

Project Development Phase

Sprint - 1

Team ID	PNT2022TMID22973
Project Name	Project - Retail Store Stock Inventory Analytics

SPRINT-1

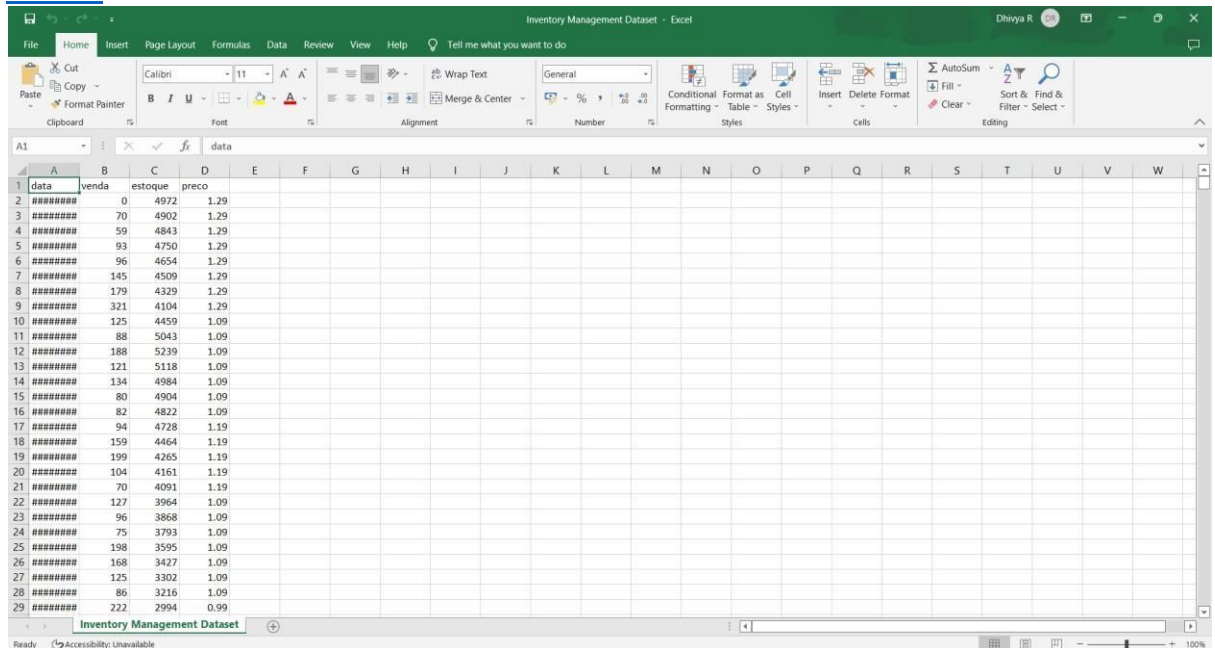
- Data Collection
- Data Preparation

Data Collection:

1. Download the Dataset

Dataset link -

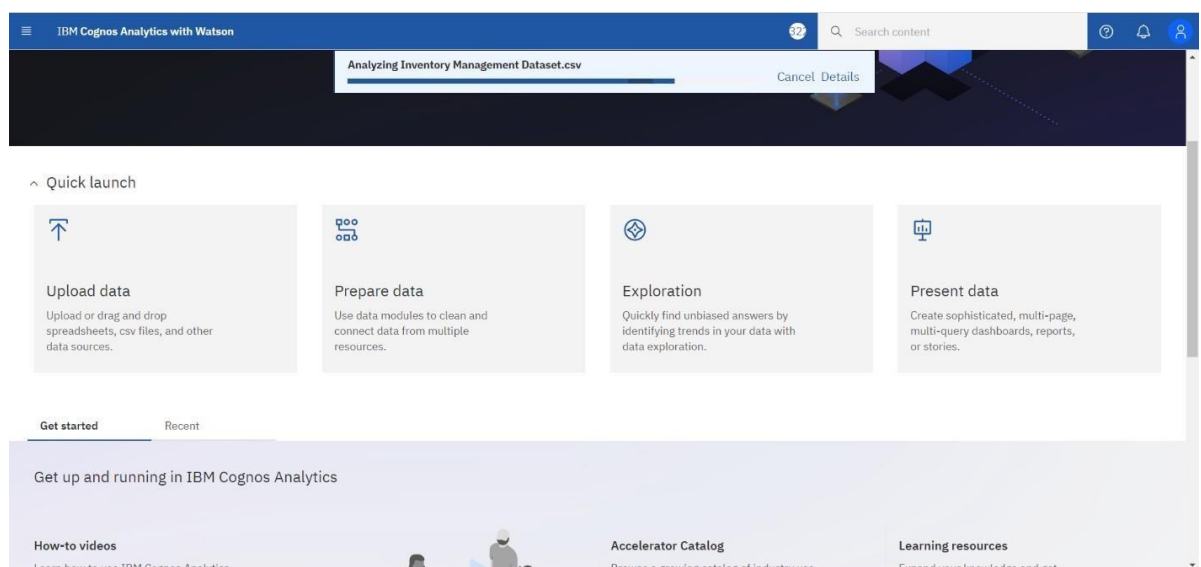
<https://drive.google.com/file/d/1awFIKJ9LiIdnNHwGLcsqNDbbwshFHR-w/view>



