casual Bicycle Store	275
3	59BB644-407D-4C24-AB98-E637AEE7C81E	October 13, 2004 11:15:07	62	Manufacturers Inc	279
1	548C6D6-55AE-42CC-813D-093D70330662	October 13, 2004 11:15:07	464	Educational Services	289
9	8EA497E-45D0-4C54-821A-4FDD9A751095	October 13, 2004 11:15:07	221	Bike Dealers Association	281
6	0552ADB-643C-461A-9DFD-57029760B59A	October 13, 2004 11:15:07	234	Eastside Sporting Goods	275
C	903D48A-5B03-472E-B802-8500A3C81305	October 13, 2004 11:15:07	650	Permanent Finish Products	281
5	475E9DD-98CA-4989-B7A2-3FC929BEEA12	October 13, 2004 11:15:07	148	Latest Sports Equipment	283
F	7FA597E-BE0A-4488-9101-A8CD272DBF47	October 13, 2004 11:15:07	514	Retail Mall	282
8	AB2C195-E95A-45DE-B0D1-02F13D20D0B0	October 13, 2004 11:15:07	640	Liquidation Sales	290
9	D1A7488-6CD7-4866-A0A4-DD3A8A850ED0	October 13, 2004 11:15:07	498	Top Sports Supply	282
E	C98B78E-3068-475A-8EAD-FBA537DDE9B9	October 13, 2004 11:15:07	399	Big Cycle Mall	277
A	6B62683-6B48-4B90-8618-01A36F459ECD	October 13, 2004 11:15:07	423	Bike Rims Company	279
1	31056AB-E899-43BF-91E6-D92F44456655	October 13, 2004 11:15:07	345	Genial Bike Associates	277
A	8ACF94D-2B05-4EF4-96EA-87B3466619C5	October 13, 2004 11:15:07	621	Running and Cycling Gear	283
8	194B68E-AF15-4EDC-B403-6C8F7475492B	October 13, 2004 11:15:07	492	Basic Sports Equipment	276
E	30CE584-88FA-4A57-85C2-EED1EF13E08E	October 13, 2004 11:15:07	697	Brakes and Gears	276
F	8BF1985-3C65-400F-BD46-92F88008F003	October 13, 2004 11:15:07	335	Scratch-Resistant Finishes Company	282
0	484601B-6A04-41BF-9554-3EB22D5B4DC1	October 13, 2004 11:15:07	403	Affordable Sports Equipment	281
5	27D2334-C39D-49A8-901E-B1057F41BD73	October 13, 2004 11:15:07	315	Juvenile Sports Equipment	279
2	F89E8DD-A3C3-4ED4-A604-4B3D45DD1BEA	October 13, 2004 11:15:07	254	Safe Cycles Shop	283
1	1FEDA31-15B6-4F08-9357-355371D4D928	October 13, 2004 11:15:07	88	Closest Bicycle Store	285

AUTO-SUGGESTIONS—DISABLING AUTO-SUGGESTIONS

Note:

If record count is enabled, the system displays a tooltip to disable record count when you hover the mouse pointer over the icon.

7.2.24 Enable or Disable Full Data Mode

You can enable full data mode to retrieve and display all the data of a dataset. You can also disable full data mode to work on limited data.

About this task

Use this task to enable or disable full data mode for a dataset.

Procedure

- 1. Open the dataset for which you want to enable or disable full data mode.
- 2. Click the full data mode icon on the toolbar to retrieve and display all the data for the dataset.

ৰ্	Smarten Advanced Data Discovery							Welcome S	hyam Ra	amani
F	lightData_201	6_S∨				I I O O	s 4	🕑 🎄 🗵 🖿	01	æ
Re	sult set 👻							refreshed on A Switch to fu		
	O DEP_YEAR Q	O DEP_QUARTER Q	O DEP_MONTH Q	D DEP_DAY_OF_MONTH Q	O DEP_HOUR Q	O DEP_DATE Q	🕑 ARR_YEAR Q	O ARR_QUARTER Q	<u></u> • A	RR_I
1	2016	Q2	6	9	19	June 09, 2016 19:00:00	2016	Q2	6	
2	2016	Q2	6	18	11	June 18, 2016 11:00:00	2016	Q2	6	
3	2016	Q3	8	14	9	August 14, 2016 09:00:00	2016	Q3	8	
4	2016	Q4	11	12	16	November 12, 2016 16:00:00	2016	Q4	11	
_	2016	Q3	8	19	16	August 19, 2016 16:00:00	2016	Q3	8	
5										
	2016	Q2	6	19	8	June 19, 2016 08:00:00	2016	Q2	6	
6	2016 2016		6	19 18	8	June 19, 2016 08:00:00 June 18, 2016 08:00:00	2016 2016	Q2 Q2	6 6	-

FULL DATA MODE-ENABLING FULL DATA MODE

Note:

If full data mode is disabled, the system displays a tooltip to enable full data mode when you hover the mouse pointer over the icon.

3. Similarly, you can click the same icon to disable full data mode.

٤	Advanced Data Discovery							Welcome S	ihyam Ramani
	FlightData_201	6_S∨				•	A 4	🥑 🎄 🖻 🖿	or «
	December 1						Last	refreshed Switch to samp	le data mode
	Result set 👻								
#	C DEP_YEARQ	C DEP_QUARTER Q	C DEP_MONTH Q	D DEP_DAY_OF_MONTHQ	C DEP_HOUR Q	O DEP_DATE Q	C ARR_YEAR Q	C ARR_QUARTER Q	O ARR
1	2016	Q2	6	9	19	June 09, 2016 19:00:00	2016	Q2	6 🔺
2	2016	Q2	6	18	11	June 18, 2016 11:00:00	2016	Q2	8
3	2016	Q3	8	14	9	August 14, 2016 09:00:00	2016	Q3	8
4	2016	Q4	11	12	16	November 12, 2016 16:00:00	2016	Q4	11
5	2016	Q3	8	19	16	August 19, 2016 16:00:00	2016	Q3	8
6	2016	Q2	6	19	8	June 19, 2016 08:00:00	2016	Q2	6
7	2016	Q2	6	18	8	June 18, 2016 08:00:00	2016	Q2	6
8	2016	Q3	9	26	16	September 26, 2016 16:00:00	2016	Q3	9

FULL DATA MODE-DISABLING FULL DATA MODE

Note:

If full data mode is enabled, the system displays a tooltip to disable full data mode when you hover the mouse pointer over the icon.

7.2.25 Viewing the Lineage Diagram

A diagram representation of all the actions performed by a user, a Lineage diagram helps users view the complete data flow and transformation steps in a single view.

Reference: Concept Manual > Lineage Diagram

About this task

Use this task to view the lineage diagram.

Procedure

- 1. Open the dataset for which you want to view the lineage diagram.
- 2. Click the lineage diagram icon on the toolbar to display the lineage diagram for the dataset.

FlightData_201	6_S∨				I I O O	≜ \ ∷	🕑 🎄 🗵 🖺	
						Las	t refreshed on April 13, 2018	8 23:35:31
Result set 👻								
O DEP_YEAR Q	O DEP_QUARTER Q	O DEP_MONTH Q	D DEP_DAY_OF_MONTH Q	O DEP_HOUR Q	O DEP_DATE Q	O ARR_YEAR Q	O ARR_QUARTER Q	O ARR
2016	Q2	6	9	19	June 09, 2016 19:00:00	2016	Q2	6
2016	Q2	6	18	11	June 18, 2016 11:00:00	2016	Q2	6
2016	Q3	8	14	9	August 14, 2016 09:00:00	2016	Q3	8
2016	Q4	11	12	16	November 12, 2016 16:00:00	2016	Q4	11
2016	Q3	8	19	16	August 19, 2016 16:00:00	2016	Q3	8
2016	Q2	6	19	8	June 19, 2016 08:00:00	2016	Q2	6
2016	Q2	6	18	8	June 18, 2016 08:00:00	2016	Q2	6
2016	Q3	9	26	16	September 26, 2016 16:00:00	2016	Q3	9
2016	Q3	7	19	9	July 19, 2016 09:00:00	2016	Q3	7
2016	Q1	1	3	5	January 03, 2016 05:00:00	2016	Q1	1
2016	Q1	1	3	5	January 03, 2016 05:00:00	2016	Q1	1

LINEAGE DIAGRAM—OPEN LINEAGE DIAGRAM

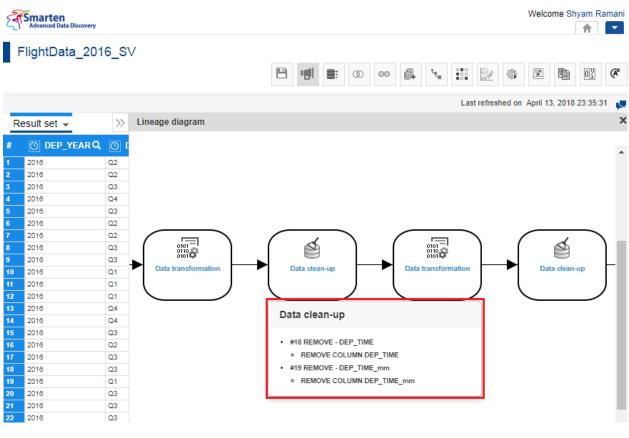
The system displays the lineage diagram in the Lineage diagram dialog box.

Advance	en Ed Data Discovery																		We	lcome S	hyam Ra	aman
Flight	Data_2016_S	SV .										8:	D	00	6	1		-	2	ħ		æ
																	Last ref	reshed o	n April 1	13, 2018	23:35:31	1 🕫
Result se	et 👻	\gg	Linea	ge diagi	ram																	>
# 🖸 D	EP_YEARQ, 💽	DEP_QUAF																				
2016	Q2																					
2016	Q2		- F																			71
2016	Q3																					
2016	Q4																					
2016	Q3																					
2016	02			\cap	0193.01	\sim	/							1		,						11
2016	Q2				0100 01 0100 01	()	- (8	110	1		(3	1	- (01	101		Ш
2016	Q3											.			-				Data tra		. –	
2016	Q3				Data Extraction	-	Data clean-u	ıp	-	Data tra	ansformat	ion			Data cle	an-up		-	Data tra	nstormat	ion	11
2016	Q1				inginibata_2010_0))					11
2016	Q1													\sim		_						Ш
2016	Q1																					Ш
2016	Q4																					11
2016	Q4		. L																			-1
2016 2016	Q3 Q2																					
2016	03																					
								_														•
			4																			•

LINEAGE DIAGRAM—VIEWING LINEAGE DIAGRAM

3. You can click the close icon in the Lineage diagram dialog box to close the dialog box.

The system displays information about actions being performed in a step when you hover the mouse pointer over that step.



LINEAGE DIAGRAM-VIEWING ACTION DETAILS FOR A STEP

7.2.26 Opening the Action Editor

Users can view all data-related actions performed on the dataset right from the extraction process to preparing analysis-ready data. Users can roll back the effects of actions by deleting and activating or inactivating the actions. Some actions can also be edited.

About this task

Use this task to view the action editor.

Procedure

- 1. Open the dataset for which you want to open the action editor.
- 2. Click the action editor icon on the toolbar to display the actions that are performed on the dataset.

4	Smarten Advanced Data Discovery							Welcome S	Shyam Ramar
F	lightData_201	6_SV				.	A 1.	<u>)</u>	
De	sult set 👻						Las	st refreshed on April 13, 2018	3 23:35:31 🕌
ree #		C DEP_QUARTERQ	O DEP_MONTH Q	D DEP_DAY_OF_MONTHQ	O DEP_HOUR Q	O DEP_DATE Q	O ARR_YEAR Q	O ARR_QUARTER Q	C ARR_I
	2016	Q2	6	9	19	June 09, 2016 19:00:00	2016	Q2	6 4
	2016	Q2	6	18	11	June 18, 2016 11:00:00	2016	Q2	8
	2016	Q3	8	14	9	August 14, 2016 09:00:00	2016	Q3	8
	2016	Q4	11	12	16	November 12, 2016 16:00:00	2016	Q4	11
	2016	Q3	8	19	16	August 19, 2016 16:00:00	2016	Q3	8
	2016	Q2	6	19	8	June 19, 2016 08:00:00	2016	Q2	6
	2016	Q2	6	18	8	June 18, 2016 08:00:00	2016	Q2	6
	2016	Q3	9	28	16	September 26, 2016 16:00:00	2016	Q3	9
	2016	Q3	7	19	9	July 19, 2016 09:00:00	2016	Q3	7
)	2016	Q1	1	3	5	January 03, 2016 05:00:00	2016	Q1	1
1	2016	Q1	1	3	5	January 03, 2016 05:00:00	2016	Q1	1
2	2016	Q1	3	26	11	March 28, 2016 11:00:00	2016	Q1	3

ACTION EDITOR—OPEN ACTION EDITOR

The system displays the actions performed on the dataset in the Action editor dialog box.

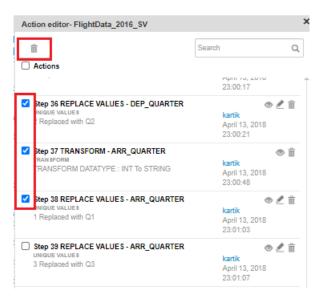
FlightData	_2016_SV					1 I	Ð	8:	Ø	00	4	t _{te}		30	₩.	1		01	(
													Last	refreshe	d on Jar	nuary 16	3. 2020	19:09:	58
lesult set 👻	FlightData_Nov_Dec	2016 Dataset Pred				>>	Act	tion eq	ditor-	Flight	Data_20	016 5							-
						111					_								
O DEP_Y	ear q 💿 dep_quart	Terq 💽 Dep_month	IQ D DEP_DAY_OF_MONTH Q	🛛 💽 DEP_HOUR	۹ 🖸	DEP_C									Search	1			C
2016	Q1	1	13	12	Janu	ary 13, 2	_												
2016	Q2	6	11	23	June	11, 2016	U	Action	1S										
2016	Q1	3	13	19	Marc	h 13, 201											0,201		
2016	Q1	1	30	15	Janu	ary 30, 2										23:00	17		
2016	Q2	4	5	17		05, 2016		Step 3	6 REI		VALUES	. DE		RTER				•	-
2016	Q3	7	17	12		17, 2016		UNIQUE								kartik		⊎≱	
2016	Q2	6	2	8		02, 2016	2 Replaced with Q2				3, 201	0							
2016	Q4	12	16	6		mber 16										23:00		0	
2016	Q4	10	27	12		ber 27, 2										23.00	21		
2016	Q1	3	24	20		h 24, 20		Step 3	7 TR/	NSFO	RM - AR	r Qu	ARTER					۲	由
2016	Q1	3	2	20		h 02, 20		TRAN SF								kartik			-
2016	Q3 Q3	8	8	14 23		zst 17, 20 08, 2016	TRANSFORM DATATYPE : INT To STRING					G		April 1	3, 201	8			
2016	03	1	23	23		os, 2016 ary 23, 2							23:00						
2016	02	4	4	22		ary 23, 2 04, 2016	2												
2016	Q2 Q4	4	4 20	13		o4, 2016 ember 20					VALUES	5 - AR	R_QUA	RTER				ے ک	Ô
2016	02	6	20	9		20. 2016		UNIQUE							kartik		ril 13, 2018		
2016	01	1	12	15		ary 12, 2		1 Repla	aced	with Q1						8			
2016	04	11	19	11		ember 19										23:01:	03		
2016	04	10	6	11		ber 06, 2		o						0750				- 4	-
2016	02	4	30	15		30, 2016		UNIQUE			VALUES	- AR	R_QUA	RIER				ے ک	
2016	01	1	13	8		ary 13, 2				with Q3						kartik			
2016	01	3	18	16	Marc	h 18, 201		o r cepa									3, 201	8	
2016	Q4	10	14	12	Octo	ber 14, 2										23:01:	07		
2016	Q3	8	24	20	Augu	rst 24, 20		Step 4			VALUES	. 48		DTED					-
2016	Q4	12	29	9	Dece	mber 29		UNIQUE			MEDE	- 11	- QOA	NI LIN		kartik		⊕ <u>≠</u>	
2016	Q2	6	29	17	June	29, 2016		4 Repla	aced	with Q4							3, 201	0	
2016	Q3	7	24	NULL	July	24, 2016										23:01:		0	
2016	Q4	11	20	15	Nove	mber 20										20.01	12		
2016	Q3	8	22	17	Augu	ist 22, 20					VALUES	5 - AR	R_QUA	RTER				01	宦
2016	Q4	11	7	17		mber 07		UNIQUE					-			kartik		-	and a
2016	02	A	0.4	٥	And	24.2016		2 Repla	aced	with Q2							3, 201	8	

ACTION EDITOR-VIEWING ACTION EDITOR DIALOG BOX

The Action editor dialog box lists the actions in the sequence they are performed on the dataset. For each action, you can view the operations being performed, creator of the action, time and date when the action was created, and options to activate, inactivate, edit, and delete the action. You can also use the search box to search for an action.

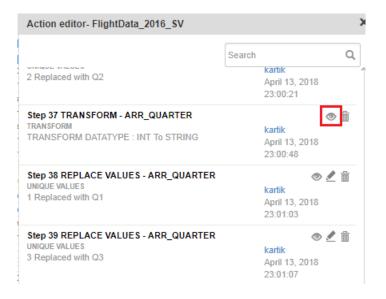
Note: The edit icon is displayed only for some actions, not for all actions.

