

Project Development Phase

Delivery of Sprint - 1

Date	29 October 2022
Team ID	PNT2022TMID00906
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

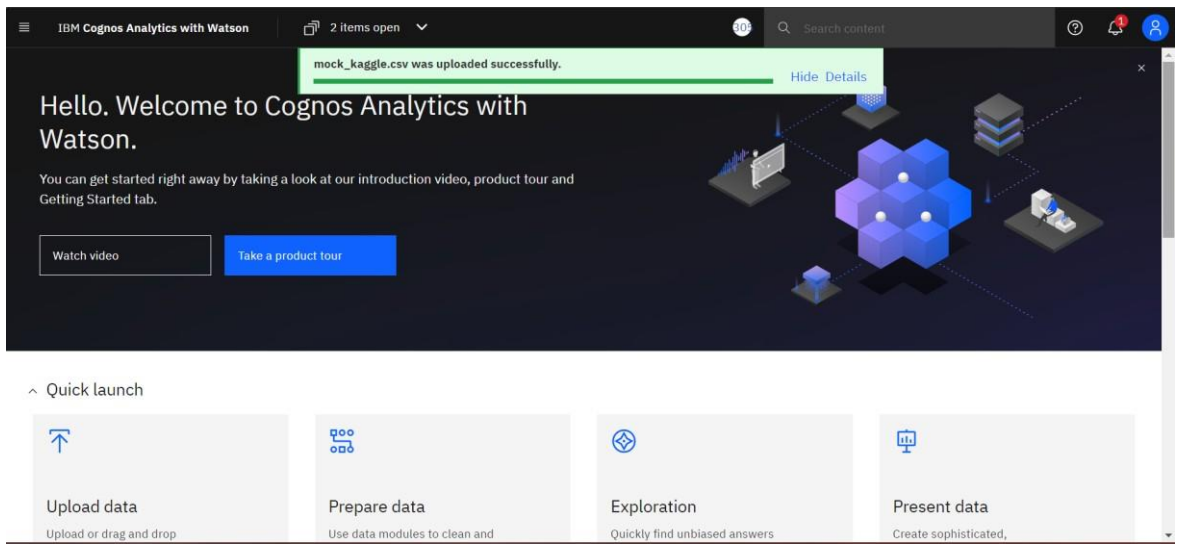
Sprint -1:

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 IBM logo, the text 'IBM Cognos Analytics with Watson', a 'New data module' dropdown, a search bar, and user profile icons. Below the navigation bar, a toolbar contains icons for file operations and a 'Properties' button. The main workspace is divided into a left sidebar and a central grid view.