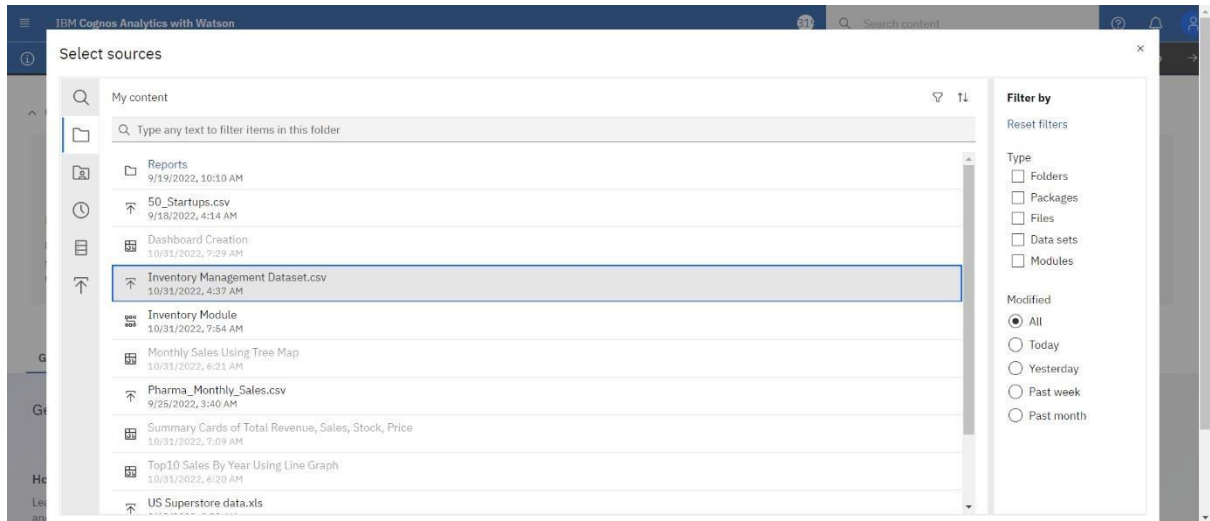
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
data	venda	estoque	preco																			
#####	0	4972	1.29																			
#####	70	4902	1.29																			
#####	59	4843	1.29																			
#####	93	4750	1.29																			
#####	96	4654	1.29																			
#####	145	4509	1.29																			
#####	179	4329	1.29																			
#####	321	4104	1.29																			
#####	125	4459	1.09																			
#####	88	5043	1.09																			
#####	188	5239	1.09																			
#####	121	5118	1.09																			
#####	134	4984	1.09																			
#####	80	4904	1.09																			
#####	82	4822	1.09																			
#####	94	4728	1.19																			
#####	159	4464	1.19																			
#####	199	4265	1.19																			
#####	104	4161	1.19																			
#####	70	4091	1.19																			
#####	127	3964	1.09																			
#####	96	3868	1.09																			
#####	75	3793	1.09																			
#####	198	3595	1.09																			
#####	168	3427	1.09																			
#####	125	3302	1.09																			
#####	86	3216	1.09																			
#####	222	2994	0.99																			

