

Project Development Phase

Delivery of Sprint-1

Date	29 October 2022
Team ID	PNT2022TMID01375
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:

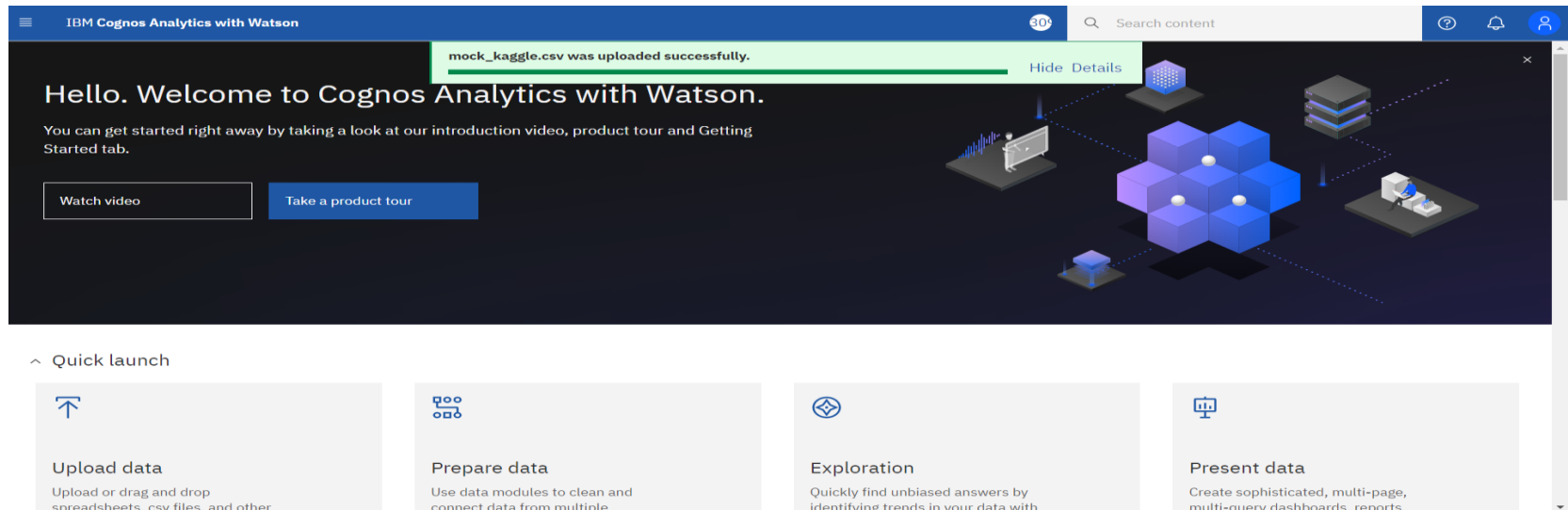
Data Collection:

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

IBM Cognos Analytics with Watson

Retail Store Stock In ... Analytics

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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 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 data sources: 'mock_kaggle.csv', '# Row Id', 'data', 'venda', 'estoque', and 'preco'. The 'Expression' pane shows the expression '1 Month (data_)'. Below the expression pane, there 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 | 30% | 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

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📂 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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🔍 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

Description

Revenue data:

IBM Cognos Analytics with Watson

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📁 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

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General

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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

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Lookup reference

None

Description

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Year data:

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Data module

Search

- Retail Store St...tory 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: ☐

Expression: [View or edit](#)

Usage: Attribute

Aggregate: Count Distinct

Data type: Date

Represents: Time

Year

Lookup reference: None

Description:

Sales data:

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🕒 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

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General

Label

Sales

Hide from users

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Expression

[View or edit >](#)

Usage

Measure

Aggregate

Total

Data type

Integer

Represents

Default

Lookup reference

None

Description

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Stock data:

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📄 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

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Expression

View or edit >

Usage

Measure

Aggregate

Total

Data type

Integer

Represents

Default

Lookup reference

None

Description

Price data:

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🕒 M_data

Row Id

🕒 Year

📊 Sales

📊 Stock

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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

