

Project Development Phase

Delivery of Sprint-1

Date	29 October 2022
Team ID	PNT2022TMID06088
Project Name	Retail Store Stock Inventory Analytics

Project Development Phase:

Sprint-1:

- Data Collection
- Data Preparation

Sprint-2:

- Dashboard Creation

Sprint-3:

- Report Creation

Sprint-4:

- Story Creatio

TEAM DETAILS

- 1. DHIVAGAR.R [TEAM LEADER]**
- 2. MANIKANDAN.R [TEAM MEMBER]**
- 3. NAVEEN.M [TEAM MEMBER]**
- 4. RAGULRAMKARTHI.S [TEAM MEMBER]**

Sprint-1:

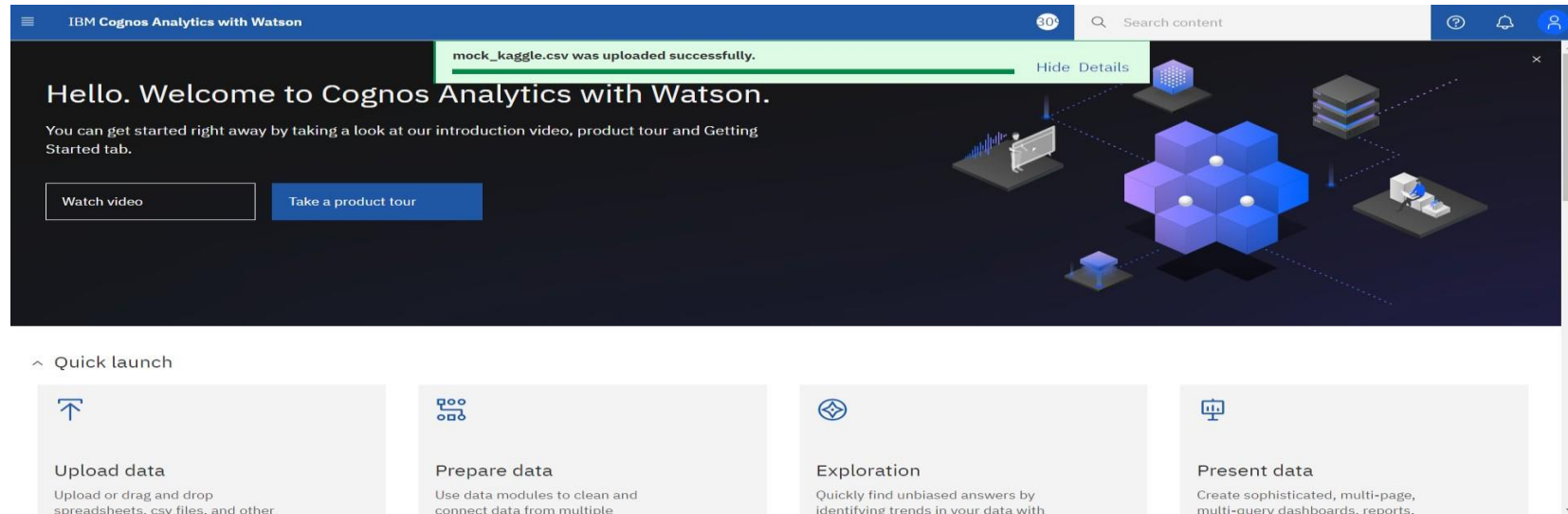
Data Collection:

Download the Dataset

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

Load the Dataset:

Tool used – IBM Cognos



Data Preparation:

Prepare the Dataset

Data module

Search

- Retail Store Story Analytics
 - Navigation paths
 - mock_kaggle.csv**
 - # Row Id
 - ⌚ data
 - 📊 venda
 - 📊 estoque
 - 📊 preco

Grid Relationships Custom tables

Row Id	data	venda	estoque	preco
1	2014-01-01	0	4972	1.29
2	2014-01-02	70	4902	1.29
3	2014-01-03	59	4843	1.29
4	2014-01-04	93	4750	1.29
5	2014-01-05	96	4654	1.29
6	2014-01-06	145	4509	1.29
7	2014-01-07	179	4329	1.29
8	2014-01-08	321	4104	1.29
9	2014-01-09	125	4459	1.09
10	2014-01-10	88	5043	1.09
11	2014-01-11	188	5239	1.09
12	2014-01-12	121	5118	1.09
13	2014-01-13	134	4984	1.09

Month data:

The screenshot shows the 'Create calculation' dialog in IBM Cognos Analytics. The dialog has a title bar with 'IBM Cognos Analytics with Watson' and a search bar. The main area is divided into two panes: 'Components' on the left and 'Expression' on the right. The 'Components' pane shows a search bar and a list of components: 'mock_kaggle.csv', '# Row Id', 'data', 'venda', 'estoque', and 'preco'. The 'Expression' pane shows the expression '1 Month (data_)'. Below the expression pane is a 'Validation Results' section with a green checkmark and the text 'The expression is valid.'. At the bottom of the dialog, there is a checkbox labeled 'Calculate after aggregation' which is unchecked, and two buttons: 'Cancel' and 'OK'.

IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

Search content

Create calculation

Name: M_data

Components

Search

- mock_kaggle.csv
 - # Row Id
 - data
 - venda
 - estoque
 - preco

Expression

1 Month (data_)

Validation Results

✓ The expression is valid.

