

Working with the Dataset

Preparing the Dataset

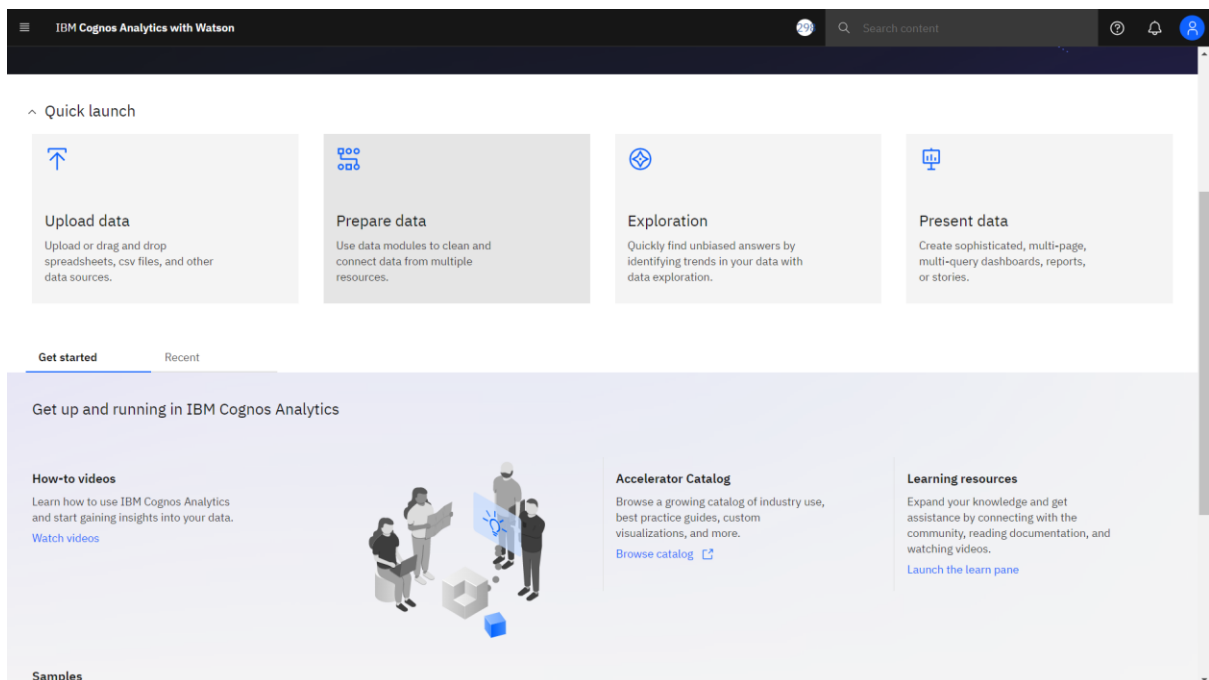
Team ID	PNT2022TMID21488
Project Name	Retail Store Stock Inventory Analytics

Overview:

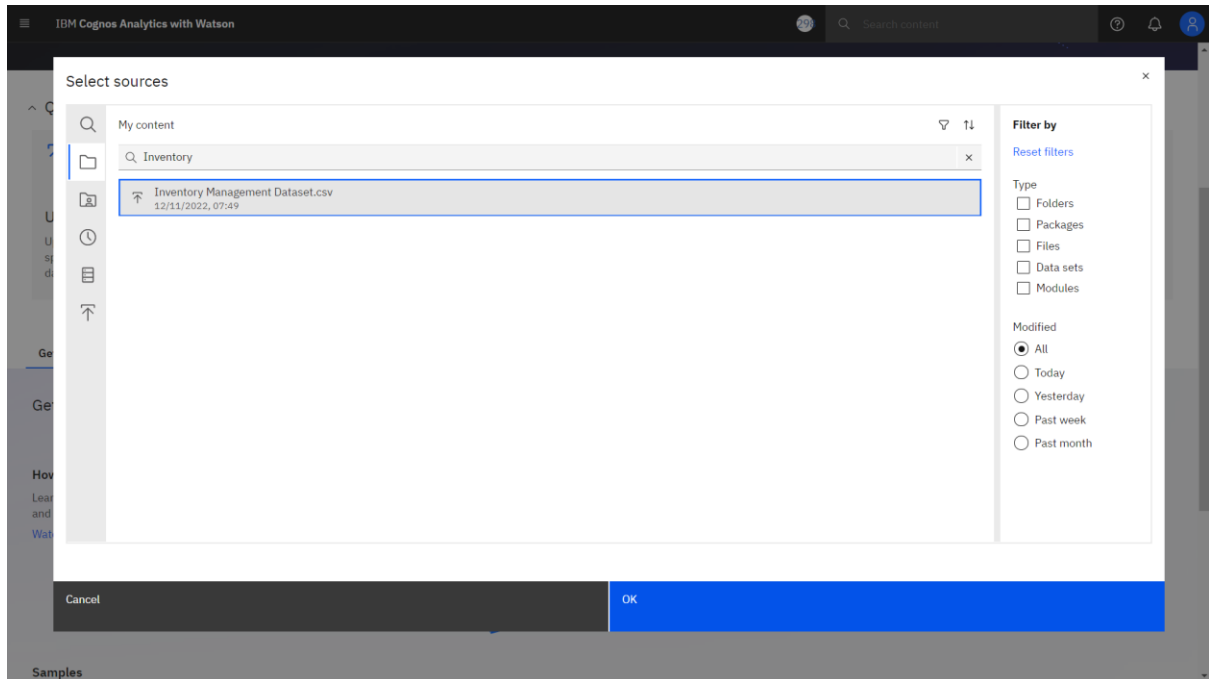
Before the dataset is used for visualization, it must be cleaned, formatted and processed. This step is called preparing the dataset.

Procedure:

1) Click on the **Prepare data** option.



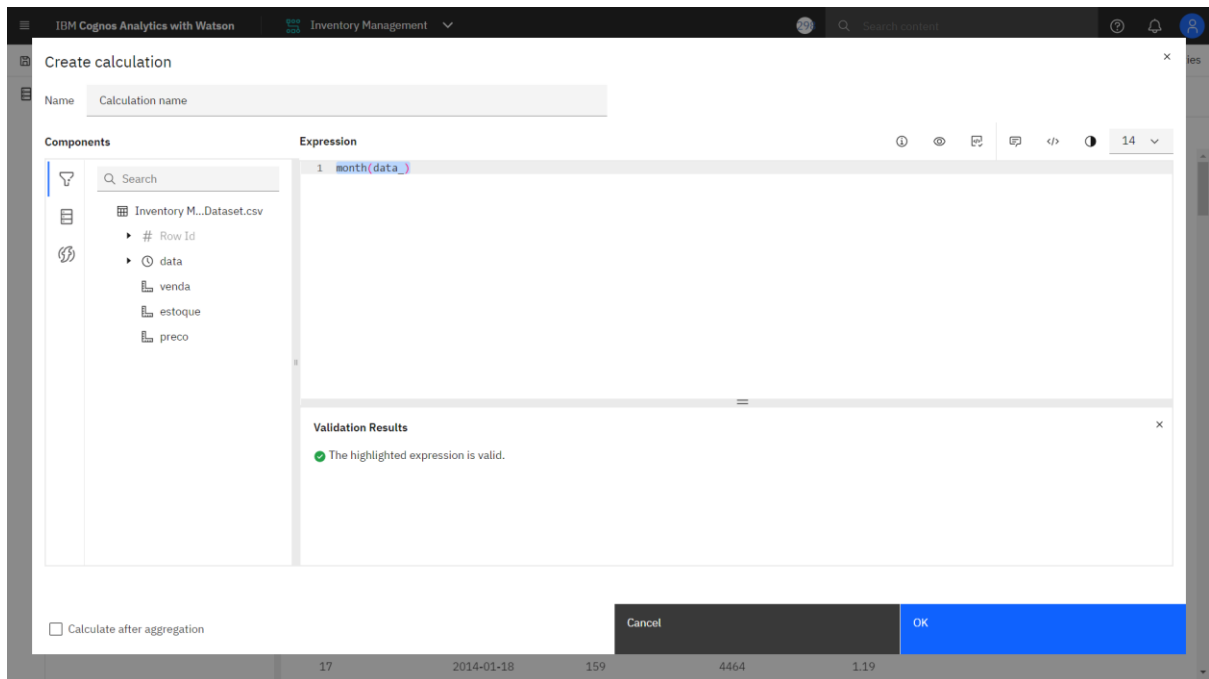
2) Select the Dataset from the Sources.



