

Project Development Phase

Delivery of Sprint 2

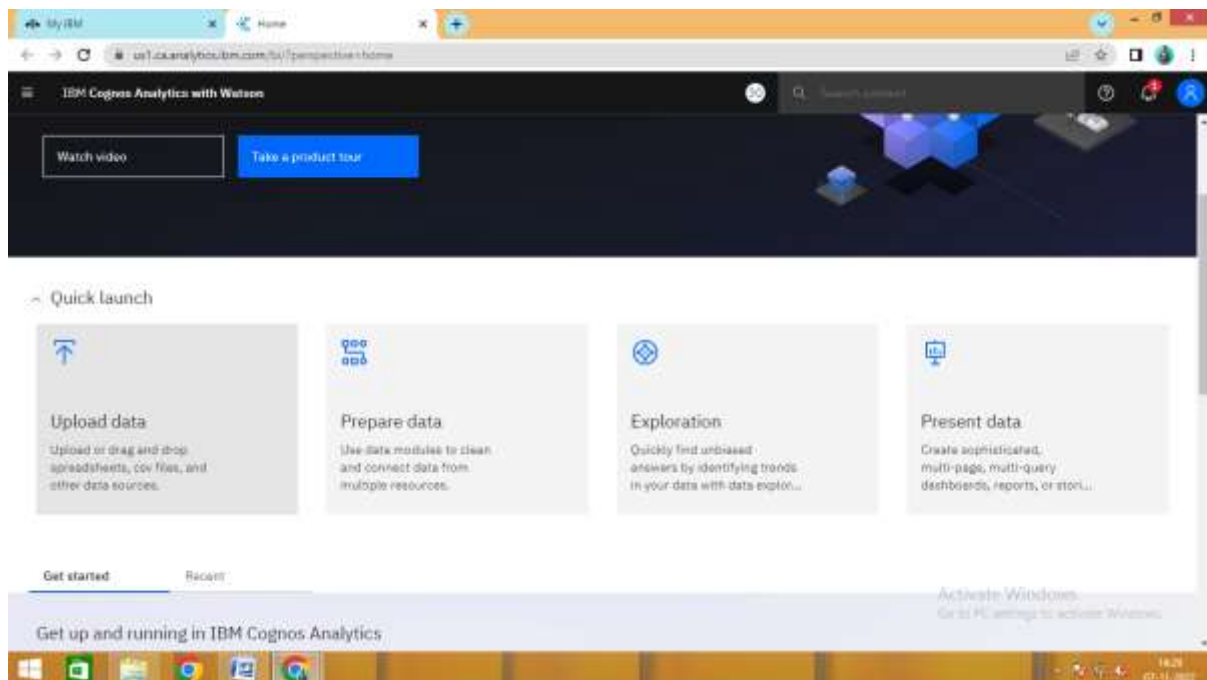
Team ID	PNT2022TMID22070
Project Title	Retail Store Stock Inventory Analytics

