

Project Development PhaseDelivery of Sprint-1

Date	29 October 2022
Team ID	PNT2022TMID38332
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



Team ID - PNT2022TMID38332

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ROKESHVAR M – 412719104027

Sprint-1:

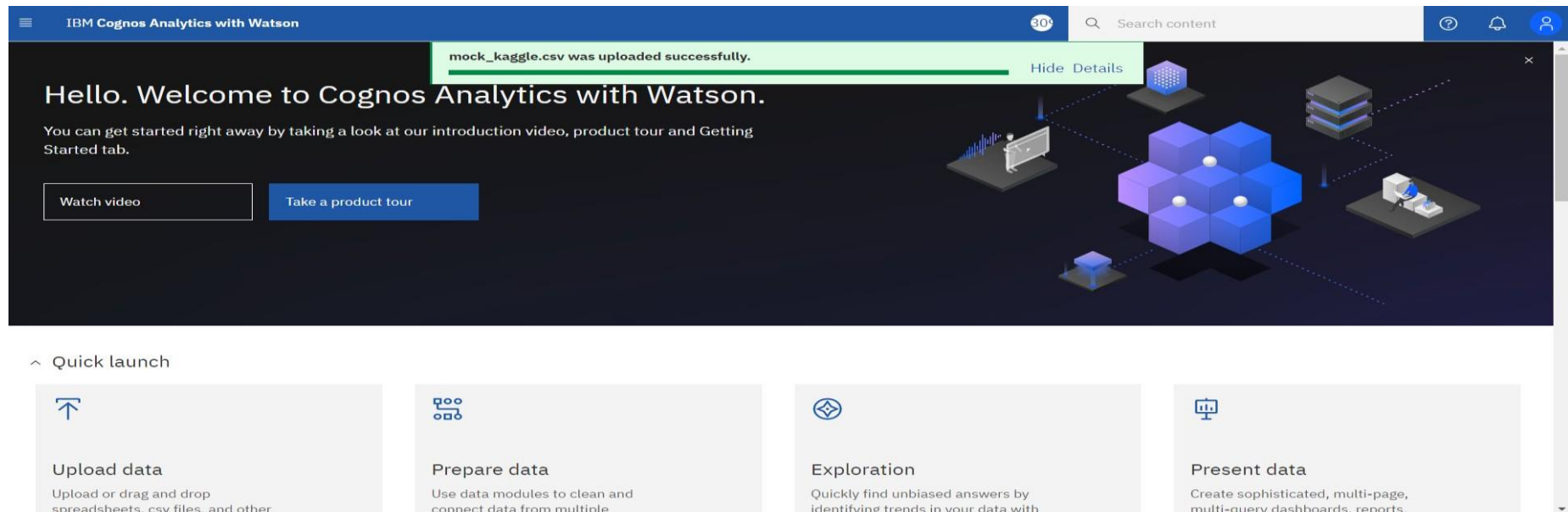
Data Collection:

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

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

▶ # 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 box in IBM Cognos Analytics. The dialog has a title bar with 'IBM Cognos Analytics with Watson' and a breadcrumb trail '* Retail Store Stock ... Analytics'. The 'Name' field is set to 'M_data'. The 'Components' pane on the left shows a search bar and a list of components: 'mock_kaggle.csv', '# Row Id', 'data', 'venda', 'estoque', and 'preco'. The 'Expression' field contains the text '1 Month (data_)'. Below the expression field 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

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

IBM Cognos Analytics with Watson

Retail Store Stock In ... Analytics

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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	1	2014-01-01	0	4972	1.29
1	1	2	2014-01-02	70	4902	1.29
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1	1	4	2014-01-04	93	4750	1.29
1	1	5	2014-01-05	96	4654	1.29
1	1	6	2014-01-06	145	4509	1.29
1	1	7	2014-01-07	179	4329	1.29
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1	1	10	2014-01-10	88	5043	1.09
1	1	11	2014-01-11	188	5239	1.09
1	1	12	2014-01-12	121	5118	1.09
1	1	13	2014-01-13	134	4984	1.09