2. Load the Dataset

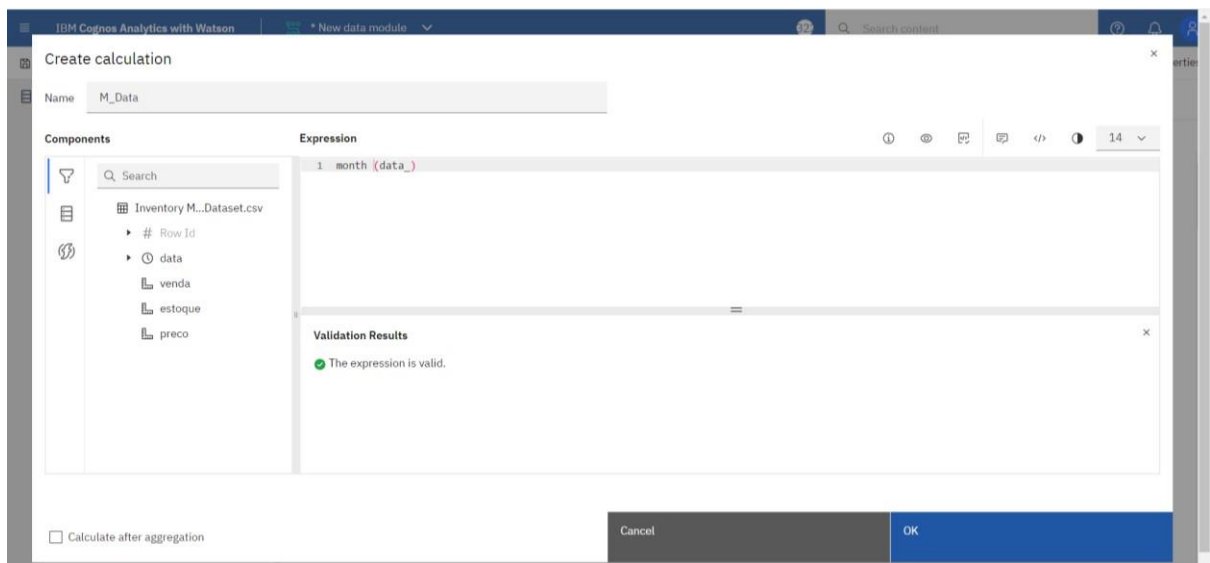
Tool Used: IBM Cognos



Data Preparation:



Month Data(M_Data):



IBM Cognos Analytics with Watson

New data module

Search content

Properties

Data module

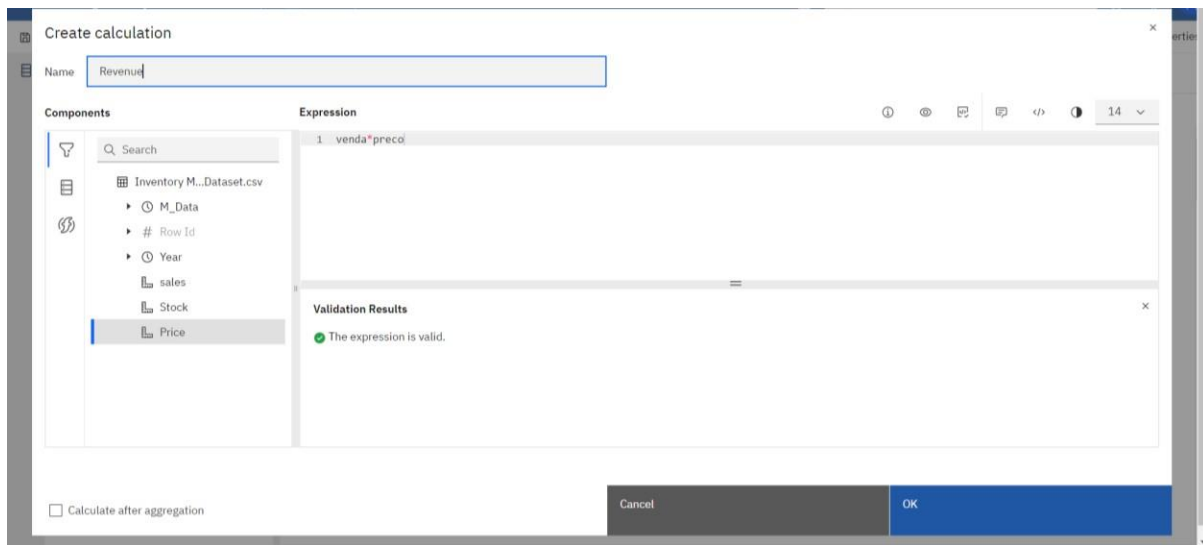
Search

- New data module
- Navigation paths
- Inventory M...ataset.csv
 - # M_Data
 - # Row Id
 - Year
 - Sales
 - Stock
 - Price

