

Project Development Phase

Delivery of Sprint-1

Date	29 October 2022
Team ID	PNT2022TMID04978
Project Name	Retail Store Stock Inventory Analytics

Project Development Phase:

Sprint-1:

- Data Collection
- Data Preparation

Sprint-2:

- Data Exploration

Sprint-3:

- Dashboard Creation

Sprint-4:

- Report Creation
- Story Creation

Retail Store Stock Inventory Analytics



Sprint-1:

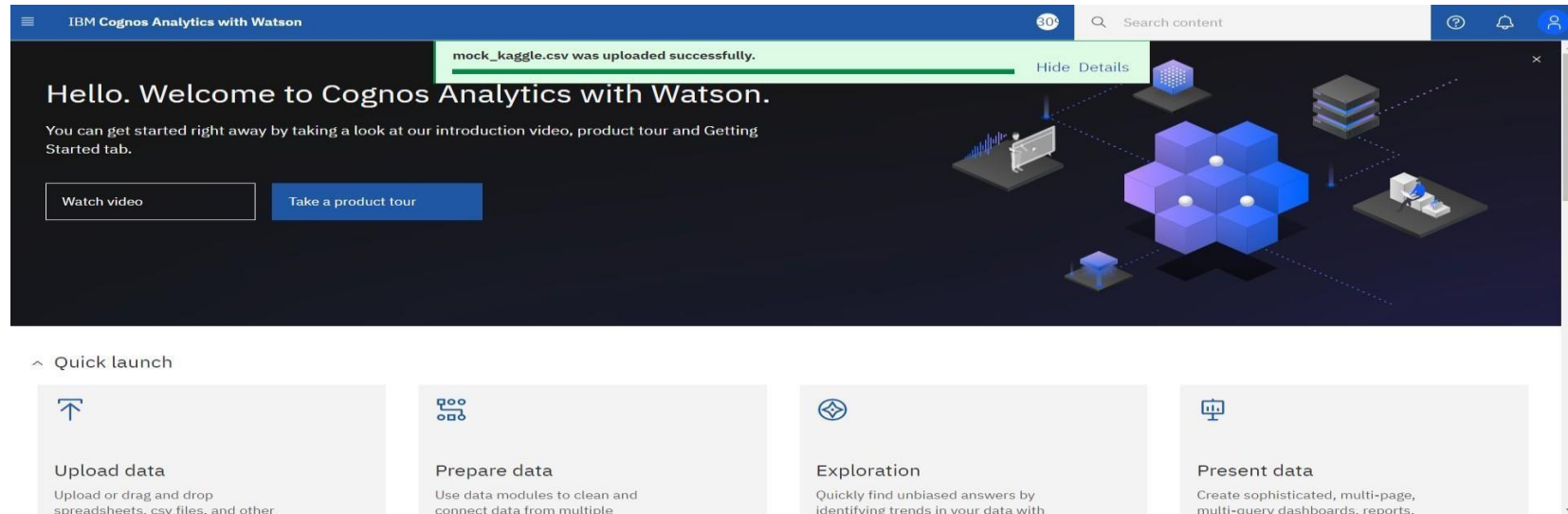
Data Collection:

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

The screenshot displays the IBM Cognos Analytics interface. The top navigation bar includes the text "IBM Cognos Analytics with Watson" and "Retail Store Stock In ... Analytics". A search bar is present on the right. Below the navigation bar, there are icons for file operations and a "Properties" button. The main area is divided into a left sidebar and a central table view.

Data module sidebar:

- Search
- Retail Store St...tory Analytics
 - Navigation paths
 - mock_kaggle.csv
 - # Row Id
 - data
 - venda
 - estoque
 - preco

Table View (Grid):

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:

IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

30 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

🔍 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

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

Description

Data module

Search

Retail Store St...tory Analytics

Navigation paths

mock_kaggle.csv

M_data

Row Id

data

venda

estoque

preco

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

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Expression

View or edit

Usage

Measure

Calculate after aggregation

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Aggregate

Total

Data type

Decimal

Represents

Default

Lookup reference

None

Description

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Year 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 Story Analytics