IBM Cognos Analytics with Watson

* New data module

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Search content

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Properties

Data module

Search

New data module

Navigation paths

mock_kaggle.csv

M_data

revenue

Row Id

data

venda

estoque

preco

Grid

Relationships

Custom tables

	M_data	revenue	Row Id	data	venda
1	1	0	1	2014-01-01	0
1	1	90.3	2	2014-01-02	70
1	1	76.11	3	2014-01-03	59
1	1	119.97	4	2014-01-04	93
1	1	123.84	5	2014-01-05	96
1	1	187.05	6	2014-01-06	145
1	1	230.91	7	2014-01-07	179
1	1	414.09000000000003	8	2014-01-08	321
1	1	136.25	9	2014-01-09	125
1	1	95.92	10	2014-01-10	88
1	1	204.92000000000002	11	2014-01-11	188
1	1	131.89000000000001	12	2014-01-12	121
1	1	146.06	13	2014-01-13	134

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

Revenue data:

IBM Cognos Analytics with Watson

* New data module

35

Search content

Properties

Data module

Search

New data module

Navigation paths

mock_kaggle.csv

M_data

revenue

Row Id

data

venda

estoque

preco

Grid

Relationships

Custom tables

↑↓	M_data	revenue	Row Id	data	venda
1		0	1	2014-01-01	0
1		90.3	2	2014-01-02	70
1		76.11	3	2014-01-03	59
1		119.97	4	2014-01-04	93
1		123.84	5	2014-01-05	96
1		187.05	6	2014-01-06	145
1		230.91	7	2014-01-07	179
1		414.09000000000003	8	2014-01-08	321
1		136.25	9	2014-01-09	125
1		95.92	10	2014-01-10	88
1		204.92000000000002	11	2014-01-11	188
1		131.89000000000001	12	2014-01-12	121
1		146.06	13	2014-01-13	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:

IBM Cognos Analytics with Watson Inventory Module

Search content

Properties

Data module

Search

Inventory Module

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	2014-01-01	0
1	90.3		2	2014-01-02	70
1	76.11		3	2014-01-03	59
1	119.97		4	2014-01-04	93
1	123.84		5	2014-01-05	96
1	187.05		6	2014-01-06	145
1	230.91		7	2014-01-07	179
1	414.09000000000003		8	2014-01-08	321
1	136.25		9	2014-01-09	125
1	95.92		10	2014-01-10	88
1	204.92000000000002		11	2014-01-11	188
1	131.89000000000001		12	2014-01-12	121
1	146.06		13	2014-01-13	134

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 data:

IBM Cognos Analytics with Watson Inventory Module 35 Search content

Properties

Data module

Search

Inventory Module

Navigation paths

mock_kaggle.csv

M_data

revenue

Row Id

year

sales

stock

price

Grid Relationships Custom tables

revenue	Row Id	year	sales
0	1	2014-01-01	0
90.3	2	2014-01-02	70
76.11	3	2014-01-03	59
119.97	4	2014-01-04	93
123.84	5	2014-01-05	96
187.05	6	2014-01-06	145
230.91	7	2014-01-07	179
414.09000000000003	8	2014-01-08	321
136.25	9	2014-01-09	125
95.92	10	2014-01-10	88
204.92000000000002	11	2014-01-11	188
131.89000000000001	12	2014-01-12	121
146.06	13	2014-01-13	134

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

Inventory Module

Search content

Properties

Data module

Search

Inventory Module

Navigation paths

mock_kaggle.csv

M_data

revenue

Row Id

year

sales

stock

price

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
00003 8	2014-01-08	321	4104
9	2014-01-09	125	4459
10	2014-01-10	88	5043
00002 11	2014-01-11	188	5239
00001 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

Price data:

The screenshot displays the IBM Cognos Analytics with Watson interface. The top navigation bar includes the title 'IBM Cognos Analytics with Watson', a dropdown menu for 'Inventory Module', a search bar, and user profile icons. Below the navigation bar, a toolbar contains icons for file operations. The main workspace is divided into three sections: a left-hand 'Data module' pane, a central 'Grid' view, and a right-hand 'Properties' pane.

