

Project Development Phase

Delivery of Sprint-1

Date	29 October 2022
Team ID	PNT2022TMID52442
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


IBM Cognos Analytics with Watson

mock_kaggle.csv was uploaded successfully. Hide Details


Hello. Welcome to Cognos Analytics with Watson.

You can get started right away by taking a look at our introduction video, product tour and Getting Started tab.

[Watch video](#) [Take a product tour](#)




Quick launch




Upload data

Upload or drag and drop spreadsheets, csv files, and other




Prepare data

Use data modules to clean and connect data from multiple



Exploration

Quickly find unbiased answers by identifying trends in your data with



Present data

Create sophisticated, multi-page, multi-query dashboards, reports.

Data Preparation:

Prepare the Dataset

IBM Cognos Analytics with Watson		Retail Store Stock In ... Analytics		30	Search content	?	🔔	👤
Data module		Grid		Relationships		Custom tables		
Search		↑↓	Row Id	data	venda	estoque	preco	
Retail Store St...tory Analytics		1		2014-01-01	0	4972	1.29	
Navigation paths		2		2014-01-02	70	4902	1.29	
mock_kaggle.csv		3		2014-01-03	59	4843	1.29	
# Row Id		4		2014-01-04	93	4750	1.29	
data		5		2014-01-05	96	4654	1.29	
venda		6		2014-01-06	145	4509	1.29	
estoque		7		2014-01-07	179	4329	1.29	
preco		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:

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M_data

14

 preco

Validation Results

OK

L, estoque	ii	1	6	2014-01-06	145	4509	1.29
L, preço		1	7	2014-01-07	179	4329	1.29
			8				
			1 2014-01-08		321	^104	1.29
		1	9	2014-01-09	125	4489	1.09
		1					
			10	2014-01-10	88	5043	1.09
		1		2014-01-11	188	5239	1.09 11
			12		121	5118	1.09
		1		2014-01-12			
		1	13	2014-01-13	134	984	1.09

Revenue data:

1	9	2014-01-09	125	4459	Time
1	10	2014-01-10	88	5043	i•ionth
1	11	2014-01-11	188	5239	Description
1	12	2014-01-S2	In	5118	
1	13	2D14-01-13	134	4RB4	

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	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

Data module

Search

Retail Store Story Analytics

Navigation paths

mock_kaggle.csv

M_data

Revenue

Row Id

Year

Sales

Stock

Price

Year data:

The screenshot displays the IBM Cognos Analytics interface. The top navigation bar includes the title 'IBM Cognos Analytics with Watson', the current project 'Retail Store Stock In ... Analytics', and a search bar. Below the navigation bar, the 'Data module' pane on the left shows a tree view of the data source 'mock_kaggle.csv' with fields 'M_data', 'Row Id', 'Year', 'venda', 'estoque', and 'preco'. The 'Year' field is selected. The main area shows a table with columns 'M_data', 'Row Id', 'Year', 'venda', and 'estoque'. The 'Year' column is highlighted. The 'Properties' pane on the right shows the 'General' tab for the 'Year' field, with settings for Label, Hide from users, Expression, Usage, Aggregate, Data type, Represents, Time, Year, 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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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

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

estoque

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Stock data:

IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

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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	p
	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

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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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
	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