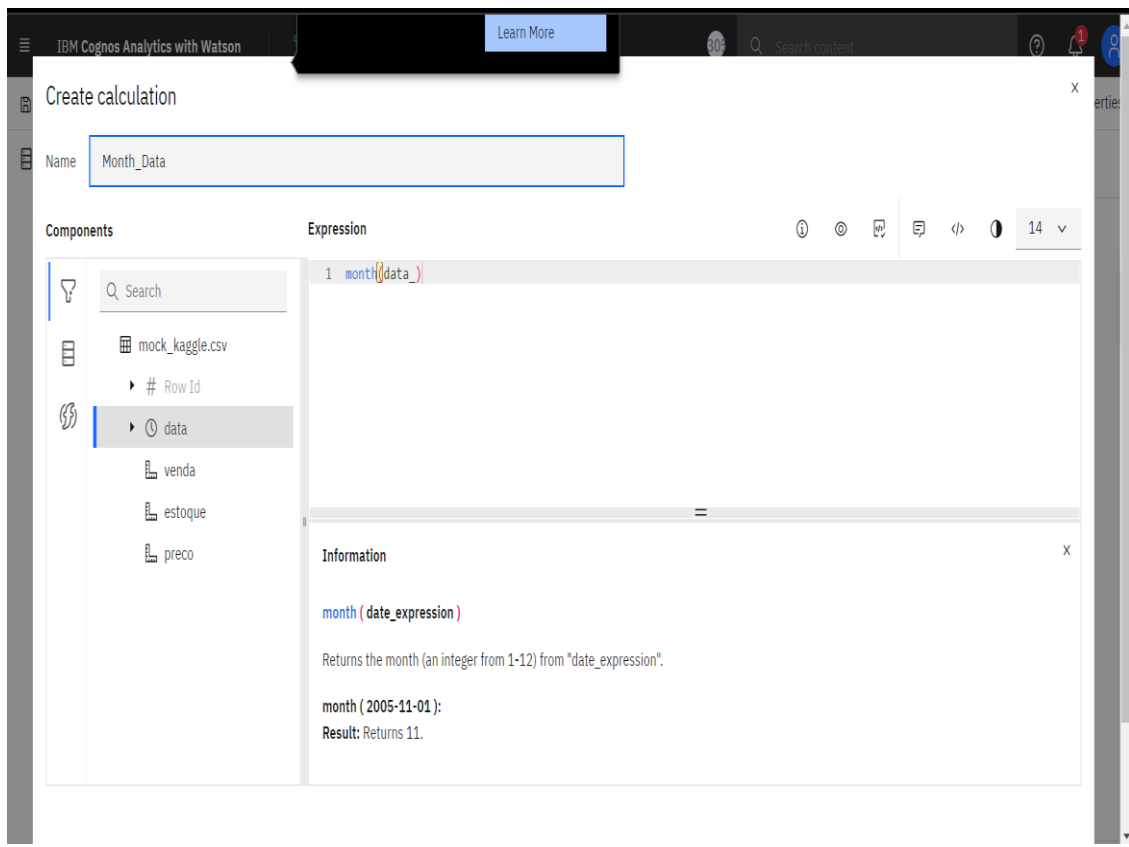
The left sidebar, titled 'Data module', contains a search bar and a list of data modules. The 'mock_kaggle.csv' module is selected and expanded, showing a hierarchy of fields: 'Month_Data', 'Revenue', 'Row Id', 'Year', 'sales', 'Stock', and 'Price'.







The central grid view displays the data from 'mock_kaggle.csv' in a table format. The table has 7 columns: 'Month_Data', 'Revenue', 'Row Id', 'Year', 'sales', and 'Stock'. The data is organized into 11 rows, each representing a month from January 1, 2014, to January 11, 2014. The 'Row Id' column is indexed from 1 to 11.

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	59	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	136	9	1/9/14	125	4459
1	96	10	1/10/14	88	5043
1	205	11	1/11/14	188	5239




Month Data:

- Creating a new calculation to get the month data.






     