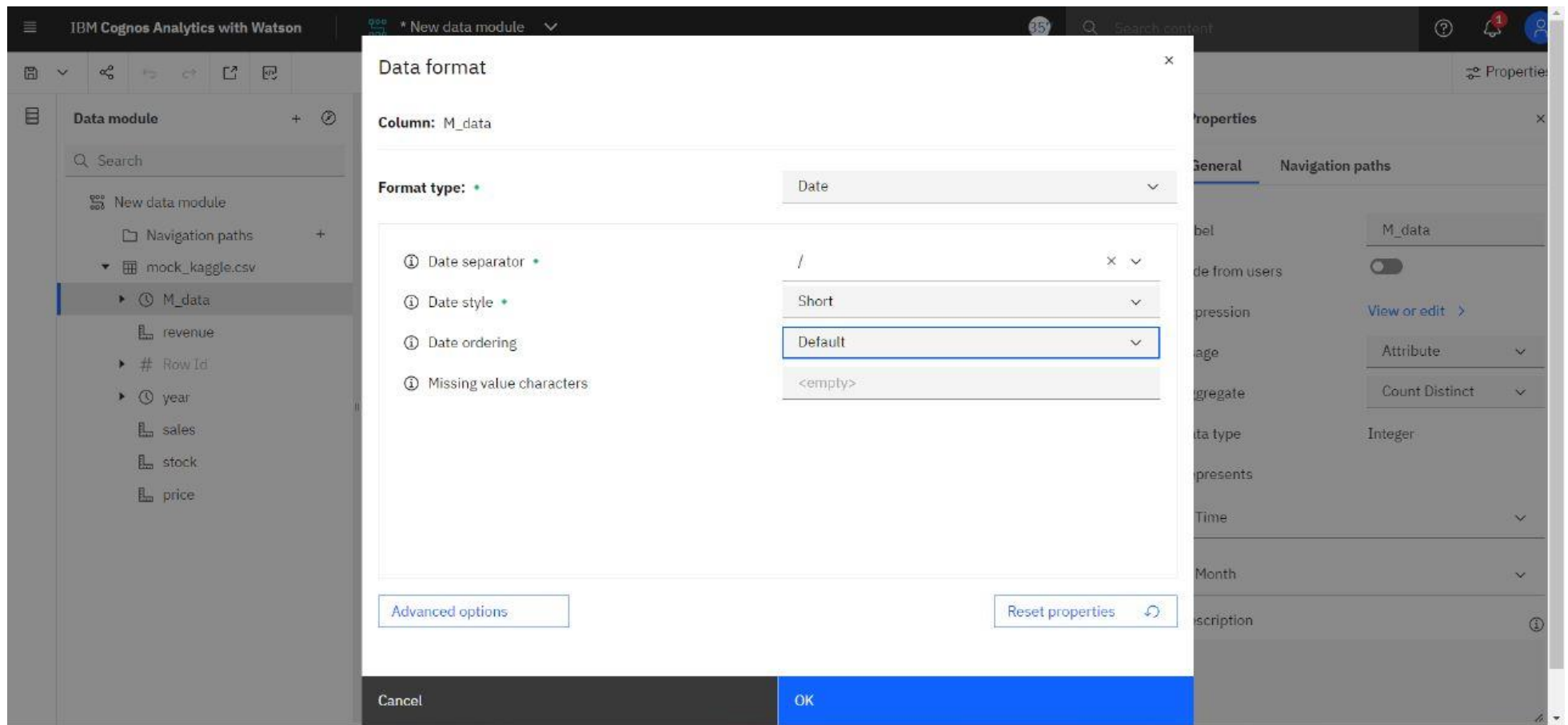
The 'Data module' pane on the left shows a tree structure under 'Inventory Module'. It includes 'Navigation paths' and a file named 'mock_kaggle.csv'. Under this file, there are several items: 'M_data', 'revenue', '# Row Id', 'year', 'sales', 'stock', and 'price'. The 'price' item is currently selected and highlighted with a blue border.

The central 'Grid' view displays a table of data. The columns are 'year', 'sales', 'stock', and 'price'. The 'year' column is sorted in ascending order. The data rows show dates from 2014-01-01 to 2014-01-13, with corresponding 'sales' and 'stock' values. The 'price' column shows values of 1.29 for the first seven days and 1.09 for the last six days.

The 'Properties' pane on the right shows the 'General' tab for the selected 'price' field. It includes fields for 'Label' (set to 'price'), 'Hide from users' (a toggle switch), 'Expression' (with a 'View or edit' link), 'Usage' (set to 'Measure'), 'Aggregate' (set to 'Total'), 'Data type' (set to 'Decimal'), 'Represents' (set to 'Default'), 'Lookup reference' (set to 'None'), and 'Description' (with an information icon).