Grid

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: Inventory M...dataset.csv

Grid

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: Inventory M...dataset.csv

Grid

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

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Properties

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
1	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

11

Search content

Properties

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Price Data:

IBM Cognos Analytics with Watson

* New data module

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Search content

Properties

Grid

Relationships

Custom tables

Search

New data module

Navigation paths

Inventory M...ataset.csv

- Revenue
- # M_Data
- # Row Id
- Year
 - Sales
 - Stock
 - Price

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M_Data

Row Id

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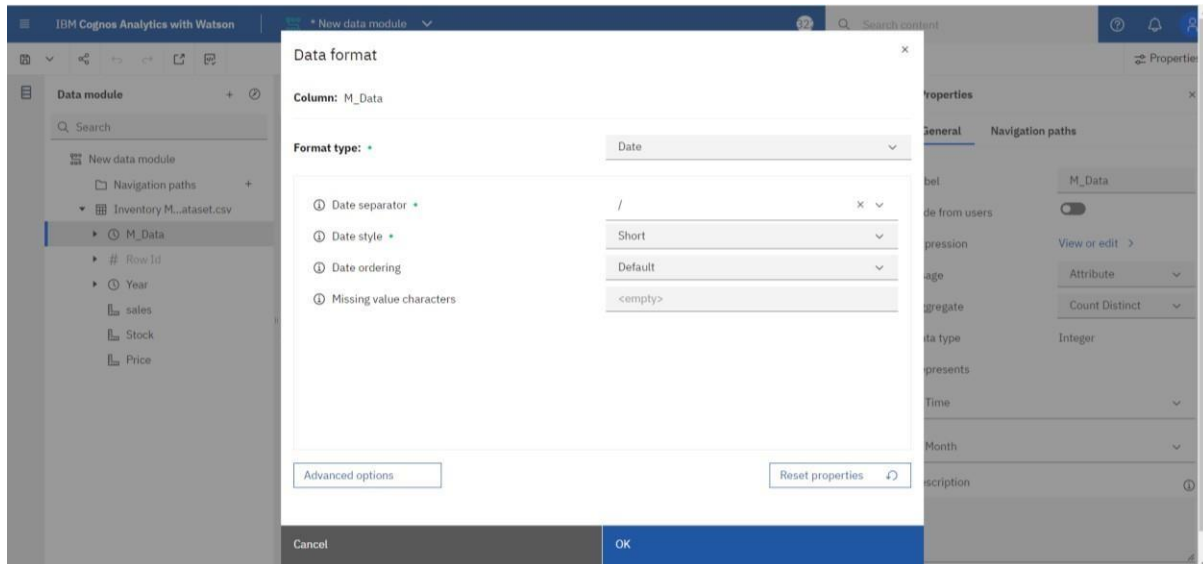
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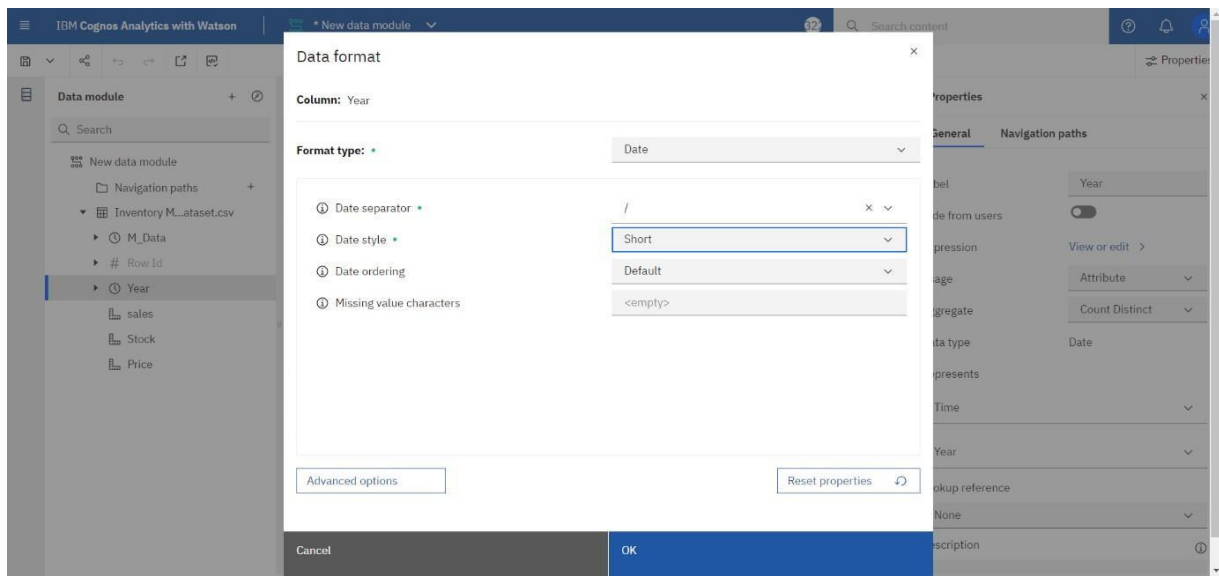
Month Format Data:



The screenshot shows the data grid in IBM Cognos Analytics. The 'M_Data' column is highlighted, showing date values in 'MM/DD/YY' format. 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	151	5110	1

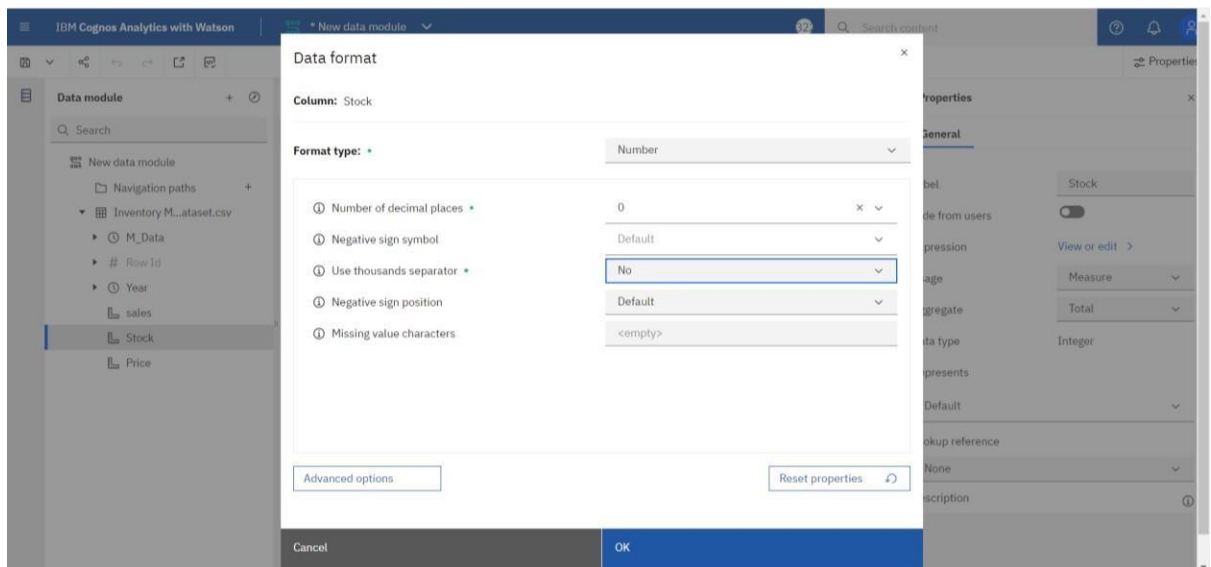
Year Format Data:



The screenshot shows the main interface of IBM Cognos Analytics. The 'Data module' pane on the left shows the 'Year' column selected. The main area displays a data grid with the following columns: Revenue, M_Data, Row Id, Year, sales, Stock, and Price. 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
121.00000000000001	1	12	1/12/14	131	5110	1

Stock Format Data:



IBM Cognos Analytics with Watson | * New data module

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

Tl	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	131	5110	1

Sales Format Data:

IBM Cognos Analytics with Watson | * New data module

Search content

Properties

Data module

Search

- New data module
- Navigation paths
- Inventory M...ataset.csv
 - Revenue
 - M_Data
 - Row Id
 - Year
 - sales
 - Stock
 - Price

