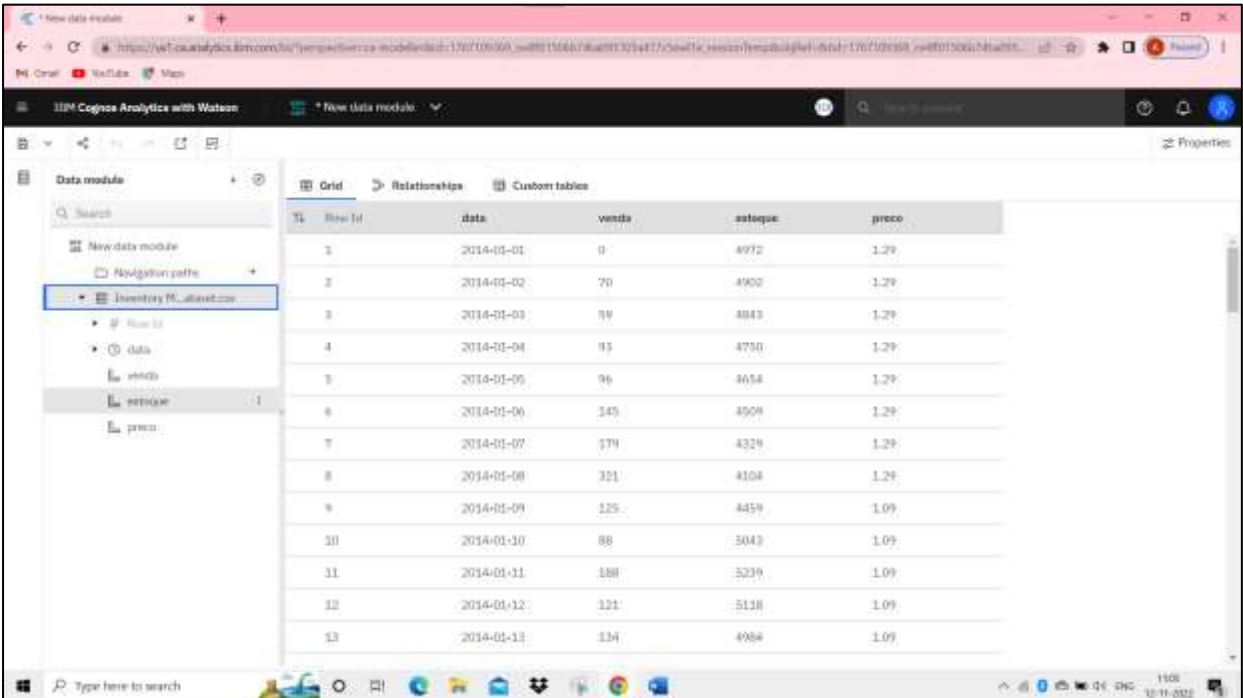


WORKING WITH THE DATASET

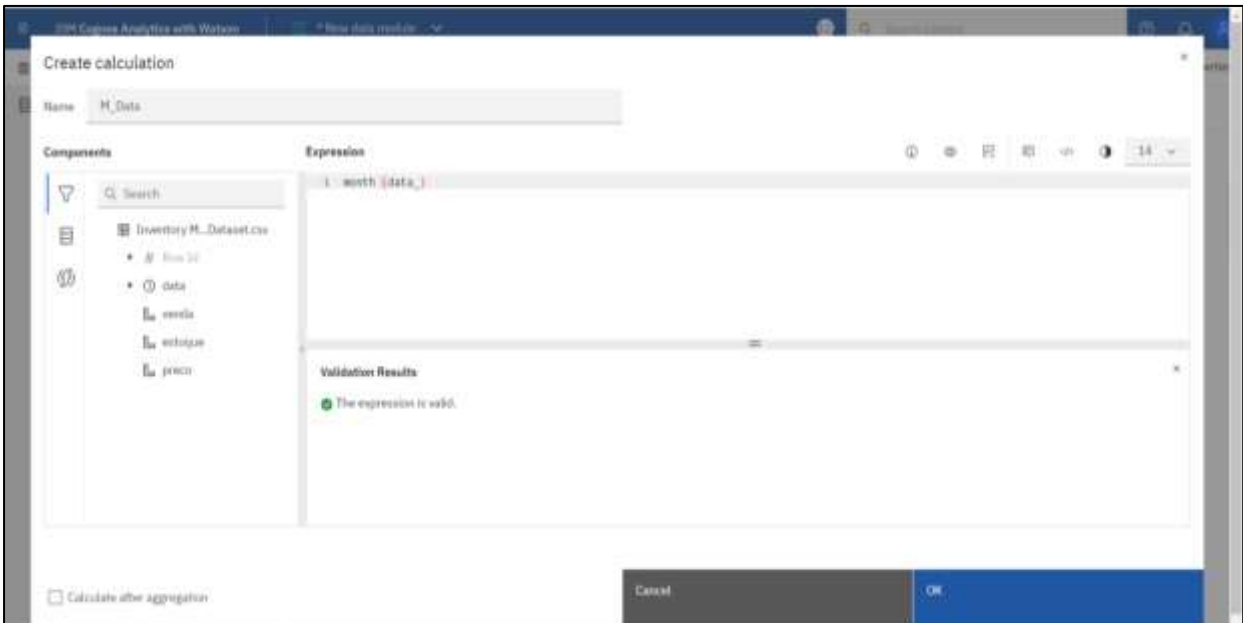
PREPARING THE DATSET

Team ID	PNT2022TMID50994
Project Name	Retail Store Stock Inventory Analytics

Before Preprocessing:



Row Id	data	vente	stock	price
1	2014-01-01	0	4972	1.29
2	2014-01-02	70	4902	1.29
3	2014-01-03	89	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	379	4329	1.29
8	2014-01-08	321	4104	1.29
9	2014-01-09	325	4459	1.09
10	2014-01-10	88	5043	1.09
11	2014-01-11	188	5239	1.09
12	2014-01-12	321	5138	1.09
13	2014-01-13	134	4984	1.09



Create calculation

Name: M_Data

Components:

- Inventory M_Dataset.csv
 - Row Id
 - data
 - vente
 - stock
 - price

Expression:

1 - month([data])

Validation Results:

The expression is valid.

Calculate after aggregation

Cancel OK

SETTING THE PROPERTIES

M_Data:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane displays a tree view with 'New data module', 'Navigation paths', and 'Inventory_dataset.csv'. Under 'Inventory_dataset.csv', 'M_Data' is selected. The main grid shows a table with columns: 'M_Data', 'Row Id', 'data', 'venda', and 'estoque'. The 'M_Data' column is highlighted. On the right, the 'Properties' pane is open, showing the 'General' tab for 'M_Data'. The properties include: Label (M_Data), Hide from users (checked), Expression (View or edit), Usage (Attribute), Aggregate (Count Distinct), Data type (Integer), Represents (Time), and Description.

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