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General

Label

Price

Hide from users

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Expression

View or edit >

Usage

Measure

▼

Aggregate

Total

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Data type

Decimal

Represents

Default

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Lookup reference

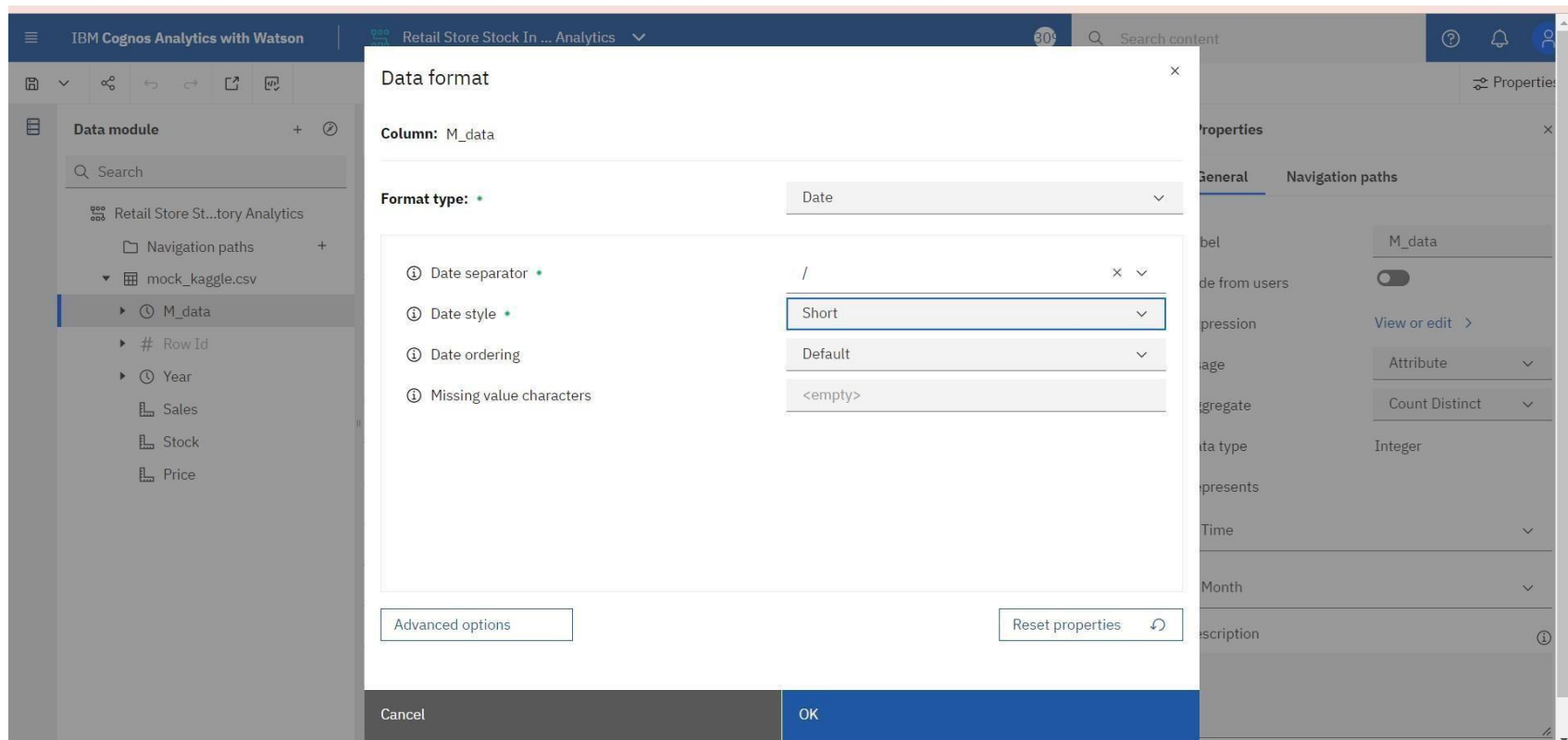
None

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Description

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Month-Format Data:



Data module

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Grid

Relationships

Custom tables

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M_data

Row Id

Year

Sales

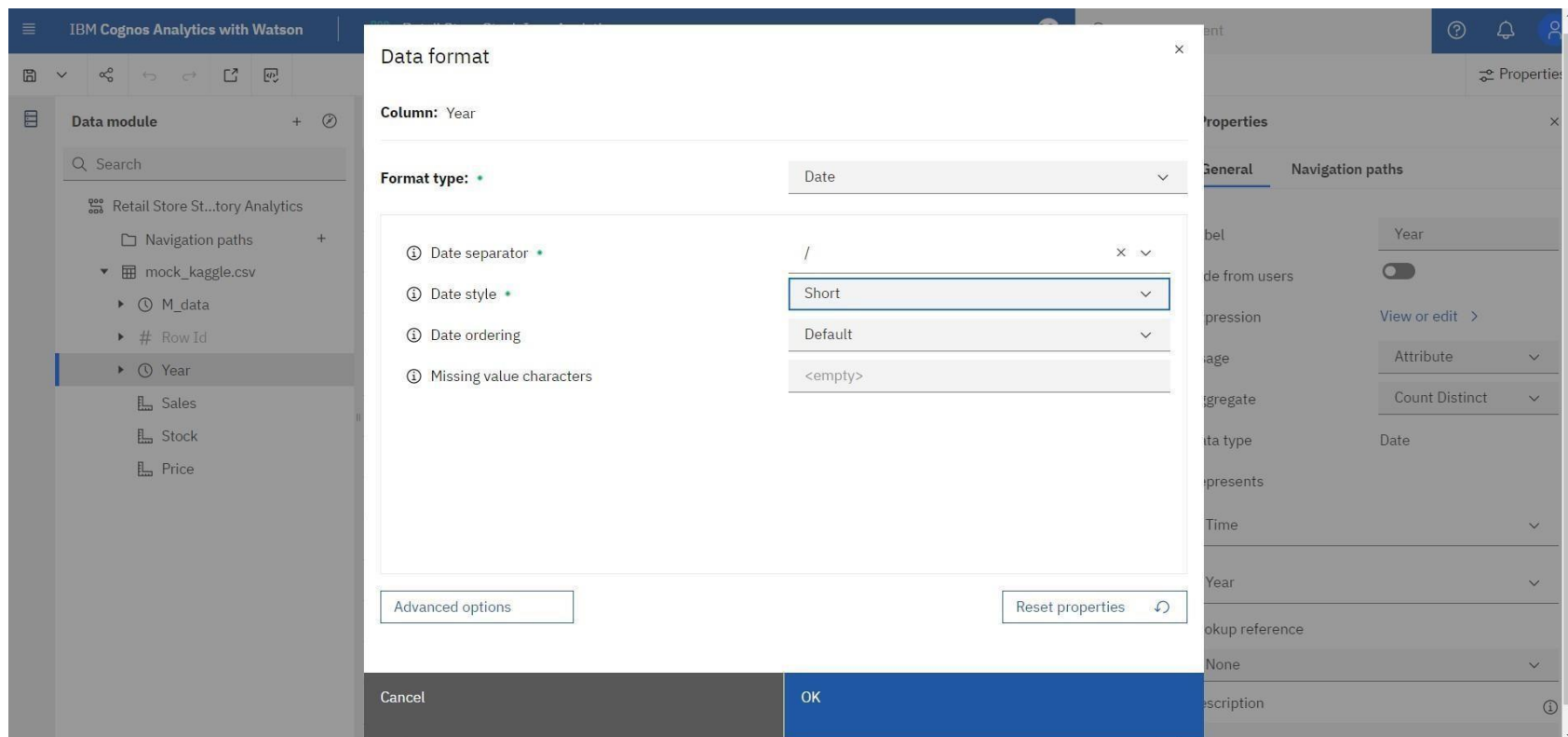
Stock

							General	Navigation paths
@ Retail Store Story Analytics	1	1	1 / 4	0	4972			
EZ Navigation paths	1	2	1/2/14	70	4902		Label	M_data
• mock kaggle.csv							Hide from users	
▶ ⌚ M_data	1	3	1/3/14	59	4843		expression	
▶ # Row Id	1	4	1/4/14	93	4750			

View or edit >

Attribute							Usage		
▶ 🕒 Year	1	5	1/5/14	96	4654			Count Distinct	w
@ Sales	1						Aggregate		
@ Stock	ii 6		1/6/14	145	4509		Data type	Integer	
@ Price	1	7	1/7/14	t79	4329				
	1	8	1/8/t4	32t	4104		Time		"
	1	9	1/9/14	t25	4459				
	1	10	Month 1/10/14	88	5043				•
	1	11	1/11/14	t88	S239	Description			①
12	1 1/12/14	5118		121					
13	1 1/M/14	t34	4984 ,						

Year-Format Data:



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Properties

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@ Data module

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@ Relationships

@ Custom tables

Properties

It	M_data.	RowId	Year	Sale	.Stock
1		1	1/1/14	0	4972
1		2	1/2/.1	70	^902
1		3	1/3.1	59	843
1		4	1/4/14	93	^750
1		5	1/5/14		96
1		6	Aggregate ii1/6/14 ^509	145	
1		7	1/7/14	179	329
1		8		321	

