

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

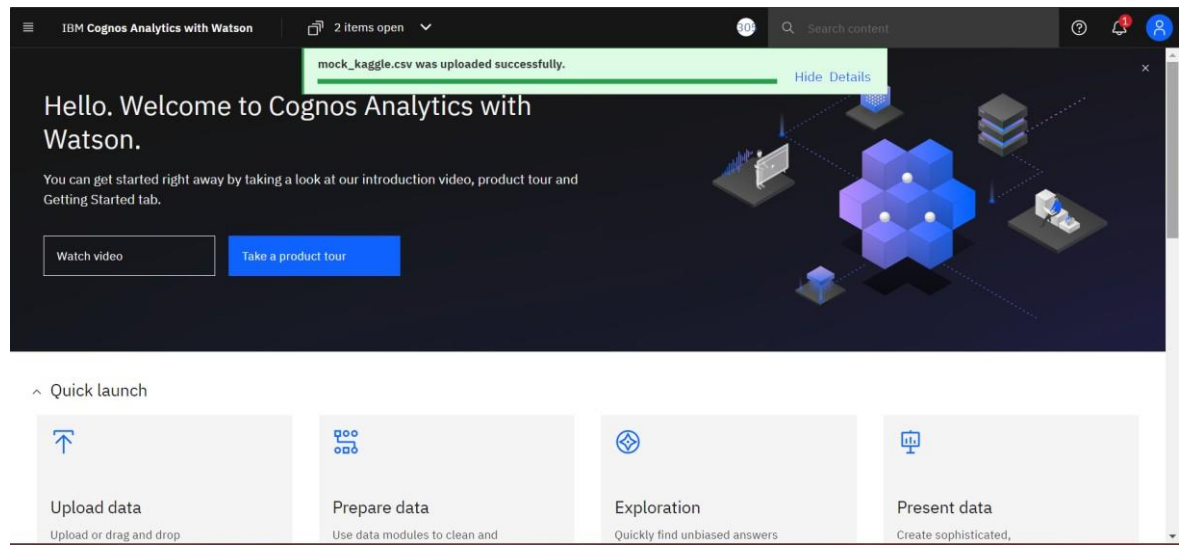
Sprint -1:

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 interface. The top navigation bar includes 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.

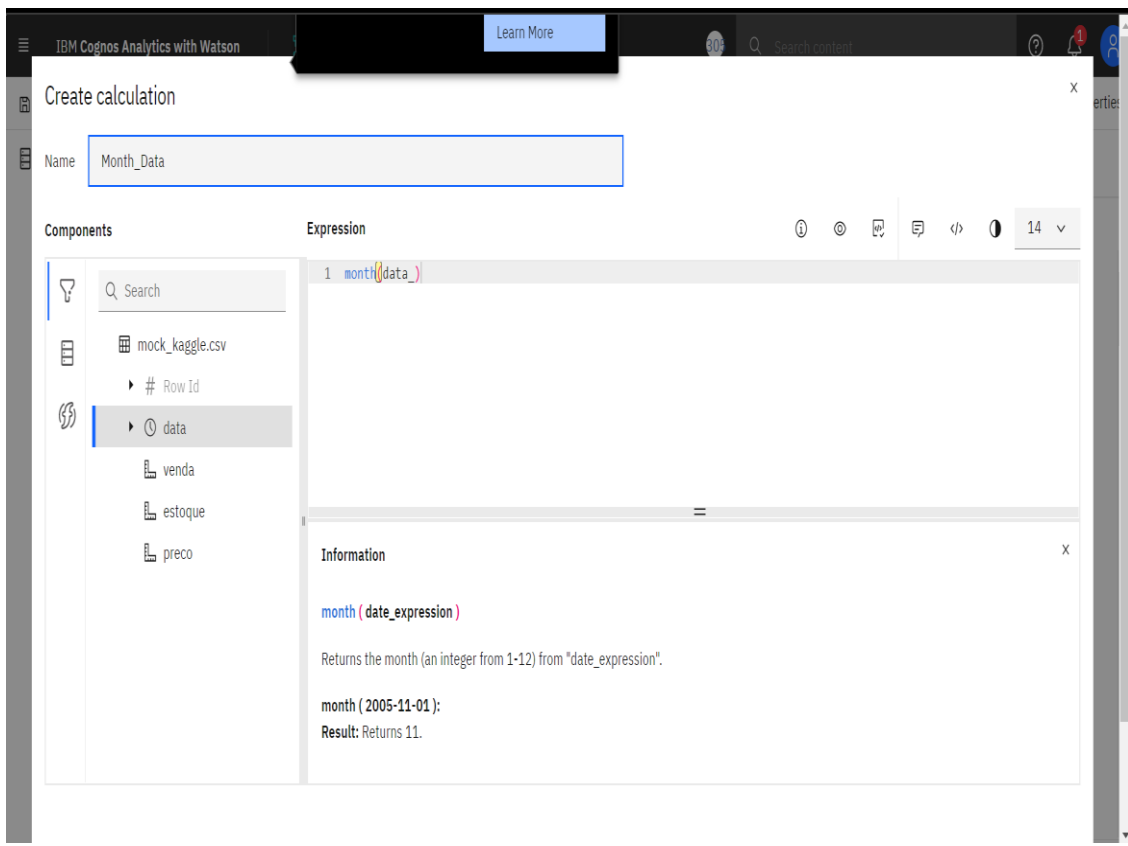
The left sidebar, titled 'Data module', contains a search bar and a list of modules. The 'mock_kaggle.csv' module is selected, revealing a tree structure of fields: 'Month_Data', 'Revenue', 'Row Id', 'Year', 'sales', 'Stock', and 'Price'.