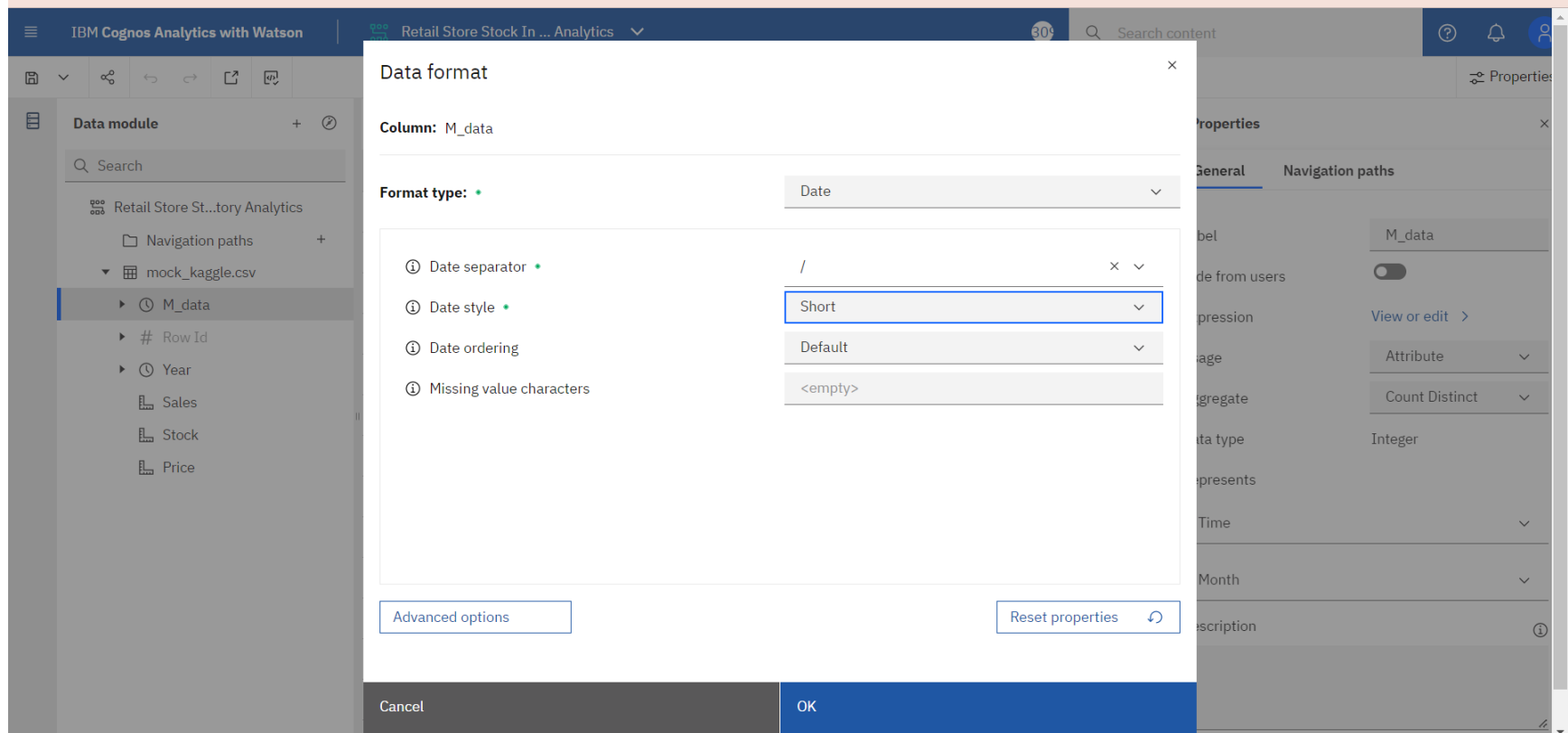
Represents

Default

Lookup referenceNone

Description

Month-Format Data:



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

	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

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Label

M_data

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Expression

Usage

Aggregate

Data type

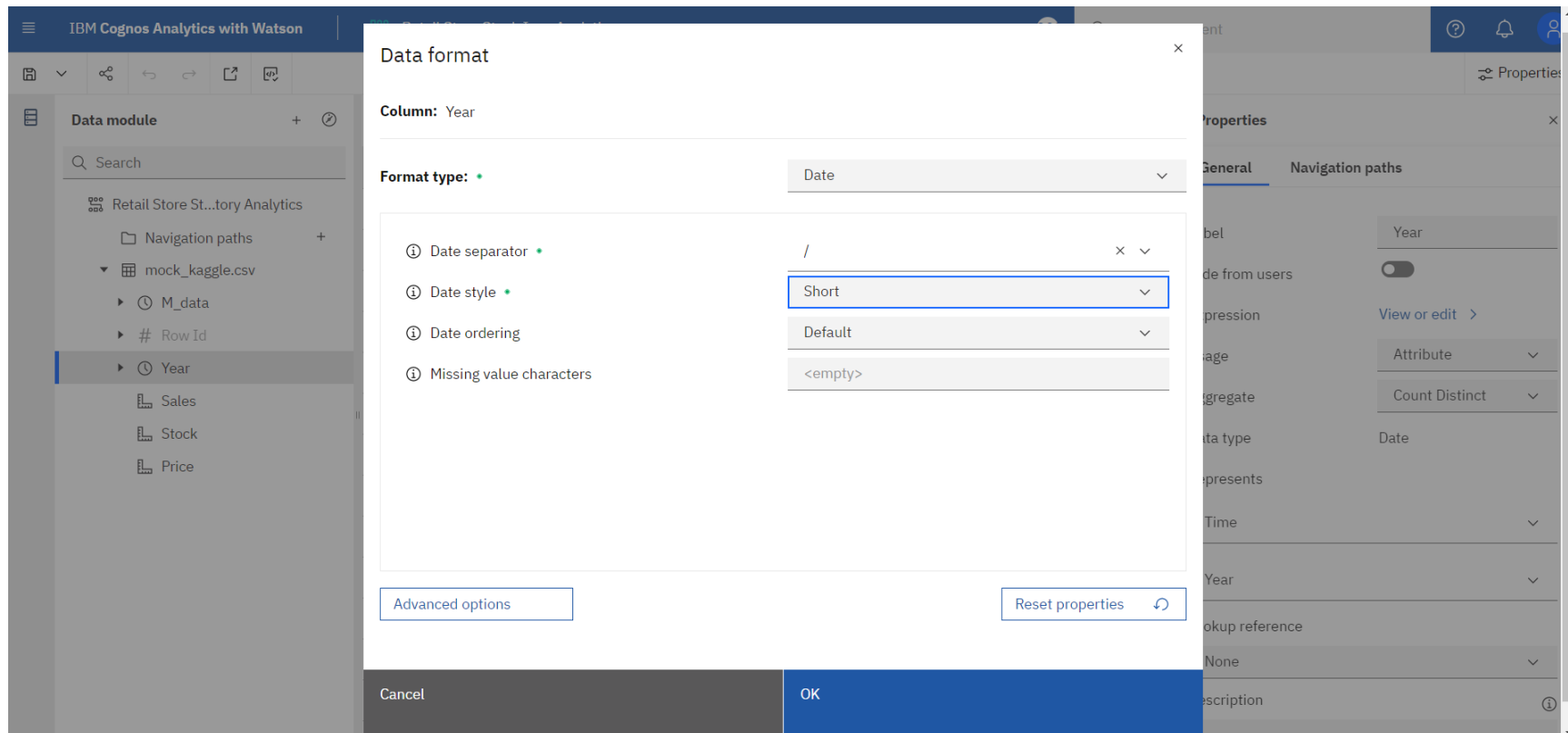
Represents

Time

Month

Description

Year-Format Data:



Data module

Search

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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