☐ Calculate after aggregation

Cancel OK

IBM Cognos Analytics with Watson

Retail Store Stock In ... Analytics

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Search content

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Properties

📄

Data module

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🔍 Search

📄 Retail Store St...tory Analytics

📁 Navigation paths

📄 mock_kaggle.csv

▶ # M_data

▶ # Row Id

▶ ⌚ data

📄 venda

📄 estoque

📄 preco

📄 Grid

🔗 Relationships

📄 Custom tables

↕	M_data	Row Id	data	venda	estoque	preco
1		1	2014-01-01	0	4972	1.29
1		2	2014-01-02	70	4902	1.29
1		3	2014-01-03	59	4843	1.29
1		4	2014-01-04	93	4750	1.29
1		5	2014-01-05	96	4654	1.29
1		6	2014-01-06	145	4509	1.29
1		7	2014-01-07	179	4329	1.29
1		8	2014-01-08	321	4104	1.29
1		9	2014-01-09	125	4459	1.09
1		10	2014-01-10	88	5043	1.09
1		11	2014-01-11	188	5239	1.09
1		12	2014-01-12	121	5118	1.09
1		13	2014-01-13	134	4984	1.09

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Data module

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🔍 Search

📁 Retail Store St...tory Analytics

📁 Navigation paths

📁 mock_kaggle.csv

▶ 🕒 M_data

▶ # Row Id

▶ 🕒 data

📊 venda

📊 estoque

📊 preco

📊 Grid

🔗 Relationships

📄 Custom tables

↕	M_data	Row Id	data	venda	estoque
1		1	2014-01-01	0	4972
1		2	2014-01-02	70	4902
1		3	2014-01-03	59	4843
1		4	2014-01-04	93	4750
1		5	2014-01-05	96	4654
1		6	2014-01-06	145	4509
1		7	2014-01-07	179	4329
1		8	2014-01-08	321	4104
1		9	2014-01-09	125	4459
1		10	2014-01-10	88	5043
1		11	2014-01-11	188	5239
1		12	2014-01-12	121	5118
1		13	2014-01-13	134	4984

Properties

×

General

Navigation paths

Label

M_data

Hide from users

🔴

Expression

View or edit >

Usage

Attribute

▼

Aggregate

Count Distinct

▼

Data type

Integer

Represents

Time

▼

Month

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Description

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Revenue data:

IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

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Search content

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🔗 Properties

Data module

🔍 Search

Retail Store St...tory Analytics

📁 Navigation paths

📄 mock_kaggle.csv

🕒 M_data

📊 Revenue

Row Id

🕒 Year

📊 Sales

📊 Stock

📊 Price

Grid

Relationships

Custom tables

↕	M_data	Revenue	Row Id	Year	Sales
1		0	1	1/1/14	0
1		90.3	2	1/2/14	70
1		76.11	3	1/3/14	59
1		119.97	4	1/4/14	93
1		123.84	5	1/5/14	96
1		187.05	6	1/6/14	145
1		230.91	7	1/7/14	179
1		414.09000000000003	8	1/8/14	321
1		136.25	9	1/9/14	125
1		95.92	10	1/10/14	88
1		204.92000000000002	11	1/11/14	188
1		131.89000000000001	12	1/12/14	121
1		146.06	13	1/13/14	134

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

Year data:

The screenshot displays the IBM Cognos Analytics user interface. At the top, there's a header bar with the logo, navigation icons, and search functionality. Below the header, the main workspace is divided into three sections:

- Data module:** A sidebar on the left containing a tree view of the data source hierarchy. It shows 'Retail Store St...tory Analytics' as the root, followed by 'Navigation paths', 'mock_kaggle.csv', and several fields: 'M_data', '# Row Id', 'Year', 'venda', 'estoque', and 'preco'. The 'Year' field is currently selected.
- Grid:** The central area displaying a table of data. The columns are 'M_data', 'Row Id', 'Year', 'venda', and 'estoque'. The data rows show dates from 2014-01-01 to 2014-01-13, with corresponding values for 'venda' and 'estoque'.
- Properties:** A panel on the right side, titled 'Properties', which contains settings for the selected field ('Year'). It includes options like 'Label', 'Hide from users', 'Expression', 'Usage', 'Aggregate', 'Data type', 'Represents', 'Lookup reference', and 'Description'.

M_data	Row Id	Year	venda	estoque
1	1	2014-01-01	0	4972
1	2	2014-01-02	70	4902
1	3	2014-01-03	59	4843
1	4	2014-01-04	93	4750
1	5	2014-01-05	96	4654
1	6	2014-01-06	145	4509
1	7	2014-01-07	179	4329
1	8	2014-01-08	321	4104
1	9	2014-01-09	125	4459
1	10	2014-01-10	88	5043
1	11	2014-01-11	188	5239
1	12	2014-01-12	121	5118
1	13	2014-01-13	134	4984

Sales data:

IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

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Search content

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Properties

Data module

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🔍 Search

📁 Retail Store St...tory Analytics

📁 Navigation paths

📁 mock_kaggle.csv

🕒 M_data

📄 # Row Id

🕒 Year

📄 Sales

📄 estoque

📄 preco

Grid

Relationships

Custom tables

↕	M_data	Row Id	Year	Sales	estoque
1		1	2014-01-01	0	4972
1		2	2014-01-02	70	4902
1		3	2014-01-03	59	4843
1		4	2014-01-04	93	4750
1		5	2014-01-05	96	4654
1		6	2014-01-06	145	4509
1		7	2014-01-07	179	4329
1		8	2014-01-08	321	4104
1		9	2014-01-09	125	4459
1		10	2014-01-10	88	5043
1		11	2014-01-11	188	5239
1		12	2014-01-12	121	5118
1		13	2014-01-13	134	4984

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 data:

IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

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Search content

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Properties

Data module

🔍 Search

Retail Store St...tory Analytics

📁 Navigation paths

📄 mock_kaggle.csv

🕒 M_data

Row Id

🕒 Year

📊 Sales

📊 Stock

📊 preco

Grid

Relationships

Custom tables

↕	Row Id	Year	Sales	Stock
	1	2014-01-01	0	4972
	2	2014-01-02	70	4902
	3	2014-01-03	59	4843
	4	2014-01-04	93	4750
	5	2014-01-05	96	4654
	6	2014-01-06	145	4509
	7	2014-01-07	179	4329
	8	2014-01-08	321	4104
	9	2014-01-09	125	4459
	10	2014-01-10	88	5043
	11	2014-01-11	188	5239
	12	2014-01-12	121	5118
	13	2014-01-13	134	4984

Properties

General

Label

Stock

Hide from users

☐

Expression

[View or edit](#)

Usage

Measure

Aggregate

Total

Data type

Integer

Represents

Default

Lookup reference

None

Description

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

Retail Store Stock In ... Analytics

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Search content

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🔗 Properties

📄 Data module

🔍 Search

📁 Retail Store St...tory Analytics

📁 Navigation paths

📄 mock_kaggle.csv

🕒 M_data

🔢 # Row Id

🕒 Year

📊 Sales

📊 Stock

📊 Price

📊 Grid

🔗 Relationships

📄 Custom tables

↑↓	Year	Sales	Stock	Price
	2014-01-01	0	4972	1.29
	2014-01-02	70	4902	1.29
	2014-01-03	59	4843	1.29
	2014-01-04	93	4750	1.29
	2014-01-05	96	4654	1.29
	2014-01-06	145	4509	1.29
	2014-01-07	179	4329	1.29
	2014-01-08	321	4104	1.29
	2014-01-09	125	4459	1.09
	2014-01-10	88	5043	1.09
	2014-01-11	188	5239	1.09
	2014-01-12	121	5118	1.09
	2014-01-13	134	4984	1.09