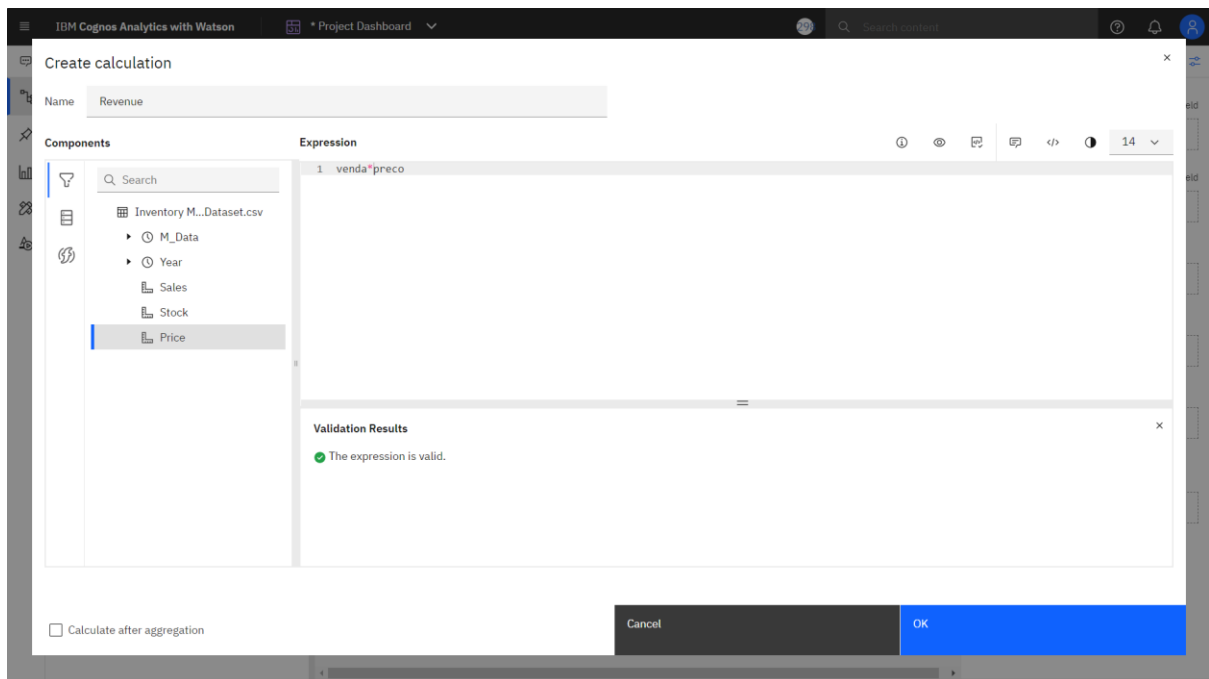
The screenshot shows the IBM Cognos Analytics interface with the 'Inventory Management' dataset loaded. The left sidebar shows the 'Data module' with 'Inventory M...ataset.csv' selected. The main area displays a table with columns: Row Id, data, venda, estoque, and preco. The table contains 17 rows of data.

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
14	2014-01-14	80	4904	1.09
15	2014-01-15	82	4822	1.09
16	2014-01-16	94	4728	1.19
17	2014-01-18	159	4464	1.19

3) Create calculation **M_Data = month(data_)** and validate the expression before creating the calculation.



4) Calculate **Revenue = venda*preco** and validate the expression before clicking on OK.



5) For M_Data and data(date), set Usage to Attribute and Aggregate to Count Distinct.

The screenshot shows the IBM Cognos Analytics interface. In the Data module, the 'M_Data' table is selected. The Properties panel on the right shows the 'General' tab with the following settings:

- Label: M_Data
- Hide from users: ☐
- Expression: [View or edit](#)
- Usage: Attribute
- Aggregate: Count Distinct
- Data type: Integer
- Represents: Time
- Month:
- Description:
- Comments:
- Screen tip:

The screenshot shows the IBM Cognos Analytics interface. In the Data module, the 'data' table is selected. The Properties panel on the right shows the 'General' tab with the following settings:

- Label: data
- Hide from users: ☐
- Expression: [View or edit](#)
- Usage: Attribute
- Aggregate: Count Distinct
- Data type: Date
- Represents: Year
- Lookup reference: None
- Description:
- Comments:
- Screen tip:

6) For venda, estoque and preco, set Usage to Measure and Aggregate to Total.

