

Project Development Phase

Delivery of Sprint-1

Date	18 November 2022
Team ID	PNT2022TMID00458
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

How

Sprint-1:

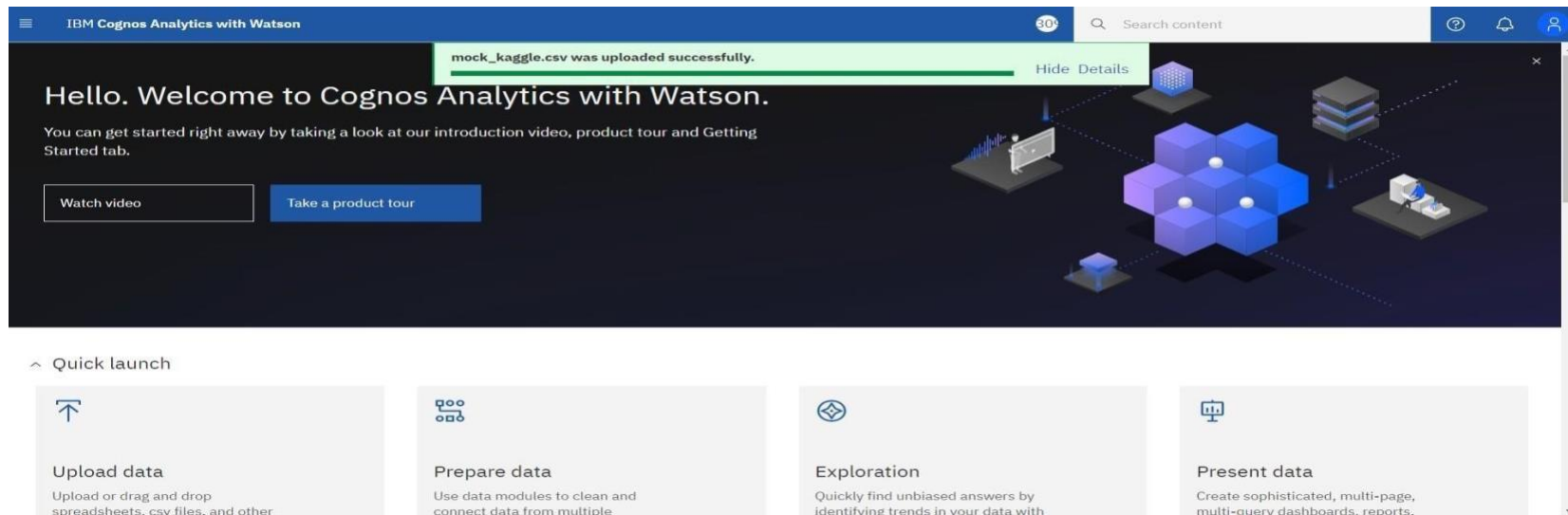
Data Collection:

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

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

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M_data

L preco

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OK

Properties

	Datamodule	*	@ Grid	@ Relationships	@			
Custom tables								
Q Search		TI	N_data	Row Id	data	venda	estoque	preco
Retail Store Analytics		1		1	2014-01-01	61	^972	1.29
Ed Navigation paths	+							
		1		2	2014-01-02	70	^902	1.29
@ mock_kaggle.csv								
		1		3	2014-01-03	59	^843	1.29
@ M data								
▶ # Row Id		1		4	2014-01-04	93	^750	1.29
• O data		1		5	2014-01-05	96	4654	1.29
@ venda								

L, estoque	ii	1	6	2014-01-06	145	4509	1.29
L, preco		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

4104

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 St...tory 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 | 30% | Search content | ? | ? | ?