Properties








 Data module  

Search

 New data module

 Navigation paths 

 mock_kaggle.csv

-  Month_Data
-  Revenue
-  # Row Id
-  Year
-  sales
-  Stock
-  Price

Grid

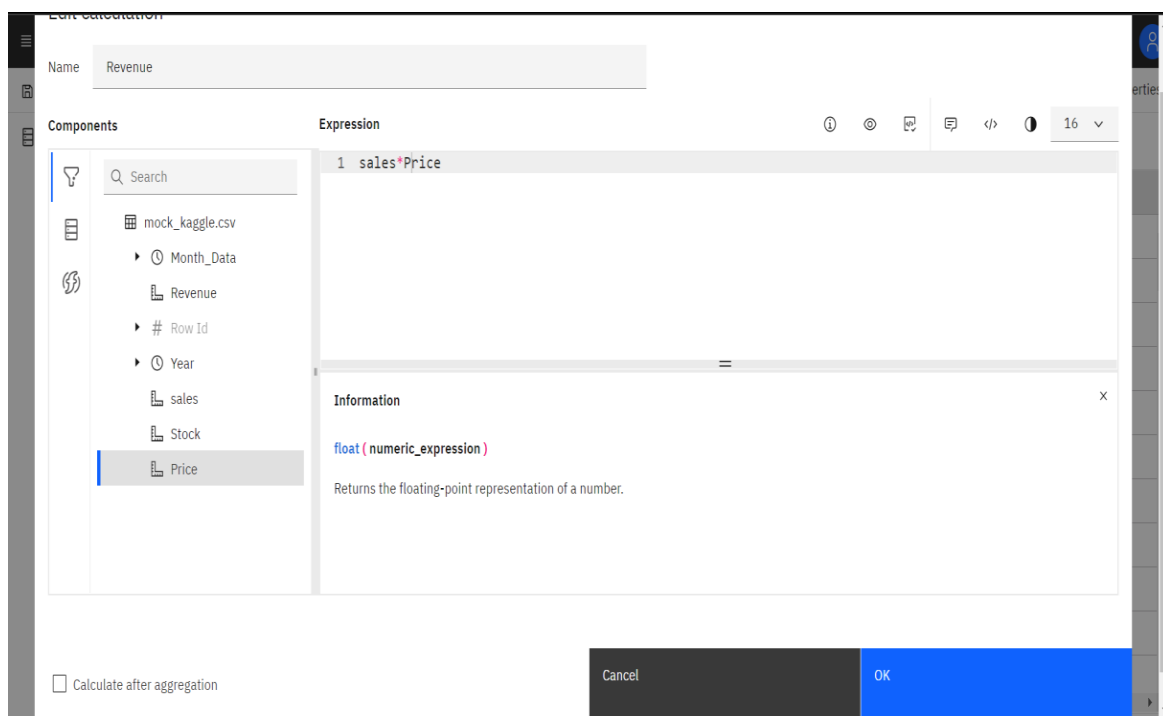
Relationships

Custom tables

	Month_Data	Revenue	Row Id	Year	sales	Stock
1	1	0	1	1/1/14	0	4972
1	1	90	2	1/2/14	70	4902
1	1	76	3	1/3/14	59	4843
1	1	120	4	1/4/14	93	4750
1	1	124	5	1/5/14	96	4654
1	1	187	6	1/6/14	145	4509
1	1	231	7	1/7/14	179	4329
1	1	414	8	1/8/14	321	4104
1	1	136	9	1/9/14	125	4459
1	1	96	10	1/10/14	88	5043
1	1	205	11	1/11/14	188	5239

Revenue Data:

- Creating a new calculation to get the revenue data.



Data module

Search

New data module

Navigation paths

mock_kaggle.csv

Month_Data

Revenue

Row Id

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	90.3	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	136.25	9	1/9/14	125	4459
1	95.92	10	1/10/14	88	5043
1	204.92000000000002	11	1/11/14	188	5239

Year Data:

IBM Cognos Analytics with Watson

New data module

90%

Search content

Grid

Relationships

Custom tables

Search

New data module

Naviga... paths

mock_k...le.csv

Month_Data

Revenue

Row Id

Year

sales

Stock

Price

Grid

Row Id

Year

sales

Stock

1

1/1/14

0

4972

2

1/2/14

70

4902

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:

IBM Cognos Analytics with Watson

New data module

30

Search content

Grid

Relationships

Custom tables

Properties

Search

New data module

Naviga... paths

mock_k...le.csv

Month_Data

Revenue

Row Id

Year

sales

Stock

Price

Row Id	Year	sales	Stock
1	1/1/14	0	4972
2	1/2/14	70	4902
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

General

Label

Hide from users

Expression

Usage

Aggregate

Data type

Represents

Default

Lookup reference

Description

Stock Data:

IBM Cognos Analytics with Watson

New data module

90%

Search content

Grid

Relationships

Custom tables

Id

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

4459

1/10/14

88

5043

1/11/14

188

5239

Properties

General

Label

Hide from users

Expression

Usage

Aggregate

Data type

Represents

Default

Lookup reference

Description

Stock

☐

View or edit

Measure

Total

Integer

None

General

Label

Hide from users

Expression

Usage

Aggregate

Data type

Represents

Default

Lookup reference

Description

Stock

☐

View or edit

Measure

Total

Integer

None

Price Data:

IBM Cognos Analytics with Watson

New data module

304

Search content

?

