

Project Development Phase

Delivery of Sprint - 1

Date	29 October 2022
Team ID	PNT2022TMID00800
Project Name	Retail Store Stock Inventory Analytics

Project Development Phase:

Sprint 1:

- Data Collection
- Data Filtration

Sprint 2:

- Data Visualization

Sprint 3:

- Dashboard Creation

Sprint 4:

- Report Creation
- Story Creation

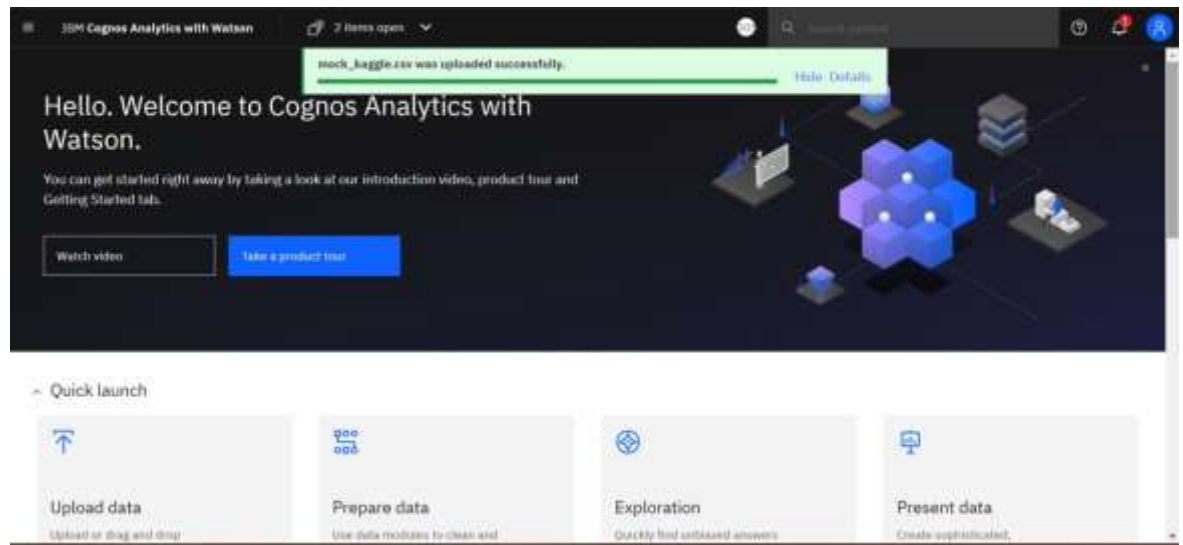
Sprint -1:

Data Collection:

Downloading the Dataset:

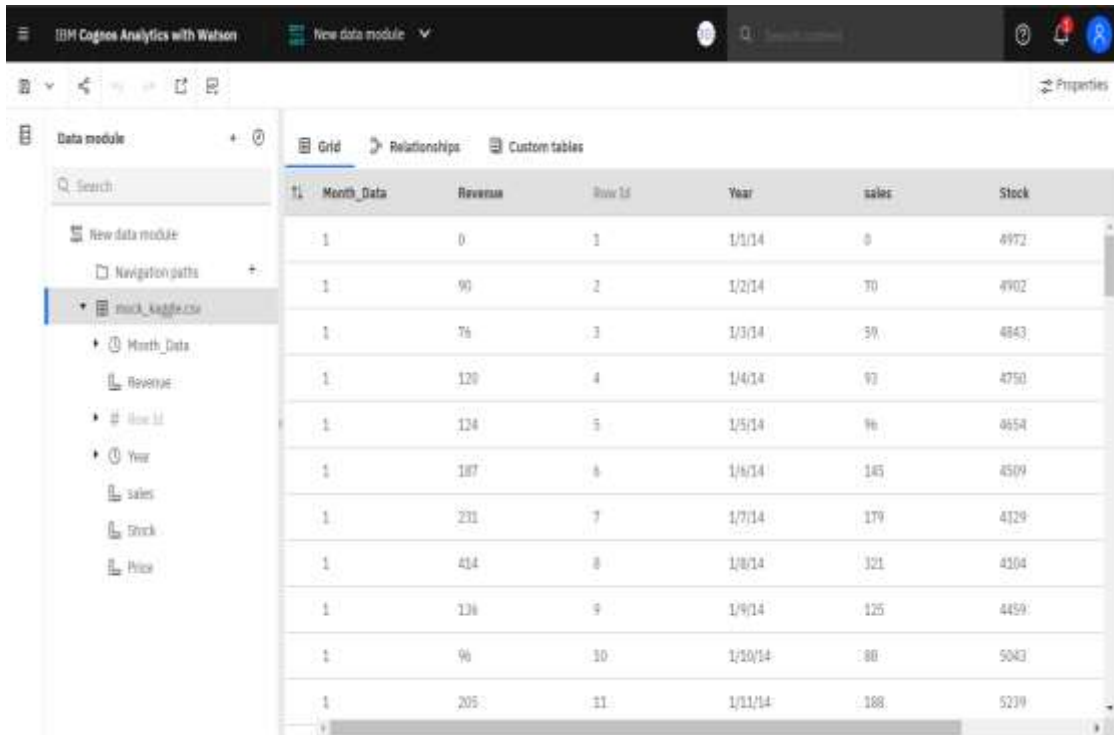
<https://drive.google.com/drive/folders/1kiL-5CHJmQvbk9VyFsuUs-myAupBZGNy>

Loading the Dataset using IBM COGNOS ANALYTICS:



Data Filtration:

Filtering the dataset and preparing by using data modules to clean and connect data from multiple modules.

