

Project Development Phase

Sprint - 1

Team ID	PNT2022TMID39861
Project Name	Project - Retail Store Stock Inventory Analytics

SPRINT-1

- Data Collection
- Data

Preparation **Data**

Collection:

1. Download the Dataset

Dataset link -

<https://drive.google.com/file/d/1awFIKJ9LiIdnNHwGLcsqNDbbwshFHR-w/view>

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1	data																						
2	#####	venda	0	4972	1.29																		
3	#####		70	4902	1.29																		
4	#####		59	4843	1.29																		
5	#####		93	4750	1.29																		
6	#####		96	4654	1.29																		
7	#####		145	4509	1.29																		
8	#####		179	4329	1.29																		
9	#####		321	4104	1.29																		
10	#####		125	4459	1.09																		
11	#####		88	5043	1.09																		
12	#####		188	5239	1.09																		
13	#####		121	5118	1.09																		
14	#####		134	4984	1.09																		
15	#####		80	4904	1.09																		
16	#####		82	4822	1.09																		
17	#####		94	4728	1.19																		
18	#####		159	4464	1.19																		
19	#####		199	4265	1.19																		
20	#####		104	4161	1.19																		
21	#####		70	4091	1.19																		
22	#####		127	3964	1.09																		
23	#####		96	3868	1.09																		
24	#####		75	3793	1.09																		
25	#####		198	3595	1.09																		
26	#####		168	3427	1.09																		
27	#####		125	3302	1.09																		
28	#####		86	3216	1.09																		
29	#####		222	2994	0.99																		

Tool Used: IBM Cognos

2. Load the Dataset

IBM Cognos Analytics with Watson

Search content

Analyzing Inventory Management Dataset.csv

Cancel Details

Quick launch

Upload data

Upload or drag and drop spreadsheets, csv files, and other data sources.

Prepare data

Use data modules to clean and connect data from multiple resources.

Exploration

Quickly find unbiased answers by identifying trends in your data with data exploration.

Present data

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

Get up and running in IBM Cognos Analytics

How-to videos

Learn how to use IBM Cognos Analytics.

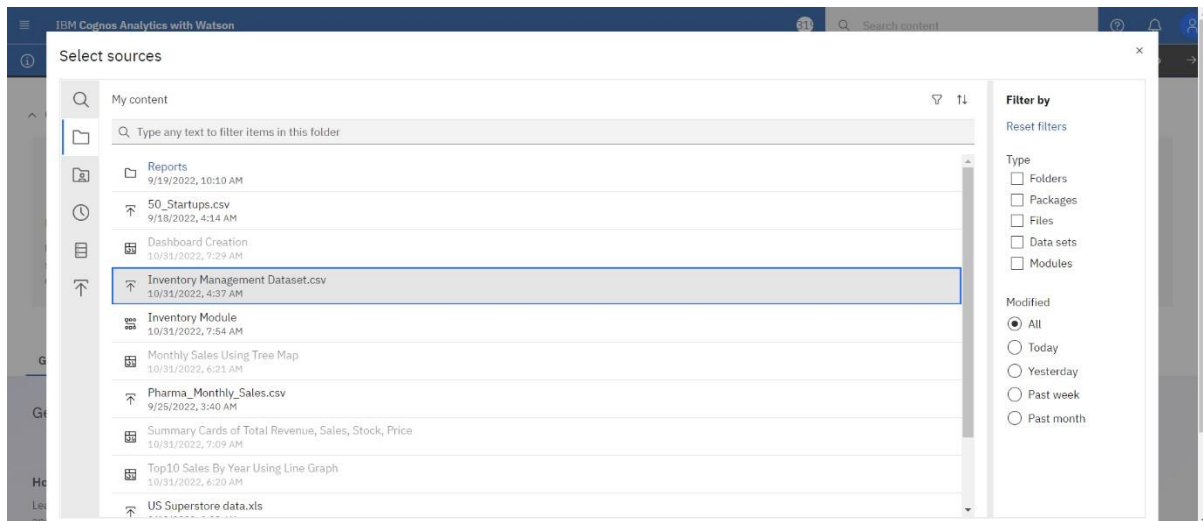
Accelerator Catalog

Browse a growing catalog of industry use.