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	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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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

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Expression

View or edit >

Usage

Measure

Aggregate

Total

Data type

Integer

Represents

Default

Lookup reference

None

Description

Data module

Search

Retail Store Story Analytics

Navigation paths

mock_kaggle.csv

M_data

Row Id

Year

Sales

Stock

preco

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

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Search

Retail Store St...tory Analytics

Navigation paths

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mock_kaggle.csv

M_data

Row Id

Year

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Price

Grid

Relationships

Custom tables

Year

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2014-01-01

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2014-01-03

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4843

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2014-01-04

93

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2014-01-05

96

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2014-01-06

145

4509

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2014-01-07

179

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2014-01-10

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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

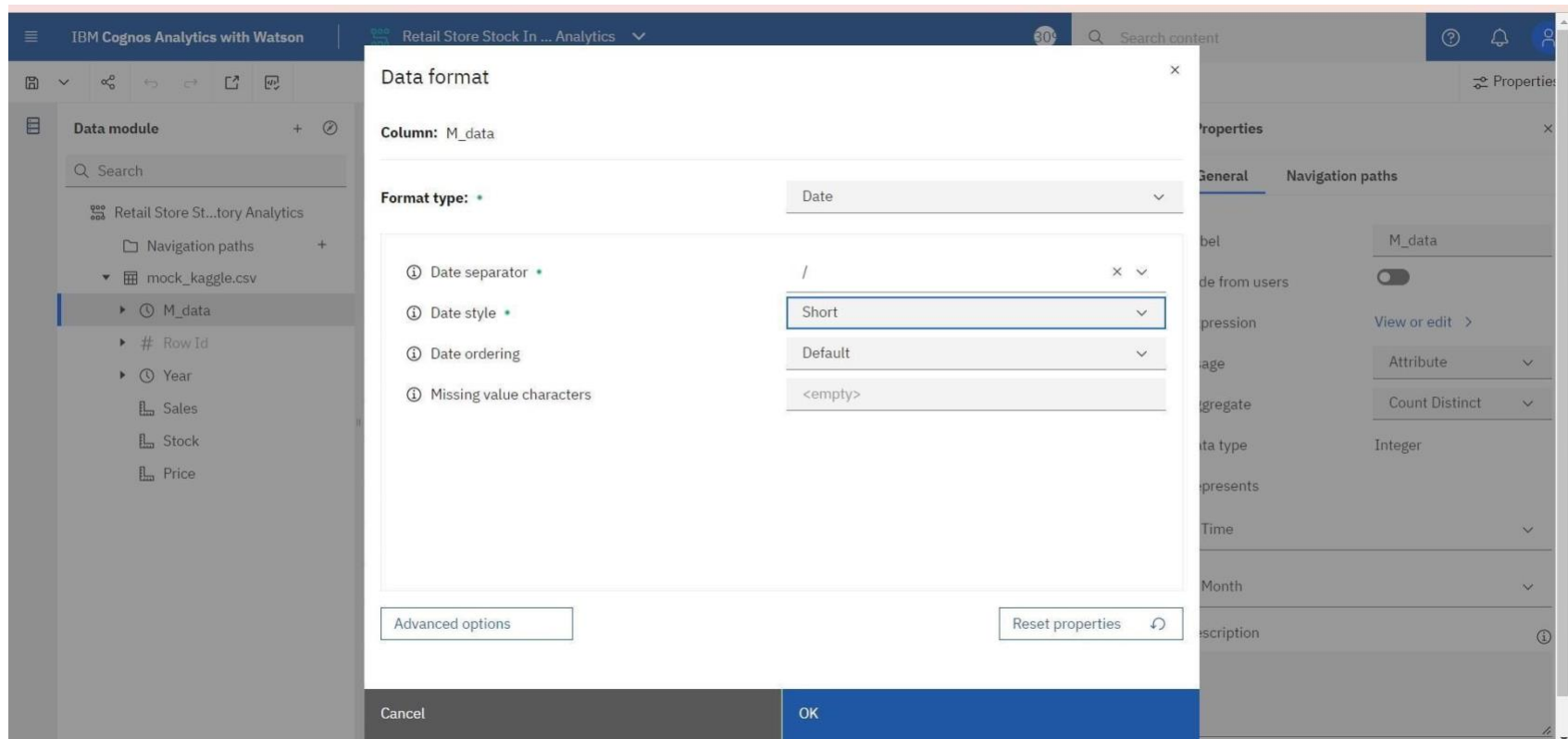
Default

Lookup reference

None

Description

Month-Format Data:



Data module

Q Search

Grid

Relationships

Custom tables

	M_data	Row Id	Year	Sales	Stock	
@ Retail Store Story Analytics	1	1	1 / 14	0	4972	
EZ Navigation paths	1	2	1/2/14	70	4902	
• mock kaggle.csv	1	3	1/3/14	59	4843	
▶ ⌚ M_data	1	4	1/4/14	93	4750	
▶ # Row Id						

General

Navigation paths

Label

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expression

M_data

View or edit >

Attribute

Year

@ Sales

@ Stock

@ Price

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1/5/14

1/6/14

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Month
1/10/14

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96

145

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32t

t25

88

t88

121

4654

4509

4329

4104

4459

5043

S239

Usage

Aggregate

Data type

Time

Description

Count Distinct

Integer

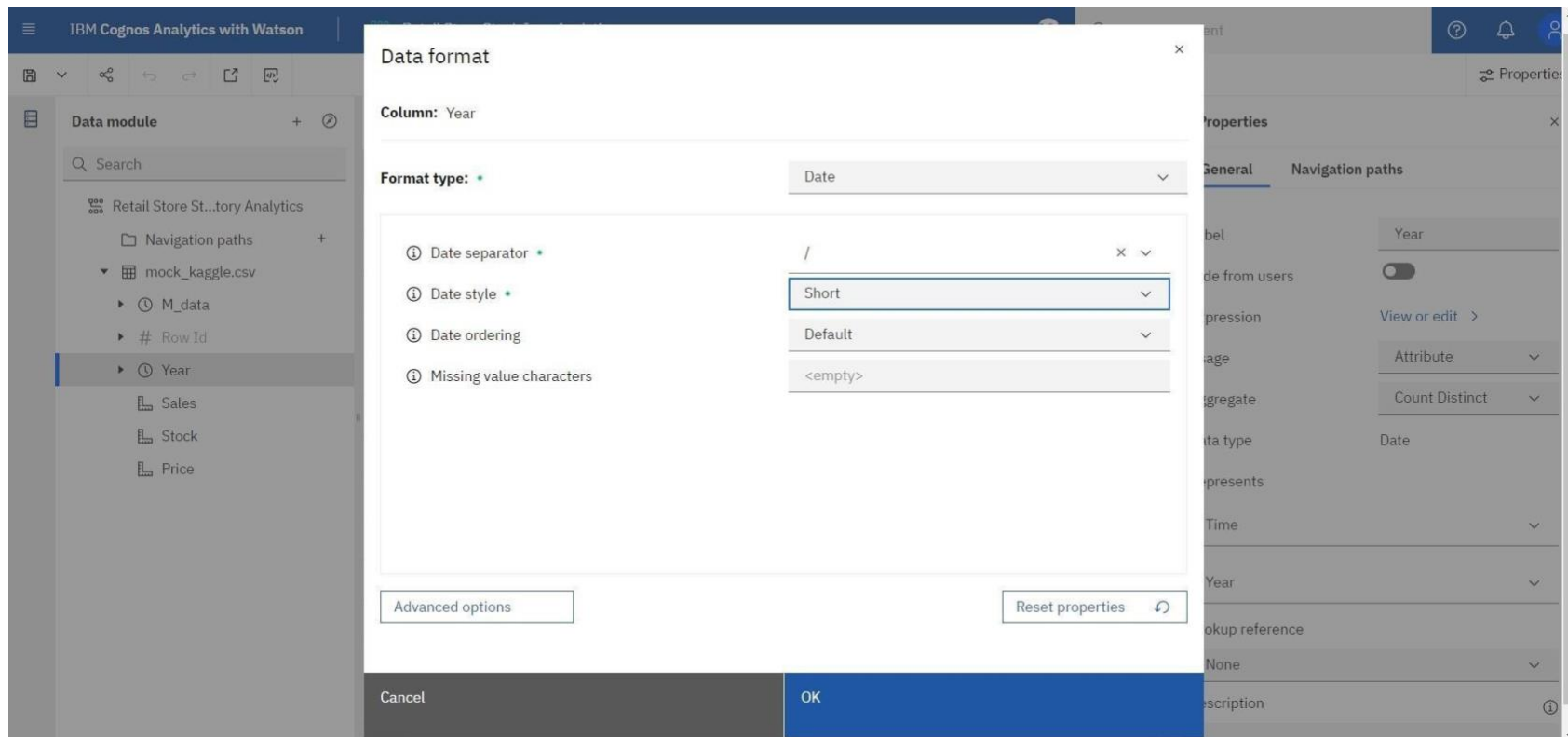
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Year-Format Data:



@	Data module	@ Grid	@ Relationships	@ Custom tables		Properties	
	Search	It	M_data.	RowId	Year	Sales	Stock
	Navigation paths	1	1	1/1/14	0	497Z	
	+	1	2	1/2/.1	70	^902	PetailStoreSt..2ocyAnal/ics
		1	3	1/3.1	59	843	Q Navigation paths Label
			Year				<input type="checkbox"/>
	• @ mOck_kaggle.csv Hide from users						
	r (i) M_data	1	4	1/4/14	93	^750	Expression View or edit 7
	# Row Id	1					Attribute
	⌚ Year	1	5	1/5/14	96	46S4	Usage
	@ Sales	1	6	Aggregate ii1/6/14 ^509	145		Couut0istincl v
	@ StOck	1	7	1/7/14	179	329	Data type Date
	@ Price	1	8		321		Represents

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	***?	Lookup reference	
1	12	1/12/,14		121	5118	None	▼
	13	1/13/14		134	984	Description	
1							

IBM Cognos Analytics with Watson

Retail Store Stock In ... Analytics

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Search content

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📁 Data module

🔍 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

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IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

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Search content

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📄 Properties

* gB Gnd @ Relationships @ Custom tables

Properties

IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

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Properties

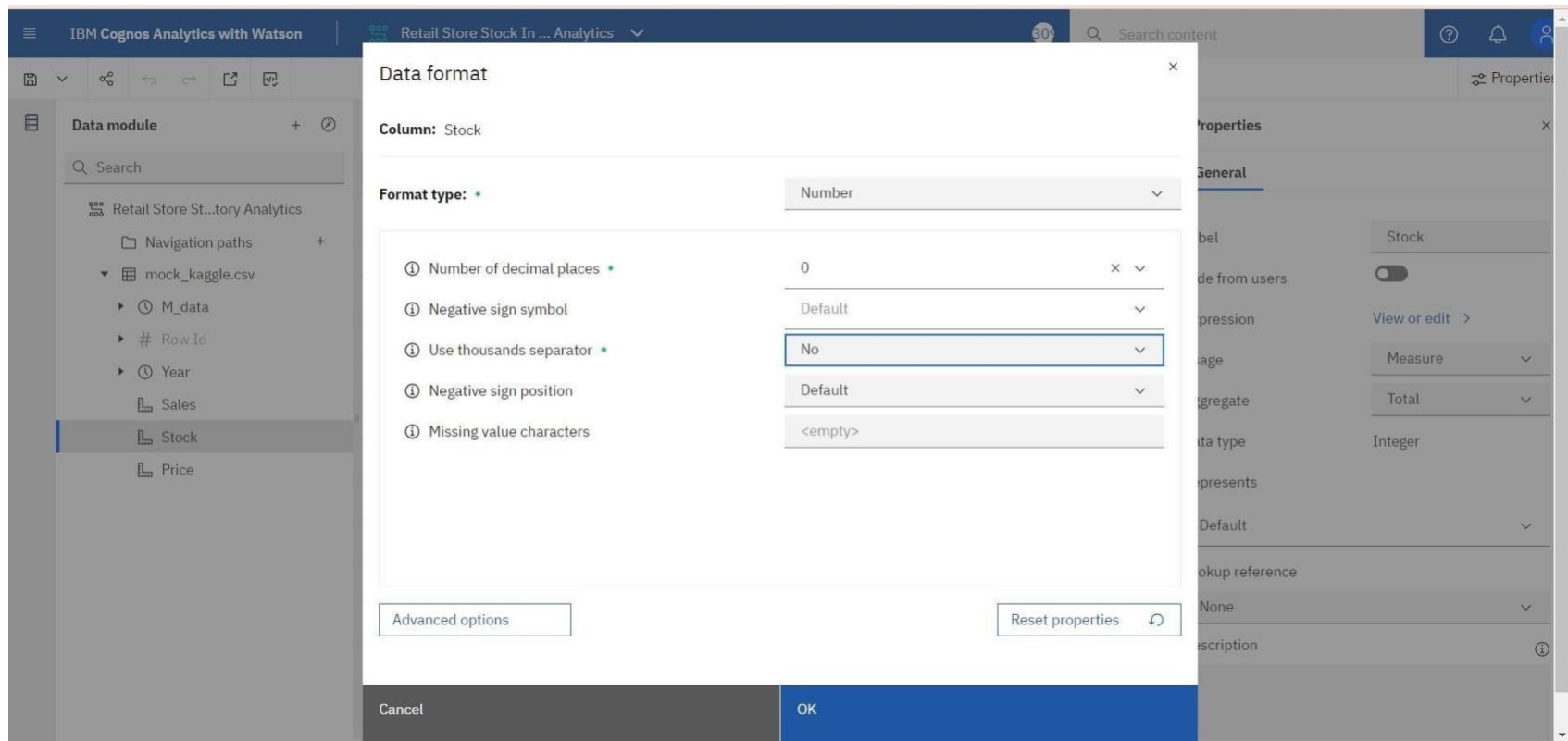
Q

	M_data	Row Id	Year	Sales	Stock	General
Retail	1	1	1/1/t4	0	4972	
St...toryAnalytics	1	2	1/2/t4	70	4902	Label
C3 Navigation paths	1	3	1/3/14	59	4843	Hide from users
@ mock	1	4	1/4/14	93	4750	Expression
F @ M data						
# Row Id						
						View or edit 2
						Usage
Year	1	5	1/5/14	96	4654	Measure
Sales	1					Aggregate
Stock	1	6	1/6/t4	145	4509	Total
		7	1/7/14	179	4329	Data type
@ Price						Integer
	1	8	1/8/14	321	4104	Represents
	1	9	1/9/14	125'	4459	Default
	1	10	1/10/14	88		
Lookup reference		5043				
	1	11	1/11/14	1B8	5239	None
						Description

1	12	1/12/14	121	S118
---	----	---------	-----	------

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



Data module

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Q Search



Row Id

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General

Retail Store St...tory Analytics

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mock kaggfe.csv

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Properties

Row Id

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Usage

Sales Aggregate

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Stock

Stock'

Datatype

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Price

1/7/14

179

4329

Represents

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Measure

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1/8/14

321

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Default

Total

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1/9/14

125

445'