3. You can select the check box adjacent to the actions you want to delete and click the Delete icon to delete multiple actions.



ACTION EDITOR - DELETE MULTIPLE ACTIONS

4. You can click the inactivate icon to deactivate the action.



ACTION EDITOR—DEACTIVATE AN ACTION

5. You can click the delete icon to delete the action.

Action editor- FlightData_2016_SV		>
2 Replaced with Q2	Search kartik April 13, 2018 23:00:21	Q
Step 37 TRANSFORM - ARR_QUARTER TRANSFORM TRANSFORM DATATYPE : INT To STRING	kartik April 13, 2018 23:00:48	a
Step 38 REPLACE VALUES - ARR_QUARTER UNIQUE VALUES 1 Replaced with Q1	kartik April 13, 2018 23:01:03	⊻ ⊞́
Step 39 REPLACE VALUES - ARR_QUARTER UNIQUE VALUES 3 Replaced with Q3	kartik April 13, 2018 23:01:07	⊻ ⊞́

ACTION EDITOR-DELETE AN ACTION

6. You can click the edit icon adjacent to the action you want to edit to modify operations for that action.

Action editor- FlightData_2016_SV		
2 Replaced with Q2	Search kartik April 13, 2018 23:00:21	Q
Step 37 TRANSFORM - ARR_QUARTER TRANSFORM TRANSFORM DATATYPE : INT To STRING	kartik April 13, 2018 23:00:48	1
Step 38 REPLACE VALUES - ARR_QUARTER UNIQUE VALUES 1 Replaced with Q1	kartik April 13, 2018 23:01:03	1
Step 39 REPLACE VALUES - ARR_QUARTER UNIQUE VALUES 3 Replaced with Q3	kartik April 13, 2018 23:01:07	1

ACTION EDITOR-MODIFY AN ACTION

The system displays the operation being performed in the action.

Unique values - ARR	_QUARTER	×
Full data values	Filtered data values	
VALUES		
Q1	C 1816603 🗸	
3	1455682	
4	1384513	
2	949267	
	4 Unique values from 5606065 rows	
CLOSE		

ACTION EDITOR-MODIFYING AN ACTION

In the image above, the action replaces the unique value "1" with "Q1." You can modify this action to replace the unique value "1" with any other value.

7. Click the OK icon to save the updated value for the action.

The system now replaces the unique value "1" in the example above with the updated value.

	Smarten Advanced Data Discovery					V	Velcome Shyam Rar	ma •
F	lightData_201	6 SV						
	· _	-			∞ ∞ 🖡	u 🔛 🎯		Q
						Last refreehed on A	pril 13, 2018 23:35:31	
						Last relieshed on A	piii 15, 2016 25.55.51	
R	esult set 👻							
	O DEP YEAR Q	O DEP QUARTERQ	O DEP MONTH Q	D DEP_DAY_OF_MONTH Q	O DEP HOUR Q	O DEP_DATE Q	C ARR_YEAR Q	l
	2016	Q2	6	9	19	June 09, 2016 19:00:00	2016	
	2016	Q2	6	18	11	June 18, 2016 11:00:00	2016	
	2016	Q3	8	14	9	August 14, 2016 09:00:00	2016	
	2016	Q4	11	12	16	•	2016	
	2016	Q3	8	19	16	August 19, 2016 16:00:00	2016	
	2016	Q2	6	19	8	June 19, 2016 08:00:00	2016	
	2016	Q2	6	18	8	June 18, 2016 08:00:00	2016	
	2016	Q3	9	26	16	September 26, 2016 16:00:00	2016	
	2016	Q3	7	19	9	July 19, 2016 09:00:00	2016	
	2016	Q1	1	3	5	January 03, 2016 05:00:00	2016	
	2016	Q1	1	3	5	January 03, 2016 05:00:00	2016	
	2016	Q1	3	26	11	March 26, 2016 11:00:00	2016	
	2016	Q4	12	5	5	December 05, 2016 05:00:00	2016	
	2016	Q4	10	13	14	October 13, 2016 14:00:00	2016	
	2016	Q3	7	23	14	July 23, 2016 14:00:00	2016	
	2016	Q2	6	9	16	June 09, 2016 16:00:00	2016	
	2016	Q3	9	19	10	September 19, 2016 10:00:00		
	2016	Q3	9	6	9	September 06, 2016 09:00:00	2016	

ACTION EDITOR-REPLACING A VALUE

The system also highlights actions in red that have encountered an error.

Action editor- FlightData_Nov_Dec_2016_Dataset_Pred			×
	Search		Q,
загра April 13, 2018 18:01:15			-
Step 22 REMOVE COLUMN(S) REMOVE REMOVE COLUMN Date Jaipa April 13, 2018 18:01:15		0	
Step 23 JOIN DATASET JOIN DATASET Result set - FlightData_Nov_Dec_2016_Dataset_Pred INNER JOIN WeatherData_2016_dataset_Pred : [ARR_DATEnul [DESTnullSiteId] Jalpa April 13, 2018 18:03:04	llDate],	ی ک	۵.
Step 24 RENAME COLUMN - Dest_SnowfallInches RENAME COLUMN Dest_SnowfallInches Renamed to Origin_SnowfallInches Jalpa April 13, 2018 18:04:04		0	
Step 25 RENAME COLUMN - PrecipitationPreviousHourInches Actions marked in red will not be processed as element(s) required to process this action were either edited of CLOSE	or deleted		- -

ACTION EDITOR—ACTIONS WITH ERROR

7.2.27 Processing the Outlier Values

Outliers are the observations lying outside the overall pattern of distribution.

This function allows users to identify outlier values in the data and replace or remove them from the dataset. Users can also download records detected as outliers in the form of a CSV file.

Note: Outliers are only applicable for numeric data type columns.

Reference: Concept Manual > Clean Data > Outliers

About this task

Use this task to view the outlier values.

Procedure

- 1. Open the dataset for which you want to view the outlier values.
- 2. Click the outliers icon on the toolbar.

Smarten Advanced Data D

Dataset_From_Database

畲 R **%** Þ 01

freshed on Octol

me Shyam Rai

-

Result set	-

	result set +				
#	SALES_CUSTOMER_CUSTOMERID	SALES_CUSTOMER_TERRITORYIDQ	T SALES_CUSTOMER_ACCOUNTNUMBER Q		T SALES_CUSTOMER_ROWGUI
1	63	5	AW00000063	s	76E2E4C3-B1BA-4CB2-B410-A4D48BA8 🔺
2	169	1	AW00000169	S	2D6BBC35-BC19-4CB4-A61B-46899D3A
3	594	2	AW00000594	S	147692E6-80FE-492F-97F6-51D9C5AAD
4	594	2	AW00000594	S	147692E6-80FE-492F-97F6-51D9C5AAD
5	62	5	AW00000062	S	359BB644-407D-4C24-AB98-E637AEE7(
6	484	8	AW00000464	S	1548C6D8-55AE-42CC-813D-093D70330
7	221	4	AW00000221	S	98EA497E-45D0-4C54-821A-4FDD9A75
8	234	2	AW00000234	S	60552ADB-643C-461A-9DFD-57029760E
9	650	1	AW00000650	S	D903D48A-5B03-472E-B802-8500A3C81
10	148	1	AW00000146	S	5475E9DD-98CA-4989-B7A2-3FC929BE
11	514	6	AW00000514	s	F7FA597E-BEDA-4488-9101-A8CD272DE

OUTLIER VALUES—OPENING THE OUTLIERS DIALOG BOX

The system displays the **Outliers** dialog box. All the columns with numeric data type available in the dataset are listed within the Available columns.

٩s	marten Advanced Data Discovery													vveico	me Sh	yam F	lam
Da	ataset_From_Database		8		Ð		Ø	00	4	τ_{η_0}			\$			01	(
											Last re	freshed	on Oct	ober 13,	2018 1	5:21:3	37
Res	sult set 👻				>>	Out	iers										
-																	
	SALES_CUSTOMER_CUSTOMERID Q	SALES_CUSTOMER_TERRITORYID	T SALES_CUSTON	MER_A	.000	Sele	ct colur	nns to	proces	s out	tliers						(
	33	5	AW00000063			Ava	ilable co	lumns			Sel	ected o	olumn	s			
	169	1	AW00000169													-	
1	594	2	AW00000594								0					0	
1	594	2	AW00000594			Sa	ales Cus	stomer	Custon	ne +							
	32	5	AW00000062				_	_	-								
	464	8	AW00000464				ales_Cus										
	221	4	AW00000221			Sa	ales_Stor	re_Cus	tomerIE) +							
	234	2	AW00000234			Sa	ales_Stor	re Sale	esPerso	ni +							
	350	1	AW00000650														
	148	1	AW00000146			58	ales_Sale	esOrde	rHeade	r_ +							
1	514	6	AW00000514			R	evisionN	umber		+							
(340	9	AW00000640			St	atus			+							
	496	6	AW00000496				las Cal	a Orda	d laada								
	399	4	AW00000399			58	ales_Sale	esOrde	rHeade	r_ +	-						
	423	5	AW00000423														
	345	4	AW00000345														
	321	1	AW00000621														
	492	4	AW00000492														
	397	1	AW00000697														
:	335	6	AW00000335														
•	403	4	AW00000403														
	315	5	AW00000315														
						A	PLY	CANO	CEL								

OUTLIER VALUES-THE OUTLIERS DIALOG BOX

3. Click the plus sign adjacent to the columns for which you want to view the outlier values from the Available columns section. You can select multiple columns.

Note:

If you have selected multiple columns, the system calculates outlier values for all columns separately.

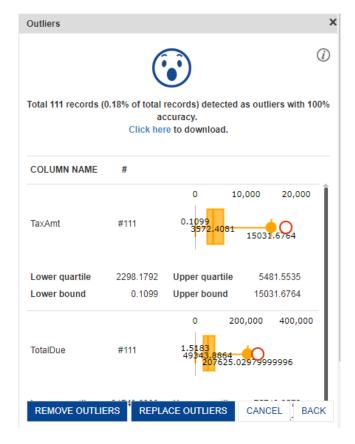
Outliers			×						
Select columns to process outliers									
Available columns Selected columns									
	(o c							
Sales_Customer_Custome	+	*							
Sales_Customer_Territoryl	+								
Sales_Store_CustomerID	+								
Sales_Store_SalesPersoni	+								
Sales_SalesOrderHeader_	+								
RevisionNumber	+								
Status	+								
Sales_SalesOrderHeader_	+	-							
APPLY CANCEL									

OUTLIER VALUES—AVAILABLE COLUMNS IN WHICH OUTLIER VALUES CAN BE FOUND

4. Click APPLY.

The system displays the number of records that have outlier values.

You can click the **Click here** option to download the records containing outlier values in a CSV file.



OUTLIER VALUES—OUTLIER VALUES DISPLAYED FOR THE SELECTED COLUMNS



Box plot is displayed with quartiles information to analyze the outlier values and patterns.



5. You can click **REMOVE OUTLIERS** to remove all records that contain outlier values from the dataset.

The system removes all records that contain outlier values after confirmation.

শ	Smarten Advanced Data Discovery	Confirmation								vve	icome s	Shyam	Ram
C	Dataset_From_Database	This action will remove all the you sure you want to continu	e records containing outlier values. / e?	Are 💿	00	4	ч.		<u>)</u>	<u></u>	ħ	01	0
		YES NO					L	ast refr	eshed on C	ctober 1	3, 2018	15:21	:37
Re	esult set 👻												
	SALES_CUSTOMER_CUSTOMERID Q, ■ SALES_CUSTOMERID Q, ■ SALES_	CUSTOMER_TERRITORYIDQ	T SALES_CUSTOMER_ACCO										G
	63 5		AW00000063				()				
	169 1		AW00000169					⋓					
	504 2		AW00000594										
	594 2		AW00000594	Total 111	record	s (0.18%			rds) detec	ted as o	outliers	s with	100
	62 5		AW00000082					accura	icy. download				
	464 8		AW00000464				CIICK II	ere to	uowiiioau				
	221 4		AW00000221										
	234 2		AW00000234	COLUM		E #							
	650 1		AW00000650	002011									
	146 1		AW00000146						0	10,00	0	20,00	0
	514 6		AW00000514										
	840 9		AW00000640	TaxAmt		#	11	0	0.1099 3572.40		-	\sim	
	498 6		AW00000496						3572.40	15	031.6	764	
	399 4		AW00000399										
	423 5		AW00000423										
	345 4		AW00000345	Lower q	uartile	22	98.1792	Up	per quarti	le	5481.	5535	
	621 1		AW00000621	Lower b	ound		0.1099	Up	per bound	i ·	15031.	6764	
	492 4		AW00000492										
	697 1		AW00000697						0	200,00	00 4	400,00	00
	335 6		AW00000335						1 🚥				
	403 4		AW00000403	TotalDue		#	11		1.518 <mark>3</mark> 49343.886		h		
							1		2076	25.0297	99999	96	
	w smarlen.com			REMO	/E OUT	LIERS	REP	LACE	OUTLIERS	C/	NCEL	в	AC

OUTLIER VALUES-REMOVE RECORDS WITH OUTLIER VALUES

6. You can click REPLACE OUTLIERS to replace the outlier values with the median values of all the records for the selected columns.

The system replaces all outlier values after confirmation.

Advanced Data Discovery		Confirmation	Welcome Shyam Ra
Dataset_From_	Database	This action will replace all the outlier values for selected column(s median value of the column. Are you sure you want to continue?	
			Last refreshed on October 13, 2018 15:21:37
Desult ant		YES NO	ers
Result set 👻			CI 3
SALES_CUST	OMER_CUSTOMERID 🤍 📧 SALES_CUST	OMER_TERRITORYID Q, T SALES_CUSTOMER_ACCOUNTNUM	
63	5	AW00000063	
169	1	AW00000169	
594	2	AW00000594	
594	2	AW00000594	Total 111 records (0.18% of total records) detected as outliers with 100%
62	5	AW00000082	accuracy. Click here to download.
464	8	AW00000484	Click here to download.
221	4	AW00000221	
234	2	AW00000234	COLUMN NAME #
650	1	AW00000850	
146	1	AW00000146	0 5,000 10,000 15,000 20,00
514	6	AW00000514	
2 640	9	AVV00000840	TaxAmt #111 0.1099
496	6	AVV00000496	15031.6764
399	4	AW00000399	
5 423	5	AW00000423	
345	4	AVV00000345	Lower quartile 2298.1792 Upper quartile 5481.5535
7 621	1	AW00000621	Lower bound 0.1099 Upper bound 15031.6764
492	4	AW00000492	
697	1	AW00000897	0 100,000 200,000 300,00
335	6	AW00000335	
403	4	AW00000403	TotalDue #111 1.5183
2 315	5	AW00000315	207625.029799999996
3 254	1	AW00000254	
88	10	AW00000088	
			Lower quartile 31743.6006 Upper quartile 75713.9579
			Lower bound 1.5183 Upper bound 207625.02979999
			REMOVE OUTLIERS REPLACE OUTLIERS CANCEL BACK
unu omorton com			REMOVE OUTLIERS REPLACE OUTLIERS CANCEL BACK

OUTLIER VALUES—REPLACE OUTLIER VALUES

7. You can click the close icon in the **Outliers** dialog box to close the dialog box.

7.2.28 Sampling the Data

Sampling is a statistical procedure that is concerned with the selection of a subset (a statistical sample) from within a statistical population. By studying the sample, we may fairly generalize our results back to the population from which they were chosen. This not only keeps the cost low but also allows analyzing the sample faster as compared with the entire population.

Smarten SSDP allows users to take a sample from a dataset using two types of sampling methods.

Smarten SSDP recommends the size of the sampling data, which can be changed by the users, who also have a choice to enter the number of records of a dataset to be considered as the sample size.

Reference: Concept Manual > Dataset > Sampling

7.2.28.1 Sampling—Simple Random Sampling

Simple random sampling is a method of sampling in which the selection is determined purely by chance, and every item has an equal chance of being selected. For example, in a lottery system, each member of the population is assigned a number after which the numbers are selected at random.