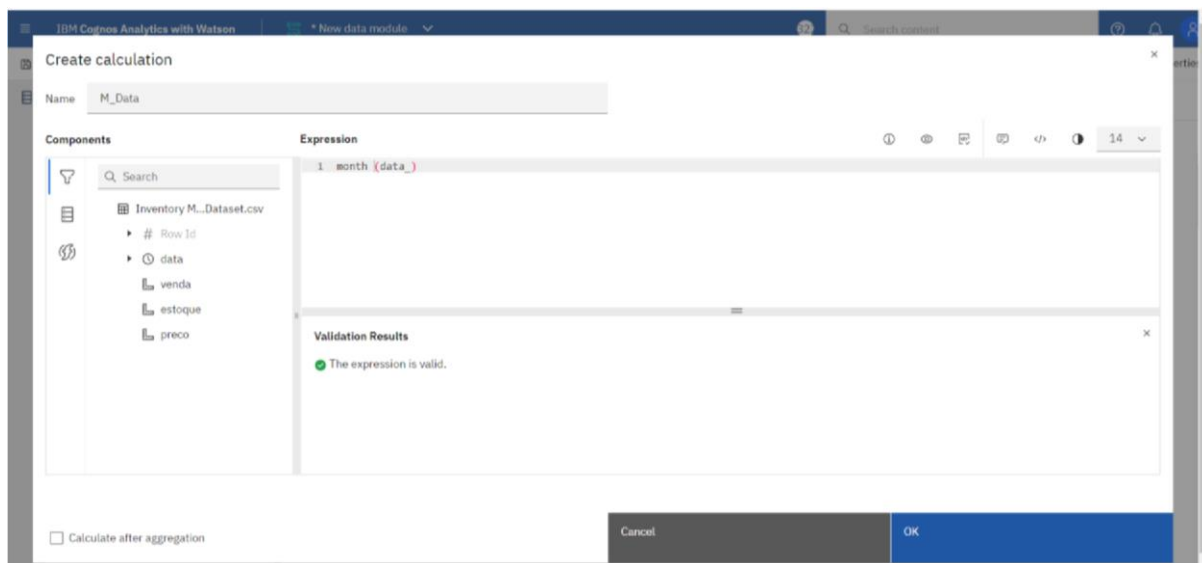
Learning resources

Expand your knowledge and get

Data Preparation:



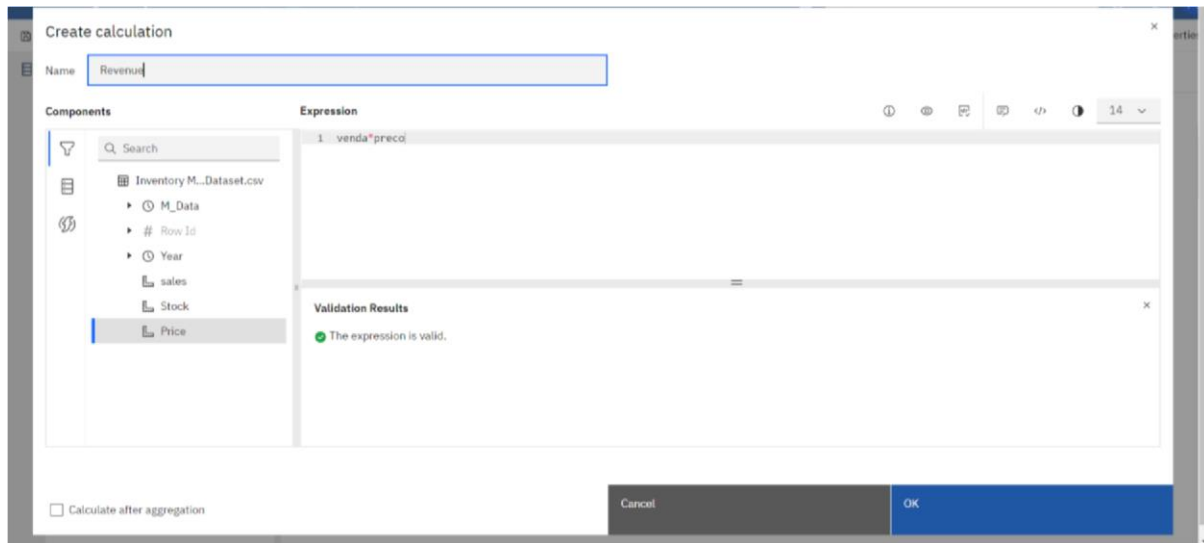
Month Data(M_Data):