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

* New data module

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Search content

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Properties

Data module

Search

New data module

Navigation paths

mock_kaggle.csv

M_data

revenue

Row Id

data

venda

estoque

preco

Grid

Relationships

Custom tables

	M_data	revenue	Row Id	data	venda
1	0	1	2014-01-01	0	
1	90.3	2	2014-01-02	70	
1	76.11	3	2014-01-03	59	
1	119.97	4	2014-01-04	93	
1	123.84	5	2014-01-05	96	
1	187.05	6	2014-01-06	145	
1	230.91	7	2014-01-07	179	
1	414.09000000000003	8	2014-01-08	321	
1	136.25	9	2014-01-09	125	
1	95.92	10	2014-01-10	88	
1	204.92000000000002	11	2014-01-11	188	
1	131.89000000000001	12	2014-01-12	121	
1	146.06	13	2014-01-13	134	

Properties

General

Navigation paths

Label

M_data

Hide from users

Expression

View or edit

Usage

Attribute

Aggregate

Count Distinct

Data type

Integer

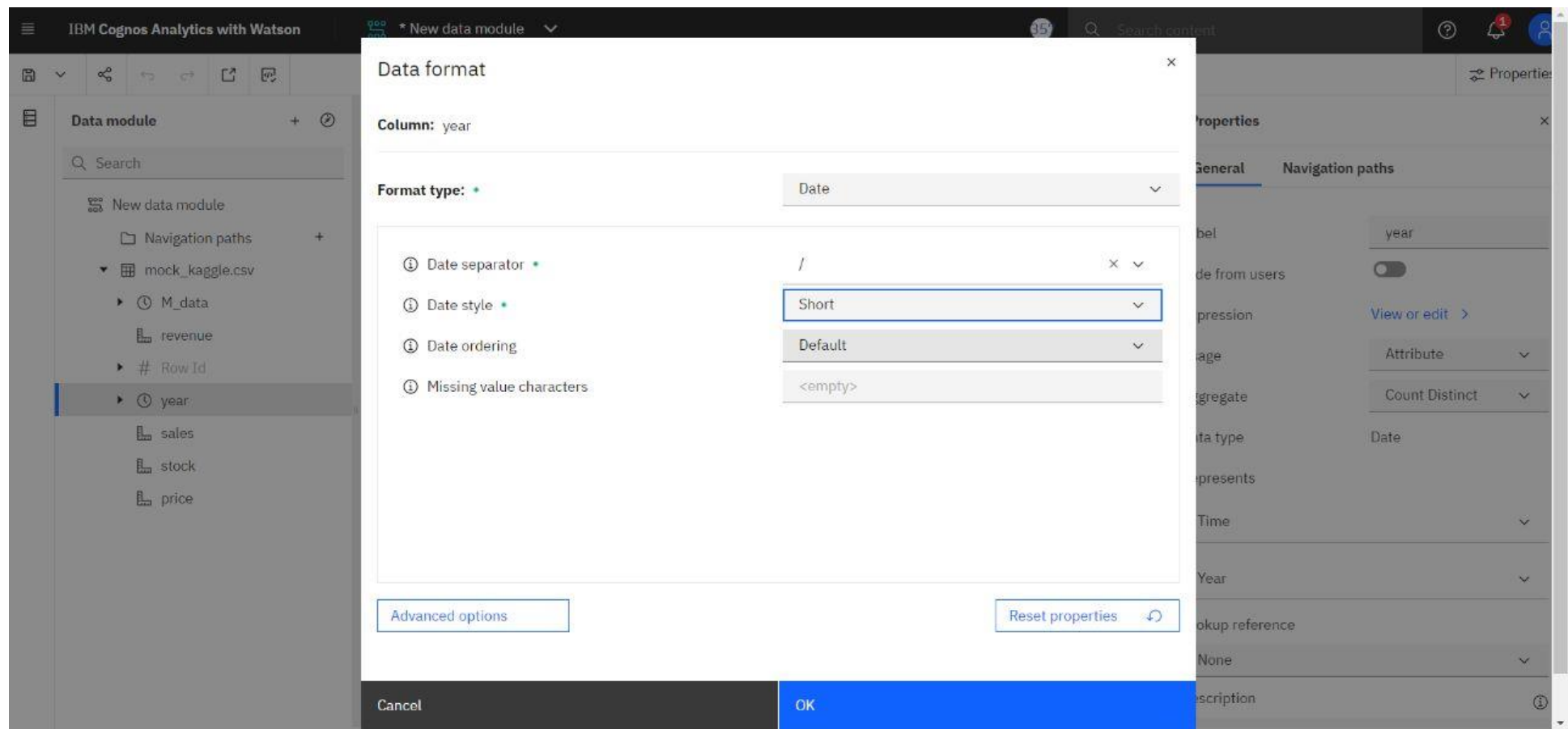
Represents

Time

Month

Description

Year-Format Data:



IBM Cognos Analytics with Watson

Inventory Module

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1

Properties

Data module

Search

Inventory Module

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	2014-01-01	0
1		90.3	2	2014-01-02	70
1		76.11	3	2014-01-03	59
1		119.97	4	2014-01-04	93
1		123.84	5	2014-01-05	96
1		187.05	6	2014-01-06	145
1		230.91	7	2014-01-07	179
1		414.09000000000003	8	2014-01-08	321
1		136.25	9	2014-01-09	125
1		95.92	10	2014-01-10	88
1		204.92000000000002	11	2014-01-11	188
1		131.89000000000001	12	2014-01-12	121
1		146.06	13	2014-01-13	134