Shown below is the before and after scenario of "Sampling—Simple random sampling" for a dataset:

Before:

sult set 👻								480 records Last refreshed on June 08, 2018 14;
suit set 👻							>>	Sampling
								samping
💽 FLIGHTDATE 🔍		ROW_NUMBER Q		T FLIGHTNUMQ	TAILNUM Q		т	Select sampling method
January 16, 2015 00:00:00	20366	415	EV	5588	N148PQ	GSP	ATL	Simple random sampling (i)
January 05, 2015 00:00:00	19790	86	DL	1197	N549US	LAX	OGG	
January 04, 2015 00:00:00	20398	457	MQ	3277	N619MQ	GRR	ORD	 Stratified sampling
January 11, 2015 00:00:00	20398	472	MQ	3212	N820MQ	ORD	TYS	
January 30, 2015 00:00:00	20409	69	86	354	N665JB	PBI	JFK	
January 12, 2015 00:00:00	19393	153	WN	36	N298WN	BWI	TPA	
January 27, 2015 00:00:00	19790	355	DL	1084	N674DL	PHX	ATL	30% sample size has been recommended and it will result in 144 records in final
January 31, 2015 00:00:00	19977	284	UA	1721	N68805	SFO	KOA	sample
January 20, 2015 00:00:00	21171	125	VX	330	N633VA	SFO	LAX	
January 15, 2015 00:00:00	20355	162	US	2030	N944UW	JAX	PHL	Change sample size
January 11, 2015 00:00:00	19805	15	AA	1046	N4XGAA	MCI	DFW	
January 05, 2015 00:00:00	20366	385	EV	4721	N14959	BWI	ORD	30.0 % OR 0 144 records
January 19, 2015 00:00:00	20366	408	EV	5290	N850AS	ABY	ATL	© 30.0 % O 144 Pecolos
January 28, 2015 00:00:00	20366	393	EV	4999	N868AS	ATL	MOB	3
January 22, 2015 00:00:00	20409	65	B6	315	N368JB	SYR	JEK	
January 26, 2015 00:00:00	20366	376	EV	4470	N11184	IAH	MOB	3
January 30, 2015 00:00:00	19393	224	WN	3310	N957WN	MDW	ICT	
January 02, 2015 00:00:00	19977	319	UA	1170	N73406	EWR	FLL	
January 21, 2015 00:00:00	19393	192	WN	1070	N261WN	SNA	LAS	
January 01, 2015 00:00:00		25	AA	1482	N3DUAA	SFO	DFW	
January 08, 2015 00:00:00		141	WN	320	N414WN	BWI	MKE	
January 09, 2015 00:00:00		325	US	1970	N808AW	EWR	CLT	
January 29, 2015 00:00:00		297	UA	541	N568UA	JFK	SFO	

After:

Smarten Advanced Data Discovery																	ome adr
FlightData_Jan_201	15_Dataset							I ⊡	8:	Ð	∞ 🖡	$\tau_{\eta_{\rm m}}$		畲			01 0
											13	2 reco	rds Last re	efreshed	on June 0	8. 2018	14:18:4
tesult set 👻												_					
I FLIGHTDATE Q		ROW NUMBER Q					T DEST C	L TES I	DEPTIME	q I		γQ	IES ARRTI	MEQ		DELAY	Q Lu
January 01, 2015 00:00:00 198	05	0		1	N787AA	JEK	LAX	855			5.0		1237		.0		37
January 03, 2015 00:00:00 198		11	AA	1027	N3DYAA	BOS	DEW	919			5.0 8.0		1237		23.0		23
January 21, 2015 00:00:00 198		18	AA	1108	N3DJAA	DEW	LGA	850			0.0		1237		18.0		18
January 10, 2015 00:00:00 198		20	AA	1310	N503AA	DFW	CLE	911			6.0		1237		0.0		1
January 03, 2015 00:00:00 198		21	AA	1275	N5EXAA	JFK	STT	759			1.0		1237		18.0		16
January 13, 2015 00:00:00 198	05	23	AA	1418	N3GCAA	DFW	HDN	1128		1	1.0		1237		.0		1
January 01, 2015 00:00:00 198	05	25	AA	1482	N3DUAA	SFO	DFW	703			7.0		1237		3.0		1
January 30, 2015 00:00:00 198	05	27	AA	1083	N494AA	DFW	AUS	1145		4	5.0		1237	-	11.0		3
January 01, 2015 00:00:00 198	05	31	AA	1554	N3DEAA	DFW	SNA	1130		4	5.0		1237	-	13.0		1
January 17, 2015 00:00:00 198	05	33	AA	1584	N489AA	TUS	DFW	940		-1	7.0		1237	-	18.0		1
January 08, 2015 00:00:00 198	05	39	AA	2333	N3FUAA	TPA	DFW	1102		5	.0		1237	-	8.0		1
January 20, 2015 00:00:00 198	:05	40	AA	2333	N3JUAA	TPA	DFW	1053			4.0		1237	-	8.0		1
January 08, 2015 00:00:00 199	30	45	AS	75	N797AS	SEA	JNU	1119		9	.0		1237	-	15.0		1
January 09, 2015 00:00:00 199	30	47	AS	62	N516AS	SIT	KTN	1148		-	10.0		1237	-	13.0		3
January 13, 2015 00:00:00 199	30	50	AS	62	N788AS	SIT	KTN	1152		-4	8.0		1237	-	11.0		3
January 17, 2015 00:00:00 204	09	67	B6	223	N942JB	JFK	LAX	931		-4	9.0		1237		22.0		3
January 25, 2015 00:00:00 204	09	68	B6	271	N565JB	LGA	FLL	944		1	4.0		1237		4.0		1
January 30, 2015 00:00:00 204	09	69	B6	354	N665JB	PBI	JFK	957		2	4.0		1237	1	2.0		1
January 24, 2015 00:00:00 204	09	70	86	411	N834JB	JFK	LAS	953		-	4.0		1237	-	11.0		2
January 21, 2015 00:00:00 204	09	71	86	665	N621JB	BOS	RSW	910		-	5.0		1237		21.0		1
January 03, 2015 00:00:00 204	09	72	86	722	N641JB	PBI	BOS	949		-4	8.0		1237		14.0		1
January 28, 2015 00:00:00 204	09	73	RA	1334	N208 IB	911	MCO	1025		-	15.0		1237	-	11.0		1
January 05, 2015 00:00:00 197			Info						X	-4	2.0		1237	-	8.0		1
			Sampling applied or	the Dataset successf	ully												

SAMPLING—SIMPLE RANDOM SAMPLING

About this task

Use this task to perform random sampling on the data.

Procedure

- 1. Open the dataset on which you want to perform random sampling.
- 2. Click the sampling icon on the toolbar.

Smarten Advanced Data Discovery				Welcome Shyam Ram
Dataset_From_Database			•	2 * I I I (
			Last refr	eshed on October 13, 2018 15:21:37
tesult set 👻				
B SALES_CUSTOMER_CUSTOMERID	SALES_CUSTOMER_TERRITORYIDQ	T SALES_CUSTOMER_ACCOUNTNUMBERQ		T SALES_CUSTOMER_ROWO
63	5	AW00000063	S	76E2E4C3-B1BA-4CB2-B410-A4D48BA
169	1	AW00000169	s	2D6BBC35-BC19-4CB4-A61B-46899D3
594	2	AW00000594	S	147692E6-80FE-492F-97F6-51D9C5AA
594	2	AW00000594	S	147692E8-80FE-492F-97F8-51D9C5AA
62	5	AW00000082	s	359BB844-407D-4C24-AB98-E637AEE
464	8	AW00000464	s	1548C6D6-55AE-42CC-813D-093D703
221	4	AW00000221	S	98EA497E-45D0-4C54-821A-4FDD9A7
234	2	AW00000234	S	60552ADB-643C-461A-9DFD-5702976
850	1	AW00000650	S	D903D48A-5B03-472E-B802-8500A3C
148	1	AW00000146	S	5475E9DD-98CA-4989-B7A2-3FC929E
514	6	AW00000514	S	F7FA597E-BEDA-4488-9101-A8CD272
640	9	AW00000640	S	8AB2C195-E95A-45DE-B0D1-02F13D2
496	6	AW00000496	S	9D1A7488-6CD7-4866-A0A4-DD3A8A8
399	4	AW00000399	S	BC98B78E-3068-475A-8EAD-FBA5370
423	5	AW00000423	S	A6B62683-6B48-4B90-8618-01A36F45
345	4	AW00000345	S	131056AB-E899-43BF-91E6-D92F4445
621	1	AW00000621	S	A8ACF94D-2B05-4EF4-96EA-87B3466
492	4	AW00000492	S	8194B68E-AF15-4EDC-B403-6C8F747
697	1	AW00000697	S	B30CE5B4-BBFA-4A57-B5C2-EED1EF
335	6	AW00000335	S	F8BF1985-3C65-400F-BD46-92F88008
403	4	AW00000403	S	0484601B-6A04-41BF-9554-3EB22D58
315	5	AW00000315	s	527D2334-C39D-49A8-901E-B1057E4

SAMPLING-CLICKING THE SAMPLING ICON

	ataset_From_Database		🗎 🖷 🗗	
				Last refreshed on October 13, 2018 15:21:37
les	sult set 👻		>>	Sampling
	B SALES_CUSTOMER_CUSTOMERID Q	SALES_CUSTOMER_TERRITORYID	T SALES_CUSTOMER_ACCO	C Select sampling method
l	53	5	AW00000063	
	169	1	AW00000169	Simple random sampling (j)
1	594	2	AW00000594	Stratified sampling (i)
1	594	2	AW00000594	
	82	5	AW00000062	
ŀ	464	8	AW00000464	30% sample size has been recommended and it will result in 18K
	221	4	AW00000221	records in final sample
1	234	2	AW00000234	
	850	1	AW00000850	Change sample size
	146	1	AW00000146	
1	514	6	AW00000514	30.0 % OR 18275 records 18275 record
	540	9	AW00000640	
	496	6	AW00000496	
1	399	4	AW00000399	
	423	5	AW00000423	
	345	4	AW00000345	
	821	1	AW00000621	
	492	4	AW00000492	
1	897	1	AW00000697	
_	335	6	AW00000335	
ŀ	403	4	AW00000403	
	31.5	5	AW00000315	

The system displays the Sampling dialog box.

SAMPLING—SAMPLING DIALOG BOX

- 3. Click the **Simple random sampling** option to perform random sampling on the data.
- 4. Select an option to specify the sample size as a percentage or number of records.

Select sampling method Image: Simple random sampling Image: Stratified sampling Image: Stratified sampling Image: Stratified sampling Image: Stratified sampling Image: Stratified sampling Image: Stratified sampling Image: Stratified sampling Image: Stratified sample Image: Stratified sample	amp	ling								
ecords in final sample	۲	Simpl	le rand	om san	npling	<i>()</i>				
ecords in final sample										
			-			:omme	nded an	d it wi	ill result	in 18K
● 30.0 % OR ○ 18275 records	Cha	nge s	ample	size						1
	۲	30.	0	%	OR	•	18275		records	

SAMPLING—SPECIFYING SAMPLE SIZE

5. Click APPLY.

7.2.28.2 Sampling—Stratified Sampling

Stratified random sampling is a method of sampling that involves the division of a population into smaller groups known as strata. In stratified random sampling, or stratification, the strata are formed based on members' shared attributes or characteristics. For example, subgroups of customers can be formed on the basis of any of their demographics, such as income group, region, and gender. A random sample from each of these subgroups is taken in proportion to the subgroup size relative to the population size, and these samples are then added to form a final stratified random sample. So, if the original dataset had a 1:3 ratio of males and females, the stratified random sample based on gender will also have a 1:3 ratio of males and females.

For example, let us take "CARRIER" as the class to create a sample from a dataset, and there are five subgroups within carriers, which are WN, DL, EV, AA, and UA. Smarten SSDP will take a random sample from each of these subgroups in proportion to the subgroup size relative to the dataset size.

Original data		
CARRIER	No of records	
WN	101	Total number of records in the dataset: 480
DL	71	Total number of records in the dataset: 480
EV	62	
AA	50	
UA	32	
	30% Sampling	
Sample data N	JL	
	\checkmark	
CARRIER	No of records (approx)	Total number of records in the sample (approx): 135
CARRIER WN	×	Total number of records in the sample (approx): 135
	No of records (approx)	Total number of records in the sample (approx): 135
WN	No of records (approx) 34	
WN DL	No of records (approx) 34 19	Shown below is the before and after scenario of
WN DL EV	No of records (approx) 34 19 17	

Before:

sult									
sult									480 records Last refreshed on June 08, 2018 14:18:
	set 👻							\gg	Sampling
	FLIGHTDATE Q	128 AIRLINEIDQ	ROW_NUMBER Q		T FLIGHTNUMQ			T	Select sampling method
Janu	ary 16, 2015 00:00:00	19805	17	AA	1238	N3LEAA	FLL	ORD	
Janu	ary 29, 2015 00:00:00	19805	0	AA	1079	N002AA	DFW	ELP	Simple random sampling
Janu	ary 16, 2015 00:00:00	19805	13	AA	1033	N855AA	MIA	BOS	Stratified sampling (i)
Janu	ary 28, 2015 00:00:00	19805	28	AA	1162	N018AA	ATL	MIA	
Janu	ary 01, 2015 00:00:00	19805	29	AA	1174	N481AA	RNO	DFW	
Janu	ary 08, 2015 00:00:00	19805	14	AA	1046	N555AA	MCI	DFW	Stratified sampling is done with respect to a particular class to come up with
Janu	ary 09, 2015 00:00:00	19805	30	AA	1175	N3EMAA	MIA	IAH	proportionate class counts in a sample. Please select the class
Janu	ary 16, 2015 00:00:00	19805	17	AA	1238	N3LEAA	FLL	ORD	CARRIER
Janu	ary 01, 2015 00:00:00	19805	31	AA	1554	N3DEAA	DFW	SNA	
Janu	ary 31, 2015 00:00:00	19805	7	AA	253	N5ESAA	LAX	OGG	
Janu	ary 11, 2015 00:00:00	19805	15	AA	1046	N4XGAA	MCI	DFW	
Janu	ary 26, 2015 00:00:00	19805	32	AA	1627	N503AA	DFW	FAT	30% sample size has been recommended and it will result in 144 records in final
Janu	ary 10, 2015 00:00:00	19805	3	AA	300	N472AA	TUS	ORD	sample
Janu	ary 17, 2015 00:00:00	19805	33	AA	1584	N489AA	TUS	DFW	
Janu	ary 14, 2015 00:00:00	19805	16	AA	1046	N4WPAA	MCI	DFW	Change sample size
Janu	ary 21, 2015 00:00:00	19805	34	AA	1584	N201AA	TUS	DFW	
Janu	ary 30, 2015 00:00:00	19805	27	AA	1083	N494AA	DFW	AUS	30.0 % OR 144 records
Janu	ary 27, 2015 00:00:00	19805	35	AA	1584	N468AA	TUS	DFW	30.0 % OR 0 144 records
Janu	ary 14, 2015 00:00:00	19805	8	AA	255	N788AA	JFK	LAX	
Janu	ary 16, 2015 00:00:00	19805	17	AA	1238	N3LEAA	FLL	ORD	
Janu	ary 03, 2015 00:00:00	19805	38	AA	1694	N3LTAA	MIA	LGA	
Janu	ary 03, 2015 00:00:00	19805	37	AA	1507	N3HEAA	SEA	DFW	
lani	ary 21, 2015 00:00:00		18	AA	1108	N3DJAA	DFW	LGA	
oune.									

After:

Smarten Advanced Data Discovery																Welco	
lightData_Jan_2	015_Dataset	1					8 4	I ⊡	8:	Ø	··· 🔒	$t_{\eta_{\rm m}}$		-	<u></u>		i (
											1	35 reco			on June	08, 2018	14:18:
esult set 👻																	
🕐 FLIGHTDATE 🔍		123 ROW_NUMBER Q		T FLIGHTNUMQ			T DEST C	L 123	DEPTIME	۹ (🖸 DEPDEI	AYQ	123 ARRT	IME Q	1.00 AR	RDELAY	A [
January 31, 2015 00:00:00	19805	7	AA	253	N5ESAA	LAX	OGG	858		-2	2.0		1237		-19.0		3
January 08, 2015 00:00:00	19805	14	AA	1046	N555AA	MCI	DFW	1101		-3	1.0		1237		-8.0		7
January 16, 2015 00:00:00	19805	17	AA	1238	N3LEAA	FLL	ORD	1024		-8	1.0		1237		-13.0		1
January 09, 2015 00:00:00	19805	19	AA	1110	N3CKAA	DFW	LGA	829		-1	.0		1237		-2.0		1
January 14, 2015 00:00:00	19805	8	AA	255	N788AA	JFK	LAX	954		-8	1.0		1237		-53.0		3
January 01, 2015 00:00:00	19805	25	AA	1482	N3DUAA	SFO	DFW	703		-7	0.1		1237		-3.0		1
January 23, 2015 00:00:00	19805	1	AA	25	N3JJAA	BOS	LAX	900		0.	0		1237	1	0.0		3
January 29, 2015 00:00:00	19805	28	AA	1482	N3HDAA	SFO	DFW	711		-4	1.0		1237		-3.0		1
January 03, 2015 00:00:00	19805	10	AA	1023	N474AA	DFW	AUS	1148		-4	i.0		1237		-13.0		3
January 17, 2015 00:00:00	19805	33	AA	1584	N489AA	TUS	DFW	940		-7	.0		1237		-18.0		1
January 12, 2015 00:00:00	19805	12	AA	1033	N858AA	MIA	BOS	927		-3	1.0		1237		-7.0		1
January 01, 2015 00:00:00	19805	0	AA	1	N787AA	JFK	LAX	855		-5	1.0		1237		7.0		3
January 05, 2015 00:00:00	19805	2	AA	300	N590AA	TUS	ORD	811		-4	i.0		1237		2.0		1
January 16, 2015 00:00:00	19805	17	AA	1238	N3LEAA	FLL	ORD	1024		-8	0.0		1237		-13.0		1
January 16, 2015 00:00:00	19805	13	AA	1033	N855AA	MIA	BOS	932		2	0		1237		-7.0		1
January 23, 2015 00:00:00	19805	1	AA	25	N3JJAA	BOS	LAX	900		0.	0		1237	1	0.0		3
January 11, 2015 00:00:00	19930	52	AS	422	N791AS	SEA	LAX	953		-7	.0		1237		-7.0		1
January 20, 2015 00:00:00	19930	62	AS	835	N589AS	SJC	KOA	921		-1	4.0		1237		-35.0		2
January 07, 2015 00:00:00	20409	64	86	306	N507JB	FLL	EWR	955		0.	0		1237		-8.0		1
January 03, 2015 00:00:00	20409	72	86	722	N641JB	PBI	BOS	949		-8	0.1		1237		-14.0		1
January 22, 2015 00:00:00	20409	65	86	315	N368JB	SYR	JFK	1125		-8	8.0		1237		-4.0		4
January 08, 2015 00:00:00	20409	344	86	1572	N649JB	FLL	LGA	947		1.	0		1237		7.0		1
January 05, 2015 00:00:00	20409	75	86	1468	N273JB	PBI	HPN	1006		-4	1.0		1237		-23.0		1
																	j,

SAMPLING—STRATIFIED SAMPLING

About this task

Use this task to perform stratified sampling on the data.