The 'Data module' view displays a table with the following data:

M_Data	Row Id	Year	Sales	Stock	Price
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
1	14	2014-01-14	80	4904	1.09
1	15	2014-01-15	82	4822	1.09

Revenue Data:



IBM Cognos Analytics with Watson

New data module

Search content

Properties

Data module

Grid Relationships Custom tables

Revenue	M_Data	Row Id	Year	Sales	Stock	Price
0	1	1	2014-01-01	0	4972	1.29
90.3	1	2	2014-01-02	70	4902	1.29
76.11	1	3	2014-01-03	59	4843	1.29
119.97	1	4	2014-01-04	93	4750	1.29
123.84	1	5	2014-01-05	96	4654	1.29
187.05	1	6	2014-01-06	145	4509	1.29
230.91	1	7	2014-01-07	179	4329	1.29
414.09000000000003	1	8	2014-01-08	321	4104	1.29
136.25	1	9	2014-01-09	125	4459	1.09
95.92	1	10	2014-01-10	88	5043	1.09
204.92000000000002	1	11	2014-01-11	188	5239	1.09
131.89000000000001	1	12	2014-01-12	121	5118	1.09
146.06	1	13	2014-01-13	134	4984	1.09
87.2	1	14	2014-01-14	80	4904	1.09
89.38000000000001	1	15	2014-01-15	82	4822	1.09

Year Data:

IBM Cognos Analytics with Watson

New data module

Search content

Properties

Data module

Grid Relationships Custom tables

Revenue	M_Data	Row Id	Year	Sales	Stock	Price
0	1	1	2014-01-01	0	4972	1.29
90.3	1	2	2014-01-02	70	4902	1.29
76.11	1	3	2014-01-03	59	4843	1.29
119.97	1	4	2014-01-04	93	4750	1.29
123.84	1	5	2014-01-05	96	4654	1.29
187.05	1	6	2014-01-06	145	4509	1.29
230.91	1	7	2014-01-07	179	4329	1.29
414.09000000000003	1	8	2014-01-08	321	4104	1.29
136.25	1	9	2014-01-09	125	4459	1.09
95.92	1	10	2014-01-10	88	5043	1.09
204.92000000000002	1	11	2014-01-11	188	5239	1.09
131.89000000000001	1	12	2014-01-12	121	5118	1.09
146.06	1	13	2014-01-13	134	4984	1.09
87.2	1	14	2014-01-14	80	4904	1.09
89.38000000000001	1	15	2014-01-15	82	4822	1.09

Stock Data:

IBM Cognos Analytics with Watson

New data module

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Search content

Properties

Data module

Search

New data module

Navigation paths

Inventory M...ataset.csv

Revenue

M_Data

Row Id

Year

Sales

Stock

Price

Grid

Relationships

Custom tables

T1	Revenue	M_Data	Row Id	Year	Sales	Stock	Price
0	1	1	2014-01-01	0	4972	1.29	
90.3	1	2	2014-01-02	70	4902	1.29	
76.11	1	3	2014-01-03	59	4843	1.29	
119.97	1	4	2014-01-04	93	4750	1.29	
123.84	1	5	2014-01-05	96	4654	1.29	
187.05	1	6	2014-01-06	145	4509	1.29	
230.91	1	7	2014-01-07	179	4329	1.29	
414.09000000000003	1	8	2014-01-08	321	4104	1.29	
136.25	1	9	2014-01-09	125	4459	1.09	
95.92	1	10	2014-01-10	88	5043	1.09	
204.92000000000002	1	11	2014-01-11	188	5239	1.09	
131.89000000000001	1	12	2014-01-12	121	5118	1.09	
146.06	1	13	2014-01-13	134	4984	1.09	
87.2	1	14	2014-01-14	80	4904	1.09	
89.38000000000001	1	15	2014-01-15	82	4822	1.09	

Sales Data:

IBM Cognos Analytics with Watson

* New data module

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Search content

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Properties

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Data module

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🔍 Search

New data module

📁 Navigation paths

📄 Inventory M...ataset.csv

📄 Revenue

▶ # M_Data

▶ # Row Id

▶ 🕒 Year

📄 Sales

📄 Stock

📄 Price

📄 Grid

🔗 Relationships

📄 Custom tables

⬆	Revenue	M_Data	Row Id	Year	Sales	Stock	Price
	0	1	1	2014-01-01	0	4972	1.29
	90.3	1	2	2014-01-02	70	4902	1.29
	76.11	1	3	2014-01-03	59	4843	1.29
	119.97	1	4	2014-01-04	93	4750	1.29
	123.84	1	5	2014-01-05	96	4654	1.29
	187.05	1	6	2014-01-06	145	4509	1.29
	230.91	1	7	2014-01-07	179	4329	1.29
	414.09000000000003	1	8	2014-01-08	321	4104	1.29
	136.25	1	9	2014-01-09	125	4459	1.09
	95.92	1	10	2014-01-10	88	5043	1.09
	204.92000000000002	1	11	2014-01-11	188	5239	1.09
	131.89000000000001	1	12	2014-01-12	121	5118	1.09
	146.06	1	13	2014-01-13	134	4984	1.09
	87.2	1	14	2014-01-14	80	4904	1.09
	89.38000000000001	1	15	2014-01-15	82	4822	1.09

Price Data:

M_Data	Row Id	Year	Sales	Stock	Price
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
00000000003	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
00000000002	11	2014-01-11	188	5239	1.09
00000000001	12	2014-01-12	121	5118	1.09
1	13	2014-01-13	134	4984	1.09
1	14	2014-01-14	80	4904	1.09
00000000001	15	2014-01-15	82	4822	1.09

Month Format Data:

Data format

Column: M_Data

Format type: Date

① Date separator: /

① Date style: Short

① Date ordering: Default

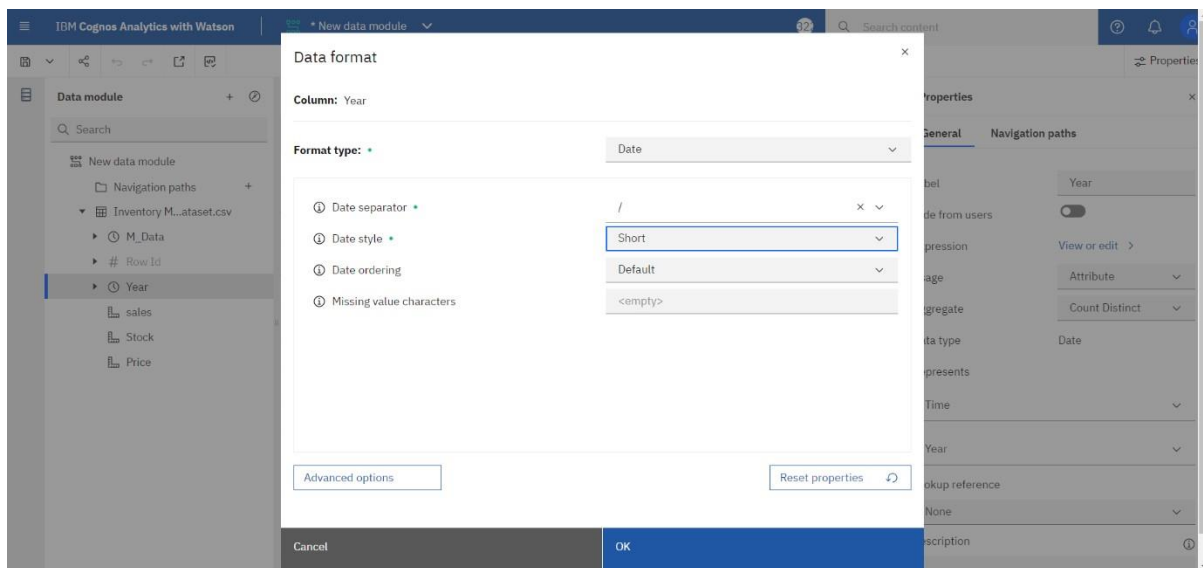
① Missing value characters: <empty>

Advanced options Reset properties

Cancel OK

Revenue	M_Data	Row Id	Year	sales	Stock	Price
0	1	1	1/1/14	0	4972	1
90.3	1	2	1/2/14	70	4902	1
76.11	1	3	1/3/14	59	4843	1
119.97	1	4	1/4/14	93	4750	1
123.84	1	5	1/5/14	96	4654	1
187.05	1	6	1/6/14	145	4509	1
230.91	1	7	1/7/14	179	4329	1
414.09000000000003	1	8	1/8/14	321	4104	1
136.25	1	9	1/9/14	125	4459	1
95.92	1	10	1/10/14	88	5043	1
204.92000000000002	1	11	1/11/14	188	5239	1
121.00000000000001	1	12	1/12/14	121	5118	1

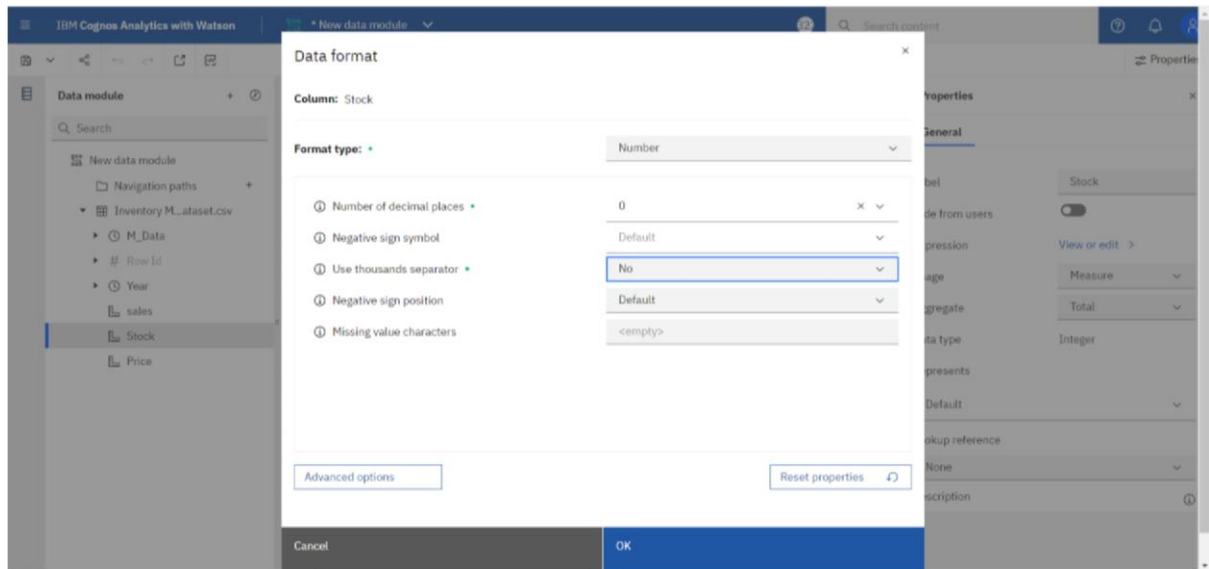
Year Format Data:



The screenshot shows the 'Grid' view of the data in IBM Cognos Analytics. The 'Year' column is highlighted. The data is as follows:

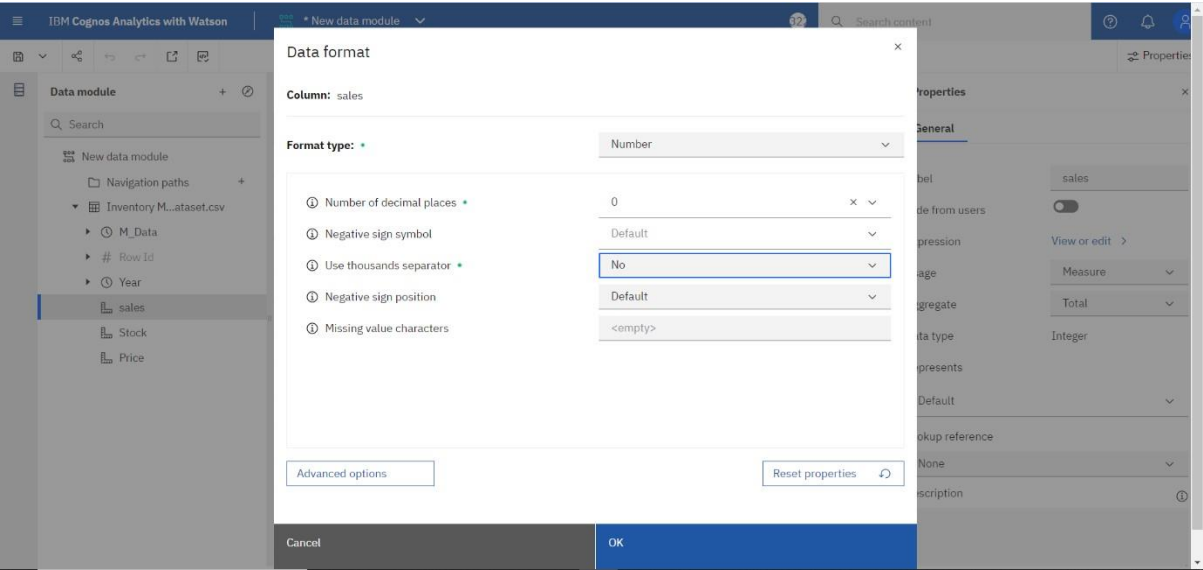
Revenue	M_Data	Row Id	Year	sales	Stock	Price
0	1	1	1/1/14	0	4972	1
90.3	1	2	1/2/14	70	4902	1
76.11	1	3	1/3/14	59	4843	1
119.97	1	4	1/4/14	93	4750	1
123.84	1	5	1/5/14	96	4654	1
187.05	1	6	1/6/14	145	4509	1
230.91	1	7	1/7/14	179	4329	1
414.09000000000003	1	8	1/8/14	321	4104	1
136.25	1	9	1/9/14	125	4459	1
95.92	1	10	1/10/14	88	5043	1
204.92000000000002	1	11	1/11/14	188	5239	1
131.00000000000001	1	12	1/12/14	124	5110	1

Stock Format Data:



Revenue	M_Data	Row Id	Year	sales	Stock	Price
0	1	1	1/1/14	0	4972	1
90.3	1	2	1/2/14	70	4902	1
76.11	1	3	1/3/14	59	4843	1
119.97	1	4	1/4/14	93	4750	1
123.84	1	5	1/5/14	96	4654	1
187.05	1	6	1/6/14	145	4509	1
230.91	1	7	1/7/14	179	4329	1
414.09000000000003	1	8	1/8/14	321	4104	1
136.25	1	9	1/9/14	125	4459	1
95.92	1	10	1/10/14	88	5043	1
204.92000000000002	1	11	1/11/14	188	5239	1

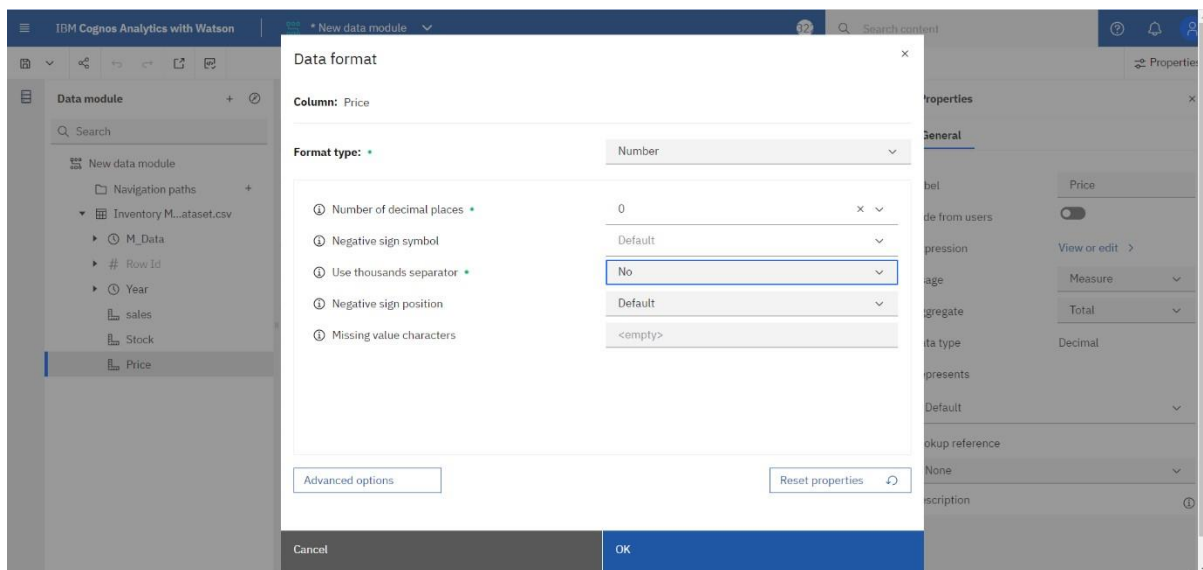
Sales Format Data:



The screenshot shows the IBM Cognos Analytics interface with a data grid. The 'sales' column is highlighted. The grid displays data for 'Revenue', 'M_Data', 'Row Id', 'Year', 'sales', 'Stock', and 'Price'.

Revenue	M_Data	Row Id	Year	sales	Stock	Price
0	1	1	1/1/14	0	4972	1
90.3	1	2	1/2/14	70	4902	1
76.11	1	3	1/3/14	59	4843	1
119.97	1	4	1/4/14	93	4750	1
123.84	1	5	1/5/14	96	4654	1
187.05	1	6	1/6/14	145	4509	1
230.91	1	7	1/7/14	179	4329	1
414.09000000000003	1	8	1/8/14	321	4104	1
136.25	1	9	1/9/14	125	4459	1
95.92	1	10	1/10/14	88	5043	1
204.92000000000002	1	11	1/11/14	188	5239	1
121.00000000000001	1	12	1/12/14	121	5110	1

Price Format Data:



The screenshot shows the 'Grid' view of the data. The 'Price' column is highlighted. The data is as follows:

	M_Data	Row Id	Year	sales	Stock	Price
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
0000000003	1	8	1/8/14	321	4104	1
	1	9	1/9/14	125	4459	1
	1	10	1/10/14	88	5043	1
0000000002	1	11	1/11/14	188	5239	1
0000000001	1	12	1/12/14	434	5110	1

Revenue Format Data:

The screenshot shows the 'Data format' dialog box for the 'Revenue' column. The 'Format type' is set to 'Number'. The 'Number of decimal places' is set to 0. The 'Negative sign symbol' is set to 'Default'. The 'Use thousands separator' is set to 'No'. The 'Negative sign position' is set to 'Default'. The 'Missing value characters' are set to '<empty>'. The 'Advanced options' button is visible at the bottom left, and the 'Reset properties' button is at the bottom right. The 'OK' button is at the bottom right, and the 'Cancel' button is at the bottom left.

IBM Cognos Analytics with Watson | Inventory Module

Search content

Properties

Data module

Search

Inventory Module

Navigation paths

Inventory M...ataset.csv

Revenue

M_Data

Row Id

Year

Sales

Stock

Price

Revenue	M_Data	Row Id	Year	Sales	Stock	Price
0	1	1	1/1/14	0	4972	1
90	1	2	1/2/14	70	4902	1
76	1	3	1/3/14	59	4843	1
120	1	4	1/4/14	93	4750	1
124	1	5	1/5/14	96	4654	1
187	1	6	1/6/14	145	4509	1
231	1	7	1/7/14	179	4329	1
414	1	8	1/8/14	321	4104	1
136	1	9	1/9/14	125	4459	1
96	1	10	1/10/14	88	5043	1
205	1	11	1/11/14	188	5239	1
132	1	12	1/12/14	121	5118	1
146	1	13	1/13/14	134	4984	1
87	1	14	1/14/14	80	4904	1
89	1	15	1/15/14	82	4822	1

Year Properties:

IBM Cognos Analytics with Watson | Inventory Module

Search content

Properties

Data module

Search

Inventory Module

Navigation paths

Inventory M...ataset.csv

Revenue

M_Data

Row Id

Year

Sales

Stock

Price

Revenue	M_Data	Row Id	Year	Sales
0	1	1	1/1/14	0
90	1	2	1/2/14	70
76	1	3	1/3/14	59
120	1	4	1/4/14	93
124	1	5	1/5/14	96
187	1	6	1/6/14	145
231	1	7	1/7/14	179
414	1	8	1/8/14	321
136	1	9	1/9/14	125
96	1	10	1/10/14	88
205	1	11	1/11/14	188