General

Navigation paths

PetailStoreSt...2ocyAnal/ics

Year



Expression

View or edit 7

Usage

Attribute



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Count0istincl



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Data type

Date

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• @ mOck_kaggle.csv Hide from users

t (i) M_data

▶ # RowId

▶ 🕒 Year

@ Sales

@ StOck

@ Price

Sales-Format Data:

			1/8/14		^104		
						Time	v
1	9		1/9/14	125	^459		
1	10		1/10/14	88	5043	Year	v
1							
	11		1j11/1é-	188	***1	Lookup reference	
1	12		1/12/14	121	5118	None	▼
1	13		1/13/14	134	984	Description	

IBM Cognos Analytics with Watson

Retail Store Stock In ... Analytics

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Search content

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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

✕

Data format

Column: Sales

Format type: Number

① Number of decimal places 0 ✕

① Negative sign symbol Default

① Use thousands separator No

① Negative sign position Default

① Missing value characters <empty>

Advanced options

Reset properties ↺

Cancel

OK

Properties

General

Label Sales

🔍

de from users

pression View or edit >

age Measure

aggregate Total

ita type Integer

represents

Default

lookup reference

None

description ⓘ

IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

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Search content

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@ Relationships

@ Custom tables

Properties

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Retail StoryAnalytics
C3 Navigation paths +
• @ mock
F @ M data
▶ # Row Id

▶ 🕒 Year
Sales
Stock
@ Price

1	M_data	Row Id	Year	Sales	Stock
1		1	1/1/t4	0	4972
1		2	1/2/t4	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/t4	145	4509
1		7	1/7/14	179	4329
1		8	1/8/14	321	4104
1		9	1/9/14	125'	4459
1	Lookup reference	1/10/14 5043		88	
1		11	1/11/14	1B8	5239

General

Label
Hide from users
Expression

Sales
☒

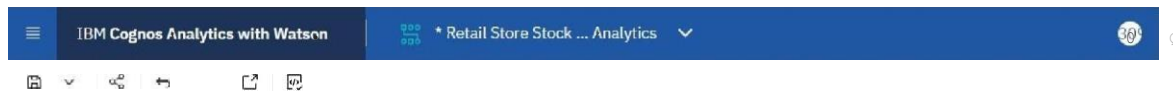
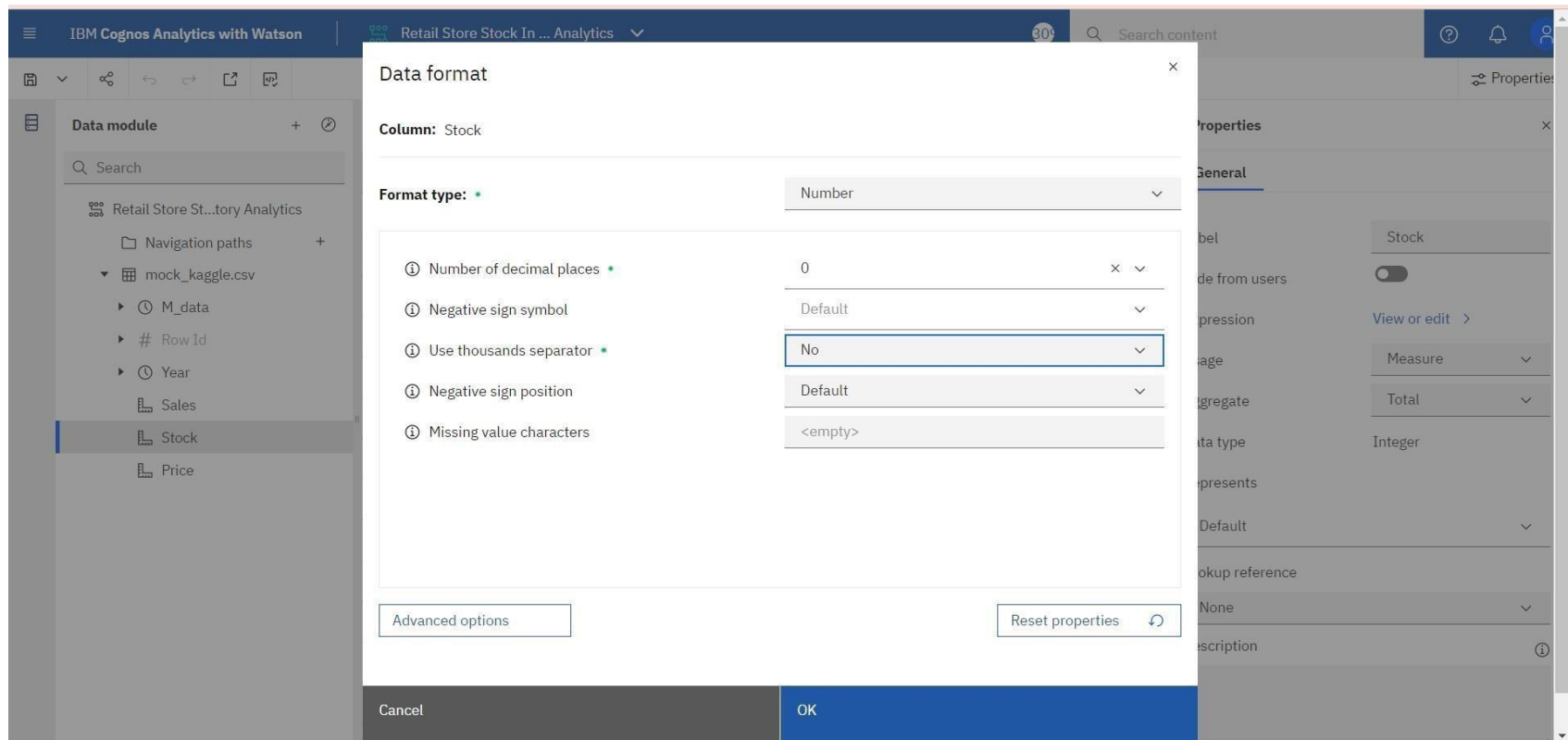
[View or edit 2](#)