The central grid view shows a table with 11 rows of data. The columns are 'Month_Data', 'Revenue', 'Row Id', 'Year', 'sales', and 'Stock'. The data represents monthly sales and stock levels for the year 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	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

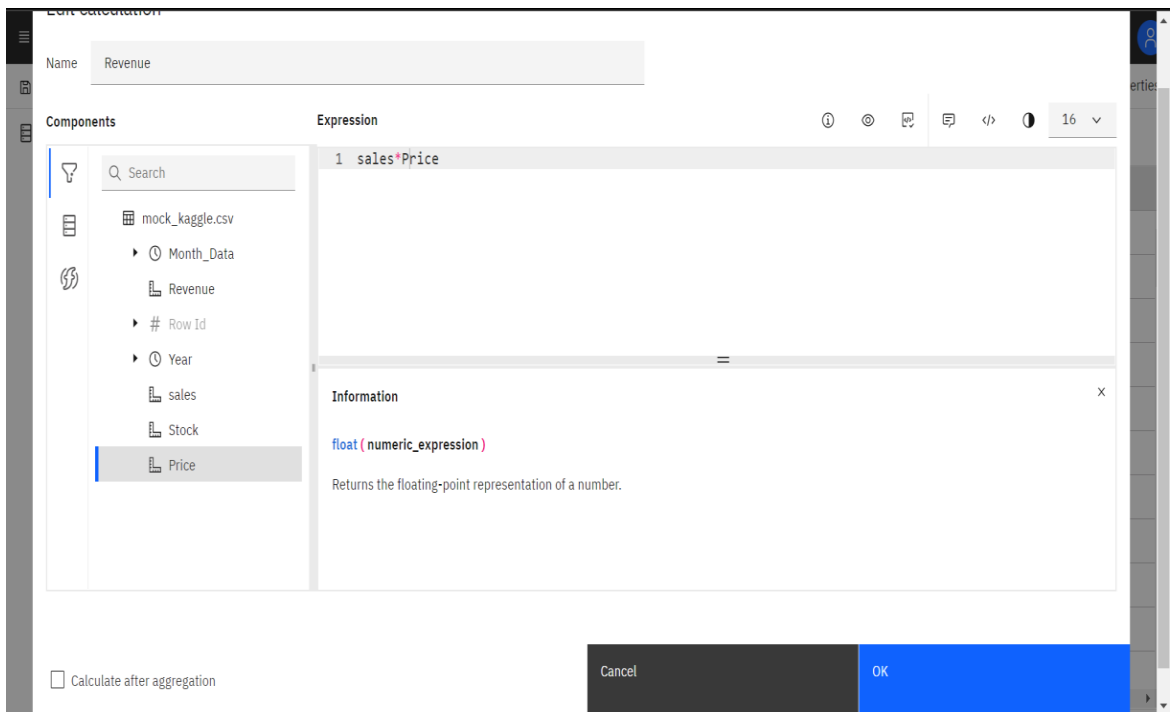
 Relationships

 Custom tables

	Month_Data	Revenue	Row Id	Year	sales	Stock
1		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

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

Relationships

Custom tables

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

60%

Search content

?