Properties

General

Navigation paths

Label

year

Hide from users

Expression

View or edit

Usage

Attribute

Aggregate

Count Distinct

Data type

Date

Represents

Time

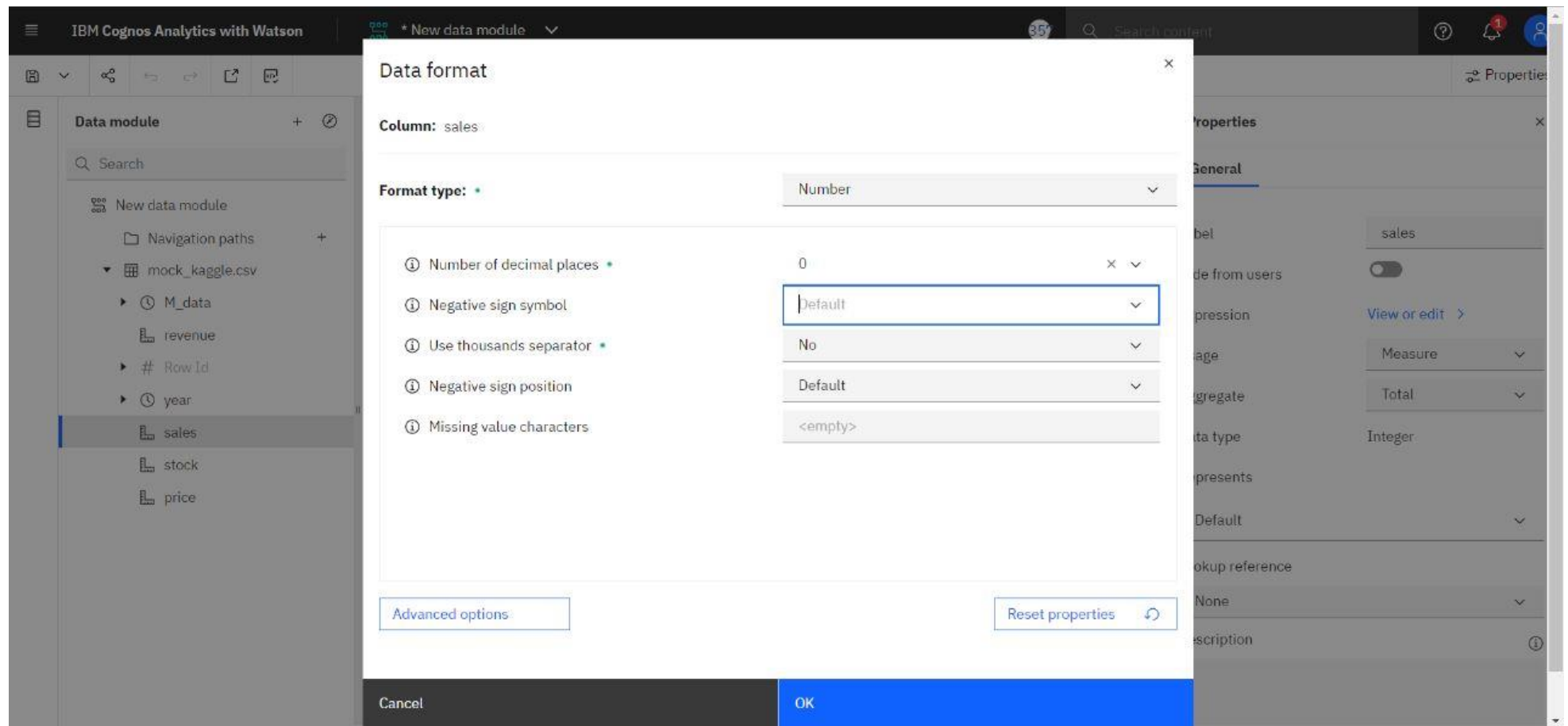
Year

Lookup reference

None

Description

Sales-Format Data:



IBM Cognos Analytics with Watson

Inventory Module

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Search

Inventory Module

Navigation paths

mock_kaggle.csv

M_data

revenue

Row Id

year

sales

stock

price

Grid

Relationships

Custom tables

↑↓	revenue	Row Id	year	sales	st
	0	1	2014-01-01	0	
	90.3	2	2014-01-02	70	
	76.11	3	2014-01-03	59	
	119.97	4	2014-01-04	93	
	123.84	5	2014-01-05	96	
	187.05	6	2014-01-06	145	
	230.91	7	2014-01-07	179	
	414.09000000000003	8	2014-01-08	321	
	136.25	9	2014-01-09	125	
	95.92	10	2014-01-10	88	
	204.92000000000002	11	2014-01-11	188	
	131.89000000000001	12	2014-01-12	121	
	146.06	13	2014-01-13	134	