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Label

Year

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Expression

View or edit

Usage

Attribute

Aggregate

Count Distinct

Data type

Date

Represents

Time

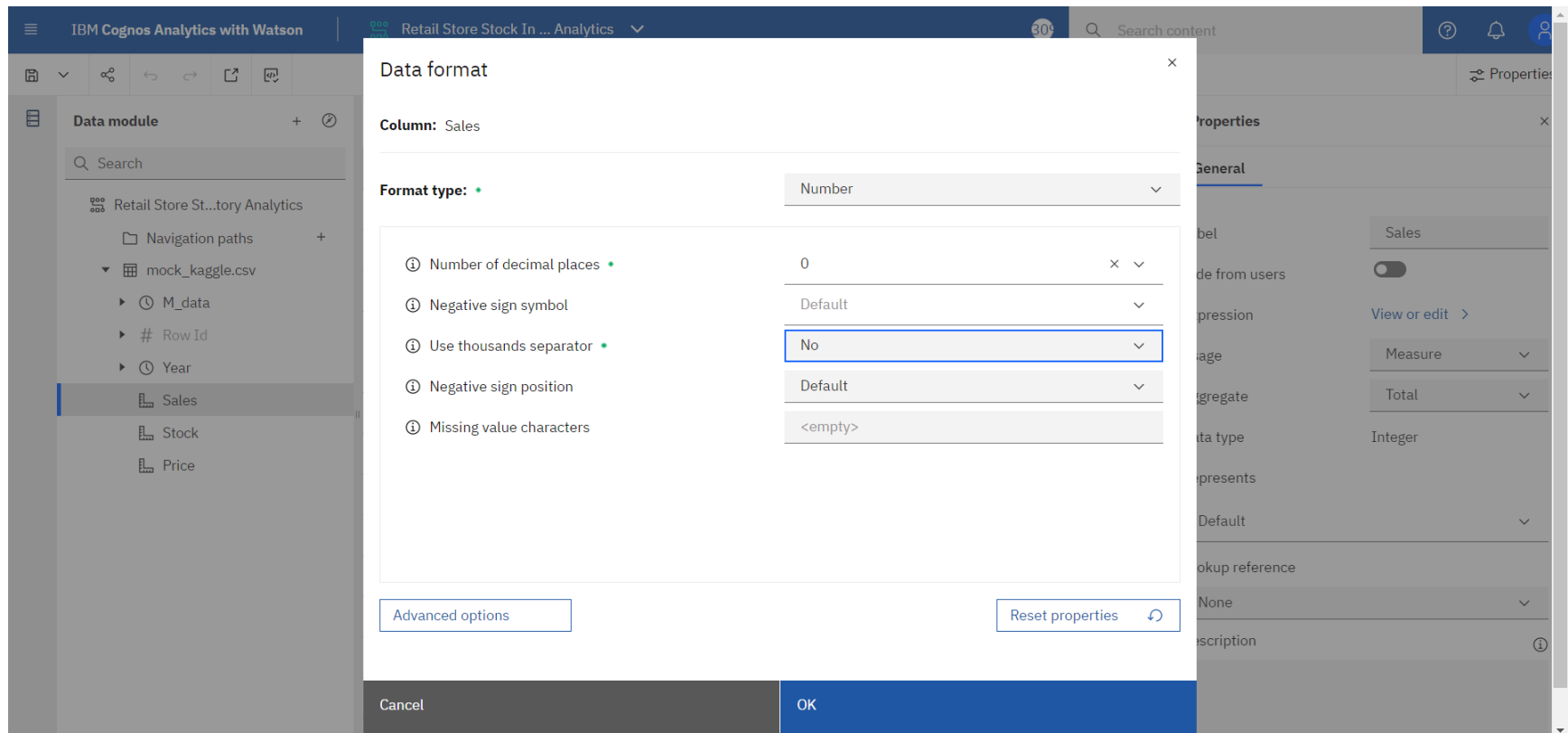
Year

Lookup reference

None

Description

Sales-Format Data:



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📄 # Row Id

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📄 Stock

📄 Price

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📄 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