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists 'Inventory Management' with sub-items 'Navigation paths', 'Inventory M...ataset.csv', 'M_Data', 'Row Id', 'data', 'venda', 'estoque', and 'preco'. The 'venda' item is selected. The main 'Grid' view displays a table with columns 'M_Data', 'Row Id', 'data', 'venda', and 'estoque'. The 'venda' column is highlighted. The 'Properties' panel on the right shows the 'General' tab for the 'venda' column. The 'Label' is 'venda', 'Hide from users' is disabled, 'Expression' is 'View or edit >', 'Usage' is 'Measure', 'Aggregate' is 'Total', and 'Data type' is 'Integer'.

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
1	14	2014-01-14	80	4904
1	15	2014-01-15	82	4822
1	16	2014-01-16	94	4728

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists 'Inventory Management' with sub-items 'Navigation paths', 'Inventory M...ataset.csv', 'M_Data', 'Row Id', 'data', 'venda', 'estoque', and 'preco'. The 'estoque' item is selected. The main 'Grid' view displays a table with columns 'Row Id', 'data', 'venda', and 'estoque'. The 'estoque' column is highlighted. The 'Properties' panel on the right shows the 'General' tab for the 'estoque' column. The 'Label' is 'estoque', 'Hide from users' is disabled, 'Expression' is 'View or edit >', 'Usage' is 'Measure', 'Aggregate' is 'Total', and 'Data type' is 'Integer'.

Row Id	data	venda	estoque
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
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14	2014-01-14	80	4904
15	2014-01-15	82	4822
16	2014-01-16	94	4728

IBM Cognos Analytics with Watson **Inventory Management** Search content

Data module

- Inventory Management
 - Navigation paths
 - Inventory M...ataset.csv
 - M_Data
 - Row Id
 - data
 - venda
 - estoque
 - preco

Grid

	data	venda	estoque	preco
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	
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2014-01-12	121	5118	1.09	
2014-01-13	134	4984	1.09	
2014-01-14	80	4904	1.09	
2014-01-15	82	4822	1.09	
2014-01-16	94	4728	1.19	
2014-01-18	150	5164	1.10	

Properties

General

- Label: preco
- Hide from users: ☐
- Expression: [View or edit](#)
- Usage: Measure
- Aggregate: Total
- Data type: Decimal
- Represents: Default
- Lookup reference: None
- Description:
- Comments:

7) Rename and format all the attributes. Rename data to Year, venda to Sales, estoque to Stock and preco to Price.

IBM Cognos Analytics with Watson **Inventory Management** Search content

Data module

- Inventory Management
 - Navigation paths
 - Inventory M...ataset.csv
 - M_Data
 - Row Id
 - Year
 - Sales
 - Stock
 - Price