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

Sales Properties:

IBM Cognos Analytics with Watson | Inventory Module

Search content

Properties

Data module

Search

Inventory Module

Navigation paths

Inventory M...ataset.csv

Revenue

M_Data

Row Id

Year

Sales

Stock

Price

M_Data	Row Id	Year	Sales
1	1	1/1/14	0
1	2	1/2/14	70
1	3	1/3/14	59
1	4	1/4/14	93
1	5	1/5/14	96
1	6	1/6/14	145
1	7	1/7/14	179
1	8	1/8/14	321
1	9	1/9/14	125
1	10	1/10/14	88
1	11	1/11/14	188

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 Properties:

IBM Cognos Analytics with Watson | Inventory Module

Search content

Properties

Data module

Inventory Module

- Navigation paths
- Inventory M...ataset.csv
 - Revenue
 - M_Data
 - # Row Id
 - Year
 - sales
 - Stock**
 - Price

Grid

Row Id	Year	sales	Stock
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

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 Properties:

IBM Cognos Analytics with Watson | Inventory Module

Search content

Properties

Data module

Inventory Module

- Navigation paths
- Inventory M...ataset.csv
 - Revenue
 - M_Data
 - # Row Id
 - Year
 - sales
 - Stock
 - Price**

Grid

Year	sales	Stock	Price
1/1/14	0	4972	1
1/2/14	70	4902	1
1/3/14	59	4843	1
1/4/14	93	4750	1
1/5/14	96	4654	1
1/6/14	145	4509	1
1/7/14	179	4329	1
1/8/14	321	4104	1
1/9/14	125	4459	1
1/10/14	88	5043	1
1/11/14	188	5239	1

Properties

General

Label: Price

Hide from users: ☐

Expression: [View or edit](#)

Usage: Measure

Aggregate: Total

Data type: Decimal

Represents:

Default:

Lookup reference: None

Description:

Revenue Properties:

IBM Cognos Analytics with Watson | Inventory Module

Search content

Properties

Data module

Inventory Module

- Navigation paths
- Inventory M...ataset.csv
 - Revenue**
 - M_Data
 - # Row Id
 - Year
 - sales
 - Stock
 - Price

Grid

Revenue	M_Data	Row Id	Year	sales
0	1	1	1/1/14	0
90	1	2	1/2/14	70
76	1	3	1/3/14	59
120	1	4	1/4/14	93
124	1	5	1/5/14	96
187	1	6	1/6/14	145
231	1	7	1/7/14	179
414	1	8	1/8/14	321
136	1	9	1/9/14	125
96	1	10	1/10/14	88
205	1	11	1/11/14	188

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:

M_Data Properties:

The screenshot shows the IBM Cognos Analytics interface. On the left, a 'Data module' sidebar contains a tree view with 'Inventory Module' expanded, showing 'Navigation paths', 'Inventory M...ataset.csv', 'Revenue', and 'M_Data' (highlighted). The main area displays a data grid with columns: Revenue, M_Data, Row Id, Year, and sales. The grid contains 11 rows of data. On the right, a 'Properties' sidebar is open, showing the 'General' tab for the 'M_Data' table. It includes settings for 'Label', 'Hide from users', 'Expression', 'Usage', 'Aggregate', 'Data type', 'Represents', 'Time', 'Month', and 'Description'.

Revenue	M_Data	Row Id	Year	sales
0	1	1	1/1/14	0
90	1	2	1/2/14	70
76	1	3	1/3/14	59
120	1	4	1/4/14	93
124	1	5	1/5/14	96
187	1	6	1/6/14	145
231	1	7	1/7/14	179
414	1	8	1/8/14	321
136	1	9	1/9/14	125
96	1	10	1/10/14	88
205	1	11	1/11/14	188

Prepared Data link:

https://us3.ca.analytics.ibm.com/bi/?perspective=camodeller&pathRef=.my_folders%2FInventory%2BModule