Procedure

- 1. Open the dataset on which you want to perform stratified sampling.
- 2. Click the sampling icon on the toolbar.

4	Advanced Data Discovery				Welcome Shyam Rama
D	ataset_From_Database			•) · · · · · · · · · · · · · · · · · · ·
				Last refre	shed on October 13, 2018 15:21:37
Re	sult set 👻				
			_		
	SALES_CUSTOMER_CUSTOMERID	SALES_CUSTOMER_TERRITORYIDQ	☐ SALES_CUSTOMER_ACCOUNTNUMBER Q		T SALES_CUSTOMER_ROWG
	63	5	AW00000083	S	76E2E4C3-B1BA-4CB2-B410-A4D48BA8
	169	1	AW00000169	S	2D6BBC35-BC19-4CB4-A61B-46899D3A
	594	2	AW00000594	S	147692E6-80FE-492F-97F6-51D9C5AAD
	594	2	AW00000594	S	147692E6-80FE-492F-97F6-51D9C5AAD
	62	5	AW00000082	s	359BB644-407D-4C24-AB98-E637AEE7(
	484	8	AW00000484	S	1548C6D6-55AE-42CC-813D-093D70330
	221	4	AW00000221	S	98EA497E-45D0-4C54-821A-4FDD9A75
	234	2	AW00000234	S	60552ADB-643C-461A-9DFD-57029760E
	650	1	AW00000850	S	D903D48A-5B03-472E-B802-8500A3C81
D	148	1	AW00000148	s	5475E9DD-98CA-4989-B7A2-3FC929BE
1	514	6	AW00000514	S	F7FA597E-BE0A-4488-9101-A8CD272DE
2	640	9	AW00000840	S	8AB2C195-E95A-45DE-B0D1-02F13D20
3	498	6	AW00000496	S	9D1A7488-6CD7-4866-A0A4-DD3A8A85
L	399	4	AW00000399	S	BC98B78E-3068-475A-8EAD-FBA537DD
5	423	5	AW00000423	S	A6B62683-6B48-4B90-8618-01A36F459E
6	345	4	AW00000345	S	131056AB-E899-43BF-91E6-D92F44456
7	621	1	AW00000621	s	A8ACF94D-2B05-4EF4-98EA-87B34868
;	492	4	AW00000492	S	8194B68E-AF15-4EDC-B403-6C8F74754
)	697	1	AW00000697	S	B30CE5B4-BBFA-4A57-B5C2-EED1EF13
)	335	6	AW00000335	S	F8BF1985-3C65-400F-BD46-92F88008F
1	403	4	AW00000403	S	0484601B-6A04-41BF-9554-3EB22D5B4
2	315	5	AW00000315	s	527D2334-C39D-49A8-901E-B1057E41B

SAMPLING-CLICKING THE SAMPLING ICON

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

Smarten															Welcome	Shyam	Ram
Smarten Advanced Data Di	iscovery																
Dataset_F	rom_Database					Ð I	8:	Ø	00	ē.	${\bf v}_{\rm e}$			\$	2	01	Q
												Lastrat	reched c	n Octob	er 13, 201	9 15-21	.27
						_						Lastre	resned d		er 15, 201	0 15.21	.57
Result set 👻					\gg	Samp	ling										
SALES_	_CUSTOMER_CUSTOMERID Q	SALES_CUSTOMER_TERRITORYID	T SALES_CUSTOMER_AC	COUNT	NUM	Folo	ot o or	nnling	, meth	od							
028		*	AW00000029								_						
484		10	AW00000484			\odot	Simple	e randi	om sar	mpling	i)					
579		3	AW00000579			 Stratified sampling Stratified sampling is done with respect to a particular class to come up 											
698		1	AW00000698														
530		5	AW00000530														
221		4	AW00000221			Stratified sampling is done with respect to a particular class to come up with proportionate class counts in a sample. Please select the class Select											
268		10	AW00000268														
309		4	AW00000309														1
614		7	AW00000614														
546		3	AW00000546			30% sample size has been recommended and it will result in 18K record											
634		9	AW00000634												rds i		
81		5	AW00000081			30% sample size has been recommended and it will result in 18K record final sample											
61		4	AW00000061			iniai sampie											
221		4	AW00000221			Cha	nge si	ample	size								
579		3	AW00000579														
438		1	AW00000438			۲	30.0)	%	C	R	0	18275	T.	cords		
575		2	AW00000575			_											
3		4	AW0000003														
198		10	AW00000198														
328		4	AW00000328														
540		2	AW00000540														
167		4	AW00000167														
233		2	AW00000233														
546		3	AW00000546														
202		4	4W00000203														
								~ ~ ~ ~	0.51								
						APP	CY I	CAN	ICEL								

SAMPLING—SAMPLING DIALOG BOX

- 3. Click the **Stratified sampling** option to perform stratified sampling on the data. The system displays the class list.
- 4. Select an option from the class list to specify the class based on which the sampling must be performed.

Sampling							>
Select sampling metho	pling	i					
Stratified sampling	i						
Stratified sampling is d	one wi	th res	pect to	a part	icular cla	ass to co	me
up with proportionate of class	lass co	ounts	in a sar	nple. F	Please se	elect the	
Select							
			ondod a		vill rocui		
records in final sample		:omm	ended a	ind it v	vill resul	t in 18K	
		.01111	1827		vill resul		
records in final sample Change sample size		.0000					
records in final sample Change sample size		.01111					
records in final sample Change sample size							
records in final sample Change sample size							
records in final sample Change sample size							

SAMPLING—SELECTING THE CLASS

5. Select an option to specify the sample size as a percentage or number of records.

ampling)											
Select	sampling	metho	d									
🔘 Sin	ple rando	m sam	pling	(i)								
Strain	atified sam	nolina	(i)									
			U									
	ed sampli in a samj	-				partio	cular cla	ss to cor	ne up with p	proportion	nate class	s
	UnitMeasu			oot the c	1400							
30% sa	mple size	has be	een rec	ommend	ed and	l it w	ill result	in 18K re	ecords in fir	nal sample	е	
										-		
Change	e sample	size										
				0.0								
	0.0	%		OR			18275		records			
۹ 3	0.0	%		OR			18275		records			
۹ 3	0.0	%		OR		•	18275		records			
۰ 3	0.0	%		UR			18275		records			
۰ 3	0.0	%		UR		•	18275		records			
۰ 3	0.0	%		UK		0	18275		records			
۰ 3	0.0	%		UK			18275		records			
۱	0.0	%		UR			18275		records			
۲	0.0	%		UR		•	18275		records			
• 3	0.0	%		UR		•[18275		records			
۲	0.0	%		UR		•	18275		records]		
• 3	0.0	%		UR		0	18275		records]		
	0.0		applied c			0	18275		records			
	ampling ha	s been a	applied o			•	18275		records			

SAMPLING—SPECIFYING SAMPLE SIZE

6. Click APPLY.

7.2.29 Adding the Dimension Map

The dimension hierarchy refers to the hierarchical levels of data within a dimension map. Dimension maps can be defined at the cube or dataset level and enable automatic drill down and drill up in front-end objects for users.



About this task

Use this task to add a dimension map.

Procedure

- 1. Open the dataset for which you want to add a dimension map.
- 2. Click the Dimension map icon on the toolbar.

2	Smarten Advanced Data Discovery				Welcome Shyam Ramani
	Dataset_From_Database			• 🔛 🕑 🐐 🛛	
				Last refreshed on Octob	er 13, 2018 15:21:37 🏾 🚛
R	esult set 👻				
#	SALES_CUSTOMER_CUSTOMERID ♀	B SALES_CUSTOMER_TERRITORYIDQ	T SALES_CUSTOMER_ACCOUNTNUMBERQ		T SALES_CUSTON
1	63	5	AW00000063	s	76E2E4C3-B1BA-4CB2 🔺
2	169	1	AW00000169	s	2D6BBC35-BC19-4CB4
3	594	2	AW00000594	S	147692E6-80FE-492F-{
4	594	2	AW00000594	S	147692E6-80FE-492F-{
5	62	5	AW00000062	s	359BB644-407D-4C24-
6	464	8	AW00000464	s	1548C6D8-55AE-42CC
7	221	4	AW00000221	s	98EA497E-45D0-4C54-
8	234	2	AW00000234	s	60552ADB-643C-461A-
9	650	1	AW00000650	s	D903D48A-5B03-472E-

DIMENSION MAP—OPENING THE DIMENSION MAPS DIALOG BOX

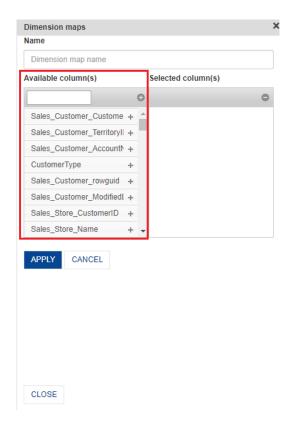
The system displays the **Dimension maps** dialog box.

Da	ataset_From_Database		🖹 🖷 🗗 🛢	E	Ø	00	6	$\tau_{\eta_{\rm m}}$		0g	錼		Ē	01	(
									Last re	freshed	on Oc	tober 1	3, 2018	15:21:3	37
Res	ult set 👻		>>	Di	men	sion n	naps								
[Bales_CUSTOMER_CUSTOMERIDQ		T SALES_CUSTOMER		0						Search				0
3	99	4	AW00000399								Searci				
4	23	5	AW00000423			NAME			NONE		REAT	ED		ATED	
3	345	4	AW00000345	1		MANE		NIVIC N 3	SIONS		ACAI	ED	UPL	AIED	,
e	321	1	AW00000621												
4	192	4	AW00000492												
e	197	1	AW00000697	I 1											
3	35	6	AW00000335	I 1											
4	103	4	AW00000403	I 1											
3	15	5	AW00000315	I 1											
2	254	1	AW00000254	I 1											
8	8	10	AW00000088	I 1											
4	182	8	AW00000482	I 1											
ŧ	549	5	AW00000549	I 1											
ŧ	52	10	AW00000052	I 1											
4	175	4	AW00000475	I 1											
3	28	1	AW00000326	I 1											
ŧ	29	4	AW00000529	I 1											
4	184	10	AW00000484	I 1											
,	579	3	AW00000579	I 1											
	98	1	AW00000698	I 1											
	100		AW00000530												
e	330	5	A110000000												
e e		5 4	AW00000221												
6 5 2	30														

DIMENSION MAP-THE DIMENSION MAPS DIALOG BOX

3. Click the Add icon to add a dimension map.

The system displays all the columns for which a dimension map can be added in the **Available column(s)** section.





4. Specify a name for the dimension map in the Name box.

Dimension maps			
Name			
Dimension map name			
Available column(s)		_	Selected column(s)
		0	0
Sales_Customer_Custome	+	*	
Sales_Customer_TerritoryII	+		
Sales_Customer_AccountN	+		
CustomerType	+		
Sales_Customer_rowguid	+		
Sales_Customer_Modified[+		
Sales_Store_CustomerID	+		
Sales_Store_Name	+	-	
APPLY CANCEL			
CLOSE			

DIMENSION MAP—SPECIFY A NAME FOR THE DIMENSION MAP

5. Click the plus sign adjacent to the columns for which you want to add a dimension map from the **Available column(s)** section, and then click **APPLY**.

7.2.29.1 **Editing a Dimension Map**

Smarten allows you to edit an existing dimension map. You can add or remove the columns that are used to create a dimension map.

About this task

Use this task to edit a dimension map.

Procedure

- 1. Open the dataset for which you want to edit a dimension map.
- 2. Click the Dimension map icon on the toolbar.

1	Marten Advanced Data Discovery				Welcome Shyam Raman
D	ataset_From_Database			4 III 🕑 🕸 🛛	• • • •
				Last refreshed on Octob	er 13, 2018 15:21:37 惧
Re	sult set 👻				
;	B SALES_CUSTOMER_CUSTOMERID Q	SALES_CUSTOMER_TERRITORYID	T SALES_CUSTOMER_ACCOUNTNUMBERQ		T SALES_CUSTO
	63	5	AW00000063	s	76E2E4C3-B1BA-4CB2
	169	1	AW00000169	S	2D6BBC35-BC19-4CB4
	594	2	AW00000594	S	147692E6-80FE-492F-€
	594	2	AW00000594	S	147692E6-80FE-492F-{
	82	5	AW00000082	S	359BB644-407D-4C24-
	464	8	AW00000464	S	1548C6D8-55AE-42CC
	221	4	AW00000221	S	98EA497E-45D0-4C54-
	234	2	AW00000234	S	60552ADB-643C-461A-

DIMENSION MAP-OPENING THE DIMENSION MAPS DIALOG BOX

Advanced Data Discovery Dataset_From_Database • • • • • • • • • • • • 8 🖷 Ð Last refreshed on October 13, 2018 15:21:37 sult set 👻 Q, Page 1 of 1 1 👻 0 CREATED NAM DIMENSIONS UPDATED 154 98E Sa Sales_Q2 Sa CLOSE www.smarten.com

The system displays the **Dimension maps** dialog box.

DIMENSION MAP-THE DIMENSION MAPS DIALOG BOX.

3. Select the dimension map you want to edit, and then click the Edit icon.

• -

Name 🔺

æ

Dimension maps		
0 🗹	Î	Page 1 of 1 1 - Name - Search Q
NAME	DIMENSIONS	CREATED UPDATED
☑ Sales_Q1	CustomerType, Sales_Store_Customer ID, Sales_Store_Name, Sales_Store_SalesPers onID, Demographics	ShyamR ShyamR December 15, 2018 13:55:12December 15, 2018 14:08:13
Sales_Q2	Sales_Store_Customer ID, Sales_Store_Name, Sales_Store_SalesPers onID, Demographics	ShyamR ShyamR December 15, 2018 14:06:41December 15, 2018 14:06:41
Sales_Q3	Sales_Customer_rowg uid, Sales_Customer_Modif iedDate,	ShyamR ShyamR December 15, 2018 14:08:33December 15, 2018 14:08:33
CLOSE	DIMENSION MAP—ED	ITING A DIMENSION MAP

4. Click CLOSE.

7.2.29.2 Deleting a Dimension Map

You can delete an existing dimension map.

About this task

Use this task to delete an existing dimension map.

Procedure

- 1. Open the dataset for which you want to edit a dimension map.
- 2. Click the Dimension map icon on the toolbar.

ব্	Smarten Advanced Data Discovery				Welcome Shyam Ramani
	ataset_From_Database			4 III 🕑 🏟 🛛	e or «
				Last refreshed on Octob	er 13, 2018 15:21:37 🛛 🕵
Re	esult set 👻				
#	■ SALES_CUSTOMER_CUSTOMERID Q	B SALES_CUSTOMER_TERRITORYIDQ	T SALES_CUSTOMER_ACCOUNTNUMBERQ		T SALES_CUSTON
	63	5	AW00000063	s	76E2E4C3-B1BA-4CB2 A
2	169	1	AW00000169	s	2D6BBC35-BC19-4CB4
3	594	2	AW00000594	S	147692E6-80FE-492F-6
4	594	2	AW00000594	S	147692E6-80FE-492F-6
5	62	5	AW00000062	s	359BB644-407D-4C24-
6	464	8	AW00000464	s	1548C6D6-55AE-42CC
7	221	4	AW00000221	S	98EA497E-45D0-4C54-
8	234	2	AW00000234	s	60552ADB-643C-461A-
0	650	4	AW00000650	s	D903D48A-5B03-472E-

DIMENSION MAP-OPENING THE DIMENSION MAPS DIALOG BOX

The system displays the **Dimension maps** dialog box.

Dataset_From_Data	base						u 🗗 🗗 🗊 👓	6	${}^{t}t_{0}$		\$ X	睧	$[0]_1^{\circ}$
										ast refreshed	on October	13, 201	8 15:21:
esult set 👻				>>	Dime	nsion maps	i						
		YID Q, T SALES_CUSTOMER_ACCOUNTNUMB											
					0		Search		Q P	age 1 of 1	1 -	N	lame 🔺
63	6	AW00000063	S	76E2E	_								
169	1	AW00000169	s	2D688		NAME	DIMENSIONS	CRE	ATED		UPDATE	n	
594	2	AW00000594	S	147693		in the second	DIMENSION	0.112			or branc		
594	2	AW00000594	S	147693									
62	5	AW00000082	s	359BB			CustomerType,						
484	8	AW00000464	S	1548C		Sales Q1	Sales_Store_Customer				ShyamR		
221	4	AW00000221	s	98EA4		ourco_ar	D, Sales_Store_Name,		ember 15	5, 2018 13:55	:12 Decembe	r 15, 20	18 14:08
234	2	AW00000234	S	60552/			Sales_Store_SalesPers	5					
650	1	AW00000650	s	De03D			onID, Demographics						
148	1	AW00000146	s	5475E									
514	0	AW00000514	S	F7FA5			Sales_Store_Customer	1					
640	0	AW00000640	S	SAB2C		Sales_Q2	D, Sales_Store_Name,	Snya			ShyamR		
496	6	AW00000498	s	9D1A7			Sales_Store_SalesPers	Dece	ember 15	5, 2018 14:06	:41 Decembe	r 15, 20	18 14:06
399	4	AW00000399	S	BC98E			onID, Demographics						
423	5	AW00000423	s	A6862									
345	4	AW00000345	s	131056									
621	1	AW00000621	S	ASACE			Sales_Customer_rowg						
492	4	AW00000492	s	8194B			uid,	Shya	amR		ShyamR		
697	1	AW00000697	s	B30CE		Sales_Q3	Sales_Customer_Modif edDate.			5, 2018 14:08	:33 Decembe	r 15, 20	18 14:08
335	6	AW00000335	S	F8BF1			eubate,						
403	4	AW00000403	S	048460									
315	5	AW00000315	S	527D2									
254	1	AW00000254	S	2F89E									
88	10	AW00000088	S	11FED									
482	8	AW00000482	S	EEBØF									
549	5	AW00000549	S	C15A7									
52	10	AW00000052	S	8FB34									
475	4	AW00000475	S	14CA3									
328	1	AW00000328	S	81C81									
600	4	4W0000520	e	78435									

DIMENSION MAP-THE DIMENSION MAPS DIALOG BOX.