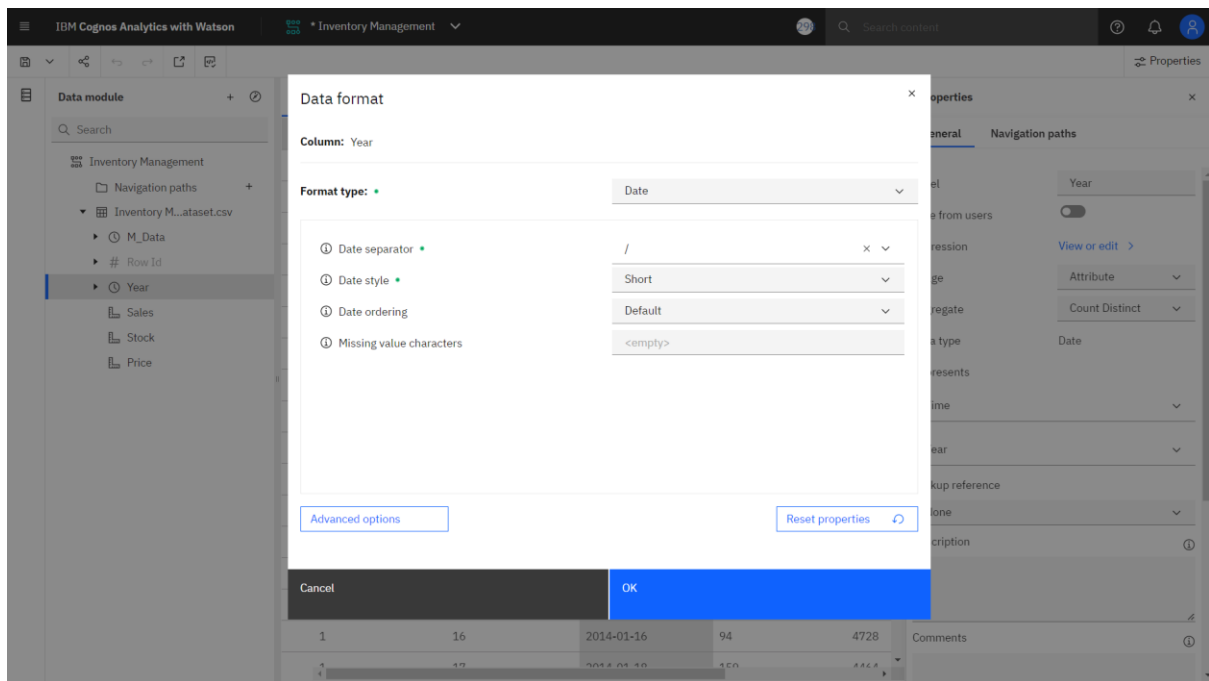
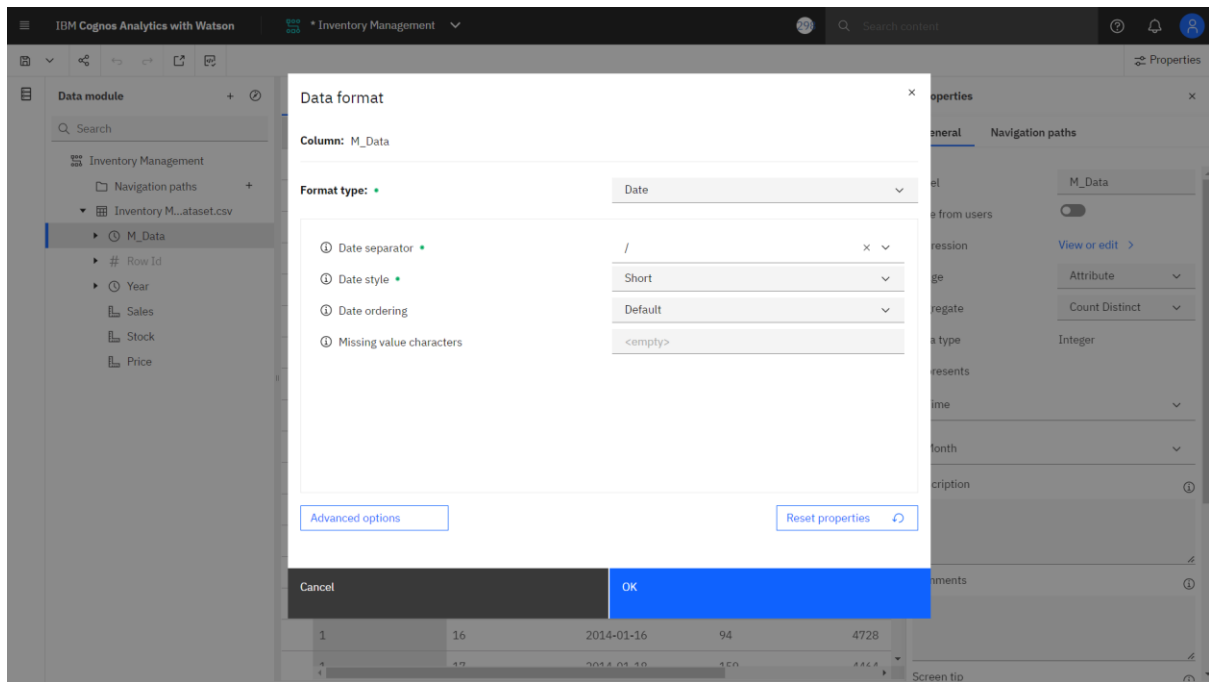
Grid