Data:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane displays a tree view with 'New data module', 'Navigation paths', and 'Inventory_dataset.csv'. Under 'Inventory_dataset.csv', 'M_Data' is selected, and then 'data' is selected. The main grid shows the same table as before, but the 'data' column is highlighted. On the right, the 'Properties' pane is open, showing the 'General' tab for 'data'. The properties include: Label (data), Hide from users (checked), Expression (View or edit), Usage (Attribute), Aggregate (Count Distinct), Data type (Date), Represents (Time), Year, Lookup reference (None), and Description.

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

After renaming the label name of data as Year,

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane shows a tree structure with 'Year' selected. The main grid displays a table with columns: Row ID, Year, sales, Stock, and Price. The 'Year' column is highlighted. The 'Properties' pane on the right shows the 'General' tab for the 'Year' field, with 'Label' set to 'Year' and 'Usage' set to 'Attribute'.

Row ID	Year	sales	Stock	Price
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

Setting the properties of venda and renaming the label name of venda to sales,

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane shows a tree structure with 'venda' selected. The main grid displays a table with columns: Row ID, data, venda, and estoque. The 'venda' column is highlighted. The 'Properties' pane on the right shows the 'General' tab for the 'venda' field, with 'Label' set to 'venda' and 'Usage' set to 'Measure'.