3. Select the dimension map you want to delete, and then click the Delete icon.

•	Ĩ	Page 1 of 1	1 → Name ▲
NAME	DIMENSIONS	CREATED	Search Q UPDATED
✓ Sales_Q1	CustomerType, Sales_Store_Customer ID, Sales_Store_Name, Sales_Store_SalesPers onID, Demographics	ShyamR December 15, 2018 13:55	ShyamR :12December 15, 2018 14:08:13
Sales_Q2	Sales_Store_Customer ID, Sales_Store_Name, Sales_Store_SalesPers onID, Demographics	ShyamR December 15, 2018 14:06	ShyamR :41December 15, 2018 14:06:41
Sales_Q3	Sales_Customer_rowg uid, Sales_Customer_Modif iedDate,	ShyamR December 15, 2018 14:08	ShyamR :33December 15, 2018 14:08:33
CLOSE	DIMENSION MAD-DEL		

- DIMENSION MAP—DELETING A DIMENSION MAP
- 4. Click CLOSE.

7.2.30 Adding a Dataset

You can add other datasets to the current dataset view. Users can use these datasets to perform blend operations, such as Append and JOIN. These datasets are in read-only mode, and users can view or explore data of these datasets.

About this task

Use this task to add a dataset.

Procedure

- 1. Open the dataset for which you want to add a dataset.
- 2. Click the Add dataset icon on the toolbar.

4		arten		overy																			Welco	ome S	Shyam F	Rama
D	ata	aset	Fr	om	Dat	abas	е												_							
			-											Đ		Ø	00	ŝ.	ч.			寧		Ē		æ
																							L	ast ref	freshed o	on
Re	sult	t set -	*																							
Re			_	TUSTO	OMER	CUST	OMER	un Q	123	SALES	CUST	OMER	TERRI	TORY	un Q	F	SALE	s cus	TOME	RAC	COUNT	NUM		F	CUST	OME
Re	123		_	CUSTO	DMER	_CUST	OMER	ND Q		SALES	_CUST	OMER	_TERRI	TORY	'ID Q				томе	R_AC	COUNT	NUME	BER Q		CUST	DME
Re	123 63	SALI	_	CUSTO	DMER	_CUST	OMER	RID Q	123	SALES	_CUST	OMER	_TERRI	TORY	'ID Q	AWD	000063	3	TOME	R_AC	COUNT	NUME	3ER Q	s	CUSTO	DME
Re	123 63 169	SALI	_	CUSTO	DMER	_CUST	OMER	RID Q	5 1	SALES	_CUST	OMER	_TERRI	TORY	'ID Q	AWO	000063	3 9	TOME	R_AC	COUNT	NUME	3ER Q	s	CUSTO	DME
Re	123 63 169 594	SALI	_	CUSTO	DMER	_CUST	OMER	RID Q	5 1 2	SALES	_CUST	OMER	_TERRI	TORY	'ID Q	AW00	0000063 0000169 0000594	3 9 4	TOME	R_AC	COUNT	NUME	BERQ	S S S	CUSTO	DME
Re	123 63 169 594 594	SALI	_	CUSTO	OMER	_CUST	OMER	ad Q	5 1 2 2	SALES	_CUST	OMER	_TERRI	TORY	'ID Q	AW00 AW00 AW00 AW00	0000063 0000169 0000594	3 Ð 4	TOME	R_AC	COUNT	NUME	BERQ	S S S S	CUSTO	DME
Re	123 63 169 594 594 62	SALI	_	CUSTO	DMER	CUST	OMER	ND Q	5 1 2 2 5	SALES	_CUST	OMER	_TERRI	TORY	'ID Q		0000063 0000169 0000594 0000594	3 9 4 4 2	TOME	R_AC	COUNT	NUME	BER Q	S S S S S	CUSTO	DME
Re	123 63 169 594 594	SALI	_	CUSTO	DMER	_CUST	OMER	ND Q	5 1 2 2	SALES	_CUST	OMER	_TERRI	TORY	AD Q I	AW00 AW00 AW00 AW00 AW00 AW00	0000063 0000169 0000594	3 9 4 4 2 4	TOME	R_AC	COUNT	NUME	BER Q	S S S S	CUSTO	DME

ADDING A DATASET-CLICKING THE ADD DATASET ICON

The system displays the Add dataset(s) dialog box.

Dataset_From_Dat		■ 0 ∞ ∰ ^t *	·· · · · · · · · · · · · · · · · · · ·
Result set 👻 >	Add dataset(s)		Last refreshed on
SALES_CUSTOMER			
63	Dataset Q		Dataset 🔺
169	-		
594	NAME	CREATED	UPDATED
62			
464	Age-Passthrough-ease-SpearmanCorrelatio	jalpa	jalpa
221		April 03, 2018 12:18:03	May 14, 2018 11:38:25
234		jalpa	jalpa
650	Age-Purchase Relationship-PearsonCorrelat	April 03, 2018 12:16:10	May 14, 2018 11:38:53
146			
514	Classification dataset	jalpa November 05, 2018 13:40:41	jalpa November 05, 2018 13:58:52
640		November 05, 2018 13:40:41	November 05, 2016 13.56.52
496	CO dataset	jalpa	jalpa
423	CO dataset	November 05, 2018 14:12:35	November 05, 2018 14:13:00
345		i=1	iele -
621	Copy_Gas pipeline dataset	jalpa November 22, 2018 10:24:56	jalpa November 22, 2018 10:25:55
492			
697	Credit card Dataset	jalpa	jalpa
335		July 26, 2018 19:42:01	July 26, 2018 19:42:32
403		Ritu Gupta	Ritu Gupta
315	CustomerPaymentDetails_old	October 05, 2018 15:16:13	October 11, 2018 13:51:36
254			
	Database From Database Query O	Shyam Ramani	Shyam Ramani

ADD A DATASET-ADD DATASET DIALOG BOX

3. Select the datasets you want to add, and then click **OK**.

)ata	set Q		Dataset 🔺
	NAME	CREATED	UPDATED
/	Age-Passthrough-ease-SpearmanCorrelatio	jalpa April 03, 2018 12:18:03	j alpa May 14, 2018 11:38:25
/	Age-Purchase Relationship-PearsonCorrelat	jalpa April 03, 2018 12:16:10	j alpa May 14, 2018 11:38:53
	Classification dataset	jalpa November 05, 2018 13:40:41	jalpa November 05, 2018 13:58:52
	CO dataset	jalpa November 05, 2018 14:12:35	jalpa November 05, 2018 14:13:00
	Copy_Gas pipeline dataset	jalpa November 22, 2018 10:24:56	jalpa November 22, 2018 10:25:55
	Credit card Dataset	jalpa July 26, 2018 19:42:01	jalpa July 26, 2018 19:42:32
	CustomerPaymentDetails_old	Ritu Gupta October 05, 2018 15:16:13	Ritu Gupta October 11, 2018 13:51:36
	Database From Database Query O	Shyam Ramani	Shyam Ramani

You can add one or more datasets to the current dataset.

ADD A DATASET—ADDING DATASETS

4. The added dataset is displayed adjacent to the current dataset.

শ্	Smarten Advanced Data Discovery				Welcome Shyam Ramani
	Dataset_From_Database				
		•	₽ .	*	× • • •
				Last refreshed on Octo	ober 13, 2018 15:21:37
Re	esult set 👻 Age-Passthrough-ease-Spe	armanCorrelation-Dataset	Age-Purchase Relatio	nship-PearsonCorrelation-Da	taset
#	SALES_CUSTOMER_CUSTOMERID	SALES_CUSTOMER_TERR	ITORYIDQ 📺 SALES	_CUSTOMER_ACCOUNTNUMBE	ERQ, 📺 CUSTOMERT
1	63	5	AW00000063		S 🔺
2	169	1	AW00000169		S
3	594	2	AW00000594		S
4	594	2	AW00000594		S
5	62	5	AW00000062		S
6	484	8	AW00000464		S
7	221	4	AW00000221		S
8	234	2	AW00000234		S

ADD A DATASET—ADDED DATASETS

The system highlights the added datasets in a different color from the current dataset.

5. You can click the dataset name to view data of that dataset.

Sm	Narten			Welcome Shyam Ramani
Dat	taset_From_Database			
) 🗈 💿 🗠 🚑 🖫 🔛	\$ E E OI C
			Last refreshed	l on October 13, 2018 15:21:37 💻
Resu	It set Age-Passthrough-ease-Sp	pearmanCorrelation-Dataset Age	-Purchase Relationship-PearsonCorrelation	n-Dataset 👻
#	E USER_ID	Q 📧 AGE	Q 📧 PURCHASE	٩
1	1004524	22	1379212	
2	1001069	26	2503980	
3	1000171	19	208924	
4	1003348	22	1119190	
5	1004251	17	456898	
6	1004860	15	194818	
7	1004671	21	1062229	
0	1004009	10	128207	

ADD A DATASET-VIEWING DATA OF AN ADDED DATASET

7.2.30.1 Removing an Added Dataset

You can remove a dataset added to another dataset.

About this task

Use this task to remove a dataset added to another dataset.

Procedure

- 1. Open the dataset from which you want to remove an added dataset.
- 2. Click the dataset you want to remove.

Advanced Data D	Discovery		Welco	ome Shyam Ramani
Dataset F	From_Database			
	-		∞ 🖡 ^t t _a 🔛 🖗 🗵	
			Last refreshed on October 1	3, 2018 15:21:37 🛛 🚛
Result set A	Age-Passthrough-ease-SpearmanCorrelatio	n-Dataset Age-Purchase Re	ationship-PearsonCorrelation-Dataset 👻	
# 12	user_id Q	IES AGE	Q 🖂 PURCHASE	٩
1 10	004524	22	1379212	
2 10	001069	26	2503980	
3 10	000171	19	208924	
4 10	003346	22	1119190	
5 10	004251	17	456898	
6 10	004860	15	194818	
7 10	004671	21	1062229	
0 10	000800	40	108207	

REMOVE A DATASET—SELECTING THE DATASET TO BE REMOVED

3. Click the Menu icon for the selected dataset, and then click Remove dataset.

Advanced Da	ta Discovery											Welco	me Sh	yam R	amani
Dataset	_From_Database														
_			l ₽		Ø	00	6	Ч.,			帝		Ē	$0^{\rm U}_{\rm l}$	æ
									Last re	freshed	on Oc	tober 13	3, 2018	15:21:3	37
Result set	Age-Passthrough-ease-SpearmanCorrelation	on-Dataset	Age-Pi	urchas	e Rela	ations	hip-Pe	earsoi	nCorre	elation	-Data	set 👻			
-			Manag	e columi	ns		-		_						0
#	🖽 USER_ID 🔍 🔍	123 AGE	Remov	e datase	et		PUR	CHASE							۹
1	1004524	22	Informa	ation			212								-
2	1001069	26				250	3980								
3	1000171	19				208	924								
4	1003346	22				111	9190								
5	1004251	17				456	898								
6	1004860	15				194	818								
7	1004671	21				106	2229								

REMOVE A DATASET — REMOVING A DATASET

The system removed the dataset after confirmation.

Advanced Da) ita Discovery	🛗 Delete			Welcome Shyam Rama
Dataset	_From_Database	Are you sure you want to ren	nove Dataset?		E I I I I I I I I I I I I I I I I I I I
Result set	Age-Passthrough-ease-S	pearmanCorrelation-Datase	t Age-Purchase Relati	onship-PearsonCorre	elation-Dataset 👻
#	E USER_ID	Q 123 AGE	٩	PURCHASE	Q
1	1004524	22		1379212	
2	1001069	26		2503980	
3	1000171	19		208924	
4	1003348	22		1119190	
5	1004251	17		456898	
6	1004860	15		194818	
7	1004871	21		1062229	
8	1004008	19		126397	

REMOVE A DATASET—CONFIRMATION TO REMOVE A DATASET

7.2.31 Blending Data

Users can blend data from two or more datasets based on common fields between them. Assisted by the auto-suggestions and recommendations by Smarten SSDP, users are able to blend the data quickly, efficiently, and without any formal knowledge of SQL or scripting.

7.2.31.1 Blending Data—Append Operation

Using this functionality, users can append datasets with the help of auto-match column suggestions provided by Smarten SSDP. Users are also able to create a copy of resultset before applying the blend operation.

Reference: Concept Manual > Blend Data > Append

About this task

Use this task to append a dataset.

Procedure

1. Open the dataset you want to append with another dataset.

Note:

You must add datasets that you want to use before performing the blend operation.

2. Click the Blend - append icon on the toolbar.

শ্	Smarten Advanced Data Discovery				Welcome	Shyam Ramani
F	lightData_201	6_S∨			· · · ·	
Re	esult set 👻 Flight	tData_Nov_Dec_2016	_Dataset_Pred	Last ref	reshed on April 13, 20	8 23:35:31 🗖
#	O DEP_YEARQ	O DEP_QUARTER Q	C DEP_MONTH Q	D DEP_DAY_OF_MONTH Q	O DEP_HOURQ	O DEP_DAT
1	2016	Q2	6	9	19	June 09, 2016 🔺
2	2016	Q2	6	18	11	June 18, 2016
3	2016	Q3	8	14	9	August 14, 20
4	2016	Q4	11	12	16	November 12

BLEND APPEND—OPENING THE BLEND - APPEND DIALOG BOX

ব্	Smarten Advanced Data Discovery		Welcome Shyam Ramani
F	lightData_201	6	SV
			P II = 0 00 fr 1: 22 fr 22 fr 0: «
			Last refreshed on April 13, 2018 23:35:31
De	sult set 🚽 Flig 🕽		Blend - append
Re	esult set 👻 Flig	~	biend - append
#	O DEP_YEARQ	K	Select dataset
1	2016	a	Result set - FlightData_2016_SV
2	2016	Q	
3	2016	a	00
4	2016	Q	
5	2016	Q	
6	2016	Q	Select dataset
7	2016	Q	
8	2016	Q	
9	2016	Q	
10	2016	Q	
11	2016	Q	
12	2016	Q	
13	2016	Q	
14	2016	Q	
15	2016	Q	
16	2016	a a	
17	2016		
18	2016	Q	
19	2016	Q	
20	2016	Q	
21	2016	Q	
22	2016	Q	
23	2016	Q	
24	2016	Q	
25	2016	Q	
26	2016	Q	
4	00X8	^	
			Create a copy of resultset before applying blend operation as: Copy_FlightData_2016_SV
ww	w.smarten.com		APPLY CANCEL

The system displays the **Blend - append** dialog box.

BLEND APPEND—THE BLEND - APPEND DIALOG BOX

3. Select the dataset you want to append to the current dataset from the Select dataset list.

Note:

The datasets available in the list are the datasets you have added to the current dataset. If you have not added any datasets to the current dataset, no option will be available in the list.

	lightData_2016	 	U 1	(
		Last refreshed on April 13, 2018 23:	25.2	1
			35.5	1
Re	esult set 👻 Flig 📎	Blend - append		
1	O DEP_YEARQ	Select dataset		
		Result set - FlightData_2016_SV		
	2016 Q:	Result set - FlightData_2010_5V		
	2016 Q: 2016 Q:			
	2016 Q	00		
	2016 Q			
	2016 Q	FlightData_Nov_Dec_2016_Dataset_Pred		
	2016 Q			_
	2016 Q:	Selected matches	R	۰,
	2016 Q:	Result set - FlightData 2016 SV FlightData Nov Dec 2016 Dataset Pred		
D	2016 Q			
1	2016 Q	DEP_DATE (timestamp) 🔮 DEP_DATE (timestamp)		Ĩ
2	2016 Q			
3	2016 Q	UNIQUE_CARRIER (string) 🔍 UNIQUE_CARRIER (string)		1
4	2016 Q			1
5	2016 Q	DEP_DELAY (double) DEP_DELAY (double)		
6 7	2016 Q: 2016 Q:	ARR DELAY (double)		1
۰ 8	2016 Q			
。 9	2016 Q	AIR_TIME (double) 🔮 AIR_TIME (double)		Ì
0	2016 Q			-
1	2016 Q	DISTANCE (double) 🔍 DISTANCE (double)		Ī
2	2016 Q	ARR DATE (timestamp)		ī
3	2016 Q	ARR_DATE (timestamp)		
4	2016 Q			
5	2016 Q			
	2016 Q			
6	20148			

APPEND A DATASET—SELECT A DATASET THAT WILL BE APPENDED TO THE CURRENT DATASET

Selected match	les lightData_2016_SV	FlightData_Nov_Dec_2016_Dataset_Pred	¢ +
DEP_YEAR		Imagine dual_tor_bcc_zoro_bulasci_rred Imagine dual_tor_bcc_zoro_bulasci_rred Imagine dual_tor_bcc_zoro_bulasci_rred Imagine dual_tor_bcc_zoro_bulasci_rred Imagine dual_tor_bcc_zoro_bulasci_rred Imagine dual_tor_bcc_zoro_bulasci_rred Imagine dual_tor_bcc_zoro_bulasci_rred Imagine dual_tor_bcc_zoro_bulasci_rred Imagine dual_tor_bcc_zoro_bulasci_rred Imagine dual_tor_bcc_zoro_bccc_zoro_bcc_zoro_bcc_zoro_bcc_zoro_bcc_zoro_bcc_zor) ~×
	ARR_DELAY (double)	ARR_DELAY (double)	Ē
	AIR_TIME (double)	AIR_TIME (double)	Ē
	DISTANCE (double)	DISTANCE (double)	Ē
	ARR_DATE (timestamp)	ARR_DATE (timestamp)	Ē
	FLIGHT_COUNT (bigint)	SEL_NUM (int)	Ē
	ARR_YEAR (int)	9	Ē

The system automatically displays a list of columns with matching criteria.