1

Grid

Relationships

Custom tables

Properties

Data module

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

sales

Hide from users

Expression

View or edit

Usage

Measure

Aggregate

Total

Data type

Integer

Represents

Default

Lookup reference

None

Description

Stock Data:

IBM Cognos Analytics with Watson

New data module

Search content

Properties

Data module

Grid Relationships Custom tables

Search

New data module

Naviga... paths

mock_k...le.csv

Month_Data

Revenue

Row Id

Year

sales

Stock

Price

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 Stock

Hide from users

Expression View or edit

Usage Measure

Aggregate Total

Data type Integer

Represents

Default

Lookup reference None

Description

Price Data:

IBM Cognos Analytics with Watson

New data module

90%

Search content

?

1

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

General

LabelPrice

Hide from users

ExpressionView or edit

UsageMeasure

AggregateTotal

Data typeDecimal

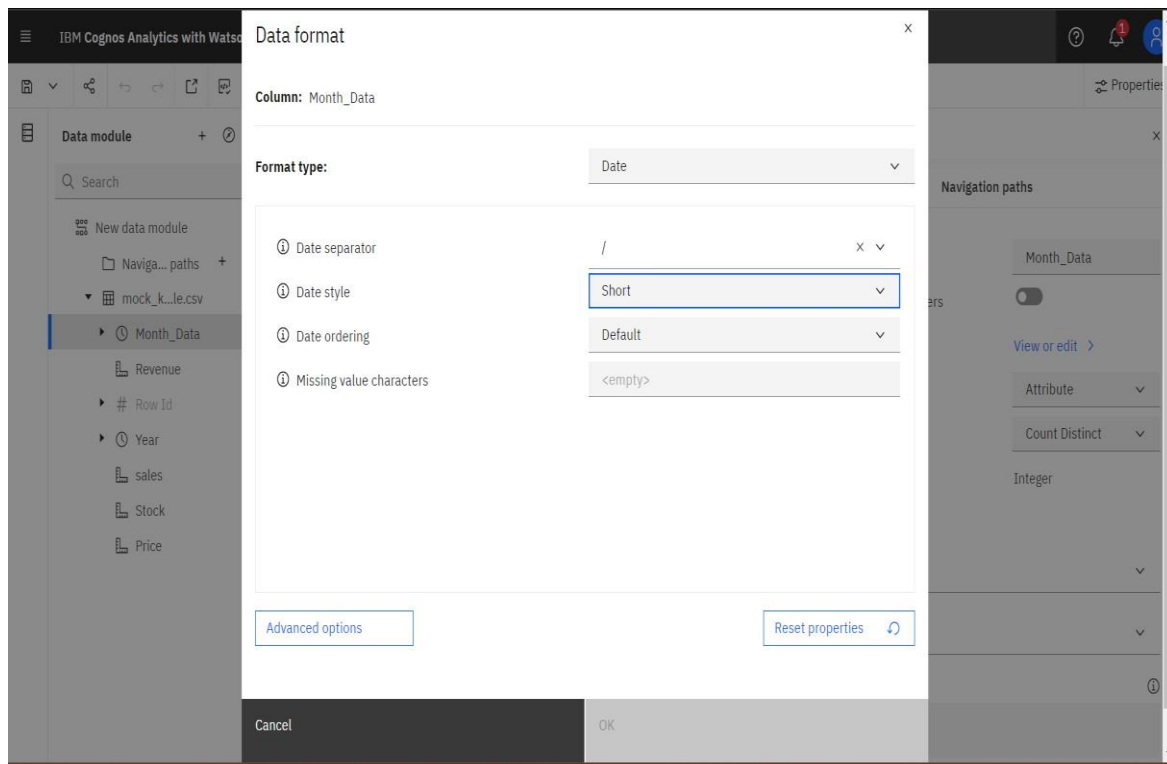
Represents

Default

Lookup referenceNone

Description

Month-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
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:

The screenshot shows the 'Data format' dialog box in IBM Cognos Analytics. The dialog is titled 'Data format' and has a close button (X) in the top right corner. It is currently configured for the 'Column: Year'.