Properties

General

Label

sales

Hide from users

Expression

View or edit

Usage

Measure

Aggregate

Total

Data type

Integer

Represents

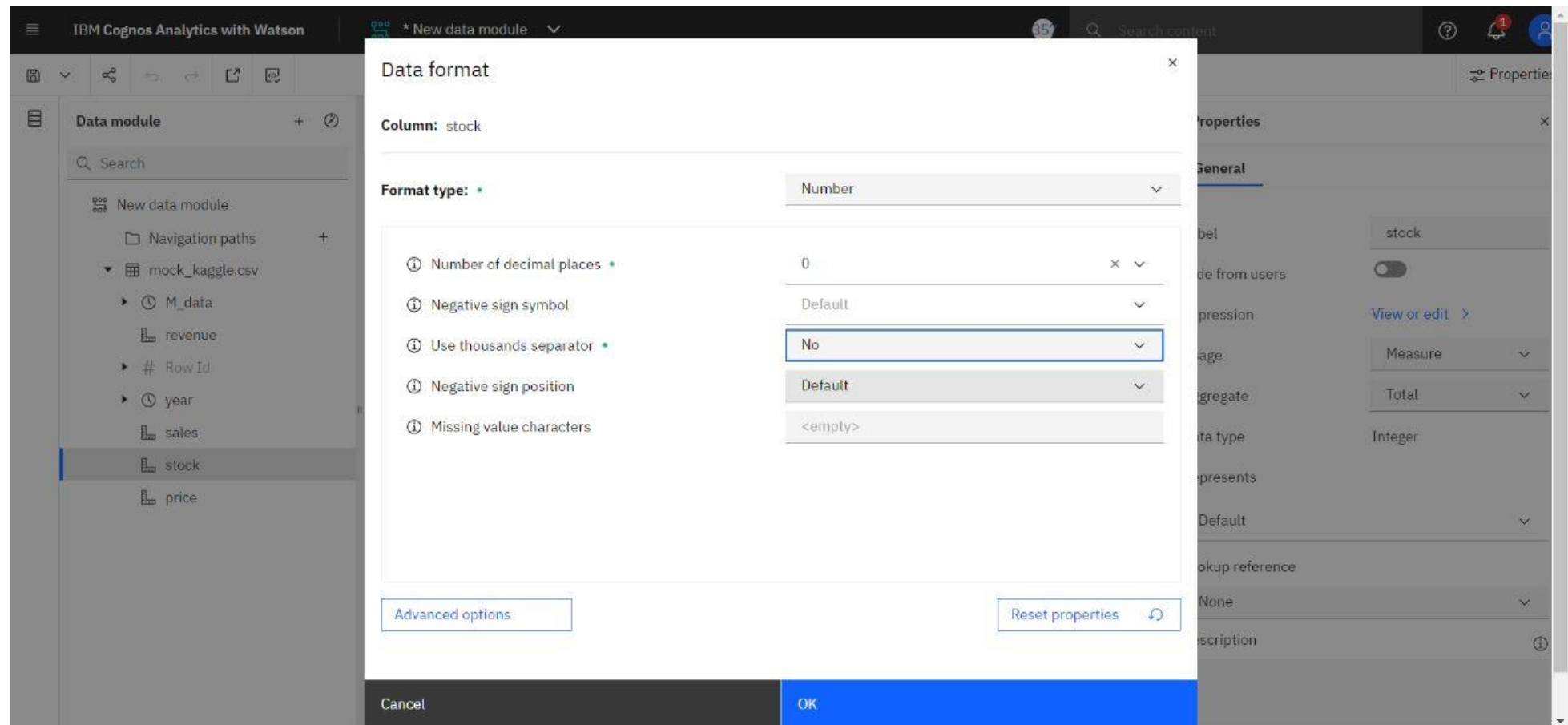
Default

Lookup reference

None

Description

Stock-Format Data:



IBM Cognos Analytics with Watson

Inventory Module

35

Search content

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1

Grid

Relationships

Custom tables

	Row Id	year	sales	stock
1	1	2014-01-01	0	4972
2	2	2014-01-02	70	4902
3	3	2014-01-03	59	4843
4	4	2014-01-04	93	4750
5	5	2014-01-05	96	4654
6	6	2014-01-06	145	4509
7	7	2014-01-07	179	4329
00003	8	2014-01-08	321	4104
	9	2014-01-09	125	4459
	10	2014-01-10	88	5043
00002	11	2014-01-11	188	5239
00001	12	2014-01-12	121	5118
	13	2014-01-13	134	4984