APPEND A DATASET—LIST OF COLUMNS WITH MATCHING VALUES

The system displays a check mark highlighted with the following colors:

- **Green**: If the data type of the selected columns is the same. For example, in the above image, the AIR_TIME column from both datasets is of the double data type.
- Yellow: If the data type of the selected columns is similar. Similar data type refers to the data types that are not exactly same, but the data in both columns are similar. For example, number data type may be of Integer, Big Integer, Float, or Double. For example, in the image above, FLIGHT_COUNT and FL_NUM are of big integer and integer data type respectively and can be considered as similar data types. When the append operation is applied on similar data types, the system applies the upper data types casting among the data type of the selected columns on the appended columns. In the example above, the system will apply data type of FLIGHT_COUNT columns as big integer is upper data type than the integer data type.
- Red: If the data type of the selected columns do not match.
- 4. Apart from the automatically suggested column matches, the system allows you to add other matching columns having similar data type.

You can click the Add icon for column match from both the datasets to create another match criteria.

elect dataset esult set - FlightData_2016_SV		
FlightData_Nov_Dec_2016_Dataset_Pred		
elected matches		æ
Result set - FlightData_2016_SV	FlightData_Nov_Dec_2016_Dataset_Pred	
ARR_DELAY (double)	ARR_DELAY (double)	İ
AIR_TIME (double)	AIR_TIME (double)	Ē
DISTANCE (double)	DISTANCE (double)	Ē
ARR_DATE (timestamp)	ARR_DATE (timestamp)	Ē
FLIGHT_COUNT (bigint)	FL_NUM (int)	Ē
ARR_YEAR (int)	2	Ē
ARR_YEAR (int)	•	
Create a copy of resultset before applying ble	end operation as: Copy_FlightData_2016_SV	

APPEND A DATASET—SELECT COLUMNS FOR MATCH CRITERIA

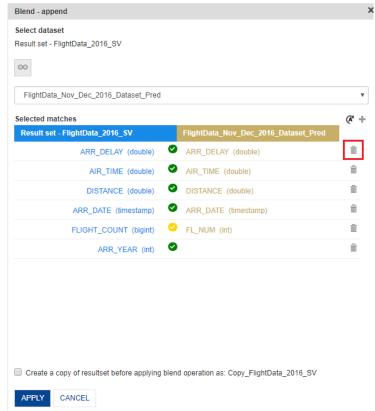
You can add column match criteria in which you select a column from only one dataset and do not select any column from another dataset. For such column match criteria, the system appends data of the selected column with null values. For example, in the image below,

ARR_YEAR is selected for FlightData_2016_SV dataset, but no column is selected for FlightData_Nov_Dec_2016_Dataset_Pred dataset. In this example, the system will append data of the ARR_YEAR column with null values.

FlightData_Nov_Dec_2016_Dataset_Pred		(A" -
Result set - FlightData_2016_SV	FlightData_Nov_Dec_2016_Dataset_Pred	
DEP_YEAR (int)	X UNIQUE_CARRIER (string) ▼] 🗸
ARR_DELAY (double)	ARR_DELAY (double)	
AIR_TIME (double)	AIR_TIME (double)	Ē
DISTANCE (double)	DISTANCE (double)	Ē
ARR_DATE (timestamp)	ARR_DATE (timestamp)	Ē
FLIGHT_COUNT (bigint)	PL_NUM (int)	Ē
ARR_YEAR (int)	9	÷

APPEND A DATASET-CRITERIA WITH A SINGLE COLUMN SELECTED

5. You can click the Delete icon adjacent to match criteria to delete that criteria.



APPEND A DATASET—DELETING MATCH CRITERIA

6. You can click the Auto icon to restore the auto-suggested matches. The system retains the new match criteria you added.

	lightData_2016	_SV	,
		Last refreshed on April 13, 2018 23:35:3	51
De	esult set	Blend - append	
	O DEP_YEARQ	Select dataset	
	2016 Q	Result set - FlightData_2016_SV	
	2016 Q		
	2016 Q	00	
	2016 Q		-
	2016 Q	Selected matches	t.
	2016 Q	Result set - FlightData 2016 SV FlightData Nov Dec 2016 Dataset Pred	-
	2016 Q		
	2016 Q	ARR_DELAY (double) 🔍 ARR_DELAY (double)	
	2016 Q		
	2016 Q	AIR_TIME (double)	
	2016 Q		
	2016 Q	DISTANCE (double) SISTANCE (double)	
	2016 Q	ARR_DATE (timestamp) ARR_DATE (timestamp)	
	2016 Q	(and Drift (anostany) - Ant_Drift (anostany)	
	2016 Q		
		Create a copy of resultset before applying blend operation as: Copy_FlightData_2016_SV	

APPEND A DATASET—RESTORING AUTO-SUGGESTED MATCHES

7. You can select the **Create a copy of the resultset before applying the blend operation** as an option to create a copy of the resultset before the append operation is performed.

The system creates a copy of the current dataset with the name displayed along the option. For example, in the image above, the system will create a copy of the current resultset with the name "Copy_Dataset_From_Database."

	(A
Result set - FlightData_2016_SV FlightData_Nov_Dec_2016_Dataset_Pre	-
ARR_DELAY (double)	Ť
AIR_TIME (double)	Í
DISTANCE (double) OISTANCE (double)	Í
ARR_DATE (timestamp)	Í
FLIGHT_COUNT (bigint) 🥝 FL_NUM (int)	Ť
ARR_YEAR (int)	Í

APPEND A DATASET—OPTION TO CREATE A COPY OF RESULTSET

If the Create a copy of resultset before applying the blend operation option is not selected, the system does not create a copy of the resultset and will append selected dataset data into the resultset.

8. Click **APPLY**.

The system updates the current dataset with the columns selected in the append criteria. The total number of records in the updated dataset is the combination of the rows available in the current dataset and the rows available in the added dataset. For example, if the Flight_Data_Jan dataset with 2,000 records is appended with the Flight_Data_Feb dataset, which has 2,500 records, the Flight_Data_Jan dataset after the append operation will have 4,500 records.

The system highlights the appended data with the color of the dataset it belongs to. In the example above, the system will highlight the 2,500 records in the resultset of Flight_Data_Jan with the color of the Flight_Data_Feb dataset.

Fli													
	ghtData_2016_S\	/			B			• 🖡 '-	***		Ē	01	0
								942,357 records	Last refreshed on	April 13	3, 2018 2	3:35:31	
les	ult set 👻 FlightData_	Nov_Dec_2016_Datas	et_P	red									
	O DEP_DATE Q	I ARR_DATE Q		UNIQUE_CARRIER Q	1.00	DEP_DELAY Q	1.00	ARR_DELAY Q	III AIR_TIME	L .00	DISTA	NCE C	2
59	June 08, 2016 07:00:00	June 08, 2016 08:00:00	AA		-6.0		-9.0		52.0	331.	J		
60	October 08, 2016 00:00:00	October 08, 2016 00:00:00	AA			NULL		NULL	NULL	2218	.0		
61	June 08, 2016 17:00:00	June 08, 2016 21:00:00	AA		-4.0		-25.0		130.0	1095	i. O		
62	January 08, 2016 08:00:00	January 08, 2016 09:00:00	AA		-4.0		4.0		41.0	168.	3		
63	January 08, 2016 08:00:00	January 08, 2016 09:00:00	AA		-4.0		4.0		41.0	168.	0		
64	January 08, 2016 15:00:00	January 08, 2016 16:00:00	AA		-8.0		-15.0		75.0	550.	3		
65	January 08, 2016 15:00:00	January 08, 2016 16:00:00	AA		-8.0		-15.0		75.0	550.	3		
66	March 08, 2016 18:00:00	March 08, 2016 20:00:00	AA		-8.0		-7.0		86.0	602.	3		
67	December 08, 2016 10:00:00	December 08, 2016 12:00:00	AA		-6.0		-20.0		64.0	460.	3		
68	January 08, 2016 10:00:00	January 08, 2016 11:00:00	AA		-5.0		-20.0		69.0	468.	3		
69	January 08, 2016 10:00:00	January 08, 2016 11:00:00	AA		-5.0		-20.0		69.0	468.	3		
70	July 08, 2016 13:00:00	July 08, 2016 17:00:00	AA		-5.0		-8.0		138.0	1032	4 .0		
71	November 20, 2016 19:00:00	November 20, 2016 21:00:00	WN		14.0		2.0		266.0	1946	i.0		
72	November 01, 2016 11:00:00	November 01, 2016 13:00:00	DL		-10.	D	-15.0		81.0	577.	3		
73	December 17, 2016 18:00:00	December 17, 2016 21:00:00	AA		-3.0		17.0		355.0	2370	í.O		
74	December 30, 2016 06:00:00	December 30, 2016 14:00:00	DL		-1.0		-20.0		229.0	2079	.0		
75	December 14, 2016 16:00:00	December 14, 2016 19:00:00	00		188	0	203.0		63.0	408.	3		
76	December 13, 2016 15:00:00	December 13, 2016 17:00:00	EV		5.0		-9.0		31.0	147.	3		
77	November 21, 2016 10:00:00	November 21, 2016 11:00:00	WN		-5.0		-14.0		35.0	192.	3		
78	December 26, 2016 07:00:00	December 26, 2016 08:00:00	AA		-7.0		-16.0		34.0	204.	3		
79	November 25, 2016 16:00:00	November 25, 2016 19:00:00	DL		23.0		16.0		122.0	834.	3		
80	November 17, 2016 15:00:00	November 17, 2016 18:00:00	AS		-4.0		11.0		158.0	1050	.0		
81	November 06, 2016 08:00:00	November 06, 2016 11:00:00	AA		-4.0		-4.0		103.0	759.	3		
82	November 07, 2016 17:00:00	November 07, 2016 21:00:00	WN		-4.0		-16.0		146.0	1237	.0		
83	November 29, 2016 16:00:00	November 29, 2016 17:00:00	WN		7.0		11.0		108.0	611.0	3		
84	December 19, 2016 00:00:00	December 18, 2016 01:00:00	WN		161.	0	151.0		91.0	547.	0		
85	December 06, 2016 22:00:00	December 06, 2016 22:00:00	WN		-5.0		-5.0		69.0	402.0	3		
86	November 10, 2016 10:00:00	November 10, 2016 12:00:00	WN		-4.0		-12.0		50.0	297.	3		
187	December 05. 2016 18:00:00	December 05, 2016 19:00:00	AA		-3.0		-14.0		55.0	331.	a		

APPEND A DATASET—COLOR HIGHLIGHT INDICATING WHICH DATASET THE RECORDS BELONG TO

Note: You cannot use the same dataset to append a dataset more than once.

7.2.31.2 Blending Data—Join Operation

Using this functionality, users can combine (JOIN) more than two datasets with the help of autosuggestion to identify possible JOINs and their relative value and strength. Users can also create a copy of the resultset before applying the blend operation. Different types of Joins are available, such as Left, Inner, Right, and Outer.

Reference: Concept Manual > Blend Data > Join

About this task

Use this task to join a dataset.

Procedure

1. Open the dataset you want to join with another dataset.

Note: You must add datasets that you want to use before performing the blend operation.

2. Click the Blend - join icon on the toolbar.

শ্	Smarten Advanced Data Discovery		Wei	come Shyam Ramani
	Dataset_From_Database		◎ 象 🐂 🔡 🖗 🗵	• • •
D	pultest Database From Database	01001 0	Last refreshed on October	13, 2018 15:21:37 🛛 🜉
#	esult set Database_From_Database		T SALES_CUSTOMER_ACCOUNTNUMBER Q	
1				
	63	5	AW00000063	S A
2	63 169	5	AW00000063 AW00000169	
2 3		5 1 2		S A
2 3 4	169	5 1 2 2	AW00000169	S A
2 3 4 5	189 594	5 1 2 2 5	AW00000189 AW00000594	S A

BLEND JOIN—OPENING THE BLEND - JOIN DIALOG BOX

The system displays the **Blend - JOIN** dialog box.

ৰ্	Smarten Advanced Data Discovery	Welcome Shyam Ramani
	ataset_From_Data	Dase
		💾 🕂 🖶 🕃 💿 ∞ 🚑 🐂 🔛 🏟 🖾 🖺 🖽 🏹
		Last refreshed on October 13, 2018 15:21:37
De	sult set 👻 Databas	Blend - JOIN
#	BALES_CUSTOMER_C	Select dataset
1	63	Result set - Dataset_From_Database
2	169	
3	594	
4	594	
5	62	Select dataset
6	464	
7	221	
8	234	
9	650	
10	146	
11	514	
12	640	
13	496	
14	399	
15	423	
16	345	
17	621	
18	492	
19 20	897 335	
20 21	403	
21	315	
	254	
•		Create a serve of requitest before applying bland exerction as: Cany, Dataset, Fram, Database
		Create a copy of resultset before applying blend operation as: Copy_Dataset_From_Database
ww	w.smarten.com	APPLY CANCEL

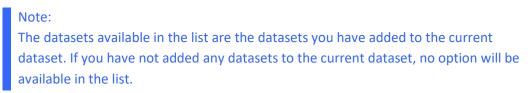
BLEND JOIN—THE BLEND - JOIN DIALOG BOX

- 3. Select the type of join you want to apply. The following options are available:
 - Equi: Select this option if you want to apply equijoin between the two datasets.
 - Left: Select this option if you want to apply left join between the two datasets.
 - **Right**: Select this option if you want to apply right join between the two datasets.
 - **Outer**: Select this option if you want to apply outer join between the two datasets.

Blend - JOIN	×
Select dataset	
Result set - FlightData_2016_SV	
Select dataset]
Create a copy of resultset before applying blend operation as: Copy_FlightData_2016_SV	
APPLY CANCEL	

JOIN A DATASET-SELECTING TYPE OF JOIN TO BE APPLIED

4. Select the dataset you want to join to the current dataset from the Select dataset list.



Blend - JOIN	×
Select dataset	
Result set - FlightData_2016_SV	
Select dataset	•
Create a copy of resultset before applying blend operation as: Copy_FlightData_2016_SV	
APPLY CANCEL	

JOIN A DATASET—SELECT A DATASET THAT WILL BE JOINED TO THE CURRENT DATASET

The system automatically displays a list of columns with matching criteria.

Flight_C	Dataset					*
elected 、	JOINs				Q	¥ +
	Result set - Fligh	ntData_2.		Flight_Dataset		
00 % * (UNIQUE_CARRIER	(str	=	UNIQUE_CARRIER (str		â
63 % *	DEP_DELAY (double)	=	DEP_DELAY (double)		<u>ش</u>
67 % *	ARR_DELAY (double)	=	ARR_DELAY (double)		â
80 % *	AIR_TIME (double)	=	AIR_TIME (double)		â
92 % *	DISTANCE (double)	=	DISTANCE (double)		â

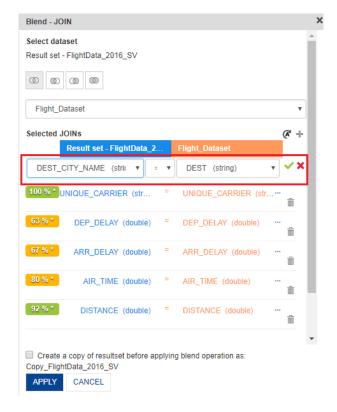
JOIN A DATASET-LIST OF COLUMNS WITH MATCHING VALUES

5. Apart from the automatically suggested column matches, the system allows you to add other matching columns.

You can click the Add icon for manually adding another JOIN criteria.

The following join conditions are available:

- = : Select this option if you want to apply equal to operation for the join condition.
- **!=** : Select this option if you want to apply not equal to operation for the join condition.
- <: Select this option if you want to apply less than operation for the join condition.
- <= : Select this option if you want to apply less than and equal to operation for the join condition.
- > : Select this option if you want to apply greater than operation for the join condition.
- >= : Select this option if you want to apply greater than and equal to operation for the join condition.