Format type: A dropdown menu is set to 'Date'.

Configuration options:

- Date separator:** A dropdown menu set to '/'. There is a small 'x' icon and a dropdown arrow next to it.
- Date style:** A dropdown menu set to 'Short'.
- Date ordering:** A dropdown menu set to 'Default'.
- Missing value characters:** A text field containing '<empty>'.

Buttons:

- Advanced options:** A button located at the bottom left of the configuration area.
- Reset properties:** A button located at the bottom right of the configuration area, with a circular arrow icon.
- Cancel:** A button at the bottom left of the dialog.
- OK:** A button at the bottom right of the dialog.

Background context:

- The top bar of the application shows 'IBM Cognos Analytics with Watson'.
- The left sidebar shows a 'Data module' with a search bar and a list of items: 'New data module', 'Navigation paths', 'mock_k...le.csv', 'Month_Data', 'Revenue', 'Row Id', 'Year' (highlighted), 'sales', 'Stock', and 'Price'.
- The right sidebar shows a 'Properties' panel with a 'Navigation paths' section containing a 'Year' item with a toggle switch and a 'View or edit' link. Below this are dropdown menus for 'Attribute', 'Count Distinct', and 'Date'.

Grid

Relationships

Custom tables

Search

New data module

Naviga... paths

mock_k...le.csv

Month_Data

Revenue

Row Id

Year

sales

Stock

Price

nth_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

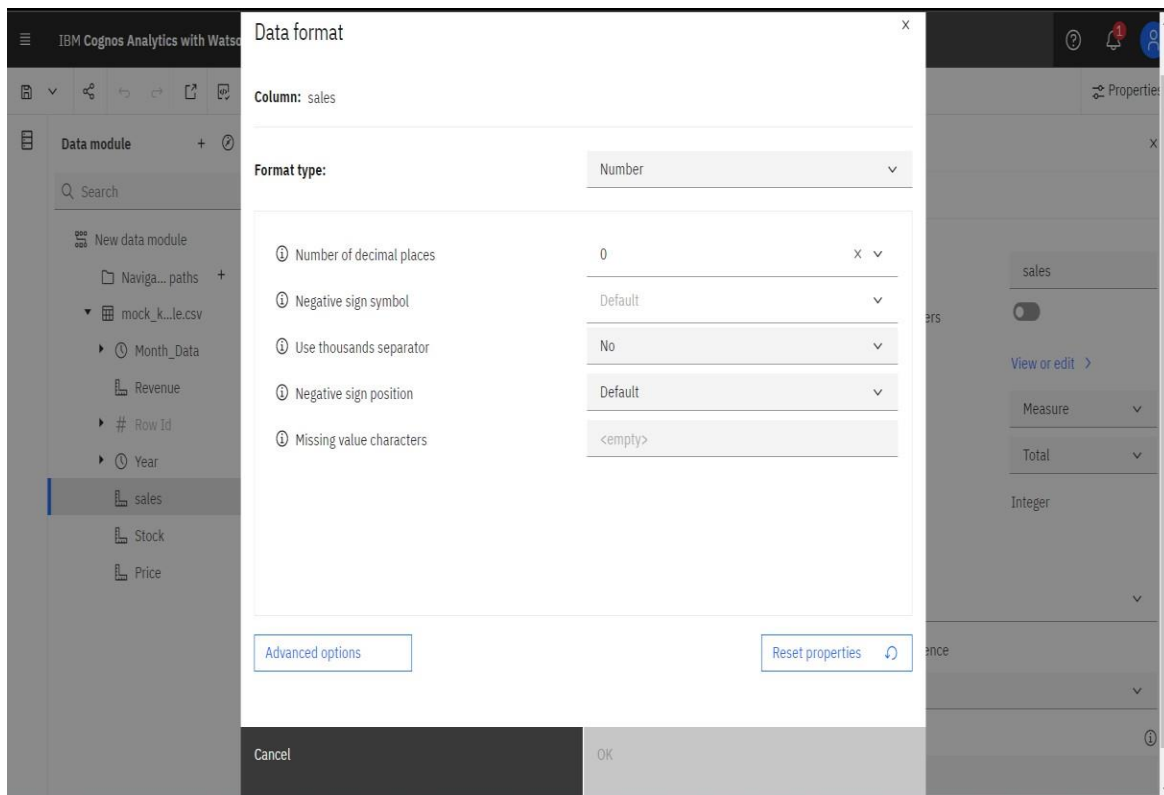
Time







Year

Lookup reference

None

Sales-Format Data:



Properties

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' configuration. 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 a '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' and 'Total'.

IBM Cognos Analytics with Watson

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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

① Number of decimal places

0

x

① Negative sign symbol

Default

① Use thousands separator

No

① Negative sign position

Default

① Missing value characters

<empty>

Advanced options

Reset properties

?

🔔

👤

Properties

✕

Stock

View or edit

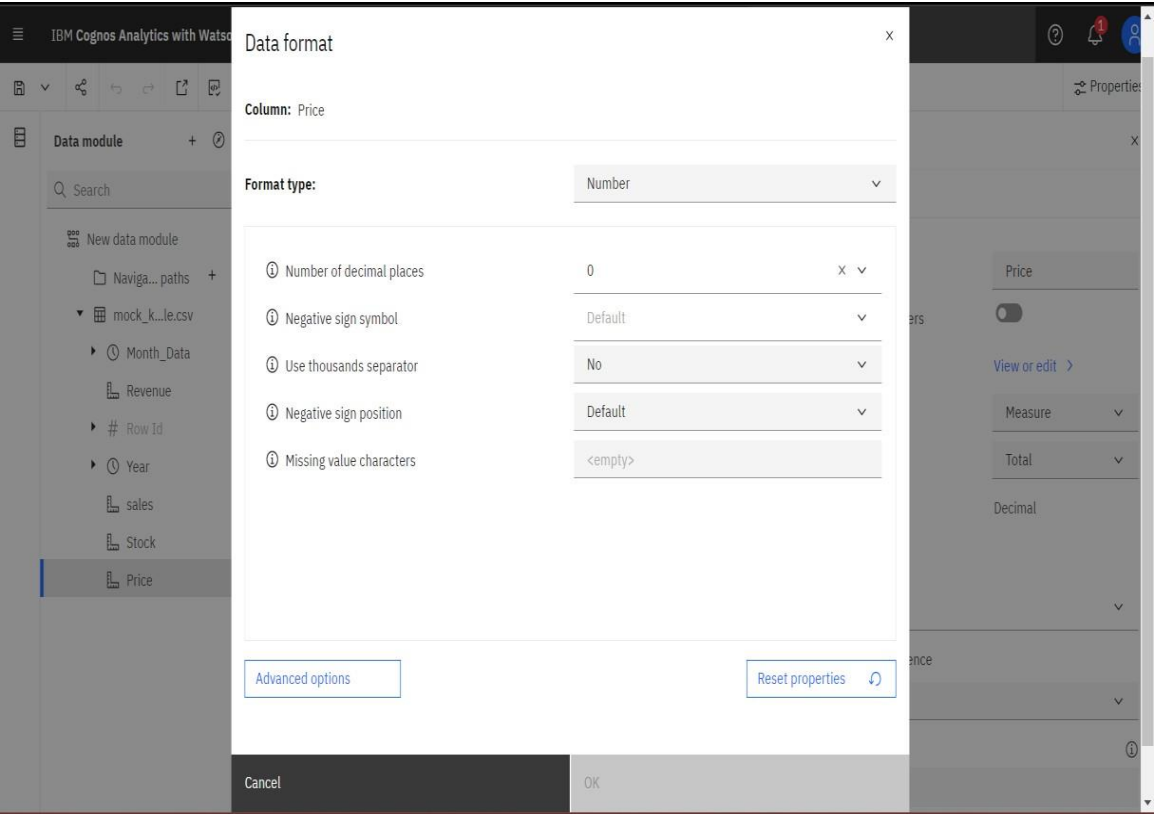
Measure







Total

Integer

ence

Price-Format Data:





Properties

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

↑ ↓	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	

Properties

General

Label

Price

Hide from users

Expression

View or edit

Usage

Measure

Aggregate

Total

Data type

Decimal

Represents

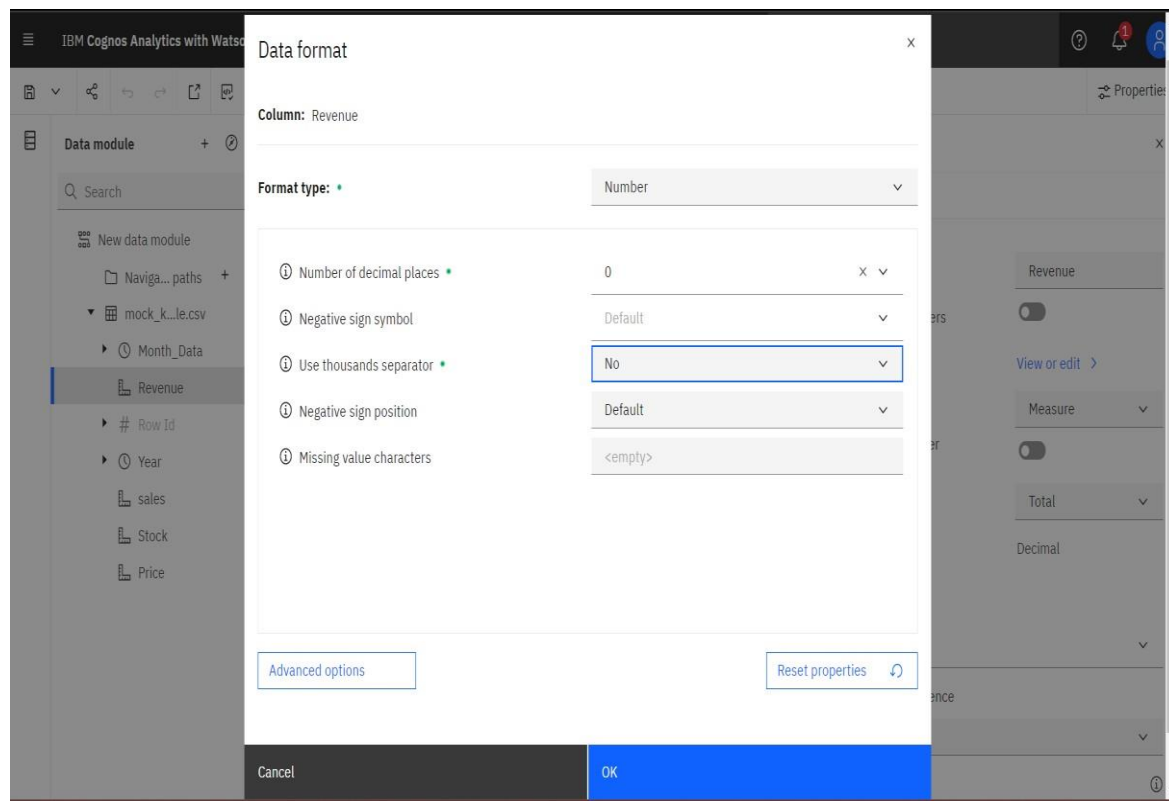
Default

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

LabelRevenue

Hide from users

ExpressionView or edit

UsageMeasure

Calculate after aggregation

AggregateTotal

Data typeDecimal

Represents

Default

Lookup referenceNone

Description

Search

- New data module
- Naviga... paths
- mock_k...le.csv
 - Month_Data
 - Revenue
 - # Row Id
 - Year
 - sales
 - Stock
 - Price

Revenue

☐

View or edit

Measure

☐

Total

Decimal

None

Prepared Data Link(Using Cognos Analytics):

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