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General

Label

Sales

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Expression

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Usage

Measure

Aggregate

Total

Data type

Integer

Represents

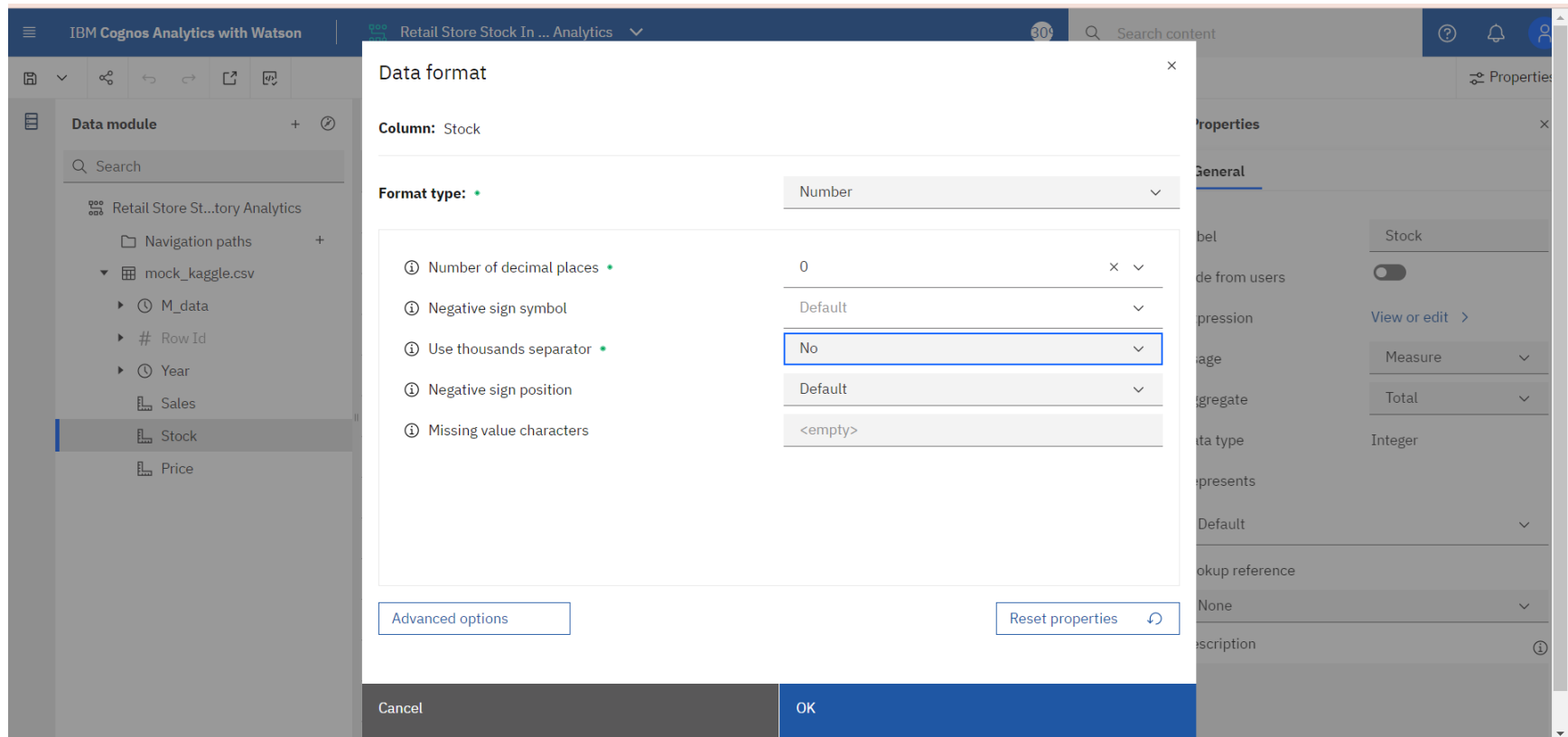
Default

Lookup reference

None

Description

Stock-Format Data:



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📊 Stock

📊 Price

📊 Grid

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📄 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