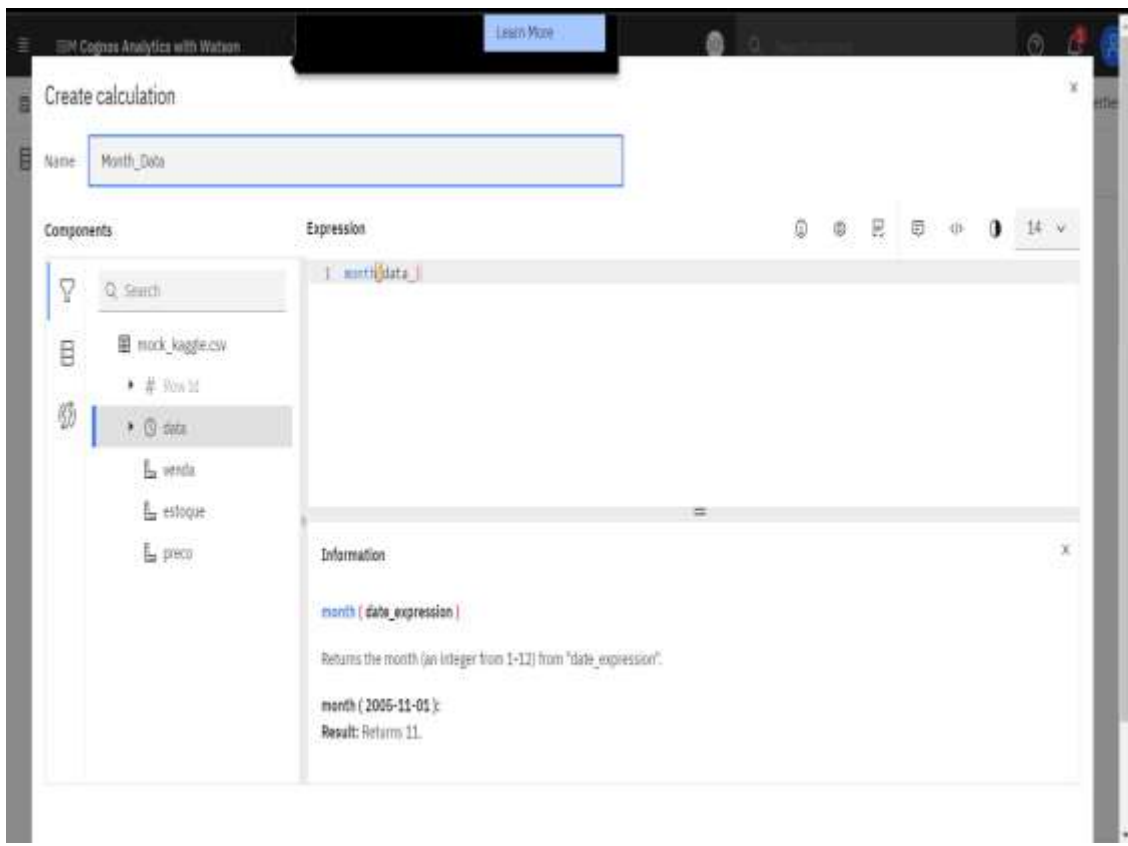


The screenshot displays the IBM Cognos Analytics with Watson interface. The top navigation bar includes the product name, a 'New data module' dropdown, a search bar, and user profile icons. The left sidebar shows a 'Data module' list with a search bar and a tree view containing 'New data module', 'Navigation paths', and 'stock_kaggle.csv'. The 'stock_kaggle.csv' module is expanded, showing a list of data fields: 'Month_Data', 'Revenue', 'Row Id', 'Year', 'sales', 'Stock', and 'Price'. The main area shows a 'Grid' view of the data, which is a table with 11 rows and 7 columns. The columns are 'Month_Data', 'Revenue', 'Row Id', 'Year', 'sales', and 'Stock'. The data represents monthly stock performance for 2014.

Month_Data	Revenue	Row Id	Year	sales	Stock
1	0	1	1/1/14	0	4972
1	90	2	1/2/14	70	4902
1	76	3	1/3/14	39	4843
1	120	4	1/4/14	93	4750
1	124	5	1/5/14	96	4654
1	187	6	1/6/14	145	4509
1	231	7	1/7/14	179	4329
1	414	8	1/8/14	321	4104
1	138	9	1/9/14	125	4459
1	96	10	1/10/14	80	5043
1	205	11	1/11/14	188	5239