Properties

General

Labelstock

Hide from users

ExpressionView or edit

UsageMeasure

AggregateTotal

Data typeInteger

Represents

Default

Lookup referenceNone

Description

Data module

Search

Inventory Module

Navigation paths

mock_kaggle.csv

M_data

revenue

Row Id

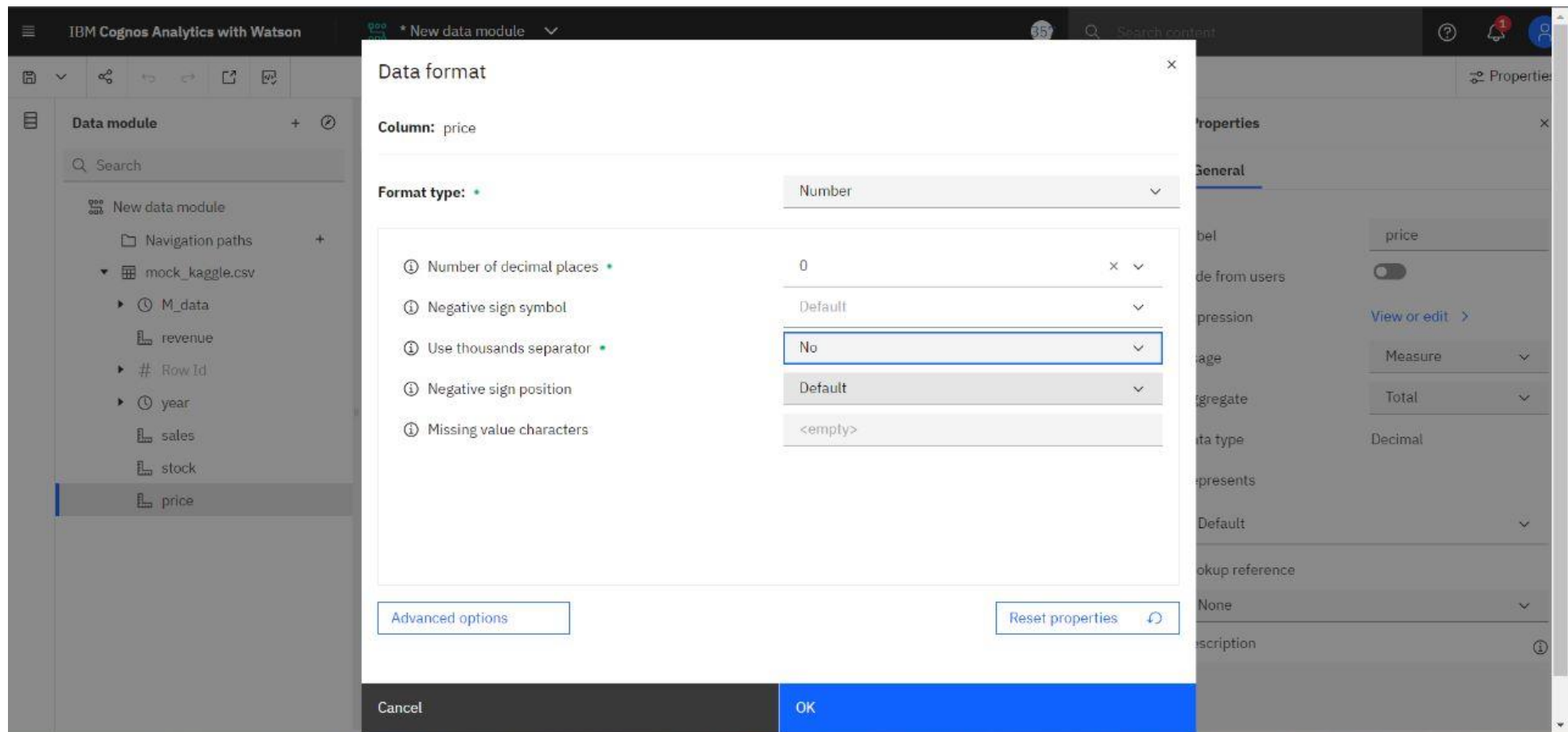
year

sales

stock

price

Price-Format Data:



IBM Cognos Analytics with Watson

Inventory Module

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Search content

?

1

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

Label

price

Hide from users

Expression

View or edit

Usage

Measure

Aggregate

Total

Data type

Decimal

Represents

Default

Lookup reference

None

Description

Data module

Inventory Module

Navigation paths

mock_kaggle.csv

M_data

revenue

Row Id

year

sales

stock

price

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:

IBM Cognos Analytics with Watson

* New data module

35

Search content

Properties

Data module

Search

New data module

Navigation paths

mock_kaggle.csv

M_data

revenue

Row Id

data

venda

estoque

preco

Grid

Relationships

Custom tables

M_data	revenue	Row Id	data	venda
1	0	1	2014-01-01	0
1	90.3	2	2014-01-02	70
1	76.11	3	2014-01-03	59
1	119.97	4	2014-01-04	93
1	123.84	5	2014-01-05	96
1	187.05	6	2014-01-06	145
1	230.91	7	2014-01-07	179
1	414.09000000000003	8	2014-01-08	321