1

Grid

Relationships

Custom tables

↑↓	ir	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	5043	1
	1/14	188	5239	1

Properties

General

Label

Price

Hide from users

Expression

View or edit

Usage

Measure

Aggregate

Total

Data type

Decimal

Represents

Default

Lookup reference

None

Description

Data module

Search

New data module

Naviga... paths

mock_k...le.csv

Month_Data

Revenue

Row Id

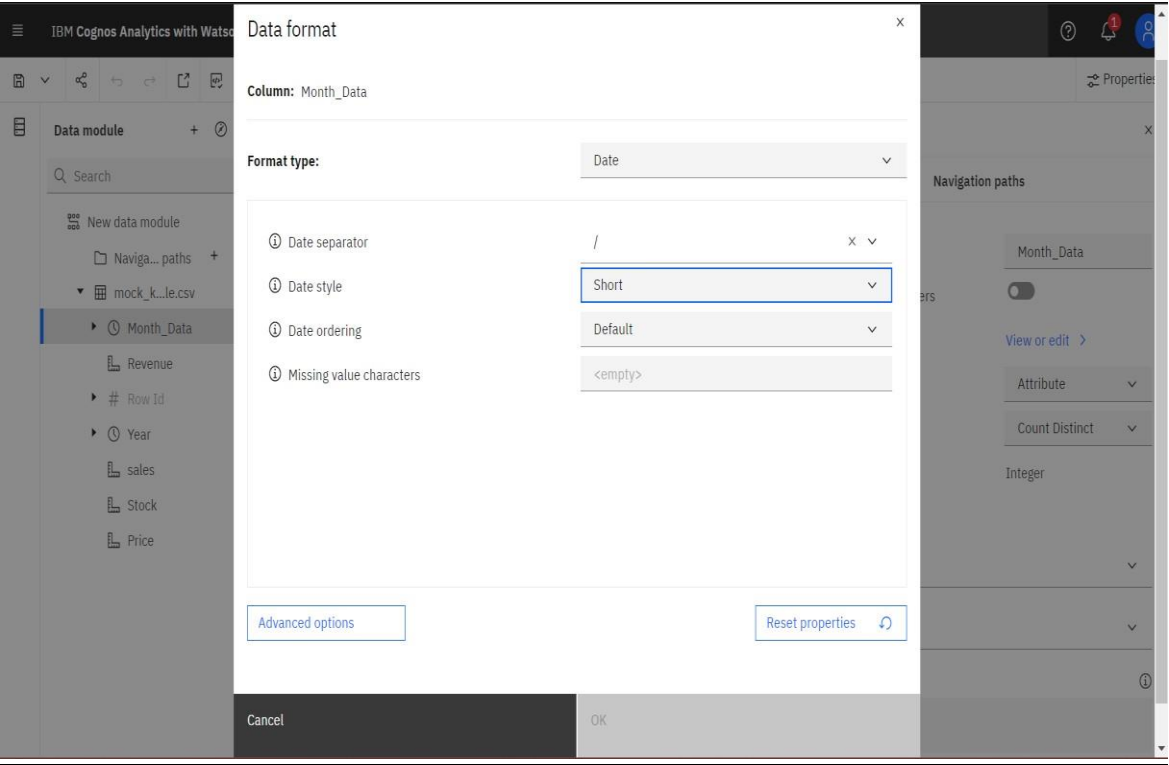
Year

sales

Stock

Price

Month-Format Data:



Grid

Relationships

Custom tables

Search

New data module

Naviga... paths

mock_k...le.csv

Month_Data

Revenue

Row Id

Year

sales

Stock

Price

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	187.05	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

Properties

General

Navigation paths

Label

Month_Data

Hide from users

Expression

View or edit

Usage

Attribute

Aggregate

Count Distinct

Data type

Integer

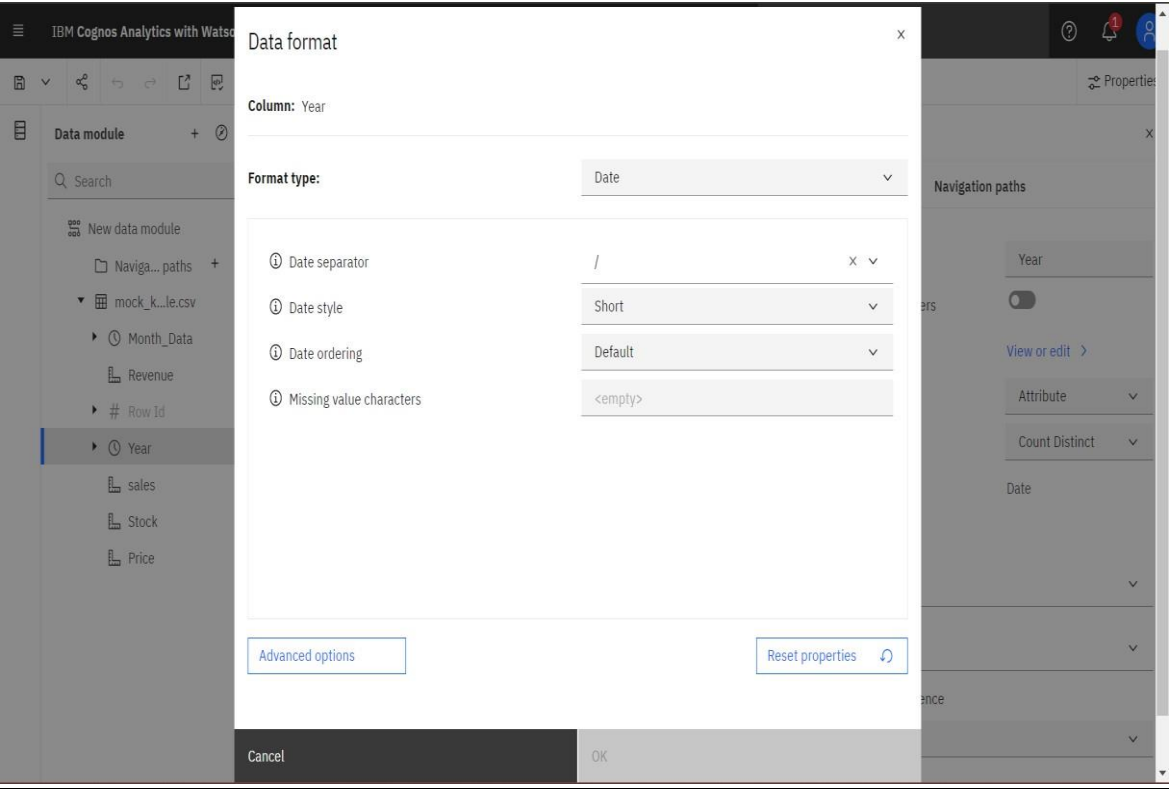
Represents

Time

Month

Description

Year-Format Data:



Grid

Relationships

Custom tables

Search

New data module

Navigation paths

mock_k...le.csv

Month_Data

Revenue

Row Id

Year

sales

Stock

Price

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

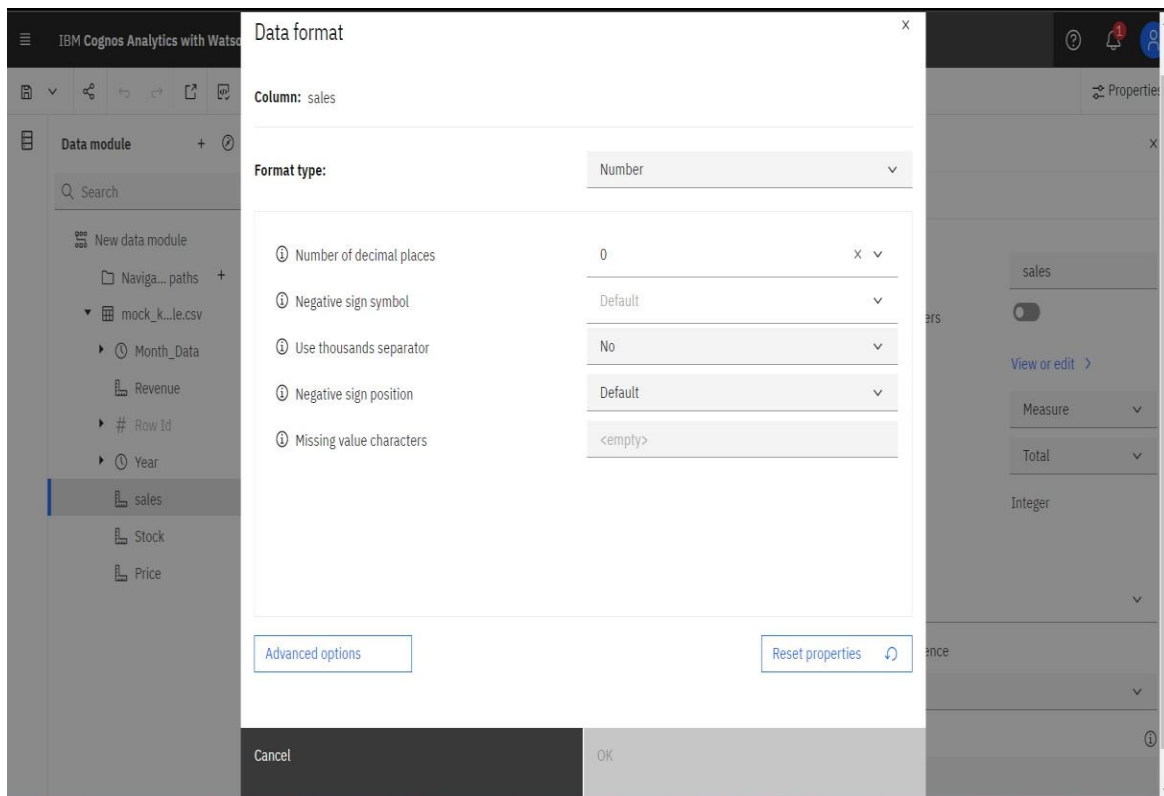
Time

Year

Lookup reference

None

Sales-Format Data:



Data module

Search

New data module

Naviga...paths

mock_k...le.csv

Month_Data

Revenue

Row Id

Year

sales

Stock

Price

Grid

Relationships

Custom tables

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:

The screenshot displays the IBM Cognos Analytics interface with a 'Data format' dialog box open. The dialog is titled 'Data format' and shows the 'Column: Stock' selected. The 'Format type' is set to 'Number'. Below this, several formatting options are listed with their current values:

Property	Value
Number of decimal places	0
Negative sign symbol	Default
Use thousands separator	No
Negative sign position	Default
Missing value characters	<empty>

At the bottom of the dialog, there are two buttons: 'Advanced options' and 'Reset properties'.

The background interface shows the 'Data module' on the left with a search bar and a list of data sources including 'mock_k...le.csv', 'Month_Data', 'Revenue', 'Row Id', 'Year', 'sales', 'Stock', and 'Price'. The 'Stock' source is currently selected. On the right, a 'Properties' panel is partially visible, showing settings for 'Stock' such as 'Measure' set to 'Total' and 'Integer'.