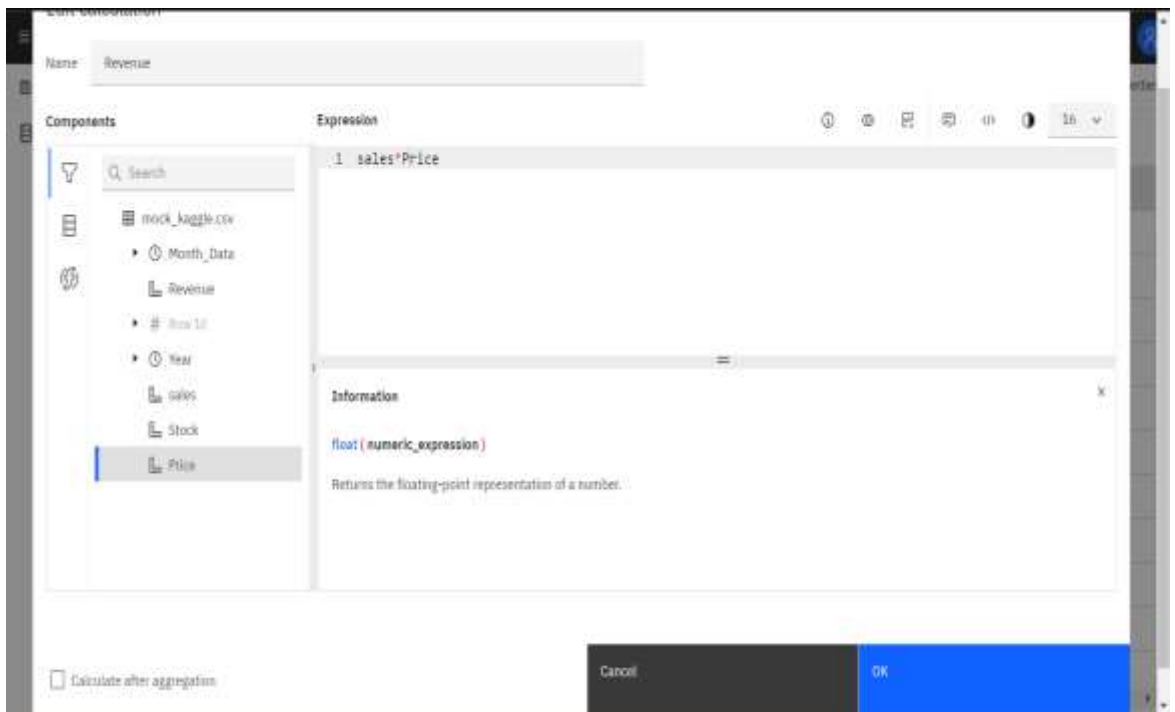
Month Data:

- *Creating a new calculation to get the month data.*



Revenue Data:

- *Creating a new calculation to get the revenue data.*



Data module

Search

New data module

Navigation paths

mock_juggle.csv

Month_Data

Revenue

Row 10

Year

sales

Stock

Price

Grid

Relationships

Custom tables

Month_Data	Revenue	Row Id	Year	sales	Stock
1	0	1	1/1/14	0	4972
1	80.3	2	1/2/14	70	4902
1	76.11	3	1/3/14	59	4843
1	119.97	4	1/4/14	93	4750
1	123.84	5	1/5/14	96	4654
1	187.05	6	1/6/14	145	4509
1	230.91	7	1/7/14	179	4329
1	414.09000000000003	8	1/8/14	321	4104
1	236.25	9	1/9/14	125	4459
1	95.92	10	1/10/14	88	5043
1	204.82000000000002	11	1/11/14	188	5239

Year Data:

IBM Cognos Analytics with Watson New data module

Search

Data module

- New data module
- Navigation paths
- mock_data.csv
 - Month_Data
 - Revenue
 - Row ID
 - Year**
 - sales
 - Stock
 - Price

Grid Relationships Custom tables

Row ID	Year	sales	Stock
1	1/1/14	0	4972
2	1/2/14	70	4962
3	1/3/14	59	4843
4	1/4/14	93	4750
5	1/5/14	96	4654
6	1/6/14	145	4509
7	1/7/14	179	4329
8	1/8/14	321	4104
9	1/9/14	125	4459
10	1/10/14	88	5043
11	1/11/14	188	5239

Properties

General Navigation paths

Label Year

Hide from users

Expression [View or edit](#)

Usage Attribute

Aggregate Count Distinct

Data type Date

Represents

Time

Year

Lookup reference

Sales Data:

The screenshot displays the IBM Cognos Analytics with Watson interface. The top navigation bar includes the title 'IBM Cognos Analytics with Watson', a 'New data module' dropdown, a search bar, and user profile icons. The main workspace is divided into three tabs: 'Grid', 'Relationships', and 'Custom tables'. The 'Grid' tab is active, showing a table with 11 rows and 5 columns: 'Row Id', 'Year', 'sales', 'Stock', and 'Price'. The 'sales' column is highlighted. On the left, a 'Data module' sidebar shows a tree structure with 'New data module' at the top, followed by 'Month_Data', 'Revenue', 'Row Id', 'Year', 'sales' (highlighted with a blue box), 'Stock', and 'Price'. On the right, a 'Properties' panel is open, showing the 'General' tab for the 'sales' measure. The properties include: Label (sales), Hide from users (toggle off), Expression (View or edit), Usage (Measure), Aggregate (Total), Data type (Integer), Represents (None), and Description.

Row Id	Year	sales	Stock	Price
1	1/1/14	0	4972	
2	1/2/14	70	4952	
3	1/3/14	59	4843	
4	1/4/14	93	4750	
5	1/5/14	96	4654	
6	1/6/14	145	4509	
7	1/7/14	179	4329	
8	1/8/14	321	4104	
9	1/9/14	325	4459	
10	1/10/14	380	5043	
11	1/11/14	388	5239	

Stock Data:

The screenshot displays the IBM Cognos Analytics with Watson interface. The top navigation bar includes the logo, 'New data module' dropdown, a search bar, and user profile icons. The main workspace is divided into three panes: 'Data module', 'Grid', and 'Properties'.