JOIN A DATASET-SELECT COLUMNS FOR MATCH CRITERIA

The system displays the JOIN strength as a percentage. The background of the percentage value is displayed in the following colors:

- **Green**: Indicates that more than 80% of records are identical between the two datasets.
- **Orange:** Indicates that more than 50% and less 80% of records are identical between the two datasets.
- **Red:** Indicates that less than 50% of records are identical between the two datasets.

Flight_Da				æ	-
	Result set - FlightData_2016.		Flight_Dataset	-	
100 % *	UNIQUE_CARRIER (string)	=	UNIQUE_CARRIER (string)	 Ô	
63 % *	DEP_DELAY (double)	=	DEP_DELAY (double)	 ŵ	
67 % *	ARR_DELAY (double)	=	ARR_DELAY (double)	 ŵ	
80 % *	AIR_TIME (double)	=	AIR_TIME (double)	 ŵ	
92 % *	DISTANCE (double)	=	DISTANCE (double)	 Ô	
0% *	DEP_QUARTER (string)	=	FL_NUM (int)	 Ê	

JOIN A DATASET-MATCHING RECORDS AS A PERCENTAGE

Note:

The "*" in the percentage value indicates that the value is calculated based on the sample data. Click the percentage value to calculate the actual percentage match for all the data.

elected J					(R" -
(00.0/ +	Result set - FlightData_2016.		Flight_Dataset	۰,	-
100 % *	UNIQUE_CARRIER (string)	=	UNIQUE_CARRIER (string)		Ê
63 % *	DEP_DELAY (double)	=	DEP_DELAY (double)		Ì
67 % *	ARR_DELAY (double)	=	ARR_DELAY (double)		Ī
80 % *	AIR_TIME (double)	=	AIR_TIME (double)		Ē
92 % *	DISTANCE (double)	=	DISTANCE (double)		ò
0% *	DEP_QUARTER (string)	=	FL_NUM (int)		ò

6. You can click the Delete icon adjacent to a join condition to delete that condition.

JOIN A DATASET-DELETING A JOIN CONDITION

7. You can click the Auto icon to restore the auto-suggested matches the system has provided.

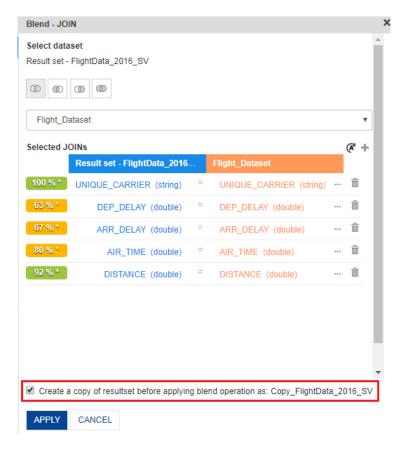
The system restores the auto-suggested matches while retaining the new match criteria you added.

1	lightData_2016	_3*	🕒 🖷 💼 oo ∞ 🚑 ५ 🏭 🔯 🏟 🗷	01	
			Last refreshed on April 13, 2018	3 23:35:	:31
Re	esult set 🚽 Flig 🛛	Blend - JOI	4		
	O DEP_YEAR Q	Select data:	set		
	2016	a: Result set - I	FlightData_2016_SV		
	2016	a:			
	2016	a o o	0 0		
	2016	Q.			
	2016	a:			_
	2016	a: FlightD	ata_Nov_Dec_2016_Dataset_Pred		۳
	2016	a:			_
	2016	a: Selected JC	INs	æ	÷
	2016	Q (Result set - FlightData_2016_SV FlightData_Nov_Dec_2016_Dataset		
	2016	Q.		i	
	2016	a' 100 % *	UNIQUE_CARRIER (string) = UNIQUE_CARRIER (string)]	ŵ
	2016	Q.			
	2016	a• 65 % *	DEP_DELAY (double) = DEP_DELAY (double)		ŵ
		Q4			
		ລ: 71 % *	ARR_DELAY (double) = ARR_DELAY (double)		İ
		a: 84 % *			ŵ
		ul.	AIR_TIME (double) = AIR_TIME (double)		UUU
		93 % *	DISTANCE (double) = DISTANCE (double)		ŵ
		Q.			100
		Q :			
		a :			
		Q :			
		Q (
		Q :			
		Q (
		Q.4			
	004P	<u>-</u>			

APPEND A DATASET—RESTORING AUTO-SUGGESTED MATCHES

8. Select the **Create a copy of the resultset before applying blend operation** as checkbox to create a copy of the resultset.

The system creates a copy of the current dataset with the name displayed along the option. For example, in the image above, the system will create a copy of the current resultset with the name "Copy_Dataset_From_Database."



JOIN A DATASET-OPTION TO CREATE A COPY OF RESULTSET

If the **Create a copy of resultset before applying blend operation** option is not selected, the system does not create a copy of the resultset and will join the selected dataset data into the resultset.

9. Click APPLY.

The system joins the current dataset with the data of the selected dataset based on the join condition. The system highlights the data of the joined columns with the color of the dataset they belong to. For example, for the AIR_TIME column in the image above, the data from FlightData_2016 will be highlighted in blue, whereas the data from Flight_Dataset will be highlighted.

Advanced Data Discov	ery				
FlightData_2	2016_SV				
				1 · · · · · · · · · · · · · · · · · · ·	
			412.33	2 records Last refreshed	on April 13, 2018 23:35:31
Result set 👻 🛛 F	lightData_Nov_De	ec_2016_Dataset_	Pred		
ARR_DELAY Q			O DEP_DATE_1 Q	O ARR_DATE_1 Q	T UNIQUE_CARRIER_1
13.0	84.0	592.0	November 10, 2016 06:00:00	November 10, 2016 07:00:00 E	36
13.0	84.0	592.0	November 24, 2016 19:00:00	November 24, 2016 22:00:00 A	AS
13.0	84.0	592.0	November 12, 2016 14:00:00	November 12, 2016 17:00:00 A	AS
13.0	84.0	592.0	December 30, 2016 18:00:00	December 30, 2016 19:00:00 E	EV
13.0	84.0	592.0	November 02, 2016 11:00:00	November 02, 2016 13:00:00	чк
13.0	84.0	592.0	November 02, 2016 13:00:00	November 02, 2016 22:00:00 A	AA .
13.0	84.0	592.0	November 16, 2016 15:00:00	November 16, 2016 19:00:00 A	NS
13.0	84.0	592.0	November 09, 2016 11:00:00	November 09, 2016 12:00:00 A	AS
13.0	84.0	592.0	December 01, 2016 10:00:00	December 01, 2016 11:00:00 E	EV
13.0	84.0	592.0	November 12, 2016 20:00:00	November 12, 2016 21:00:00 E	36
13.0	84.0	592.0	December 19, 2016 06:00:00	December 19, 2016 07:00:00 A	AS
13.0	84.0	592.0	November 01, 2016 13:00:00	November 01, 2016 15:00:00 E	EV
13.0	84.0	592.0	November 05, 2016 09:00:00	November 05, 2016 11:00:00	NK
13.0	84.0	592.0	November 15, 2016 14:00:00	November 15, 2016 16:00:00 A	AS
13.0	84.0	592.0	December 02, 2016 17:00:00	December 02, 2016 05:00:00 U	AL
13.0	84.0	592.0	December 30, 2016 23:00:00	December 30, 2016 02:00:00	NK
13.0	84.0	592.0	November 05, 2016 20:00:00	November 05, 2016 23:00:00 A	AS
13.0	84.0	592.0	December 03, 2016 07:00:00	December 03, 2016 09:00:00 F	9
13.0	84.0	592.0	December 17, 2016 17:00:00	December 17, 2016 19:00:00 A	AA
13.0	84.0	592.0	December 06, 2016 20:00:00	December 06, 2016 21:00:00 E	36
13.0	84.0	592.0	November 28, 2016 10:00:00	November 28, 2016 12:00:00	00
13.0	84.0	592.0	November 17, 2016 06:00:00	November 17, 2016 08:00:00	00
13.0	84.0	592.0	November 23, 2016 06:00:00	November 23, 2016 08:00:00	00
13.0	84.0	592.0	November 06, 2016 13:00:00	November 06, 2016 16:00:00 F	9
13.0	84.0	592.0	November 01, 2016 19:00:00	November 01, 2016 20:00:00	DL
13.0	84.0	592.0	November 13, 2016 10:00:00	November 13, 2016 11:00:00 A	AS

JOIN A DATASET—COLOR HIGHLIGHT INDICATING WHICH DATASET THE RECORD BELONGS TO

7.2.32 Aggregating Data of a Dataset

Aggregation allows you to aggregate and reduce the dataset by using various data operations on measure and date type columns.

Reference:	Concept Manual > Transform Data > Aggregate
------------	---

About this task

Use this task to aggregate and reduce data in a dataset.

Procedure

- 1. Open the dataset for which you want to aggregate and reduce data.
- 2. Click the Aggregate icon on the toolbar.

2	Smarten Advanced Data Discovery		Wei	come Shyam Ramani
[Dataset_From_Database		0 00 🚑 🐂 🔛 🕸 🗵	
				Last refreshed on 🛛 💻
R	esult set 👻			
#	■ SALES_CUSTOMER_CUSTOMERID Q	B SALES_CUSTOMER_TERRITORYIDQ	T SALES_CUSTOMER_ACCOUNTNUMBERQ	
1	63	5	AW00000063	S 🔺
2	169	1	AW00000169	S
3	594	2	AW00000594	S
4	594	2	AW00000594	S
5	62	5	AW00000062	S

AGGREGATE—OPENING THE AGGREGATE DIALOG BOX

Dataset_Fro	m_Database	₽ 🦷 🗗 🛢	: (1) (1)		\$ E	
					Last refresh	ed on
tesult set 👻	>> Aggregate Columns			Measure columns		
SALES_CU	STOMER_			Measure columns		
63	Search	Q		SubTotal	SUM	
169	Sales_Customer_CustomerID	<u> </u>				
594	Sales Customer TerritoryID	, 		TaxAmt	SUM	
594	Sales_SalesOrderHeader_Sa	llesOrderID				
62	RevisionNumber			Freight	SUM	
464	Status Sales SalesOrderHeader Cu	IstomerID				
221	ContactID	Stomenb		TotalDue	SUM	
234	Sales_SalesOrderHeader_Sa				301	
650	Sales_SalesOrderHeader_Te BillToAddressID	rritoryID		UnitPrice	SUM	
146	ShipToAddressID				301	
514	ShipMethodID			UnitPriceDiscount	SUM	
640	CreditCardID		\rightarrow		SUM	
496	CurrencyRateID Sales_SalesOrderDetail_Sale	orderID	+	LineTotal		
399	SalesOrderDetailD	soldenb			SUM	
423	OrderQty			StandardCost		
345	Sales_SalesOrderDetail_Proc SpecialOfferID	ductID		otanduraooot	SUM	
621	Production_Product_Product	D		ListPrice		
492	SafetyStockLevel	·		LISU NOS	SUM	
697	ReorderPoint			Weight		
335	DaysToManufacture ProductSubcategoryID			weight	SUM	
403	ProductSubcategoly15					
315	Sales_Customer_ModifiedDa	te				
254	Sales_Store_ModifiedDate OrderDate					
	DueDate	•				

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

AGGREGATE—THE AGGREGATE DIALOG BOX

The system displays all the measure columns and date type columns for which you can aggregate the data.

3. You can select a column from the Column section and then click the right arrow to add that column to the Measure columns section.

olumns		Measure columns	
Search	Q,	SubTotal	SUM
Sales_Customer_CustomerID Sales_Customer_TerritoryID	•	TaxAmt	SUM
Salos_SalosOrdorHeador_SalosOr RevisionNumber		Freight	SUM
Status Sales_SalesOrderHeader_Custom ContactID		TotalDue	SUM
Sales_SalesOrderHeader_SalesPe Sales_SalesOrderHeader_TerritoryID		UnitPrice	SUM
BillToAddressID ShipToAddressID		UnitPriceDiscount	SUM
ShipMethodID CreditCardID	l	LineTotal	SUM
CurrencyRateID Sales_SalesOrderDetail_SalesOrd		StandardCost	SUM
SalesOrderDetailID OrderQty		ListPrice	SUM
Sales_SalesOrderDetail_ProductID SpecialOfferID		Weight	SUM
Production_Product_ProductID SafetyStockLevel ReorderPoint			
DaysToManufacture	-		

AGGREGATE—ADDING COLUMNS TO THE MEASURE COLUMNS SECTION

4. Select an operation to be performed for the columns available in the **Measure column** section.

Reference: Concept Manual > Transform Data > Aggregate> Sum, Min, Max, Count, Average

The following options are available:

- **SUM**: This function returns the sum of the selected Measure columns for the aggregated row.
- **MIN**: This function returns the minimum value of the selected Measure column for the aggregated row.
- MAX: This function returns the maximum value of the selected Measure column for the aggregated row.
- COUNT: This function returns the count of the selected Measure column for the aggregated row.
- **AVERAGE**: This function returns the average value of the selected Measure column for the aggregated row.

Note:

The options available for columns in the Measure column section depend on the data type of the column. For example, only MIN, MAX, and COUNT options are available for the columns with date data type.

lumns		Measure columns	
earch	Q	SubTotal	SUM
Sales_Customer_CustomerID Sales Customer TerritoryID	*	TaxAmt	SUM
Sales_SalesOrderHeader_SalesOrderID			MIN
RevisionNumber Status		Freight	MAX
Sales_SalesOrderHeader_CustomerID ContactID Sales SalesOrderHeader SalesPersonID		TotalDue	COUNT AVERAGE
Sales_SalesOrderHeader_TerritoryID SillToAddressID ShipToAddressID		UnitPrice	SUM
ShipMethodID CreditCardID		UnitPriceDiscount	SUM
CurrencyRateID Sales_SalesOrderDetail_SalesOrderID SalesOrderDetailID		LineTotal	SUM
OrderQty Sales_SalesOrderDetail_ProductID SpecialOfferID		StandardCost	SUM
Production_Product_ProductID SafetyStockLevel		ListPrice	SUM
ReorderPoint DaysToManufacture ProductSubcategoryID		Weight	SUM
ProductModelID Sales_Customer_ModifiedDate Sales_Store_ModifiedDate OrderDate DueDate	•		

AGGREGATE—OPERATIONS TO AGGREGATE DATA

5. Click **APPLY**.

The system aggregates the data based on the options you have selected. The resultant dataset contains reduced data based on the granularity of the data available in the dataset.

7.2.33 Exporting a Dataset Data

You can export data of a dataset in CSV format. The exported CSV file contains entire or limited data based on the option selected while exporting the data.

About this task

Use this task to export a dataset.

Procedure

- 1. Open the dataset you want to export.
- 2. Click the Export icon on the toolbar.

A S ^r	Mater Discovery			Welcome Shyam Raman
Da	ataset_From_Database		_	
			📰 💿 ∞ 🚑 🐂 🔛 🏟	
			Last refreshed on Oc	ctober 13, 2018 15:21:37
Resi	ult set 👻			
		_	_	
լ	SALES_CUSTOMER_CUSTOMERID	123 SALES CLISTOMER TERRITORYIDO	SALES CUSTOMED ACCOUNTNUMBED O	
			ACCOUNTROMDER ACCOUNTROMDER Q	
63		5		S CUSTOMERTYPE
10	3		AW00000083	S
16 59	13 69	5	AW00000063 AW00000169	s s
16 59	13 69 64 64	5 1 2	AW00000063 AW00000169 AW00000594	s s s
10 50 50 61	13 69 64 64	5 1 2 2	AW00000063 AW00000169 AW00000594 AW00000594	s s s
10 59 59 61 40	3 89 94 94 12	5 1 2 2 5	AW00000063 AW00000169 AW00000594 AW00000594 AW00000594	s s s s s

EXPORT A DATASET—OPENING THE EXPORT DIALOG BOX

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

2	Smarten Advanced Data Discovery	Export				Welcome Shyam Ram
	Dataset_From_Data	et_From_Data				
		Limited data		9	畲	E 🗈 OI 0
	This may take some time.					ober 13, 2018 15:21:37
R	esult set 👻	OK CANO	CEL			
#	Bales_CUSTOMER_			T SALES_CUSTOMER_ACCOUNTNUM	BERQ	T CUSTOMERTYPE
1	63		5	AW00000063		S
2	169		1	AW00000169		S
3	594		2	AW00000594		S
4	594		2	AW00000594		S
5	62		5	AW00000062		S
6	464		8	AW00000464		S

EXPORT A DATASET—THE EXPORT DIALOG BOX

3. You can select the Limited data option to export limited data, and then click OK.

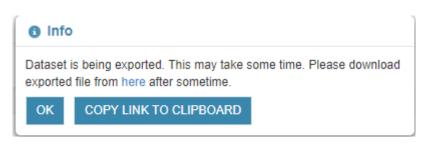
If you have not selected this option, the system exports all the data available in the dataset.

ব্	Smarten Advanced Data Discovery	[⇒ Export				Welcome Shyam Rama
	Dataset_From_Data	CSV				
		Limited data			10	🗈 🗈 OI 🤅
		This may take	e some time.		hed on Oc	tober 13, 2018 15:21:37
Re	esult set 👻	OK CAN	CEL			
#	RE SALES_CUSTOMER_		SALES_CUSTOMER_TERRI		DUNTNUMBER Q	
1	63		5	AW00000063		S
2	169		1	AW00000169		S
3	594		2	AW00000594		S
4	594		2	AW00000594		S
5	62		5	AW0000062		S

EXPORT A DATASET—OPTION TO EXPORT LIMITED DATA FROM THE DATASET

Note:

If the data to be exported is huge, the system displays a message that the data is being exported, and you can download it after it is exported using the link provided.