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
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

Setting the properties of Estoque and renaming the label name Estoqueto to Stock,

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane shows a tree structure with 'Inventory_M_data.csv' expanded, and 'Stock' selected. The central 'Grid' pane displays a table with columns: Row Id, data, sales, and Stock. The 'Stock' column is highlighted. The right-hand 'Properties' pane shows the 'General' tab for the 'Stock' column. The 'Label' is set to 'Stock', 'Hide from users' is disabled, 'Expression' is 'View or edit', 'Usage' is 'Measure', 'Aggregate' is 'Total', 'Data type' is 'Integer', 'Represents' is 'Default', 'Lookup reference' is 'None', and 'Description' is empty.

Row Id	data	sales	Stock
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	4059
10	2014-01-10	88	3043
11	2014-01-11	188	5239
12	2014-01-12	121	5118
13	2014-01-13	134	4984

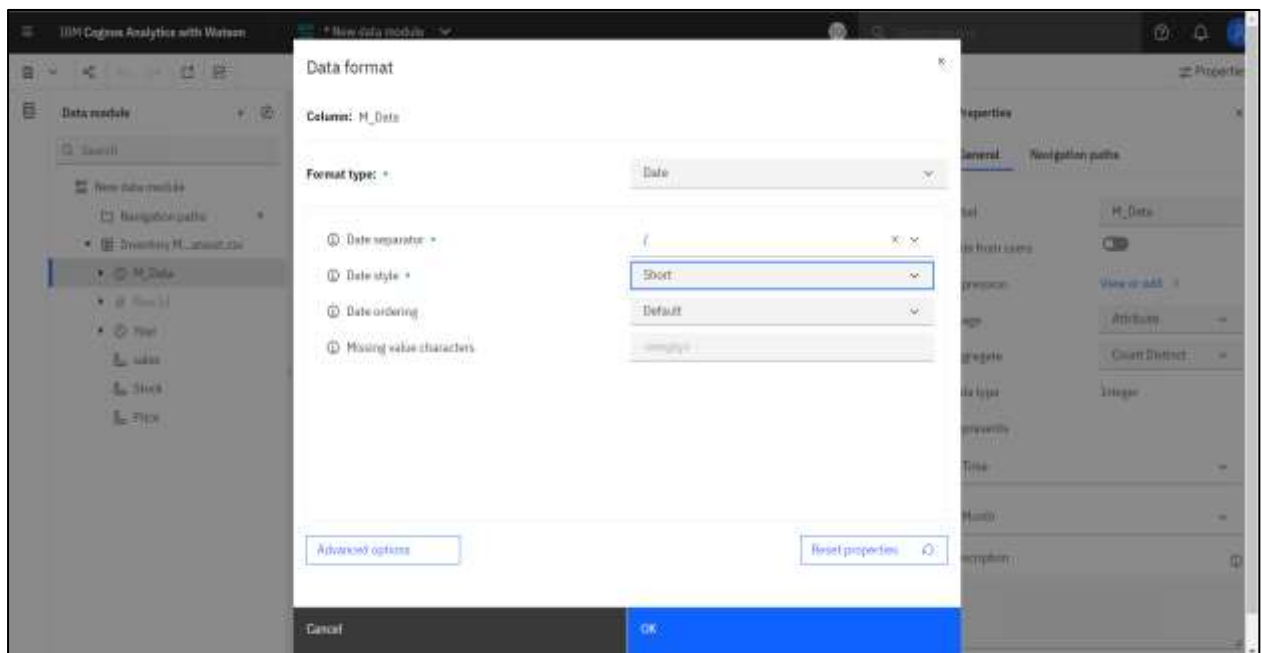
Setting the properties of preco and renaming the label name of preco to Price,

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane shows a tree structure with 'Inventory_M_data.csv' expanded, and 'Price' selected. The central 'Grid' pane displays a table with columns: data, sales, Stock, and Price. The 'Price' column is highlighted. The right-hand 'Properties' pane shows the 'General' tab for the 'Price' column. The 'Label' is set to 'Price', 'Hide from users' is disabled, 'Expression' is 'View or edit', 'Usage' is 'Measure', 'Aggregate' is 'Total', 'Data type' is 'Decimal', 'Represents' is 'Default', 'Lookup reference' is 'None', and 'Description' is empty.