IBM Cognos Analytics with Watson

Data module

+

Search

New data module

Naviga...paths

mock_k...le.csv

Month_Data

Revenue

Row Id

Year

sales

Stock

Price

Data format

Column: Stock

Format type: Number

Number of decimal places0

Negative sign symbolDefault

Use thousands separatorNo

Negative sign positionDefault

Missing value characters<empty>

Advanced options

Reset properties

Properties

Stock

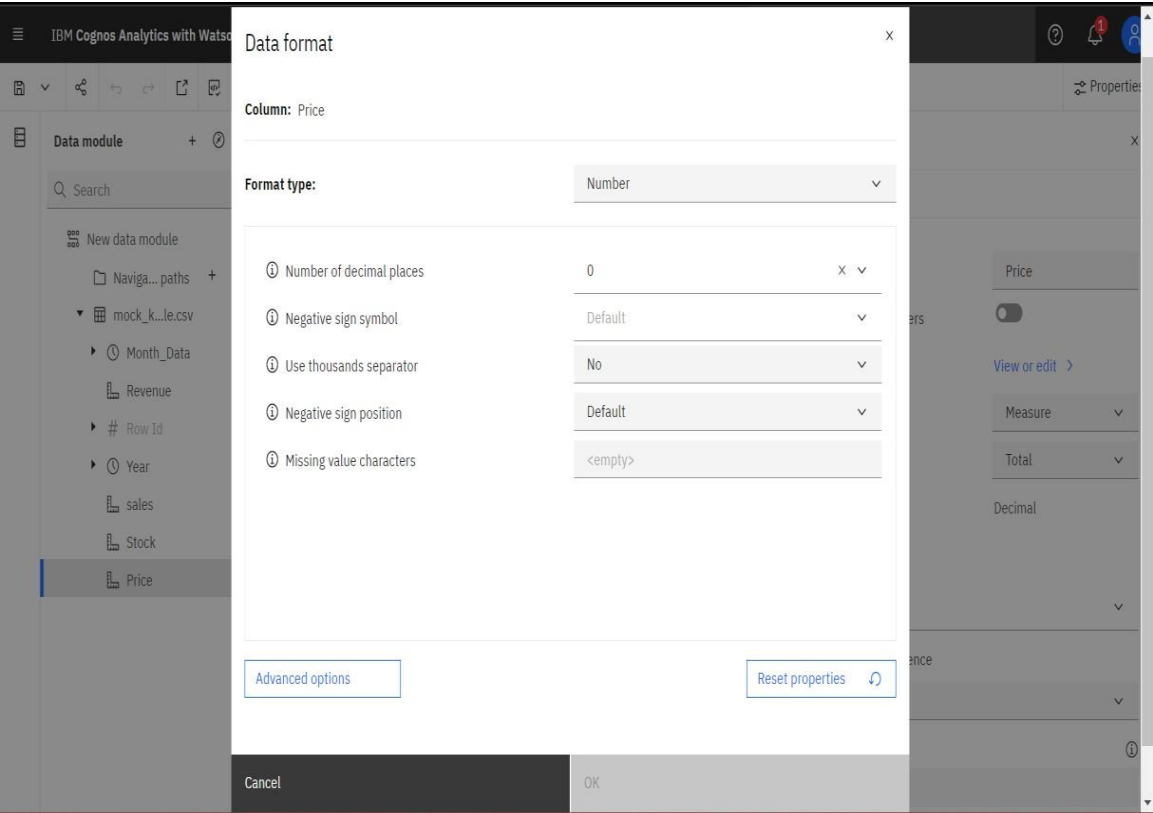
View or edit

Measure

Total

Integer

Price-Format Data:



Grid

Relationships

Custom tables

Properties

Search

New data module

Naviga... paths

mock_k...le.csv

Month_Data

Revenue

Row Id

Year

sales

Stock

Price

ir	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	5043	1
1/14	188	5239	1
2/14	121	5118	1

General

Label

Price

Hide from users

Expression

View or edit

Usage

Measure

Aggregate

Total

Data type

Decimal

Represents

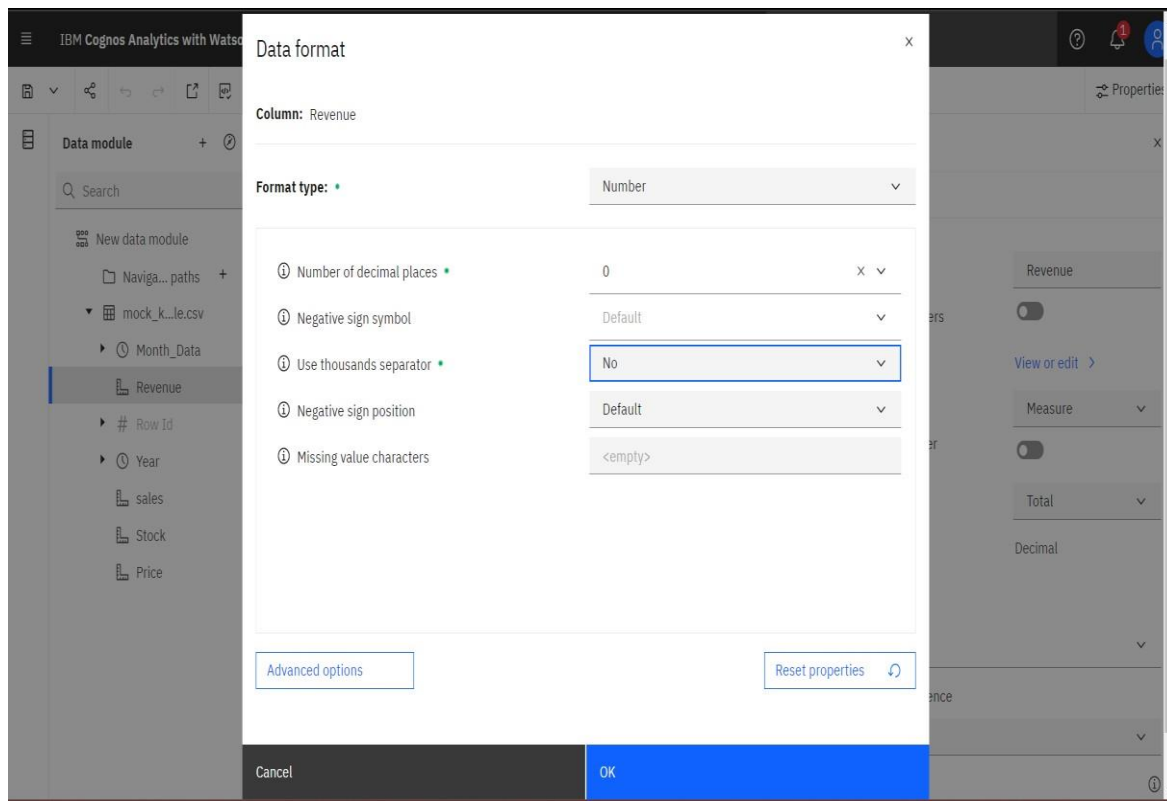
Default

Lookup reference

None

Description

Revenue-Format Data:



Grid

Relationships

Custom tables

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
124	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
132	12	1/12/14	121

Properties

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

Data module

Search

New data module

Naviga... paths

mock_k...le.csv

Month_Data

Revenue

Row Id

Year

sales

Stock

Price

Prepared Data Link(Using Cognos Analytics):

https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.public_folders%2FSprint%2B1%2FNew%2Bdata%2Bmodule