Usage Measure v
Aggregate Total "
Data type Integer
Represents
Default v ⓘ
None "
Description

1	12	1/12/14	121	S118
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1	13	1/M/14	134	4984 ,
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Stock-Format Data:

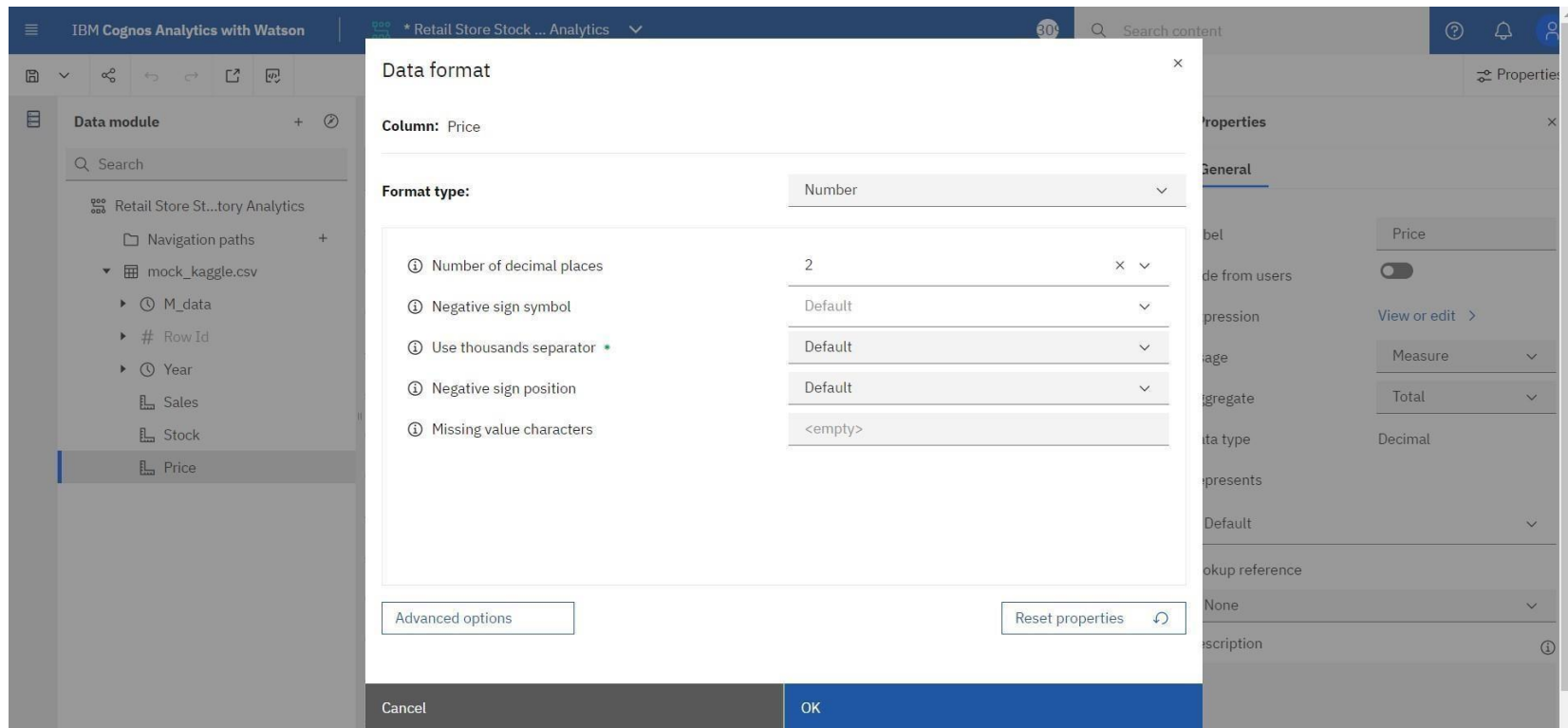


Data module

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Search		Row Id		Year	saes	Stock		General	
Retail Store Story Analytics		1		1/1/14	0	4972		13	
Pj Mavgafionpaths		2		1/2/14	70	490; 2		1/13/14 134	
mock kaggfe.csv		3		1/3/14		59		4843	
Qt M data		4		1/4/14		95		4750	
# Row Id		5		1/5/14		96		4654	
Sales Aggregate		6		1/6/14	ii	L45	4509	Stock'	
Stock		7		1/7/14		179		4329	
Price		8		1/8/14		321		#104	
		9		1/9/14		125		445'	
10		1/10/14		88	5043				
11		1/11/14		18B	5239				
		12		1/12/14		121		51.18	

Price-Format Data:



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▶ # Row Id

▶ 🕒 Year

📊 Sales

@ Stock

St...tory Analytics

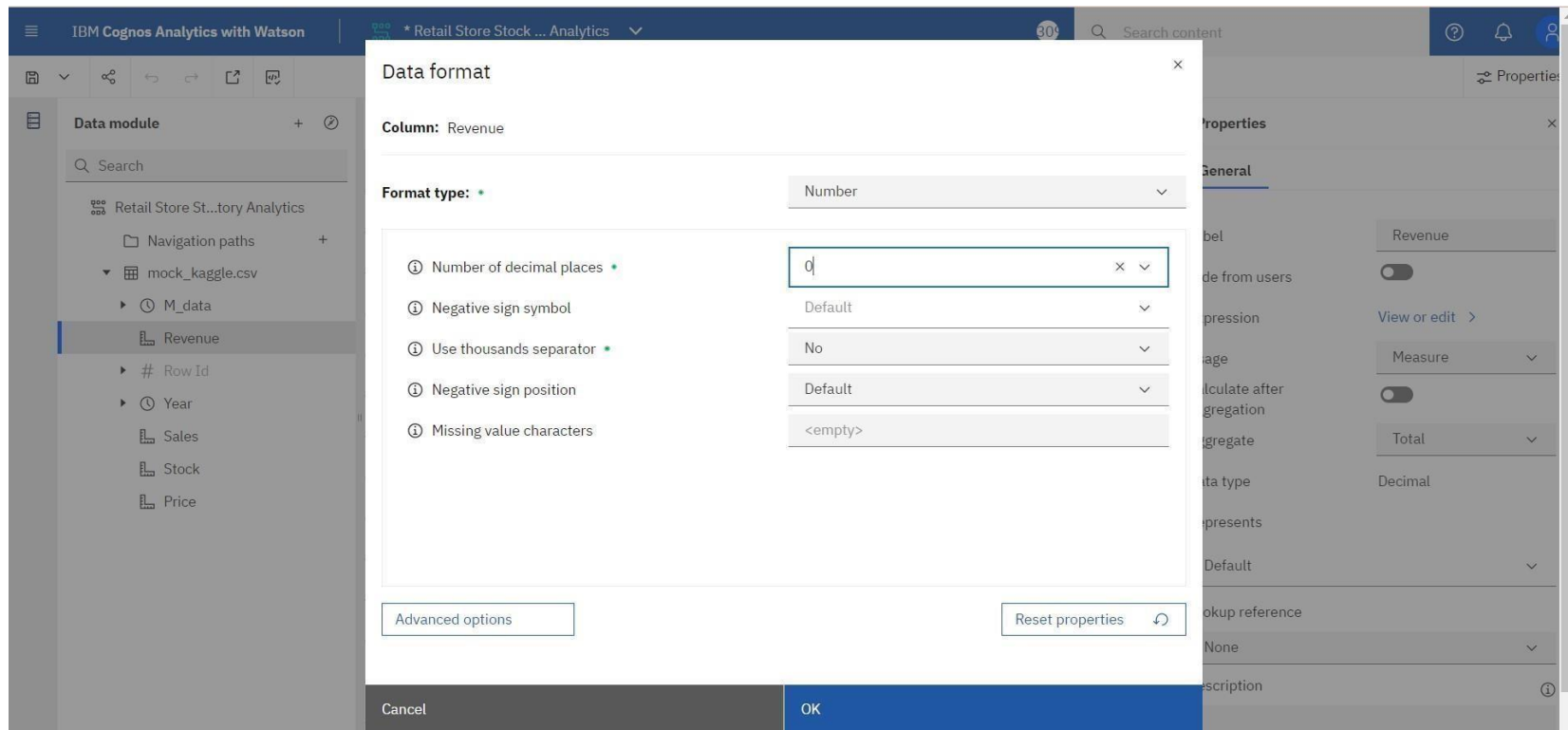
paths

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↑↓	Year	Sales	Stodk	Price	General
	1/1/14		4972	L29	
		0			
		70			Label Price 179
		69			Hide from users <input type="checkbox"/>
	1/2/t4	93	4902	L29	Expression View or edit >
	1/3/14	96	4843	1.29	Usage Measure
	1/4/14	145	4750	1.29	Aggregate Data type Total
	1/5/t4		4654	L29	Decimal
	1/6/t4		4509	L29	<div>📊 Price</div>

Revenue-Format Data:



Data module

Grid

Relationships @ Custom table

Properties

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Search

Retail Store St...tory
Analytics
Ed Navigation paths

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* {g M_data

Revenue

* # Row Id 1

↕	M_data	Revenue	Row Id	Year	Sales	General
1	0	1	1/1/14	0	Label	Revenue
1	90	2	1/2/14	70		
1	76	3				
			1/3f14	59		Hide from users
1	Expression	View or edit 7				
1	120	4	1/4/14	93		
					Usage	measure
124	5	1/5/14	96			



* @ Year					1/6/14	145 aggregation	Calculate after
	11	1	187	6			
@ Sales		1				Aggregate	Total
		1		7	1/7/14	179	
@ Stock						Data type	Decimal
@ Price		1	414	8			1/8/14
		1	136				321
		1	96	9	1/9/14	Represents	
		1	205	10		125	Default
					1/10/14	88	
		1		11	1/11/14	Egg	Lookup reference
		1	132	12	3/12/14	121	
							modelle
None		1	146	13	1/M/14	134	r&path
Description							Ref=.m
							y folde
							rs%2FR
							etail%2
							BStore
							%2BSto
							ck%2BI

Prepared data link –

<https://us3.ca.analytics.ibm.com/bi/?perspective=ca->

[Inventory%2BAnalytics](#)