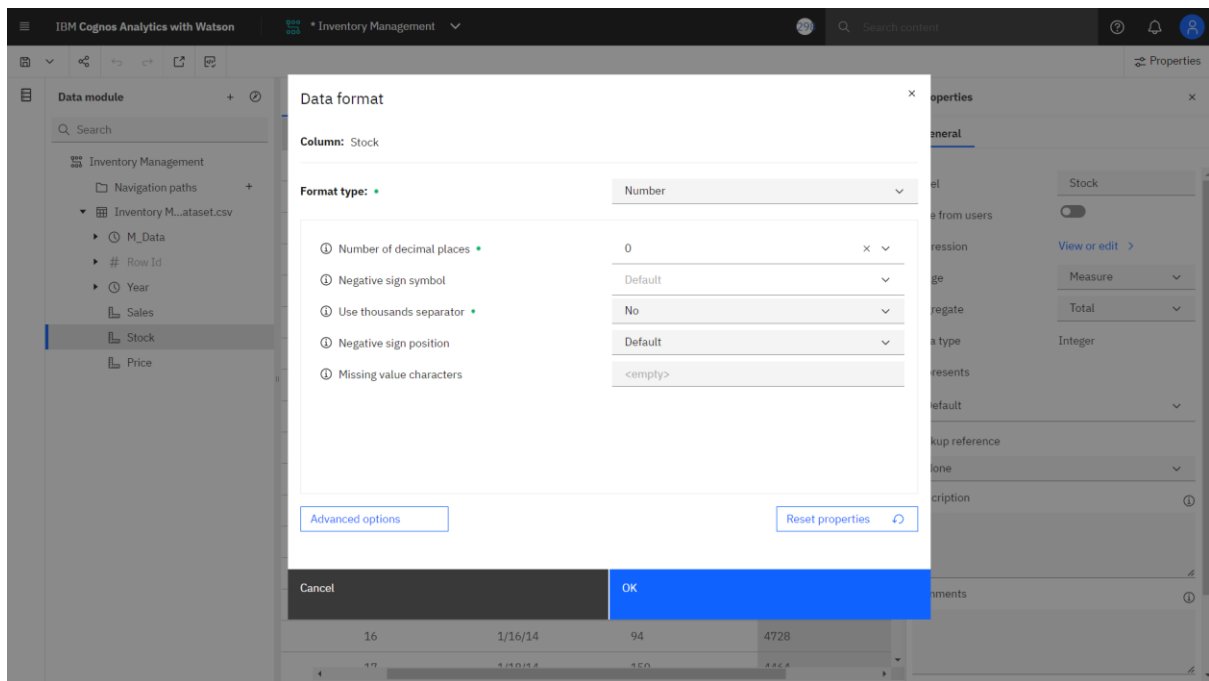
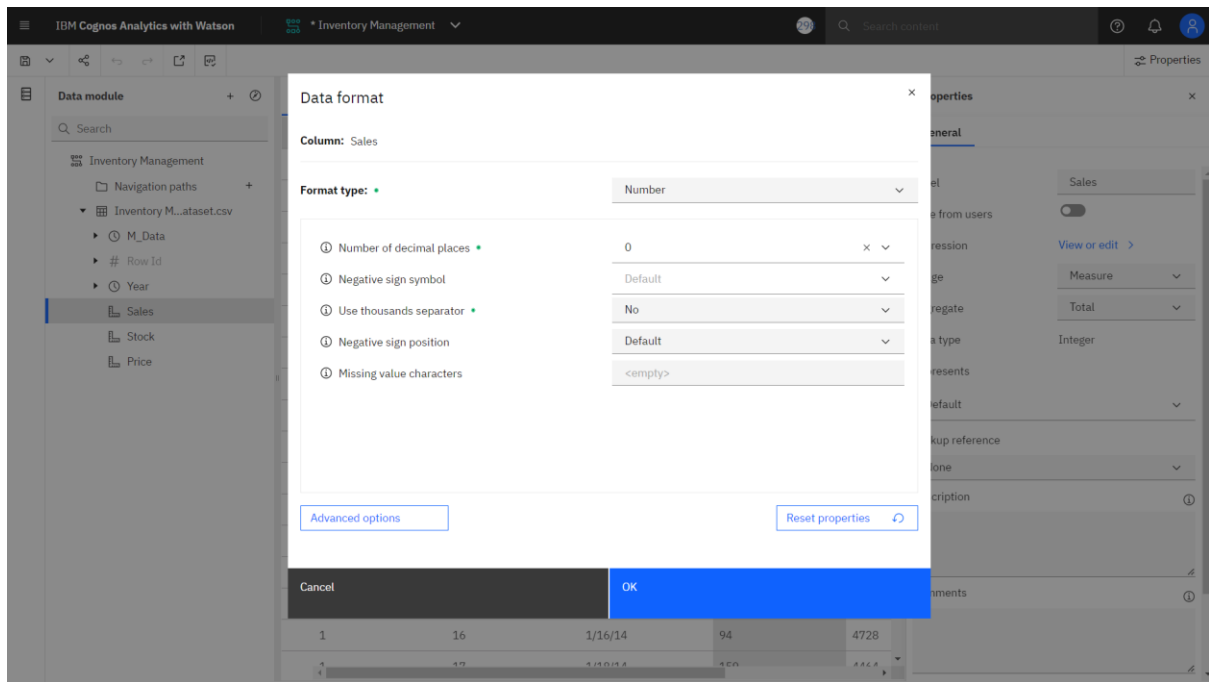
	Year	Sales	Stock	Price
2014-01-01	0	4972	1.29	
2014-01-02	70	4902	1.29	
2014-01-03	59	4843	1.29	
2014-01-04	93	4750	1.29	
2014-01-05	96	4654	1.29	
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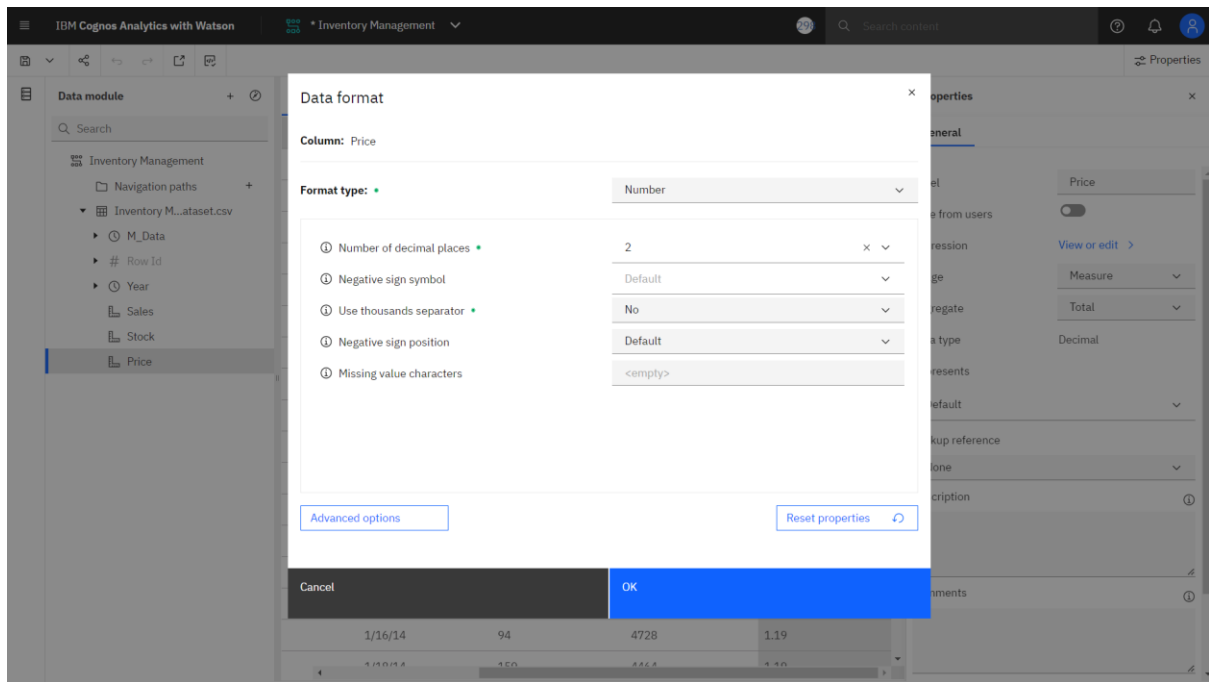
Properties

General

- Label: Year
- Hide from users: ☐
- Expression: [View or edit](#)
- Usage: Attribute
- Aggregate: Count Distinct
- Data type: Date
- Represents: Time
- Year: Year
- Lookup reference: None
- Description:
- Comments:







8) Save it as a Data Module so it can be imported for Visualization.