Data module pane: A search bar is at the top. Below it, a tree view shows the hierarchy: 'New data module' > 'mock_k...le.com' > 'Month_Data' > 'Reverse' > 'Year' > 'sales' > 'Stock' (highlighted with a blue box) > 'Price'.

Grid pane: Displays a table with the following data:

Year	sales	Stock
1/1/14	0	4972
1/2/14	70	4902
1/3/14	59	4843
1/4/14	93	4750
1/5/14	96	4654
1/6/14	145	4509
1/7/14	179	4329
1/8/14	321	4104
1/9/14	125	4839
1/10/14	88	5043
1/11/14	188	5219

Properties pane: The 'General' tab is active. It shows the following settings for the 'Stock' measure:

- Label: Stock
- Hide from users: ☐
- Expression: [View or edit](#)
- Usage: Measure
- Aggregate: Total
- Data type: Integer
- Represents: (empty)
- Default: (empty)
- Lookup reference: None
- Description: (empty)

Price Data:

IBM Cognos Analytics with Watson

New data module

10

Search journal

Properties

Grid

Relationships

Custom tables

14

sales

Stock

Price

/14	0	4972	1
/14	70	4902	1
/14	59	4843	1
/14	93	4750	1
/14	96	4654	1
/14	145	4509	1
/14	179	4329	1
/14	321	4104	1
/14	125	4459	1
0/14	88	3043	1
1/14	188	5239	1

Properties

General

LabelPrice

Hide from users

ExpressionView or edit

UsageMeasure

AggregateTotal

Data typeDecimal

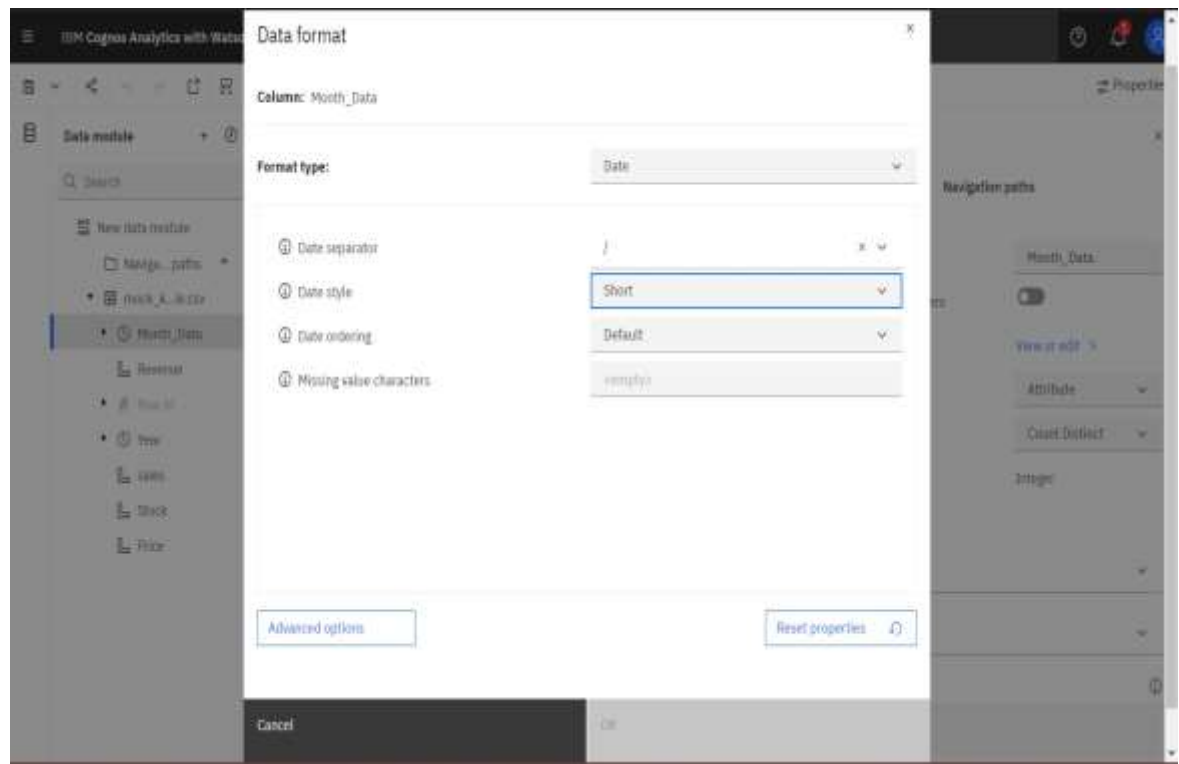
Represents

Default

Lookup referenceNone

Description

Month-Format Data:



IBM Cognos Analytics with Watson

New data module

10

Search & connect

Properties

Data module

Search

New data module

Navigation paths

mock_data.csv

Month_Data

Revenue

Row Id

Year

sales

Stock

Price

Grid

Relationships

Custom tables

Properties

General

Navigation paths

Month_Data	Revenue	Row Id	Year
1	0	1	1/1/14
1	90.3	2	1/2/14
1	76.11	3	1/3/14
1	119.97	4	1/4/14
1	123.84	5	1/5/14
1	167.05	6	1/6/14
1	230.91	7	1/7/14
1	414.09000000000003	8	1/8/14
1	136.25	9	1/9/14
1	95.92	10	1/10/14
1	204.92000000000002	11	1/11/14
1	131.89000000000001	12	1/12/14