Properties

General

LabelPrice

Hide from users

ExpressionView or edit

UsageMeasure

AggregateTotal

Data typeDecimal

Represents

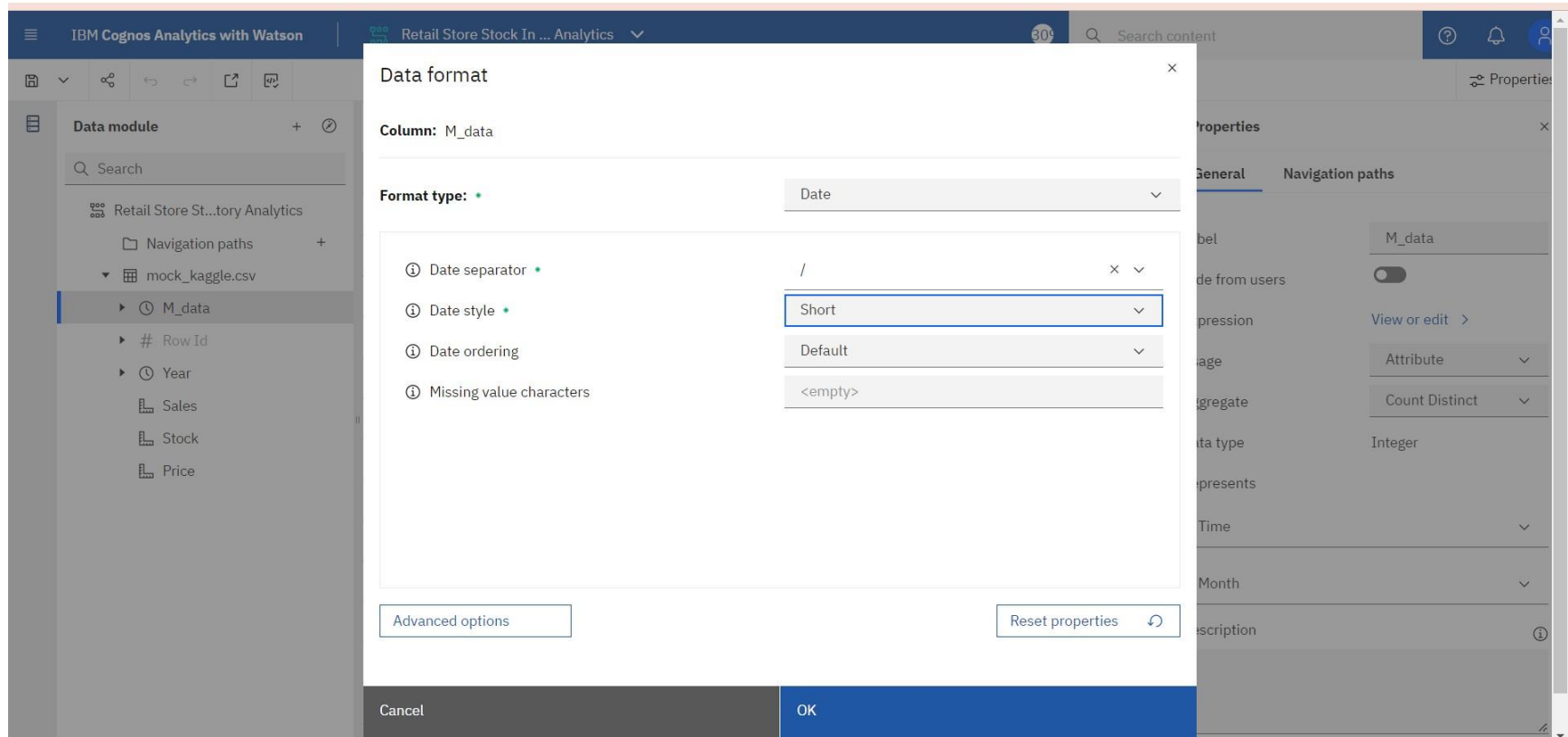
Default

Lookup referenceNone

Description

↑↓	Year	Sales	Stock	Price
	2014-01-01	0	4972	1.29
	2014-01-02	70	4902	1.29
	2014-01-03	59	4843	1.29
	2014-01-04	93	4750	1.29
	2014-01-05	96	4654	1.29
	2014-01-06	145	4509	1.29
	2014-01-07	179	4329	1.29
	2014-01-08	321	4104	1.29
	2014-01-09	125	4459	1.09
	2014-01-10	88	5043	1.09
	2014-01-11	188	5239	1.09
	2014-01-12	121	5118	1.09
	2014-01-13	134	4984	1.09

Month-Format Data:



IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

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Search content

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Grid

Relationships

Custom tables

	M_data	Row Id	Year	Sales	Stock
1		1	1/1/14	0	4972
1		2	1/2/14	70	4902
1		3	1/3/14	59	4843
1		4	1/4/14	93	4750
1		5	1/5/14	96	4654
1		6	1/6/14	145	4509
1		7	1/7/14	179	4329
1		8	1/8/14	321	4104
1		9	1/9/14	125	4459
1		10	1/10/14	88	5043
1		11	1/11/14	188	5239
1		12	1/12/14	121	5118
1		13	1/13/14	134	4984