Sprint 2

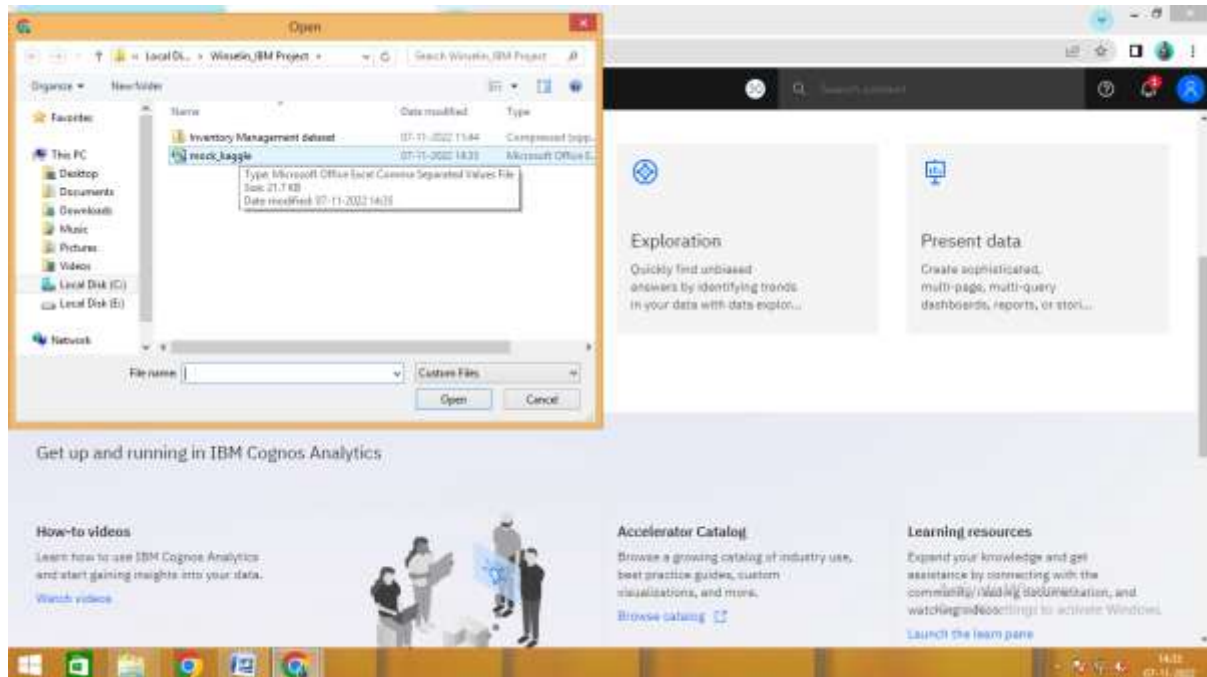
- **Working With Dataset**

1. Upload Dataset
2. Understand Dataset
3. Prepare Dataset

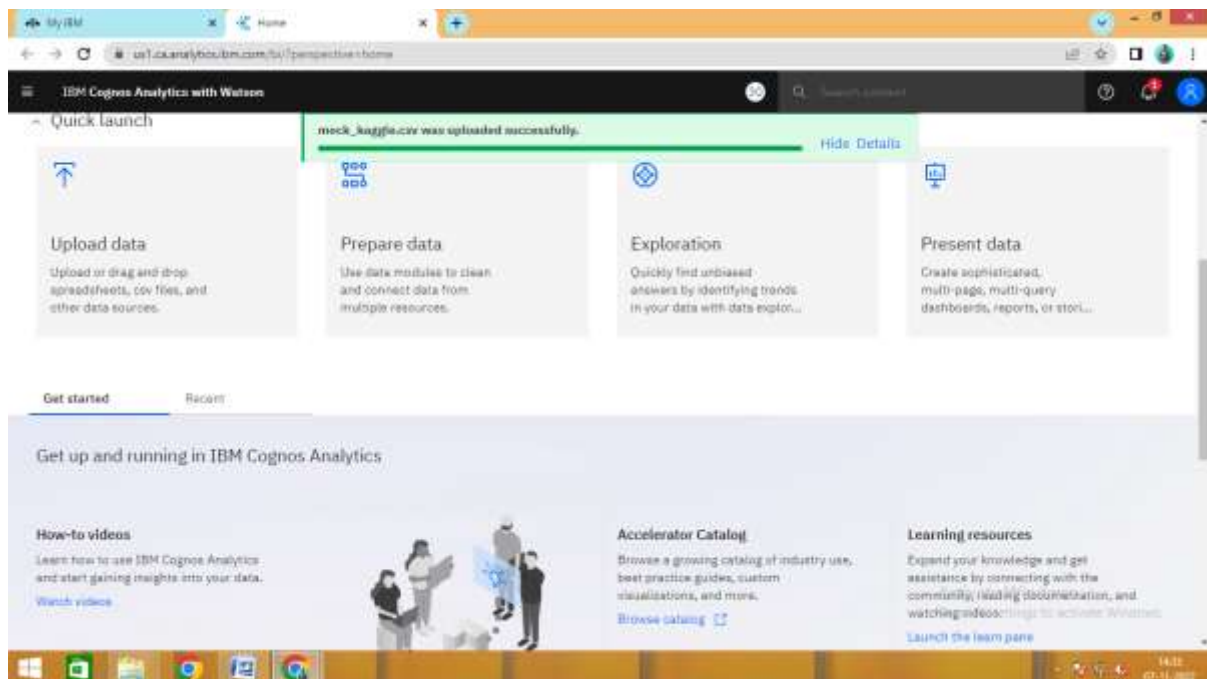
- **Upload Dataset**



❖ Select Dataset :