Label

Month_Data

Hide from users

Expression

View or edit

Usage

Attribute

Aggregate

Count Distinct

Data type

Integer

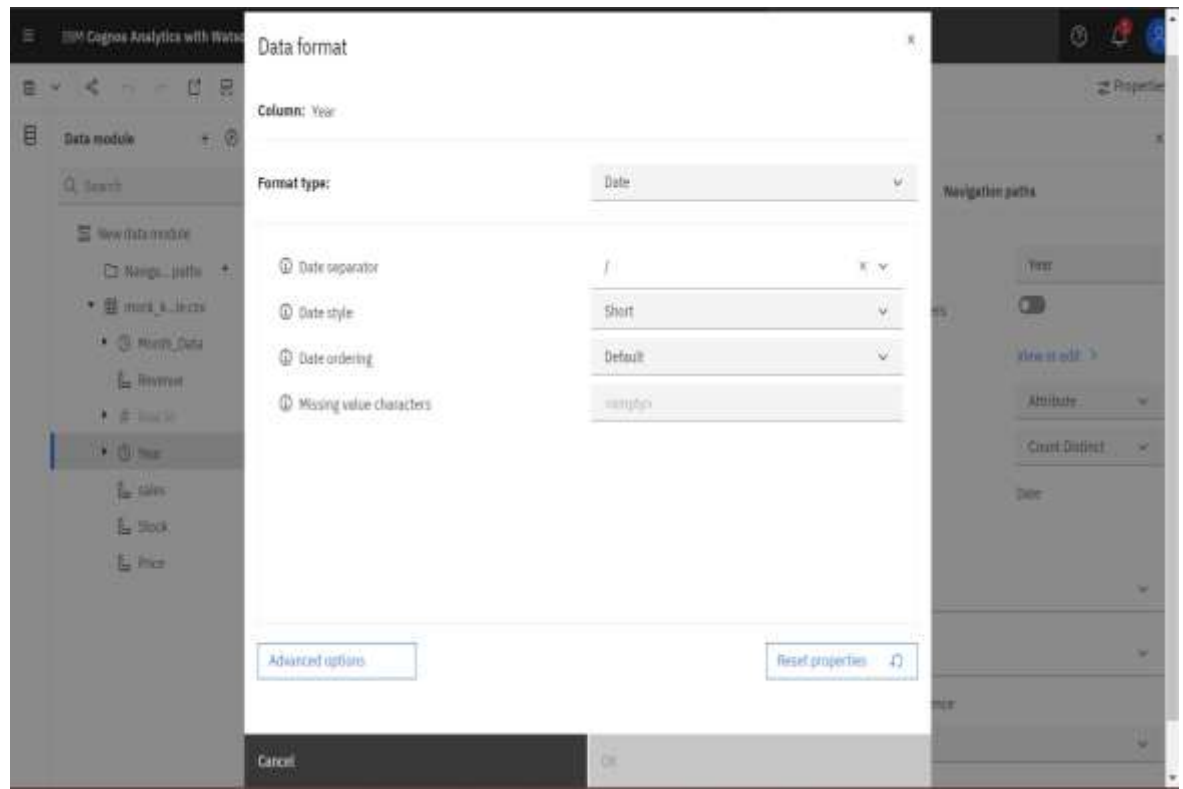
Represents

Time

Month

Description

Year-Format Data:



IBM Cognos Analytics with Watson

New data module

Search Cognos

Properties

Data module

Search

New data module

Navigation paths

mock_k...je.csv

Month_Data

Revenue

Row ID

Year

sales

Stock

Price

Grid

Relationships

Custom tables

Row ID	Revenue	Year
1	0	1/1/14
2	90.3	1/2/14
3	76.11	1/3/14
4	119.97	1/4/14
5	123.84	1/5/14
6	187.05	1/6/14
7	230.91	1/7/14
8	414.09000000000003	1/8/14
9	136.25	1/9/14
10	95.92	1/10/14
11	204.92000000000002	1/11/14
12	131.89000000000001	1/12/14