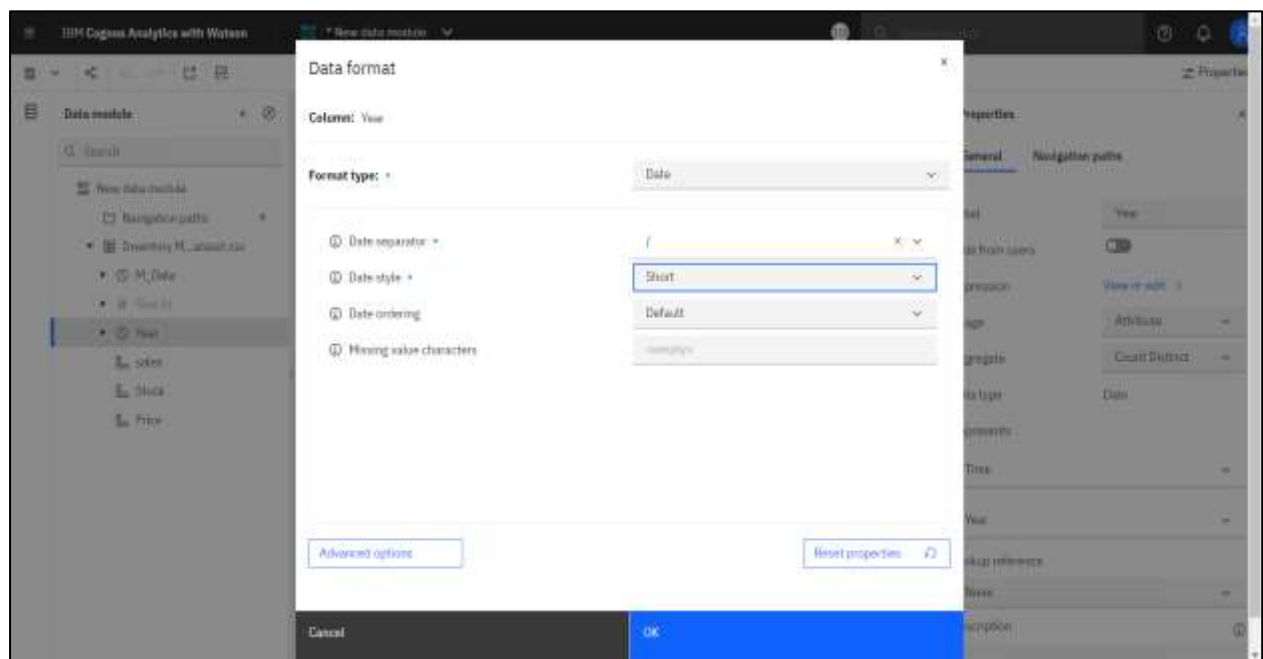
data	sales	Stock	Price
2014-01-01	0	4972	1.29
2014-01-02	70	4902	1.29
2014-01-03	59	4843	1.29
2014-01-04	93	4750	1.29
2014-01-05	96	4654	1.29
2014-01-06	145	4509	1.29
2014-01-07	179	4329	1.29
2014-01-08	321	4104	1.29
2014-01-09	125	4059	1.09
2014-01-10	88	3043	1.09
2014-01-11	188	5239	1.09
2014-01-12	121	5118	1.09
2014-01-13	134	4984	1.09