EXPORT A DATASET—MESSAGE PROVIDING A LINK TO DOWNLOAD THE EXPORTED FILE

4. You click **COPY LINK TO CLIPBOARD** to copy the link to download the exported file. Click **OK** on the **Info** dialog box.

Advanced Data Discovery		Welcome Shyam Ramani
Flight_Dataset		
Flight_Datasetcsv	215 MB	

EXPORT A DATASET—DOWNLOADED CSV FILE

7.2.34 Publishing a Dataset

Publishing a dataset makes a dataset available for collaboration and reuse by other Smarten users, who have access to a full suite of Smart Data Visualization, Plug n' Play Predictive Analysis, Dashboards, and Reports to analyze, present, and share results from the published datasets. By default, a dataset is unpublished, and only the user who created the dataset can access that dataset. Once a dataset is published, other users who have been given access rights by the creator of the dataset can access the dataset as per the permissions given to them.

Reference: Concept Manual > Publish and Refresh Data > Publish Dataset

About this task

Use this task to publish a dataset.

Procedure

- 1. Open the dataset you want to publish.
- 2. Click the Publish icon on the toolbar.

Advanced Data Discovery	ft 🔽
Dataset_From_Database	
	🗎 🖷 🗗 🛢 💿 ∞ 🚑 🐂 🔛 🏟 🖽 🖽 🧭
	Last refreshed on

#	SALES_CUSTOMER_CUSTOMERID	■ SALES_CUSTOMER_TERRITORYIDQ	T SALES_CUSTOMER_ACCOUNTNUMBER Q	
1	63	5	AW00000063	S 🔺
2	169	1	AW00000169	S
3	594	2	AW00000594	S
4	594	2	AW00000594	S
5	62	5	AW00000082	S
6	464	8	AW00000464	S

PUBLISH A DATASET—OPENING THE PUBLISH DATASET DIALOG BOX

The system displays the **Publish dataset** dialog box.

5	Smarten Advanced Data Discovery	🗊 Publish (Weld	come Shyam Rama
_		1-	uataset			
	Dataset_From_Database	Cache	Real-Time			
					ii 😥 🎄 🗷	
		Scheduler set	ttings			
		Frequency				Last refreshed on
D	esult set 👻	One time		•		
	esuit set 👻	One une		•		
#	BALES_CUSTOMER_CUSTO	iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	2018		COUNTNUMBER Q	
1	63	Otest lines				s
2	169	Start time				s
3	594	0				s
4	594					s
5	62	0		Ψ		s
6	484					s
7	221	Email notifica	tion for dataset publish process			s
8	234	None				s
9	850			0 /10		s
10	146	Data Refresh	Scheduler			s
11	514	Active	Inactive			s
12	640					s
13	496	PUBLISH	CANCEL			s
14	399	TOBLIGHT	ONNOLL			s
15	423	0		AVV00000423		s
16	345	4		AW00000345		s
17	621	1		AW00000621		s
18	492	4		AW00000492		s
19	697	1		AW00000697		s
20	335	6		AW00000335		s
21	403	4		AW00000403		s
22	315	5		AW00000315		s
23	254	1		AW00000254		s
4	_					Þ

PUBLISH A DATASET—THE PUBLISH DATASET DIALOG BOX

3. Select the **Cache** option to publish the dataset as a cached dataset.

Datasets published as cache datasets store data in a columnar data structure and need to be updated periodically from the data sources with the help of a scheduler.

,╦ Publish dataset	
Cache Real-Time	
Scheduler settings Frequency	
One time	•
15-12-2018	
Start time	
0	•
0	•
Email notification for dataset publish process	
None On success On fail All	
Data Refresh Scheduler	
Active Inactive	
PUBLISH CANCEL	

PUBLISH A DATASET—OPTION TO PUBLISH A DATASET AS A CACHE DATASET

a) Select an option from the Frequency list to specify how often you want to refresh the data of the dataset.

Note: Based on the option you select from the Frequency list, the system displays relevant options.

b) Select an option to specify events for which an email notification must be sent.

The following options are available:

- None: No email notification should be sent.
- **On success**: Email notification to be sent only if the dataset is published successfully.
- **On fail**: Email notification to be sent only if the dataset is not published successfully.
- All: Email notification should be sent for all events.
- c) Select an option to specify whether the data refresh scheduler should be active or inactive.
- Select the Real-time option to publish the dataset as a real-time dataset. Datasets published as real-time datasets do not store data in a columnar data structure. They extract the latest data from Data Sources as and when required.
- 5. Click Publish.

7.2.35 Saving a Dataset

You must save a dataset every time you perform an operation on a dataset. If you do not save a dataset, all the operations you have applied on the dataset are lost.

About this task

Use this task to save a dataset.

Procedure

- 1. Open the dataset that you want to save.
- 2. Click the Save icon on the toolbar after you have applied all the operations.

2	Smarten Advanced Data Discovery			Welcome Shyam Ramani
	Dataset_From_Database		■: ① ◎ ● ¹ 1	☆ ∑ ∎ Щ
			Last ref	reshed on October 13, 2018 15:21:37 📕
R	esult set 👻			
#				
	Bales_CUSTOMER_CUSTOMERID	SALES_CUSTOMER_TERRITORYIDQ	T SALES_CUSTOMER_ACCOUNT	NUMBER Q 📋 CUSTOMERTYPE Q
1	63	SALES_CUSTOMER_TERRITORYID	T SALES_CUSTOMER_ACCOUNT	
1 2		SALES_CUSTOMER_TERRITORYIDQ 5 1		
1 2 3	63	SALES_CUSTOMER_TERRITORYID Q 5 1 2	AW00000063	S A
1 2 3 4	63 189	SALES_CUSTOMER_TERRITORYID Q 5 1 2 2	AW00000063 AW00000189	S A
1 2 3 4 5	83 189 594	SALES_CUSTOMER_TERRITORYID Q	AW00000083 AW00000189 AW00000594	S A

SAVING A DATASET-CLICKING THE SAVE ICON

The system saves the dataset along with all the operations applied.

7.2.36 Dataset Rebuild methods

Rebuild dataset enables you to update dataset with the latest data from the data source. You can update the dataset with entire data - **From scratch** or append only the new data available in the data source - **Incremental**.

Reference: Concept Manual > Publish and Refresh Data > Refresh Dataset

About this task

Use this task to update a dataset.

Procedure

- 1. Open the dataset you want to update.
- 2. Click the Publish icon on the toolbar.

Advanced Data Discovery								Welcome S	Shyam Rama
Test-shyam_loa	an		8	·ଶ ₽ ₽ ∞ ∞	4 4		4		
Desult set	ant loan teattoo								20:17:07
	set-loan-test123	T GRADE Q	T EMPLOYMENT_LENGTH Q	T HOME_OWNERSHIP_ST	TATUSQ	123 ANNUAL	_INCOME C	λ 📺 VE	RIFICATIO
		T GRADE Q	EMPLOYMENT_LENGTH Q 2 to 3 years	T HOME_OWNERSHIP_ST		123 ANNUAL 17398	_INCOME C	Verified	RIFICATIO
123 LOAN_AMOUN	TQ 📧 APPLICANT_IDQ				1		_INCOME C		RIFICATIO
1 14000	TQ B APPLICANT_IDQ	D	2 to 3 years	MORTGAGE	1	7396	_INCOME C	Verified	RIFICATIO
EB LOAN_AMOUNT 1 14000 2 25000	T Q E3 APPLICANT_ID Q 26114 22216	D C	2 to 3 years 4+ years	MORTGAGE OWN	1	7396 6260	_INCOME C	Verified Verified	RIFICATIO
LOAN_AMOUN 1 14000 2 25000 3 12000	TQ E APPLICANT_IDQ 26114 22216 18173		2 to 3 years 4+ years 2 to 3 years	MORTGAGE OWN MORTGAGE	1	7398 6260 5113	_INCOME C	Verified Verified Verified	



The system displays the **Publish dataset** dialog box.

2	Smarten Advanced Data Discovery		🛱 Publish Dataset				Welcome Shyam Ram
	⁻ est-shyam_loan		Cache Real-Time Scheduler settings		••• <u>2</u>		
			Frequency			Last refreshed on N	larch 25, 2020 20:17:07
R	esult set 👻 dataset	-loan-test1	One time		•		
#	B LOAN_AMOUNT C	IES APPL				SHIP_STATUS Q	123 ANNUAL_INCOM
1	14000	26114					17396
2	25000	22216	Start time				16260
3	12000	18173					15113
4	15000	26386	0		*		17471
5	1500	1444	0		•		5989
6	5500	11854	0		•		12165
7	16450	21438					16037
8	16500	18212	Email notification for Dataset p	ublish process			15122
9	4200	5233		S On fail OAll			8514
10	12250	26568					17525
11	4000	961	Data Refresh Scheduler				5677
12	9000	9453	 Active Inactive 				11019
13	35000	22774					16421
14	13000	28718	Debuild mother d				18139
15	4000	4729	Rebuild method				8176
16	4800	151	Rebuild dependent datas	et(s)			5108
17	30000	19259					15422
18	1500	2799	PUBLISH CANCEL				6885
19	6000	15248	CANCEL				13791
20	9800	11120	A 1 to	z years	RENT		11814
24	15200	94074	D 2 to	1.0000	MORTGAGE		18000

www.smarten.com

Powered by ElegantJ BI Version 5.0.2

UPDATE DATASET—THE PUBLISH DATASET DIALOG BOX

7.2.36.1 From scratch

You can update dataset from scratch. In this method, the system retrieves the latest data from the datasource and overwrites the data in the dataset.

Reference: Concept Manual > Refresh Data > Refresh methods > From scratch

About this task

Use this task to update a dataset from scratch.

Procedure

1. Click **Rebuild method** to specify the option to specify how you want to update the dataset.

۲	Cache Real-Time
•	Scheduler settings
Ŧ	Rebuild method
۲	From scratch
Þ	Rebuild dependent dataset(s)
	PUBLISH CANCEL

REBUILD METHOD – FROM SCRATCH

2. Select the From scratch option.

In this option, the system overwrites the data in the dataset with the new data available in the datasource.

3. Click **PUBLISH**.

The system publishes dataset with new data from the data source.

7.2.36.2 Incremental

You can update dataset with incremental option. In incremental option, system retrieves data from data source and appends only new data into the dataset. Smarten supports two options for incremental update, one is the **append all rows retrieved from data source** and another is the **append new rows identified based on unique ID column**.

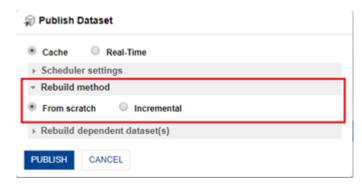


About this task

Use this task to update a dataset incrementally.

Procedure

1. Click **Rebuild method** to specify the option to specify how you want to update the dataset.



REBUILD METHOD - INCREMENTAL

2. Select Incremental option to append the new data available in the datasource to the dataset every time the dataset is updated.

lange Publish	🗊 Publish Dataset					
Cache	Real-Time					
Schedule	er settings					
- Rebuild	method					
	atch Incremental Il rows retrieved from datasource ows based on unique column					
Rebuild	dependent dataset(s)					
PUBLISH	CANCEL					

UPDATEDATASET - INCREMENTAL REBUILD OPTIONS

- 3. You can select the **Append all rows retrieved from datasource** option if you want to append the all records from the data source to the dataset.
- 4. You can select the **Append rows based on unique column** option if you want to append the new data based on the selected unique column. Select the column based on which you want to perform incremental update of the data in the dataset.

For example, if you have selected the 'ID' column as a unique column from a dataset and the highest value in that column is '250' in the dataset. When you update the dataset, the system retrieves only those records that have value greater than '250' in the 'ID' column and appends that data to the dataset.



	Cache Real-Time	
× 5	Scheduler settings	
- F	Rebuild method	
	From scratch Incremental Append all rows retrieved from datasource	
•	Append rows based on unique column	
	Select column	
⊧ F	Rebuild dependent dataset(s)	

UPDATE DATASET- INCREMENTAL UPDATE BASED ON A COLUMN

5. Click **PUBLISH**.

The system publishes the dataset with Incremental rebuild method.

7.2.37 Update Dependent Datasets

You must save a dataset every time you perform an operation on a dataset. If you do not save a You can update a dependent datasets while updating the current dataset. A dependent dataset is a dataset that are used in blend operations -JOIN, APPEND or a parent dataset. This feature provides facility to rebuild dependant datasets first and then rebuild current dataset. So, current dataset contains latest data from dependant datasets as well. It helps avoid overlapping of different rebuild tasks which generally causes reflection of older data.

For example, we have Orders dataset. For customer details, it is joined with Customers dataset. Now if we setup different schedulers to rebuild Customers and Orders dataset and it is configured in a way that Customers dataset gets rebuilt first, and then Orders dataset gets rebuilt, then there are chances that, scenario, Customers dataset rebuild is in progress and Orders rebuild process gets started. In such a scenario, Orders dataset will not have latest Customers data.

In such cases, if we use Rebuild dependant dataset feature, while rebuilding Orders dataset, system will first rebuild Customers dataset first, once Customers rebuild data is complete, then it will rebuild Orders dataset, and Orders dataset will always have latest Customers dataset reference records and values.

Note

Dependant datasets will only be rebuilt when current dataset is rebuilt through scheduler using option explained above. Refresh from source option will override dependent dataset processing configuration, and only rebuild current dataset.

About this task

Use this task to updatea dependent dataset.

Procedure

- 1. Open the dataset you want to update.
- 2. Click the Publish icon on the toolbar.

Advanced Data Discovery			_		W	/elcome Shyam Rama
Test-shyam_loan			8		1. III 🔛 🎄 🗵	
					Last refreshed on March	25, 2020 20:17:07
Result set 👻 dataset	-loan-test123					
		T GRADE Q	T EMPLOYMENT_LENGTH Q	T HOME_OWNERSHIP_STATUS Q	B ANNUAL_INCOME Q	T VERIFICATIO
		T GRADE Q	EMPLOYMENT_LENGTH Q 2 to 3 years	T HOME_OWNERSHIP_STATUS Q	ES ANNUAL_INCOME Q	T VERIFICATIO
E LOAN_AMOUNT Q	APPLICANT_IDQ					
E LOAN_AMOUNT Q	APPLICANT_IDQ 28114	D	2 to 3 years	MORTGAGE	17396	Verified
14000 25000	28114 22218	D C	2 to 3 years 4+ years	MORTGAGE OWN	17396 16260	Verified Verified
EB LOAN_AMOUNT C 14000 25000 12000	26114 22216 18173	D C	2 to 3 years 4+ years 2 to 3 years	MORTGAGE OWN MORTGAGE	17396 18260 15113	Verified Verified Verified

UPDATE DATASET—OPENING THE PUBLISH DATASET DIALOG BOX

The system displays the **Publish Dataset** dialog box.

Advanced Data Dis	scovery	.ᡎ Publish Dataset					†			
Test-shyar	n_loan	Cache	Real	-Time						
		- Schedule	er settings				iii 😥 🏶	X D		
		Frequency					Last refreshed on	March 25, 2020 20:17:		
Result set 👻	dataset-loan-test1									
esuit set 👻	ualaset-Ioan-lest i	One time				*				
IZE LOAN_A	MOUNT 🔍 📧 APPI	iii 11-5-	2020				SHIP_STATUS Q	, 📧 ANNUAL_INC		
14000	26114							17396		
25000	22216	Start time						16260		
12000	18173							15113		
15000	26386	0				*		17471		
1500	1444	0						5989		
5500	11854	0				•		12165		
16450	21436							16037		
16500	18212	Email notifica	ation for Da	taset publish proces	s			15122		
4200	5233	None		success On fail	🔍 All			8514		
12250	26568	I None	0		0 / 11			17525		
4000	961	Data Refresh	Scheduler					5677		
9000	9453	Active	Inac	tive				11019		
35000	22774							16421		
13000	28718	Delevilla.						18139		
4000	4729	Rebuild r	nethod					8176		
4800	151	▶ Rebuild (lependent	dataset(s)				5108		
30000	19259							15422		
1500	2799	PUBLISH	CANCEL					6885		
6000	15248	TOBLISH	UNIVEL					13791		
9800	11120	A		1 to 2 years		RENI		11814		
45200	94074	D		2 to 4 years		MORTGAGE		18000		

UPDATEDATASET—THE PUBLISH DATASET DIALOG BOX

- 3. Click the **Rebuild dependent dataset(s)** option to specify the dependent dataset that you want to build when the current dataset is rebuilt.
- 4. Click the plus sign adjacent to the dataset that you want to update with the current dataset.

	Real-Time	
 Scheduler set 	-	
Rebuild method		
 Rebuild dependence 	ident dataset(s)	
Available dataset(s	;)	Selected dataset(s)
	0	0
dataset-loan-test1	23 +	

UPDATEDATASET – SELECT DEPENDENT DATASET

5. Click Publish.

The system publishes the dataset with rebuild dependant datasets option.

8 Product and Support Information

Find more information about Smarten and its features at <u>www.smarten.com</u> Support: <u>support@smarten.com</u> Sales: <u>sales@smarten.com</u> Feedback & Suggestions: <u>support@smarten.com</u> Support & Knowledgebase Portal: <u>support.smarten.com</u>