📁 Navigation paths

mock_kaggle.csv

🕒 M_data

Row Id

🕒 Year

📄 venda

📄 estoque

📄 preco

Grid

Relationships

Custom tables

↕	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

Properties

General

Navigation paths

Label

Year

Hide from users

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Expression

View or edit

Usage

Attribute

Aggregate

Count Distinct

Data type

Date

Represents

Time

Year

Lookup reference

None

Description

Sales data:

IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

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Properties

Data module

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

Properties

General

LabelSales

Hide from users

ExpressionView or edit

UsageMeasure

AggregateTotal

Data typeInteger

Represents

Default

Lookup referenceNone

Description

Stock data:

IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

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Properties

Data module

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📁 Retail Store Story 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

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General

Label

Stock

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Expression

View or edit >

Usage

Measure

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Aggregate

Total

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Data type

Integer

Represents

Default

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Lookup reference

None

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Description

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Price data:

IBM Cognos Analytics with Watson

Retail Store Stock In ... Analytics

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📁 Retail Store Story 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

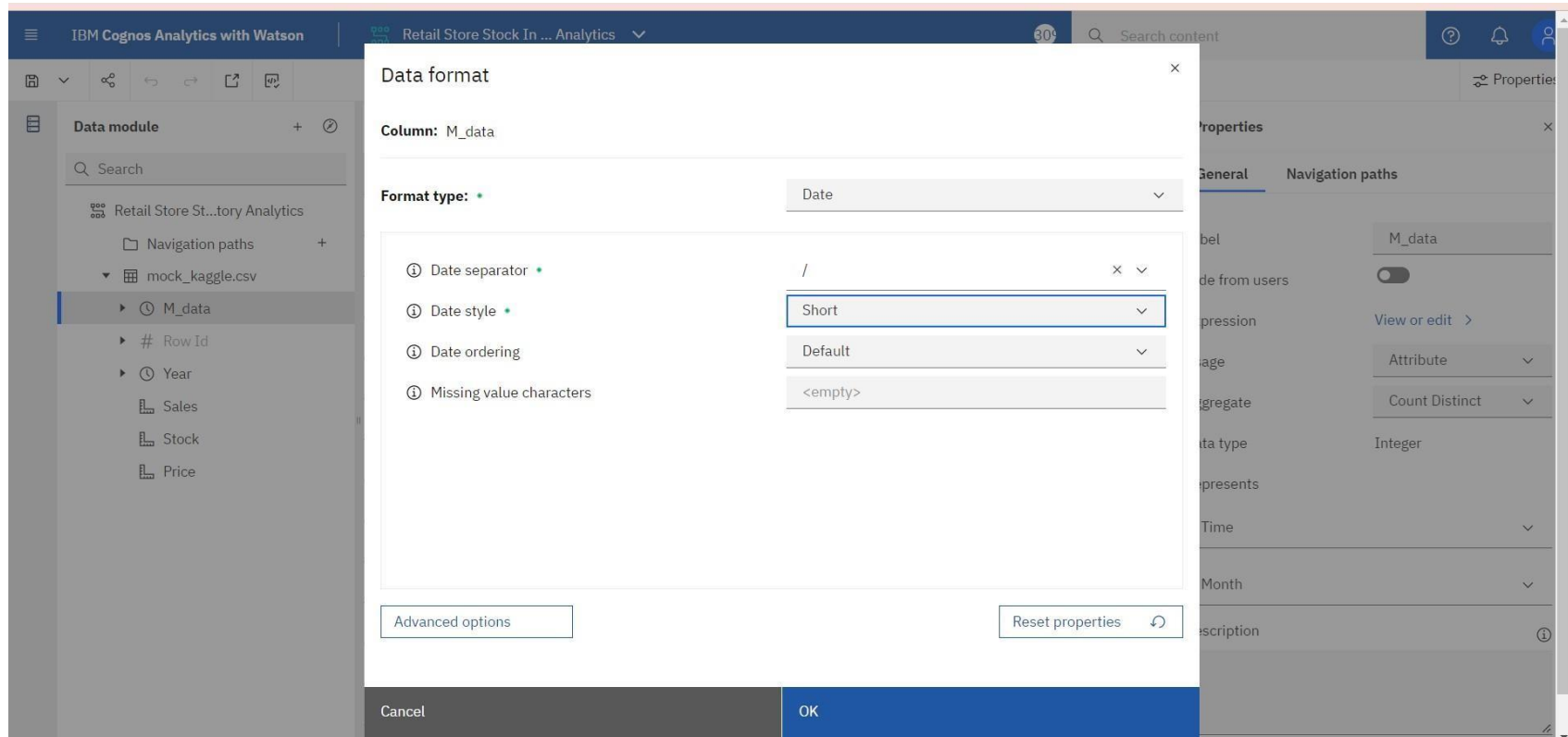
Default

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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Properties

Grid

Relationships

Custom tables

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

Properties

General

Navigation paths

Label

M_data

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Expression

View or edit >

Usage

Attribute

Aggregate

Count Distinct

Data type

Integer

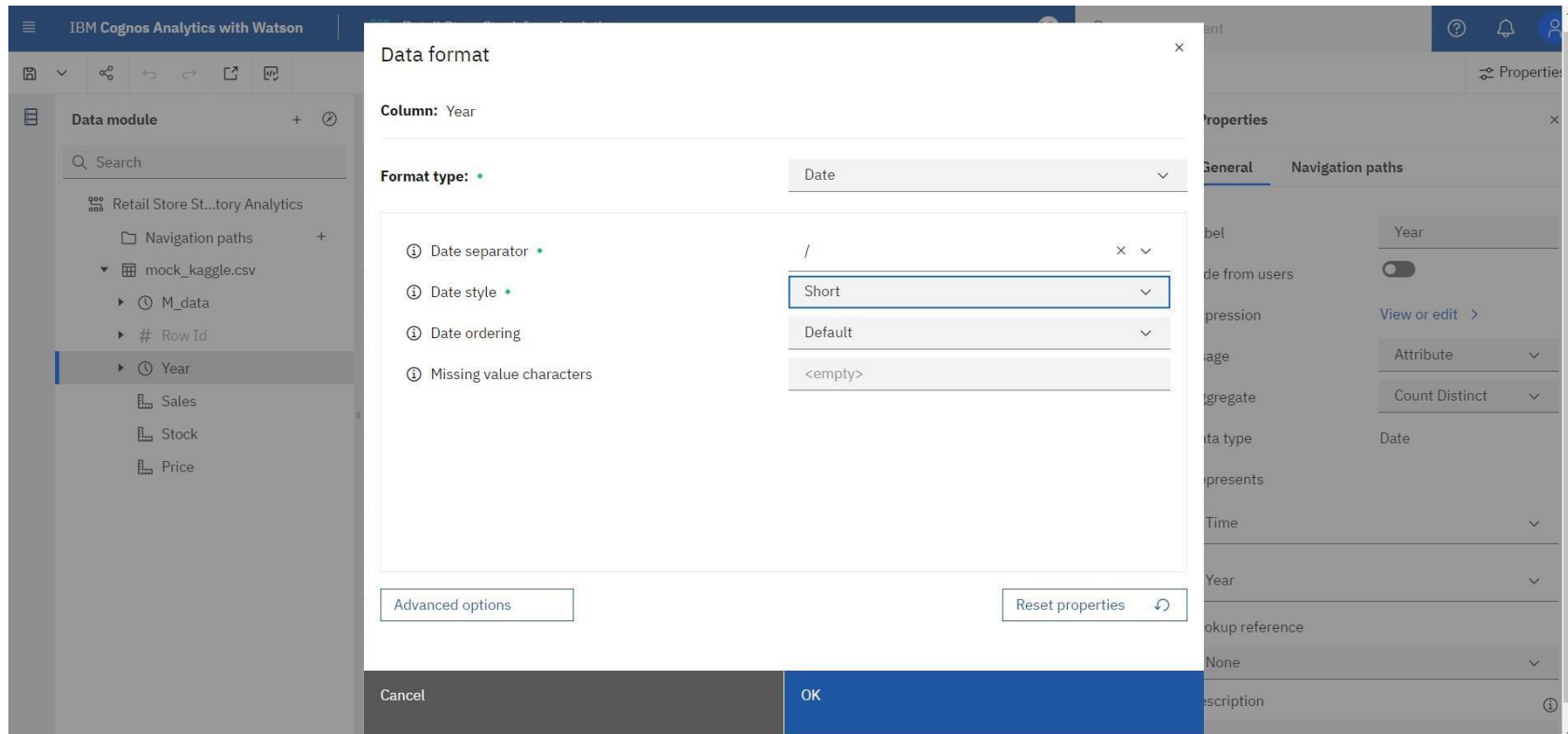
Represents

Time

Month

Description

Year-Format Data:



IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

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Data module

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🔍 Search

Retail Store Story 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

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General

Navigation paths

Label

Year

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Expression

View or edit

Usage

Attribute

Aggregate

Count Distinct

Data type

Date

Represents

Time

Year

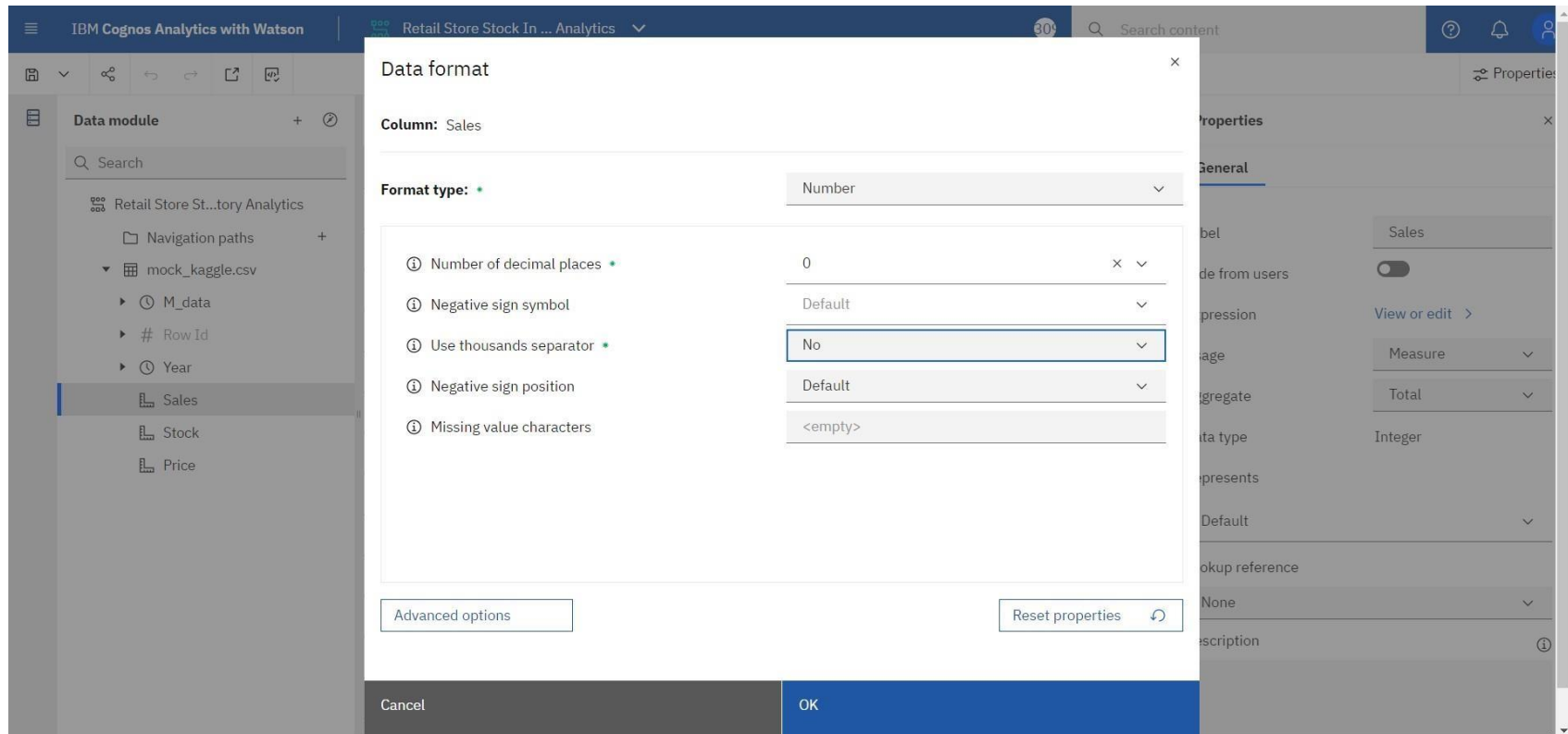
Lookup reference

None

Description

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

Properties

General

LabelSales

Hide from users

ExpressionView or edit

UsageMeasure

AggregateTotal

Data typeInteger

Represents

Default

Lookup referenceNone

Description

Data module

Search

Retail Store St...tory Analytics

Navigation paths

mock_kaggle.csv

M_data

Row Id

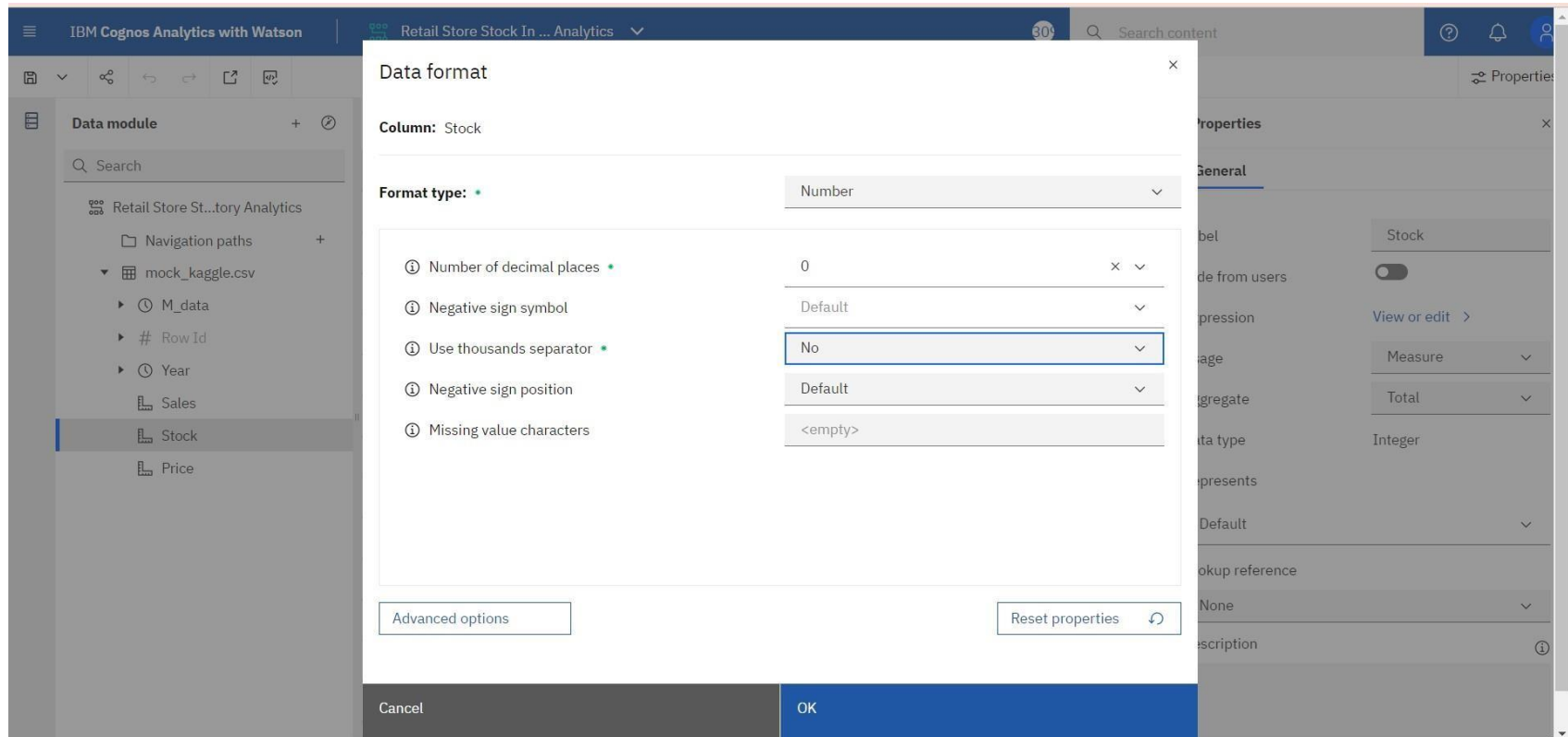
Year

Sales

Stock

Price

Stock-Format Data:



IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

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Search content

Properties

Data module

Search

Retail Store Story Analytics

Navigation paths

mock_kaggle.csv

M_data

Row Id

Year

Sales

Stock

Price

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

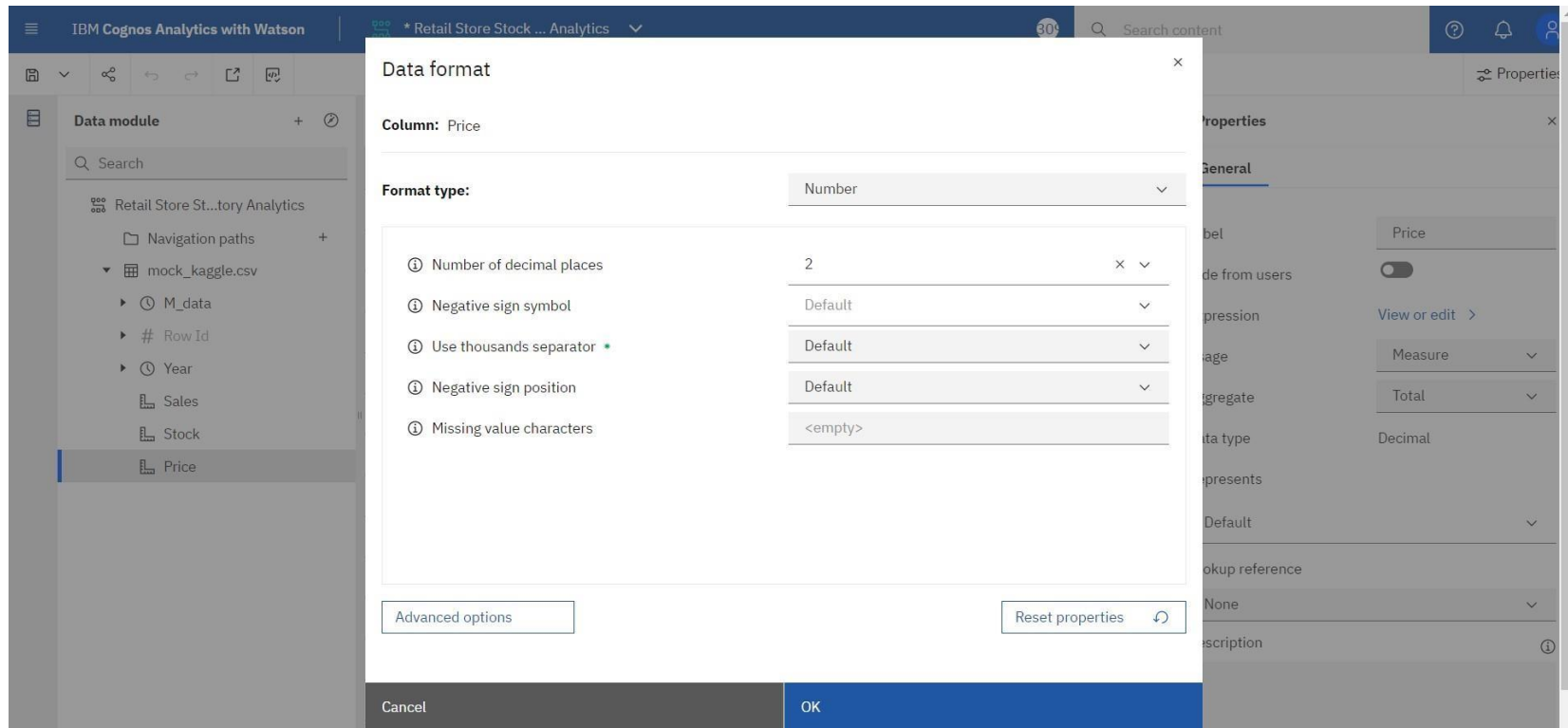
Default

Lookup reference

None

Description

Price-Format Data:



IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

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Properties

Data module

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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

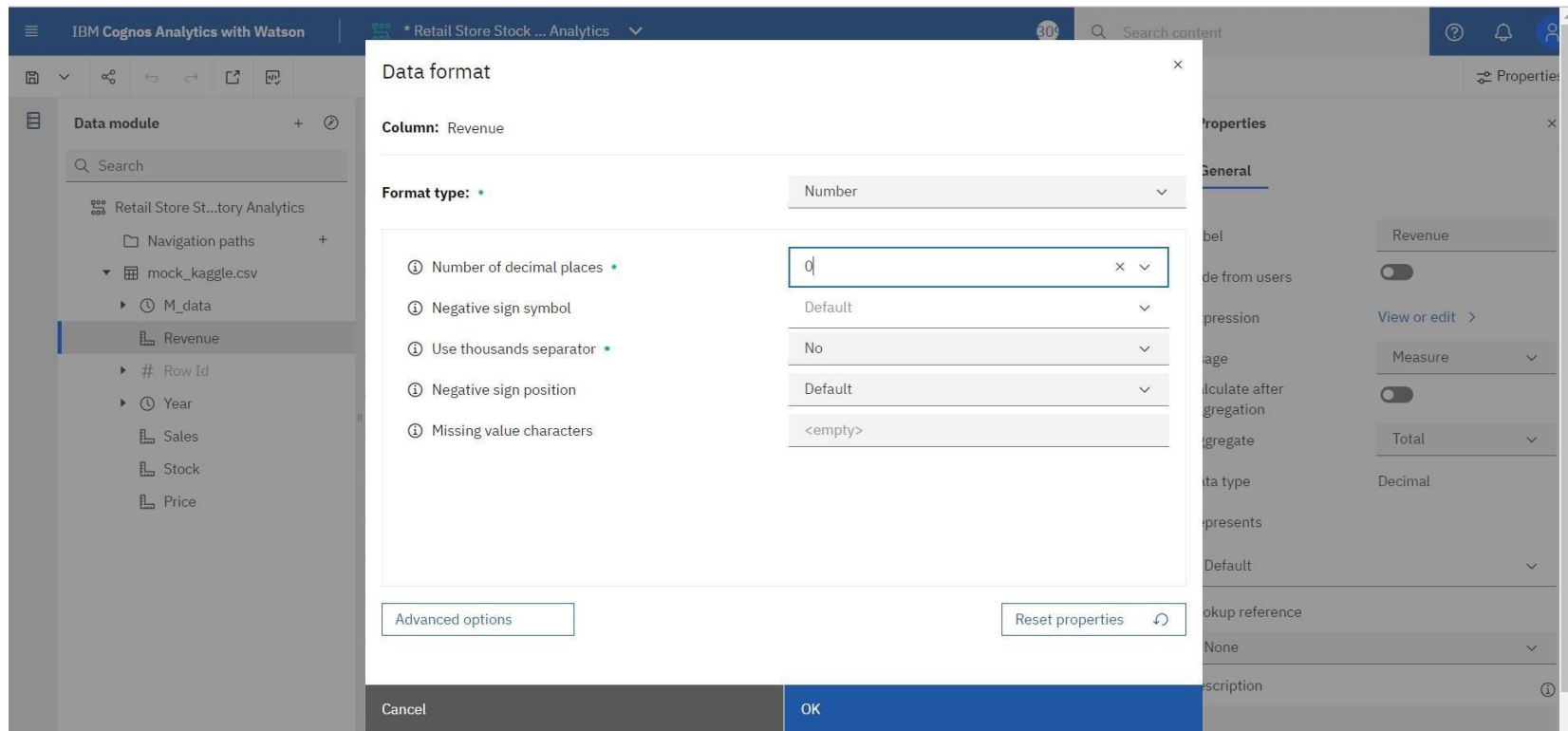
Represents

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

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Retail Store Story 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://us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my_folders%2FRetail%2BStore%2BStock%2BInventory%2BAnalytics