Data format

Column: sales

Format type: Number

Number of decimal places: 0

Negative sign symbol: Default

Use thousands separator: No

Negative sign position: Default

Missing value characters: <empty>

Advanced options

Reset properties

Cancel OK

IBM Cognos Analytics with Watson | * New data module

Search content

Properties

Data module

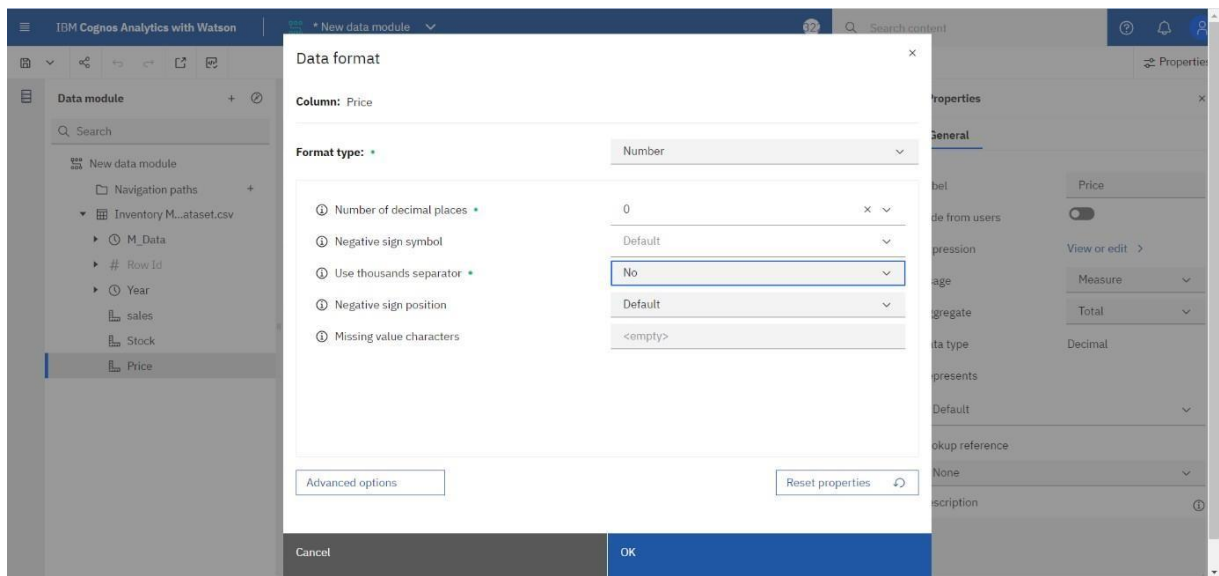
Search

- New data module
- Navigation paths
- Inventory M...ataset.csv
 - Revenue
 - M_Data
 - Row Id
 - Year
 - sales
 - Stock
 - Price

Grid Relationships Custom tables

Tl	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	131	5110	1

Price Format Data:



The screenshot shows the main interface of IBM Cognos Analytics. The 'Data module' is selected, and the 'Grid' view is active. The data is displayed in a table with the following columns: M_Data, Row Id, Year, sales, Stock, and Price. The data is sorted by Row Id in ascending order.

M_Data	Row Id	Year	sales	Stock	Price
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
00000000003	8	1/8/14	321	4104	1
1	9	1/9/14	125	4459	1
1	10	1/10/14	88	5043	1
00000000002	11	1/11/14	188	5239	1
00000000001	12	1/12/14	121	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 0, 'Negative sign symbol' is 'Default', 'Use thousands separator' is 'No', 'Negative sign position' is 'Default', and 'Missing value characters' is '<empty>'. The 'Advanced options' button is visible at the bottom left, and 'Reset properties' is at the bottom right. The 'OK' button is at the bottom right, and 'Cancel' 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

Grid Relationships Custom tables

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

Grid Relationships Custom tables

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

Grid Relationships Custom tables

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

Search

- 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

Search

- 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

Search

- 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:

IBM Cognos Analytics with Watson

Inventory Module

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Search content

Properties

Grid

Relationships

Custom tables

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
122	1	12	1/12/14	121

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

Data module

Inventory Module

Navigation paths

Inventory M...ataset.csv

Revenue

M_Data

Row Id

Year

sales

Stock

Price