Properties

General

Navigation paths

Label

M_data

Hide from users

Expression

View or edit >

Usage

Attribute

Aggregate

Count Distinct

Data type

Integer

Represents

Time

Month

Description

Data module

Search

Retail Store St...tory Analytics

Navigation paths

mock_kaggle.csv

M_data

Row Id

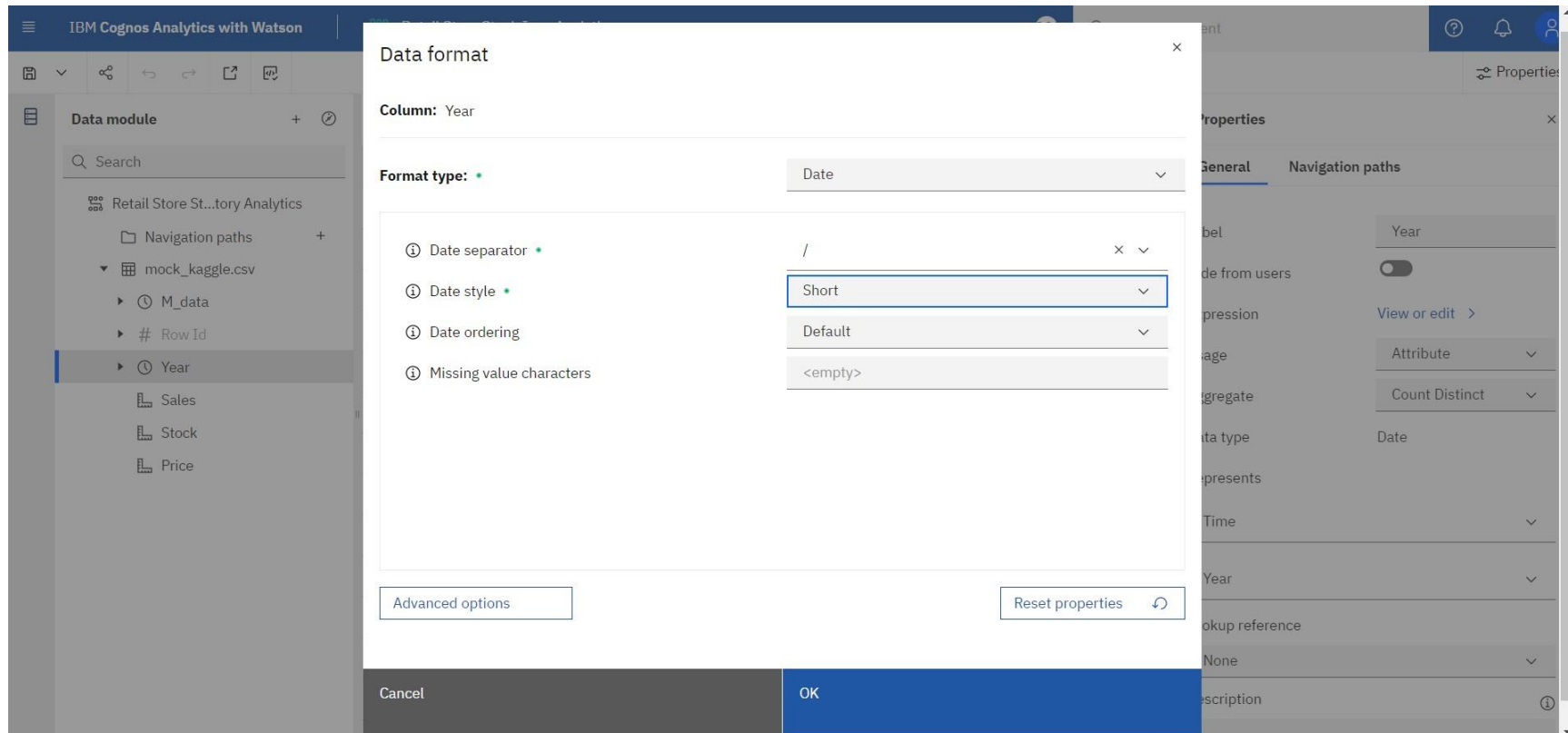
Year

Sales

Stock

Price

Year-Format Data:



IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

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Search content

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Grid

Relationships

Custom tables

↕	M_data	Row Id	Year	Sales	Stock
1		1	1/1/14	0	4972
1		2	1/2/14	70	4902
1		3	1/3/14	59	4843
1		4	1/4/14	93	4750
1		5	1/5/14	96	4654
1		6	1/6/14	145	4509
1		7	1/7/14	179	4329
1		8	1/8/14	321	4104
1		9	1/9/14	125	4459
1		10	1/10/14	88	5043
1		11	1/11/14	188	5239
1		12	1/12/14	121	5118
1		13	1/13/14	134	4984

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

Description

Data module

Search

Retail Store St...tory Analytics

Navigation paths

mock_kaggle.csv

M_data

Row Id

Year

Sales

Stock

Price

↕	M_data	Row Id	Year	Sales	Stock
1		1	1/1/14	0	4972
1		2	1/2/14	70	4902
1		3	1/3/14	59	4843
1		4	1/4/14	93	4750
1		5	1/5/14	96	4654
1		6	1/6/14	145	4509
1		7	1/7/14	179	4329
1		8	1/8/14	321	4104
1		9	1/9/14	125	4459
1		10	1/10/14	88	5043
1		11	1/11/14	188	5239
1		12	1/12/14	121	5118
1		13	1/13/14	134	4984