Integer

Lookup reference

10

1/10/14

88

5043

None

v

11

1/11/14

18B

5239

Description

12

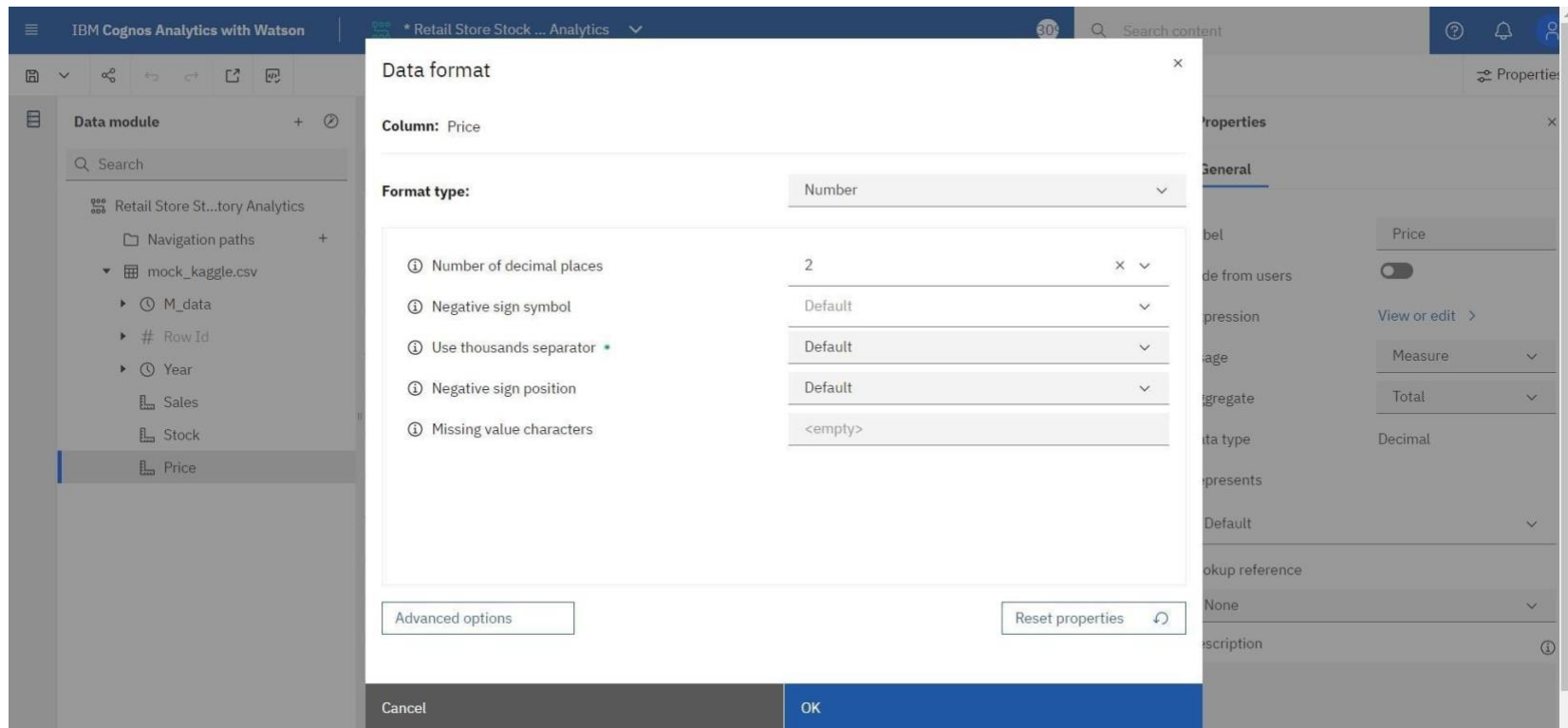
1/12/14

121

51.18

i

Price-Format Data:



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BB Grid

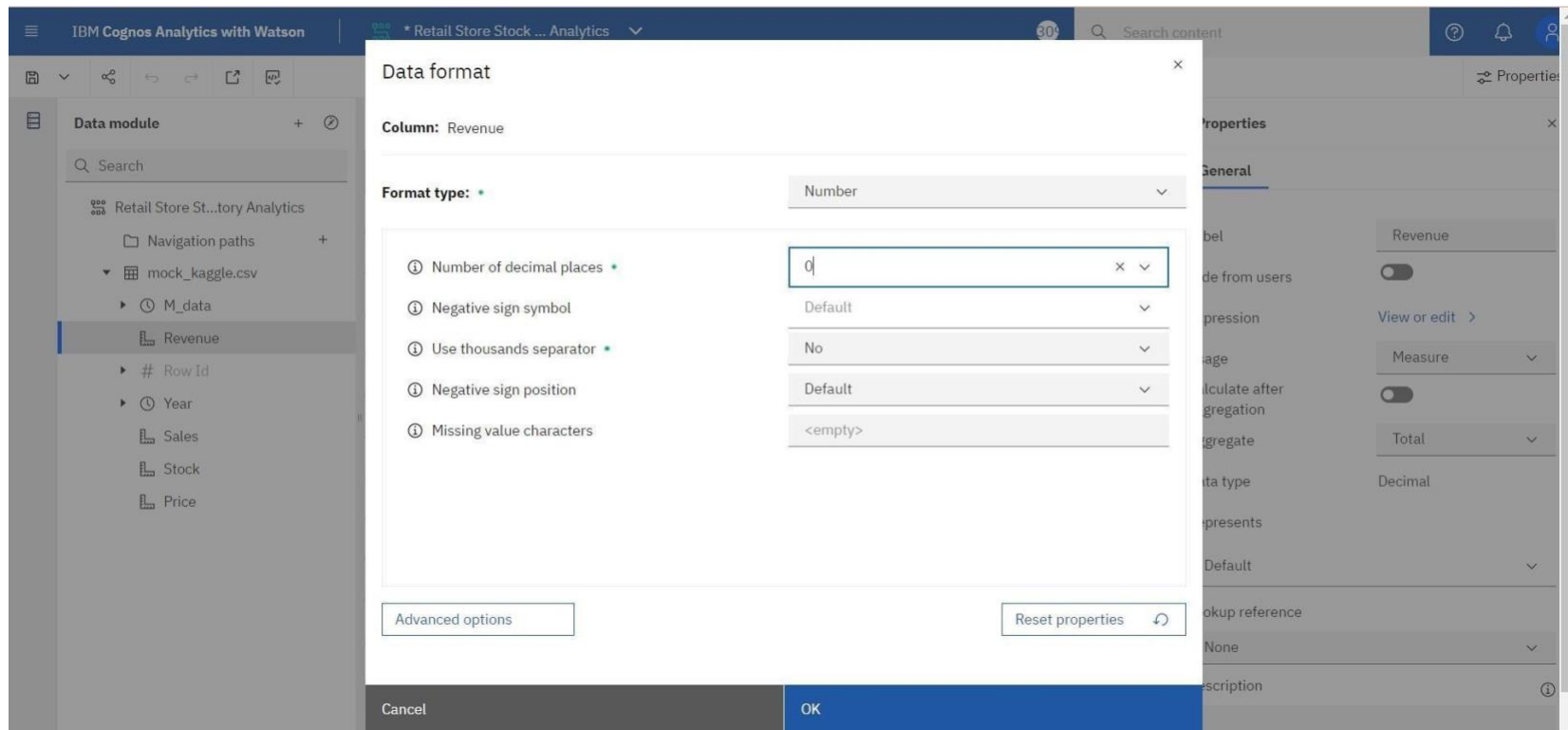
@ Relationships

@ Custom tables

Properties

Q Search	Year	Sales	Stock	Price	General
	1/1/14		4972	L29	
@ Retail		0			
St...tory Analytics		70			Label
@		69			Price 179
					Hide from users
• gg mock					Expression
* @ M	1/2/t4	93	4902	L29	View or edit >
▶ # Row Id	1/3/14	96	4843	1.29	Usage
	1/4/14	145	4750	1.29	Aggregate Data type
▶ Year	1/5/t4		4654	L29	Total
	1/6/t4		4509	L29	Decimal
Sales					Price
@ Stock					
		1/7/t4 4329		L29	
	1/8/14	321	4104	1.29	Represents
		125			
	1/9/t4 4459		Default	1.09	
	1/10/14	gg	5043	L09	Lookup reference
	1/11/14	t88	5239	L09	None
	1/12/14	t21	5118	1.09	Description
	1/M/14	t34	49B4	1.09	

Revenue-Format Data:



I@ Grid

- **Relationships @ Cuctom tablee**

Properties

X

Q Search

Retail Store Story Analytics

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- @| mock_kaggle.csv



* {g M_data

Revenue

* # Row Id 1

↑↓	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
	Expression	View or edit 7			
1		120	4	1/4/14	93
124		5	1/5/14	96	

General

Label

Revenue

Hide from users

1/3f14

59

Expression

View or edit 7

Usage

measure



* @ Year					1/6/14	145 aggregation	Calculate after
	11	1	187	6			
@ Sales		1				Aggregate	Total
		1	231	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		Lookup
		1	132	12	3/12/14	121	reference
						Egg	
		1	146	13	1/M/14	134	modelle
None							r&path
							Ref=.m
Description							y folde
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							etail%2
							BStore
							%2BSto
							ck%2BI
							nventor

Prepared data link –

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

[y%2BAnalytics](#)