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1	95.92	10	2014-01-10	88
1	204.92000000000002	11	2014-01-11	188
1	131.89000000000001	12	2014-01-12	121
1	146.06	13	2014-01-13	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

IBM Cognos Analytics with Watson

* New data module

35

Search content

?

1

Grid

Relationships

Custom tables

	M_data	revenue	Row Id	data	venda
1		0	1	2014-01-01	0
1		90.3	2	2014-01-02	70
1		76.11	3	2014-01-03	59
1		119.97	4	2014-01-04	93
1		123.84	5	2014-01-05	96
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1		230.91	7	2014-01-07	179
1		414.09000000000003	8	2014-01-08	321
1		136.25	9	2014-01-09	125
1		95.92	10	2014-01-10	88
1		204.92000000000002	11	2014-01-11	188
1		131.89000000000001	12	2014-01-12	121
1		146.06	13	2014-01-13	134

Properties

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Label

revenue

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View or edit

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Calculate after aggregation

Aggregate

Total

Data type

Decimal

Represents

Default

Lookup reference

None

Description

Data module

Search

New data module

Navigation paths

mock_kaggle.csv

M_data

revenue

Row Id

data

venda

estoque

preco

Prepared data link –

https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=825882129_c40bcea726454d02b1e6ad478989bb01_sessionTemp&objRef=&id=825882129_c40bcea726454d02b1e6ad478989bb01_sessionTemp