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General

Label

Stock

Hide from users

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Expression

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Usage

Measure

Aggregate

Total

Data type

Integer

Represents

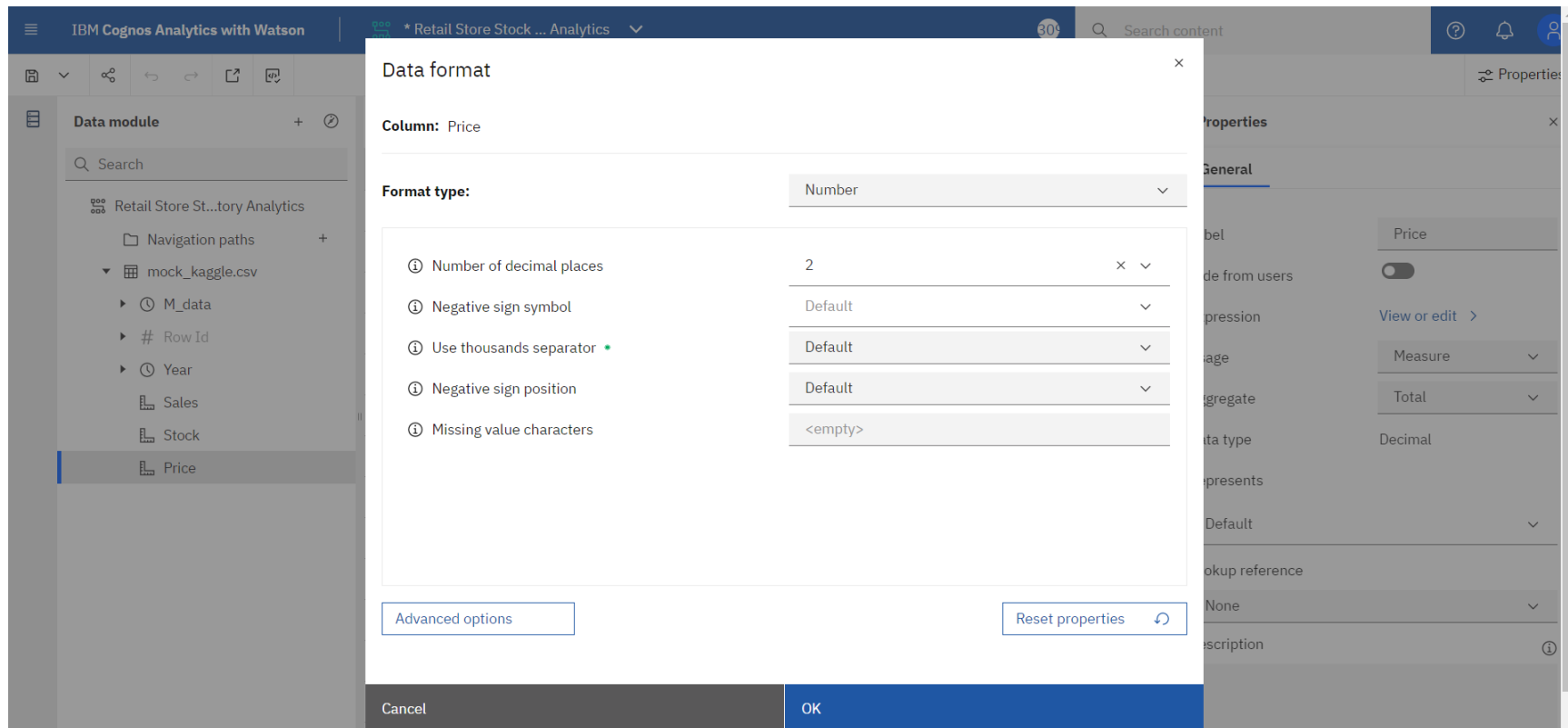
Default

Lookup reference

None

Description

Price-Format Data:



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🕒 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