Properties

General

Navigation paths

Label

Year

Hide from users

Expression

View or edit

Usage

Attribute

Aggregate

Count Distinct

Data type

Date

Represents

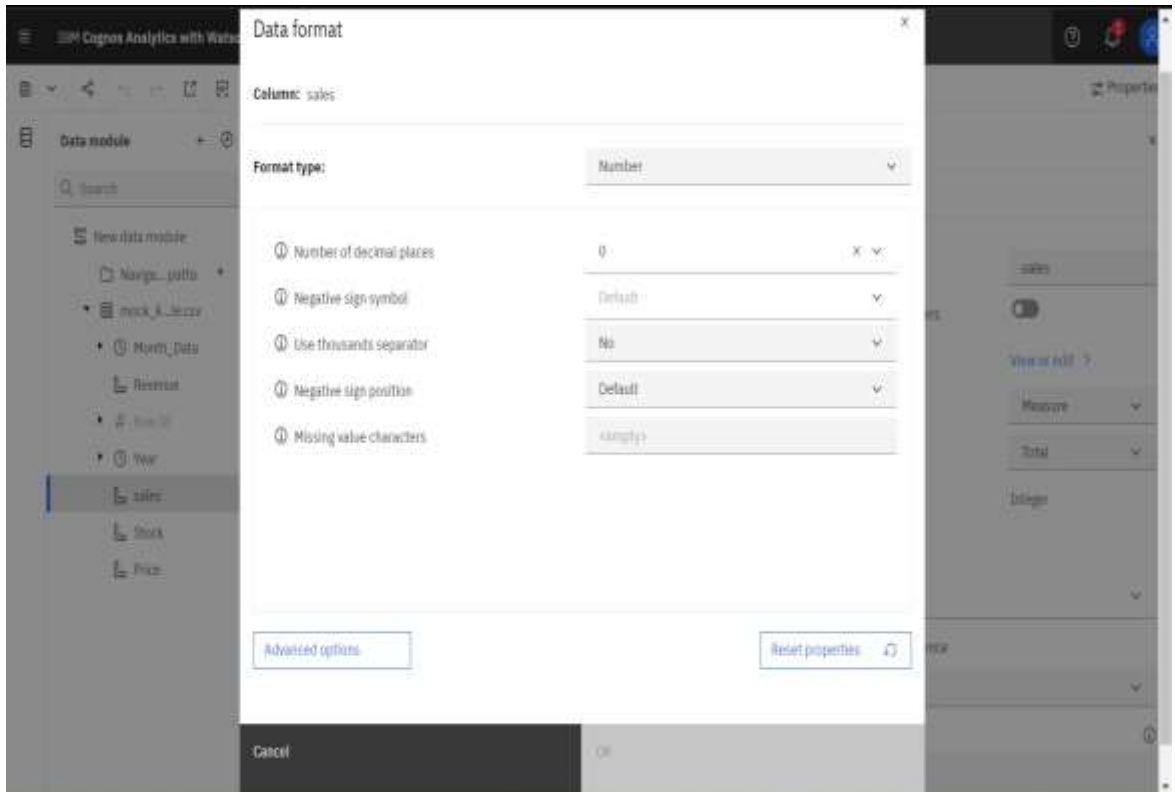
Time

Year

Lookup reference

None

Sales-Format Data:



Data module

Search

New data module

Navigation path

mock_data_loader

Month Data

Revenue

Price

Year

Sales

Stock

Price

Grid

Relationships

Custom tables

1	Revenue	Row Id	Year	Sales
		1	1/1/14	0
3		2	1/2/14	70
11		3	1/3/14	59
1.97		4	1/4/14	93
1.84		5	1/5/14	96
1.05		6	1/6/14	145
1.91		7	1/7/14	179
1.0900000000000003		8	1/8/14	321
1.25		9	1/9/14	125
92		10	1/10/14	88
1.9200000000000002		11	1/11/14	188
1.8900000000000001		12	1/12/14	121

Properties

General

Label

Sales

Hide from users

☐

Expression

[View or edit](#)