DATA FORMAT

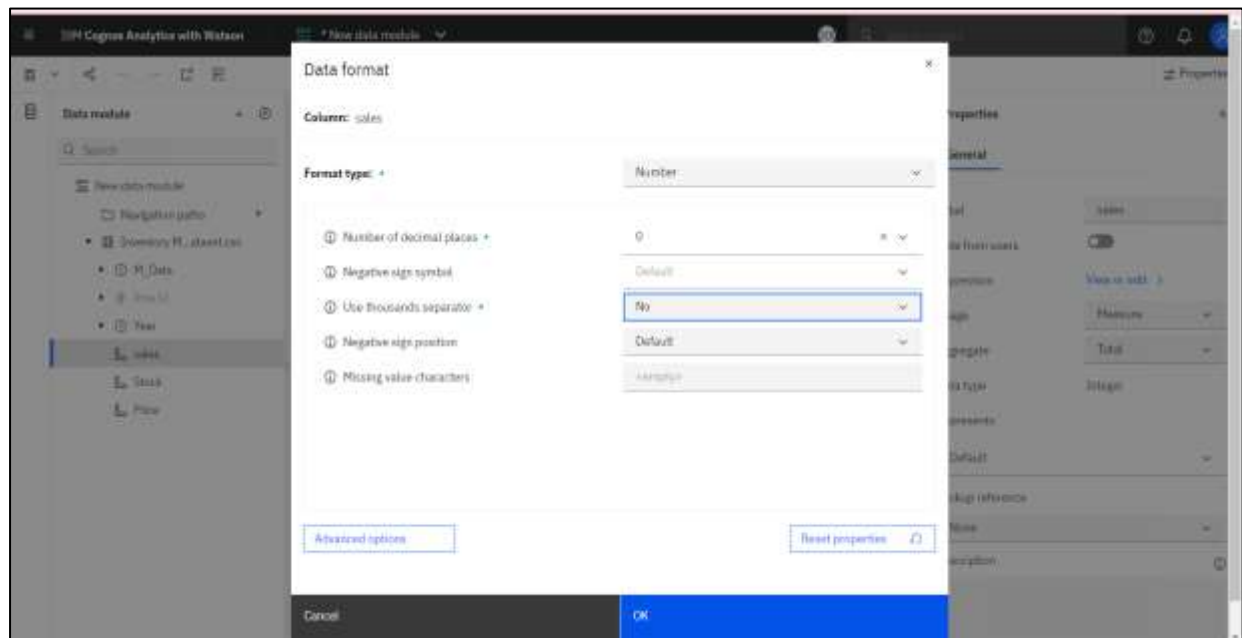
M_Data:



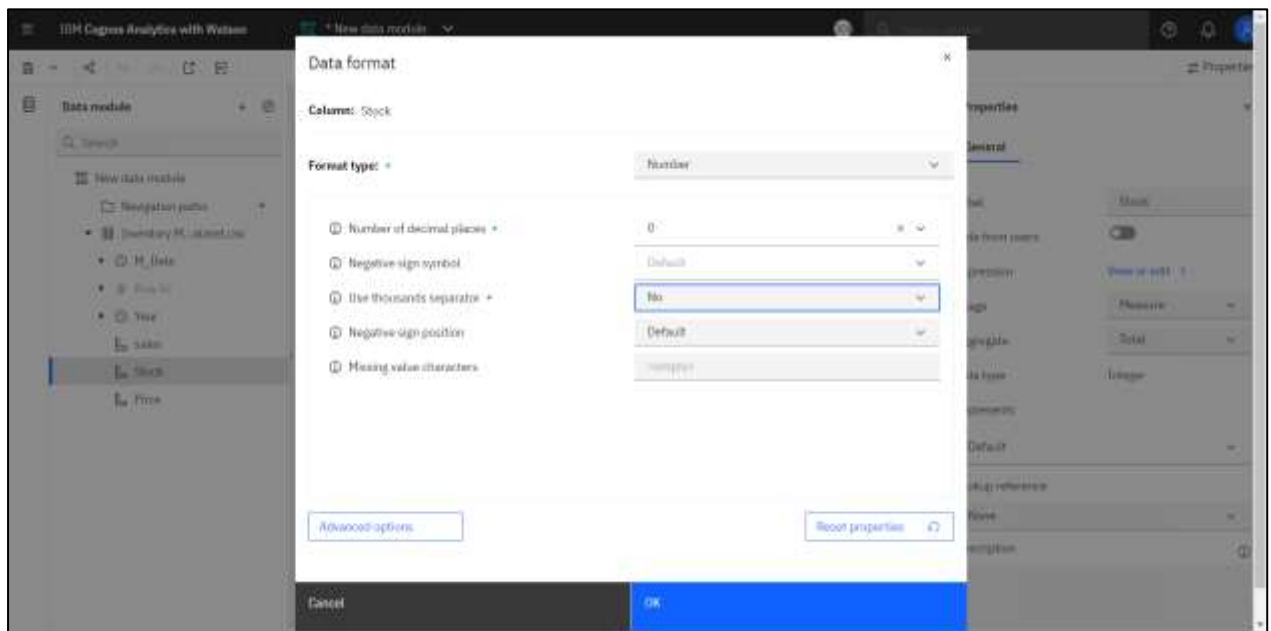
Year:



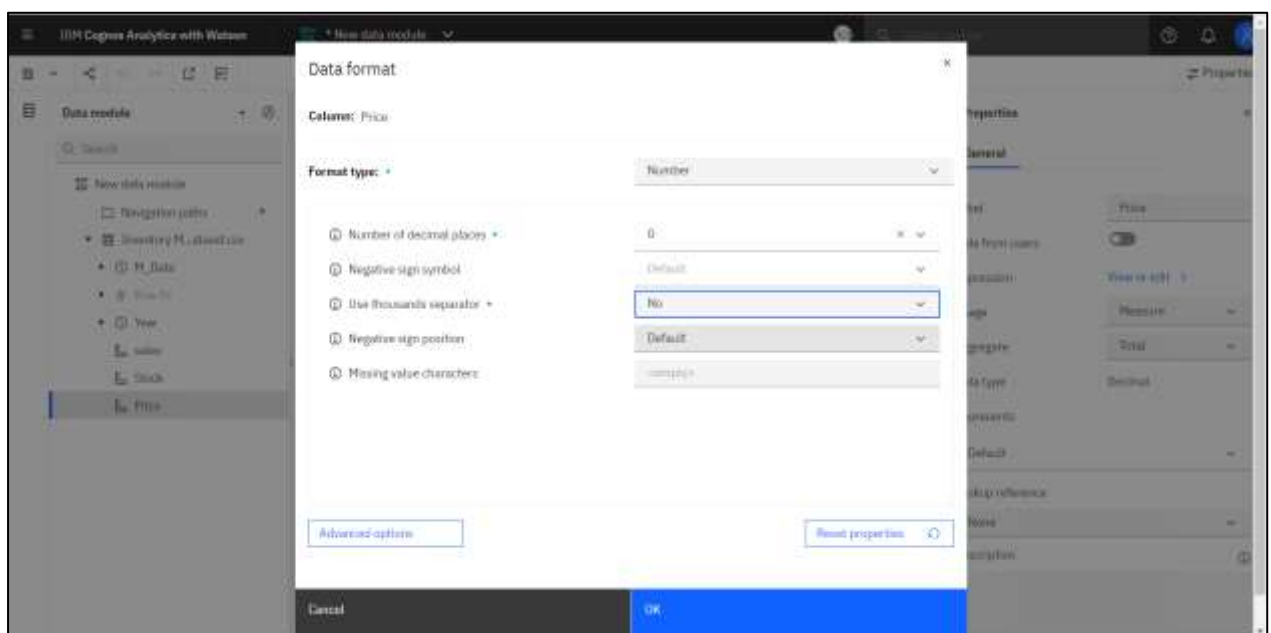
Sales:



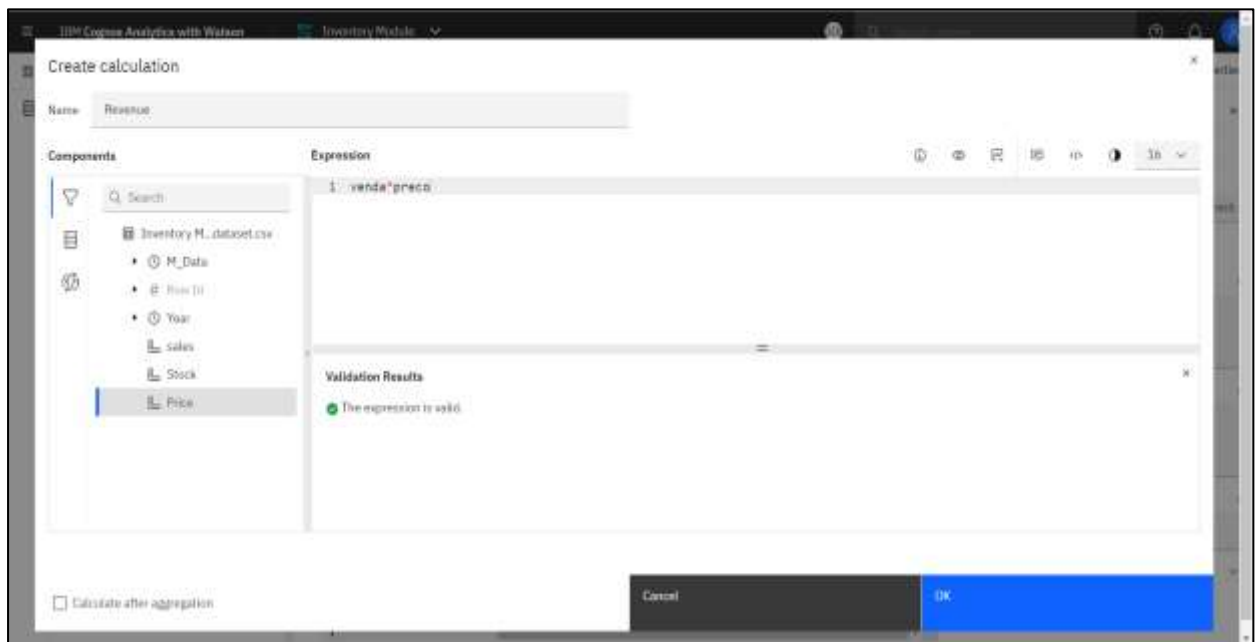
Stock:



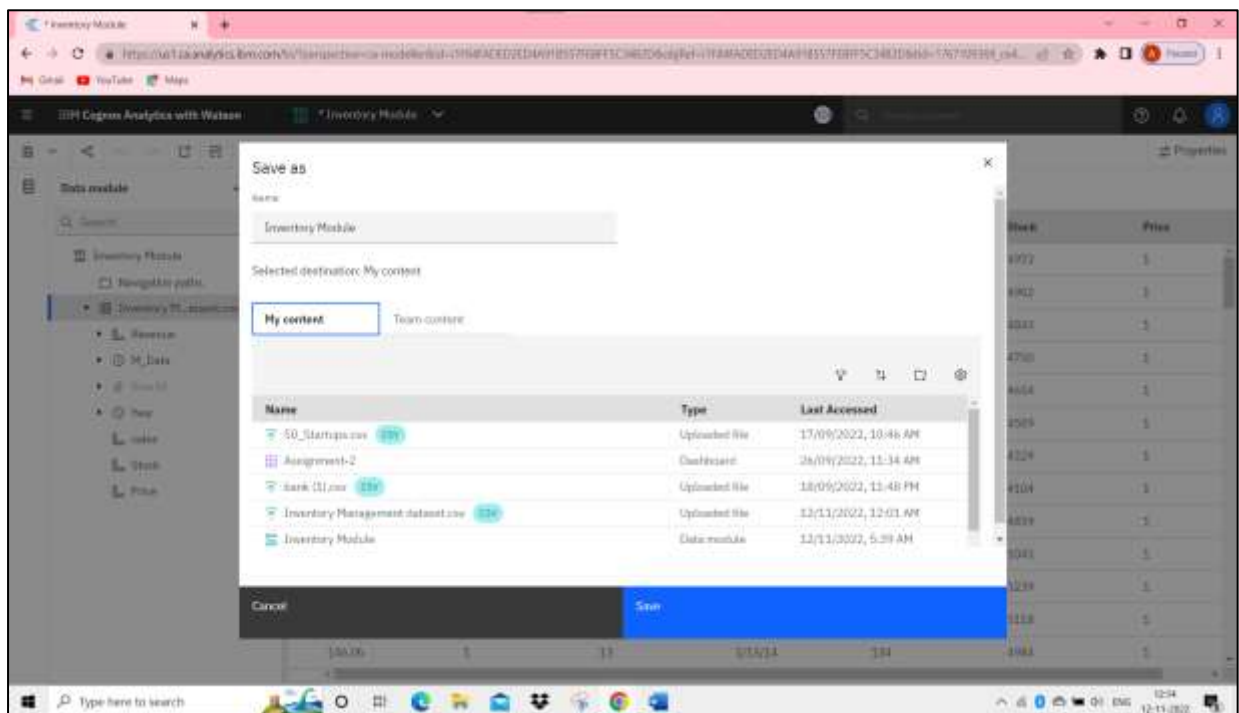
Price



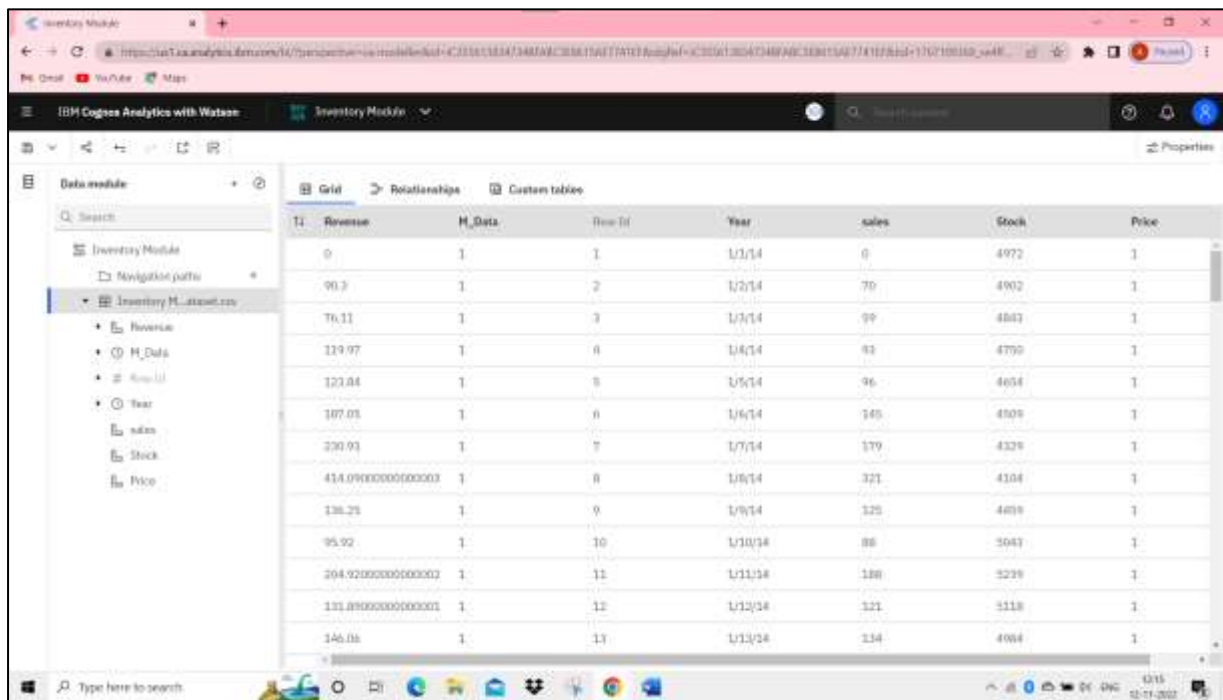
Adding the Revenue column,



Saving the preprocessed data as Inventory Module:



After Preprocessing:



The screenshot displays the IBM Cognos Analytics with Watson interface. The left sidebar shows a 'Data module' tree with 'Inventory Module' expanded, containing 'Navigate(puff)' and 'Inventory M_data.csv'. The main area shows a table with columns: TI, Revenue, H_Data, Item Id, Year, sales, Stock, and Price. The table contains 13 rows of data.

TI	Revenue	H_Data	Item 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	99	4843	1
119.97		1	6	1/4/14	81	4790	1
123.84		1	8	1/5/14	96	4654	1
107.01		1	6	1/6/14	145	4509	1
230.93		1	7	1/7/14	179	4329	1
414.09000000000003		1	8	1/8/14	321	4104	1
138.25		1	9	1/9/14	125	4019	1
95.92		1	10	1/10/14	88	3943	1
204.92000000000002		1	11	1/11/14	188	3239	1
131.89000000000001		1	12	1/12/14	121	3118	1
146.06		1	13	1/13/14	154	4084	1

Link:

https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my_folders%2FInventory%2BModule