Properties

General

Navigation paths

Label

Year

Hide from users

Expression

View or edit >

Usage

Attribute

Aggregate

Count Distinct

Data type

Date

Represents

Time

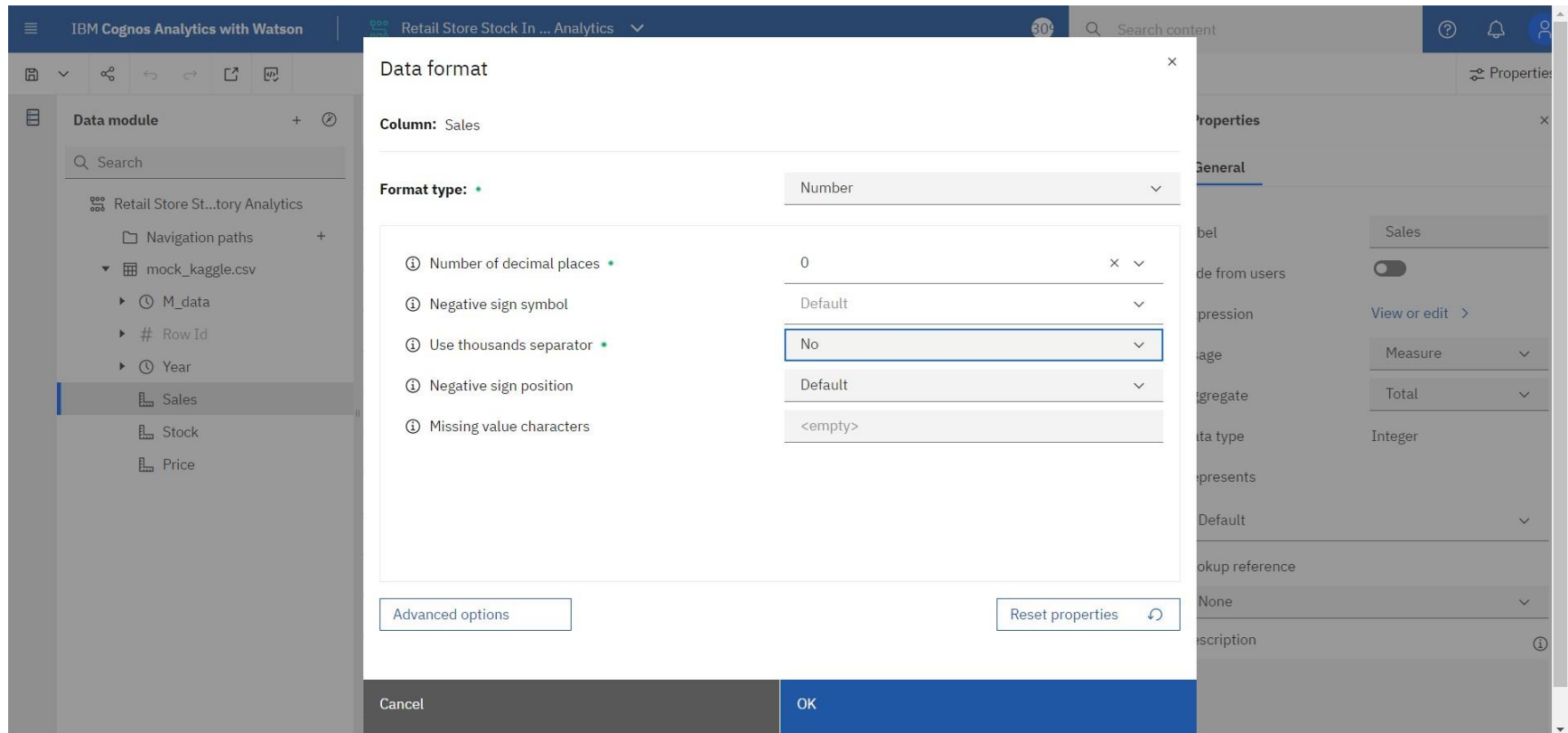
Year

Lookup reference

None

Description

Sales-Format Data:



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Data module

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🔍 Search

📁 Retail Store St...tory Analytics

📁 Navigation paths

📄 mock_kaggle.csv

▶ 🕒 M_data

▶ # Row Id

▶ 🕒 Year

📊 Sales

📊 Stock

📊 Price

📊 Grid

🔗 Relationships

📄 Custom tables

↕	M_data	Row Id	Year	Sales	Stock
1		1	1/1/14	0	4972
1		2	1/2/14	70	4902
1		3	1/3/14	59	4843
1		4	1/4/14	93	4750
1		5	1/5/14	96	4654
1		6	1/6/14	145	4509
1		7	1/7/14	179	4329
1		8	1/8/14	321	4104
1		9	1/9/14	125	4459
1		10	1/10/14	88	5043
1		11	1/11/14	188	5239
1		12	1/12/14	121	5118
1		13	1/13/14	134	4984

Properties

General

LabelSales

Hide from users

ExpressionView or edit >

UsageMeasure

AggregateTotal

Data typeInteger

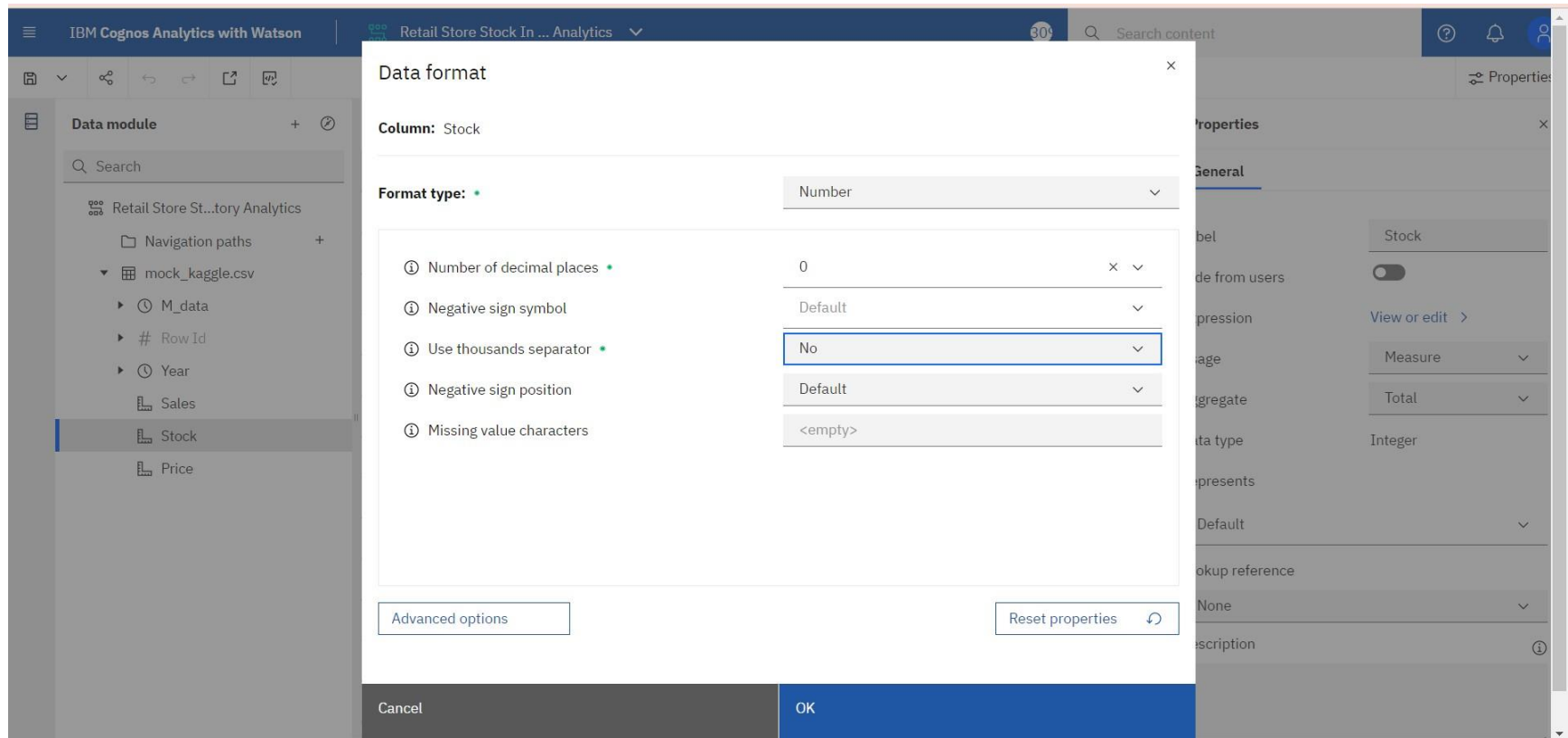
Represents

Default

Lookup referenceNone

Description

Stock-Format Data:



IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

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Search content

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Grid

Relationships

Custom tables

↑↓	Row Id	Year	Sales	Stock	P
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	
12		1/12/14	121	5118	
13		1/13/14	134	4984	

Properties

General

Label

Stock

Hide from users

☐

Expression

View or edit >

Usage

Measure

Aggregate

Total

Data type

Integer

Represents

Default

Lookup reference

None

Description

Data module

Search

Retail Store St...tory Analytics

Navigation paths

mock_kaggle.csv

M_data

Row Id

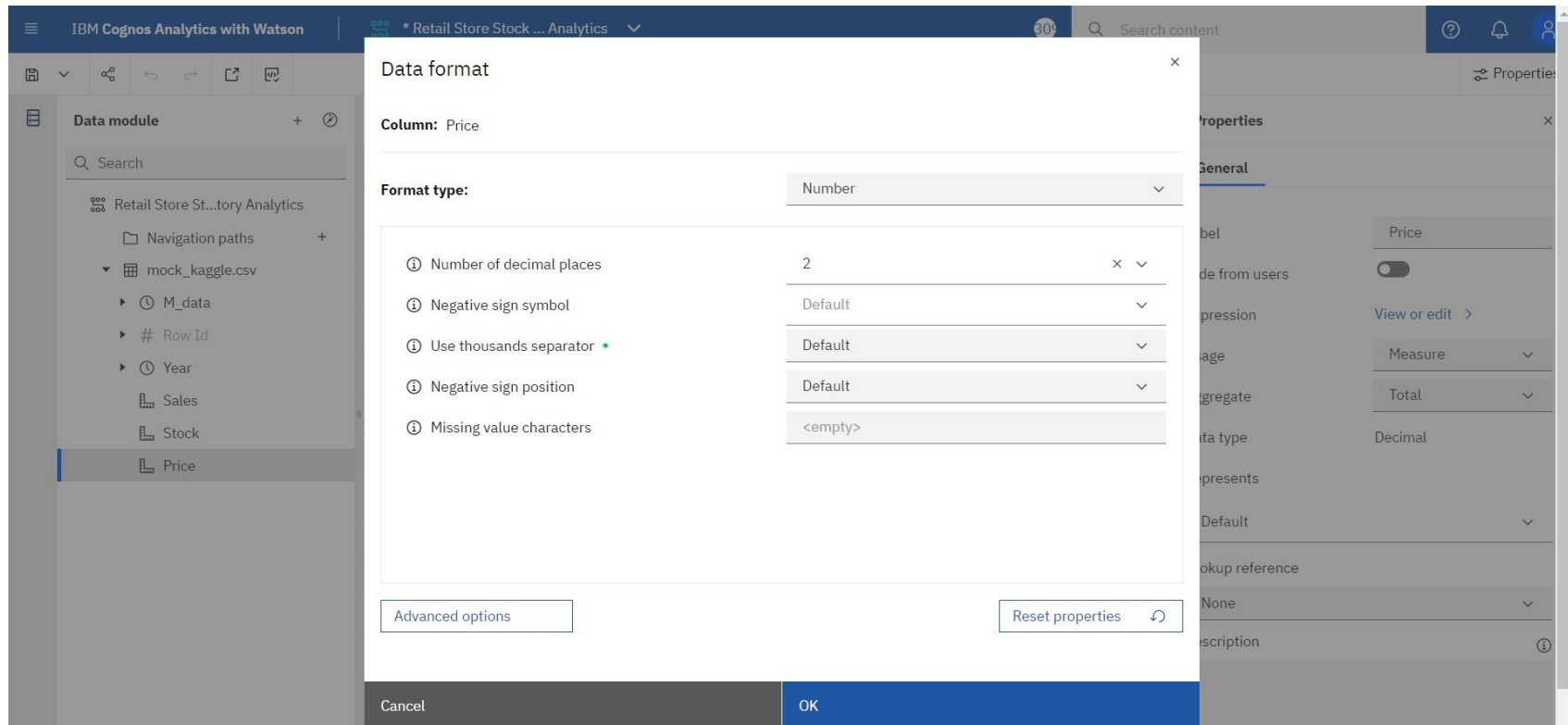
Year

Sales

Stock

Price

Price-Format Data:



IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

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Search content

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Properties

Data module

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🔍 Search

Retail Store St...tory Analytics

Navigation paths

mock_kaggle.csv

M_data

Row Id

Year

Sales

Stock

Price

Grid

Relationships

Custom tables

↕	Year	Sales	Stock	Price
	1/1/14	0	4972	1.29
	1/2/14	70	4902	1.29
	1/3/14	59	4843	1.29
	1/4/14	93	4750	1.29
	1/5/14	96	4654	1.29
	1/6/14	145	4509	1.29
	1/7/14	179	4329	1.29
	1/8/14	321	4104	1.29
	1/9/14	125	4459	1.09
	1/10/14	88	5043	1.09
	1/11/14	188	5239	1.09
	1/12/14	121	5118	1.09
	1/13/14	134	4984	1.09

Properties

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General

LabelPrice

Hide from users

ExpressionView or edit >

UsageMeasure

AggregateTotal

Data typeDecimal

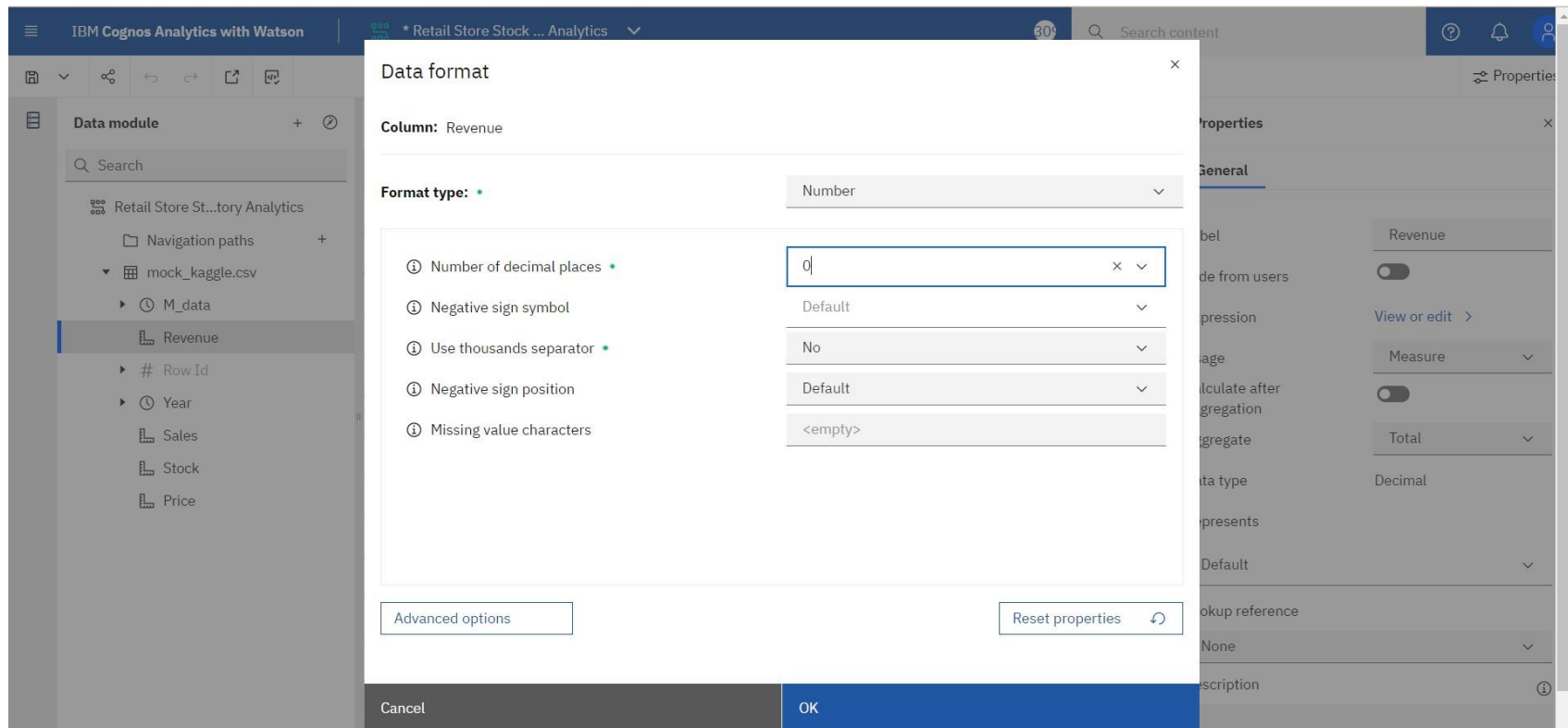
Represents

Default

Lookup referenceNone

Description

Revenue-Format Data:



IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

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Search content

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Properties

Data module

Search

Retail Store St...tory Analytics

Navigation paths

mock_kaggle.csv

M_data

Revenue

Row Id

Year

Sales

Stock

Price

Grid

Relationships

Custom tables

↑↓	M_data	Revenue	Row Id	Year	Sales
1		0	1	1/1/14	0
1		90	2	1/2/14	70
1		76	3	1/3/14	59
1		120	4	1/4/14	93
1		124	5	1/5/14	96
1		187	6	1/6/14	145
1		231	7	1/7/14	179
1		414	8	1/8/14	321
1		136	9	1/9/14	125
1		96	10	1/10/14	88
1		205	11	1/11/14	188
1		132	12	1/12/14	121
1		146	13	1/13/14	134

Properties

General

LabelRevenue

Hide from users

ExpressionView or edit >

UsageMeasure

Calculate after aggregation

AggregateTotal

Data typeDecimal

Represents

Default

Lookup referenceNone

Description

Prepared data link –

https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my_folders%2FInventory%2BModule