Usage

Measure

Aggregate

Total

Data type

Integer

Represents

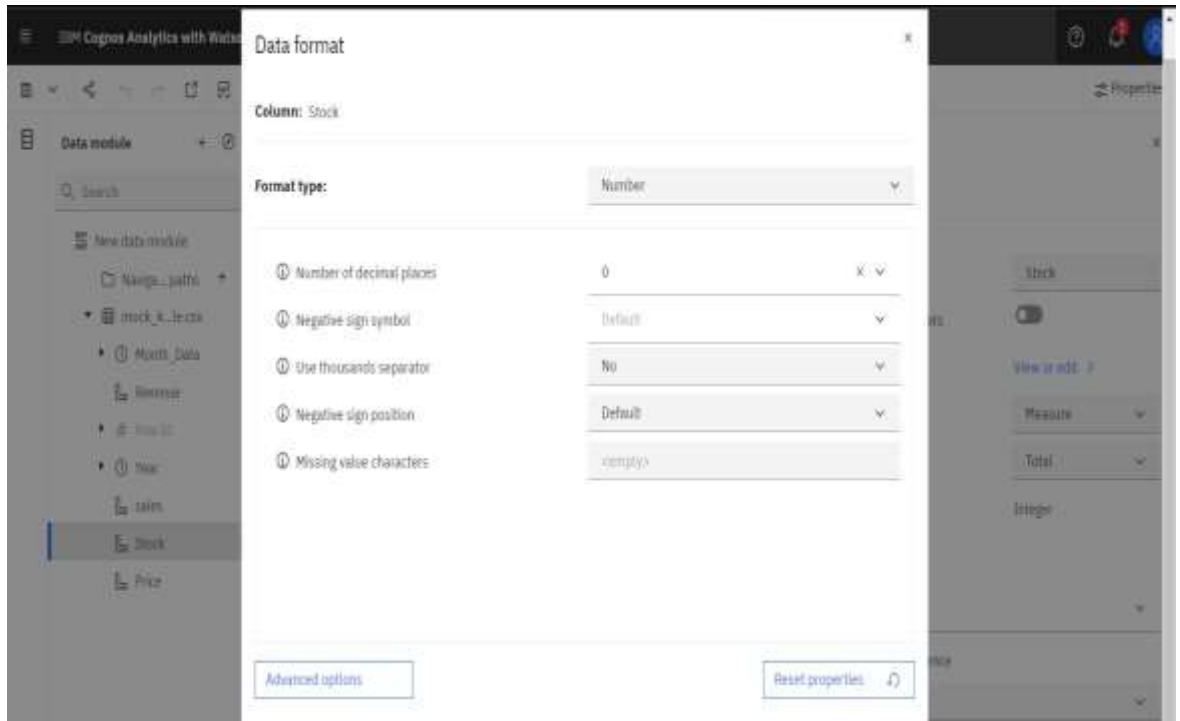
Default

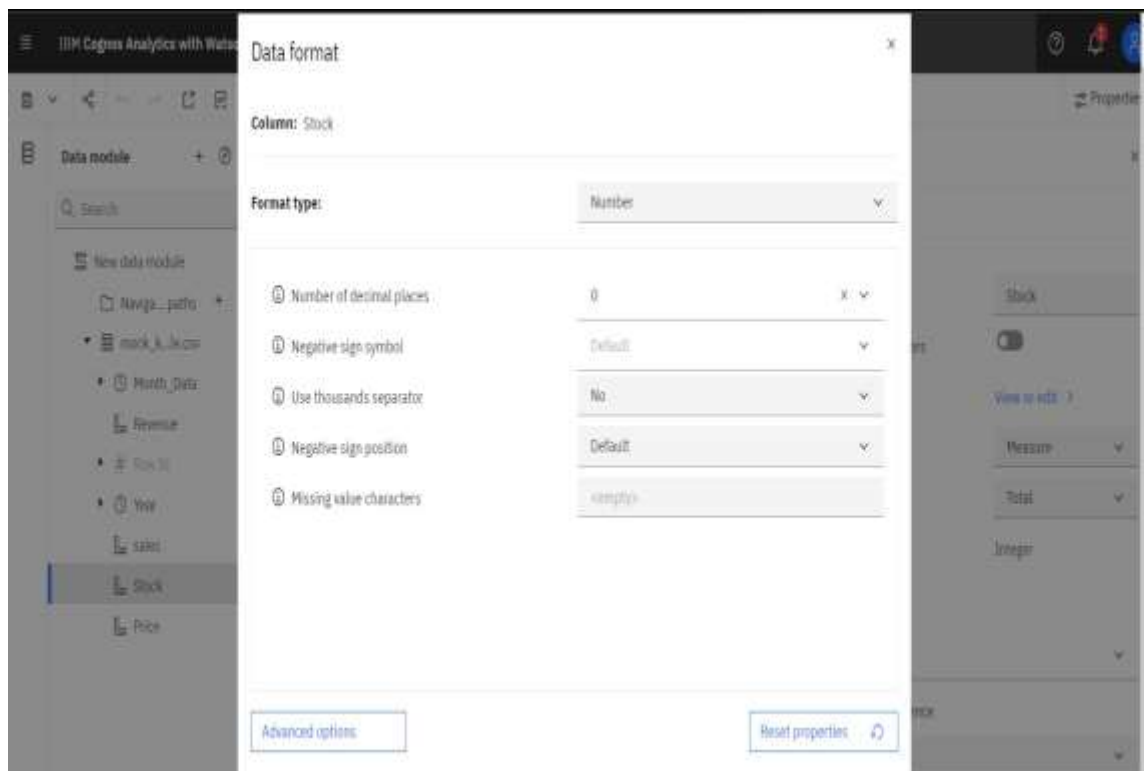
Lookup reference

None

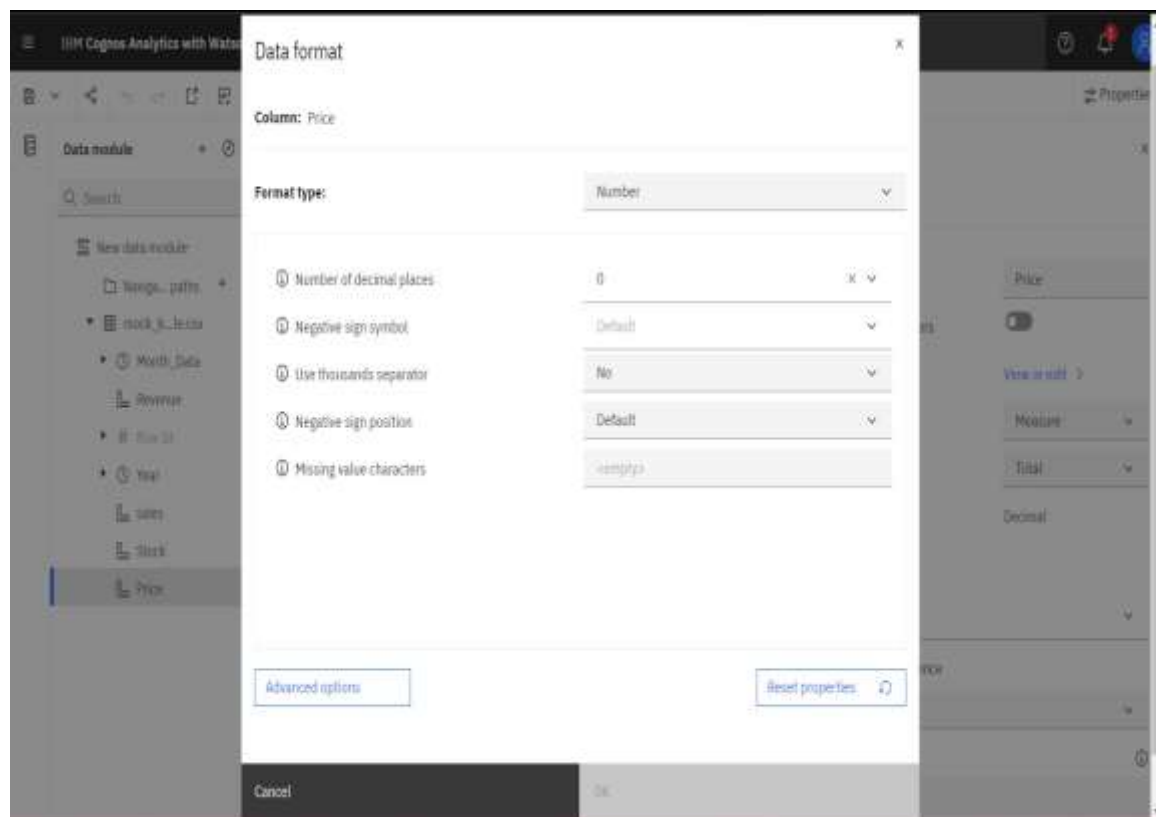
Description

Stock-Format Data:



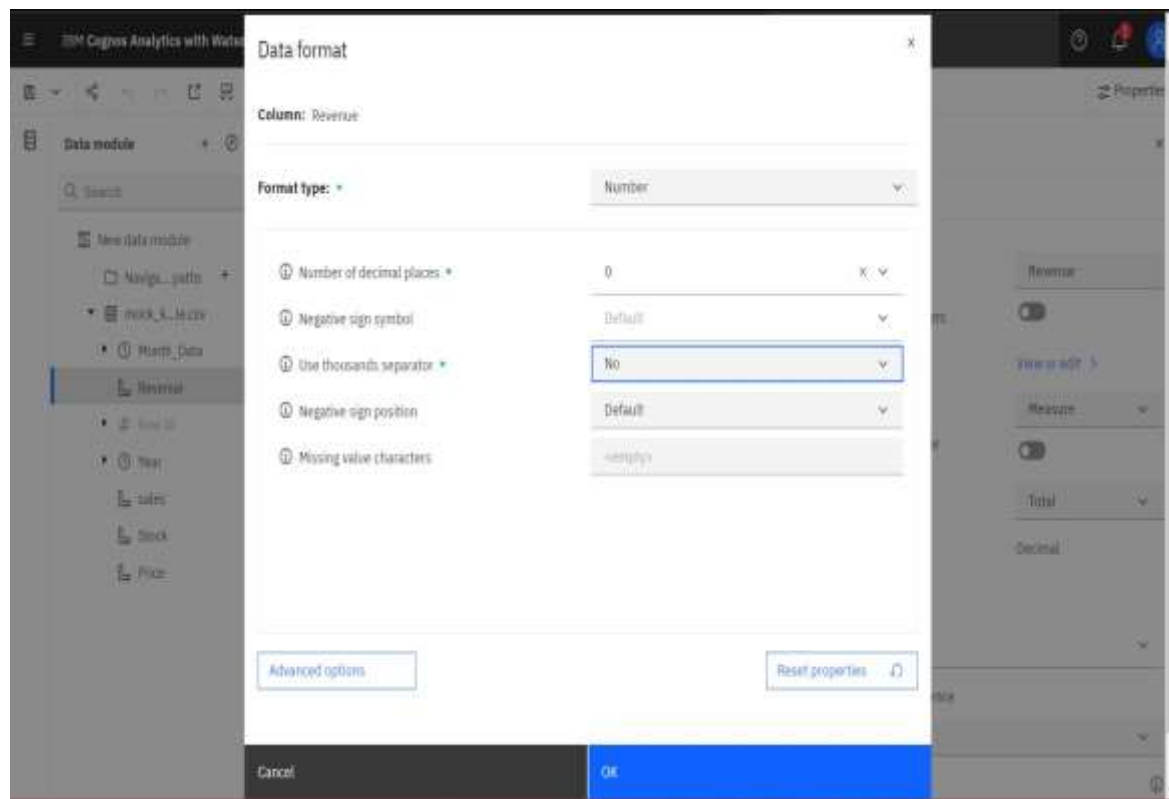


Price-Format Data:



Data module		Grid Relationships Custom tables				Properties	
Search						General	
New data module						Label	
Navigation paths						Hide from users	
Mock data						Expression	
Month Data						Usage	
Revenue						Aggregate	
Roll Up						Data type	
Year						Represents	
Sales						Default	
Stock						Lookup reference	
Price						None	
						Description	

Revenue-Format Data:



IBM Cognos Analytics with Watson

New data module

10

Search

Properties

Grid

Relationships

Custom tables

Properties

Search

New data module

Navigation paths

mock_data.csv

Month_Data

Revenue

Row ID

Year

sales

Stock

Price

Revenue	Row ID	Year	sales
0	1	1/1/14	0
90	2	1/2/14	70
76	3	1/3/14	59
120	4	1/4/14	93
134	5	1/5/14	96
187	6	1/6/14	145
231	7	1/7/14	179
414	8	1/8/14	321
136	9	1/9/14	125
96	10	1/10/14	88
205	11	1/11/14	188
112	12	1/12/14	121

General

Label

Revenue

Hide from users

Expression

View or edit

Usage

Measure

Calculate after aggregation

Aggregate

Total

Data type

Decimal

Represents

Default

Lookup reference

None

Description

Prepared Data Link(Using Cognos Analytics):

https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.public_folders%2FSprint%2U1%2FNew%2Bdata%2Bmodule