Label

Price

Hide from users

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Expression

View or edit >

Usage

Measure

▼

Aggregate

Total

▼

Data type

Decimal

Represents

Default

▼

Lookup reference

None

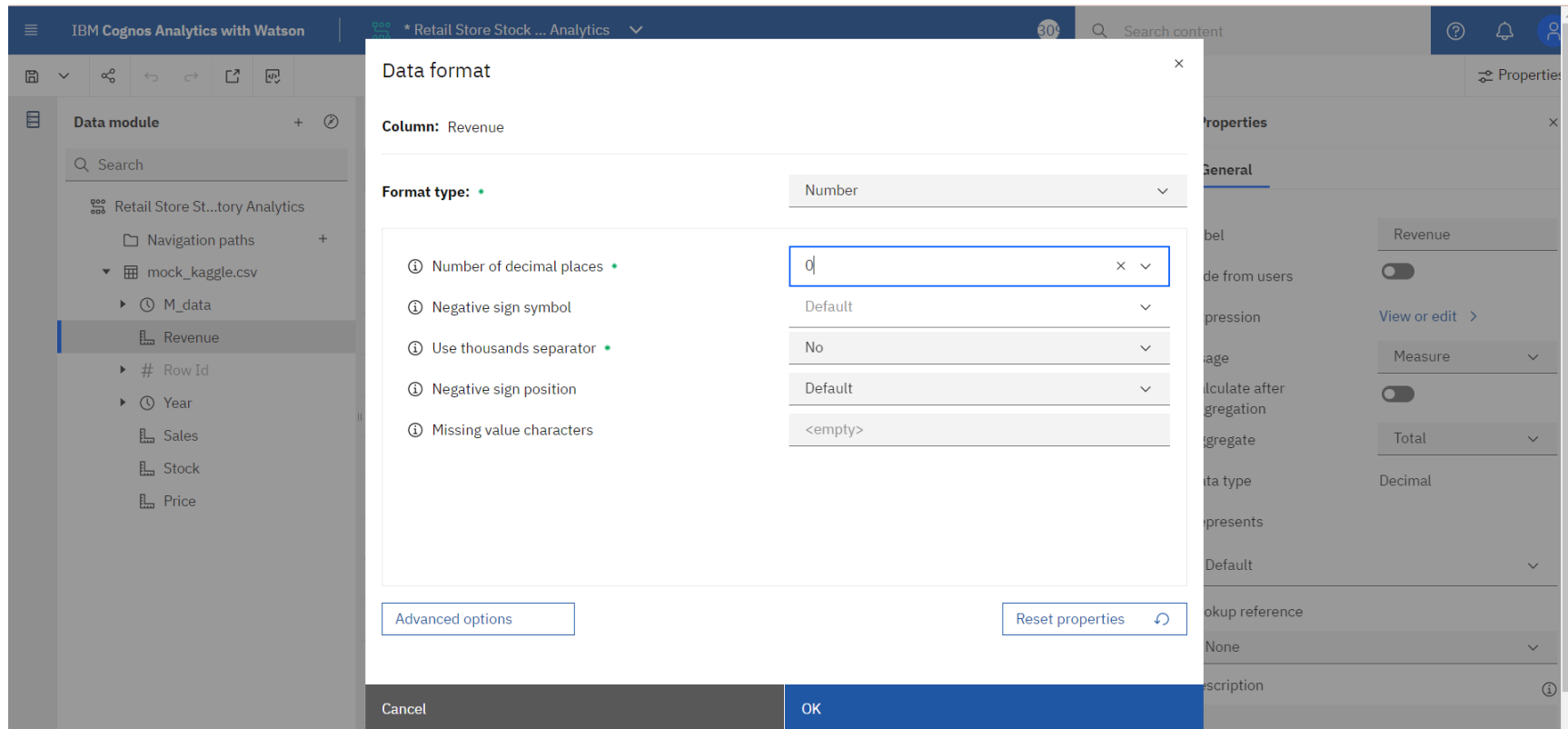
▼

Description

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↑↓	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

Revenue-Format Data:



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▶ 🕒 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

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General

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Label

Revenue

Hide from users

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Expression

View or edit >

Usage

Measure

▼

Calculate after aggregation

🔴

Aggregate

Total

▼

Data type

Decimal

Represents

Default

▼

Lookup reference

None

▼

Description

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Prepared data link –

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