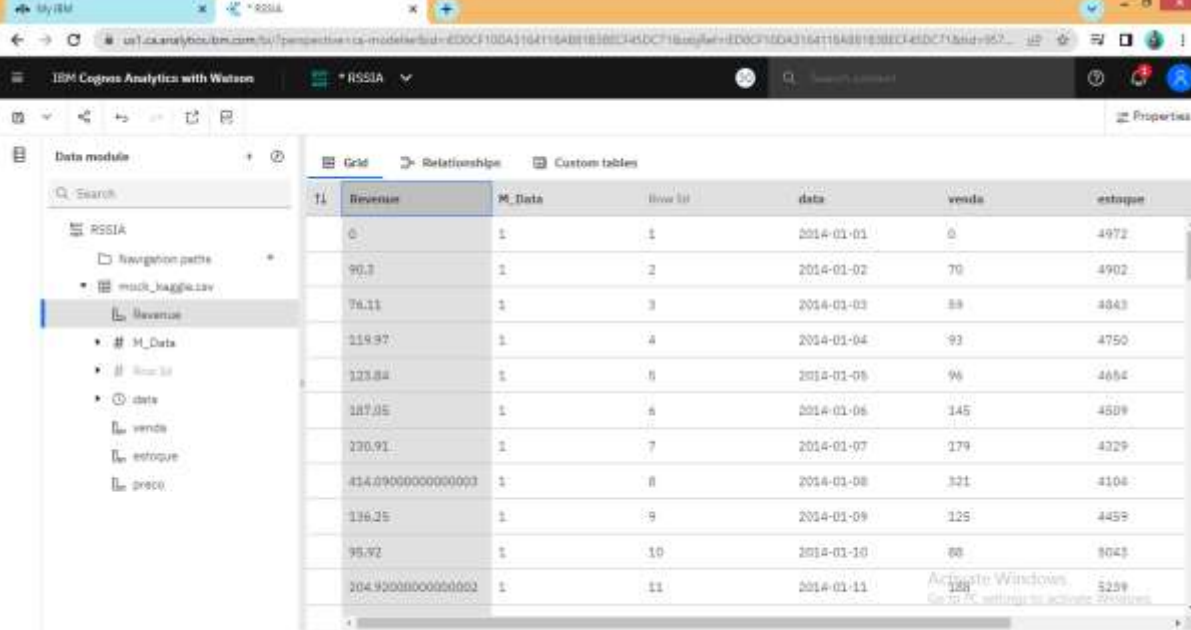
❖ Dataset Uploaded Successfully:



- Understanding the Data

REVENUE COLUMN:

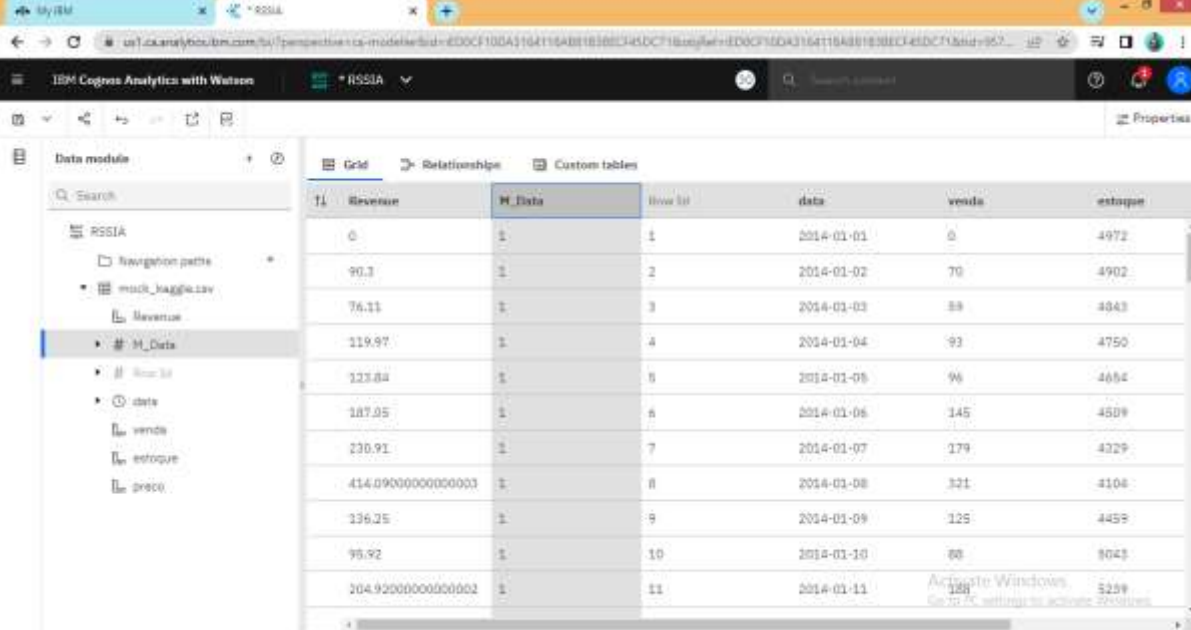
Calculated as, $\text{price} * \text{sales}$



TI	Revenue	M_Data	Row ID	data	venda	estoque
0	0	1	1	2014-01-01	0	4972
90.3	90.3	1	2	2014-01-02	70	4902
74.11	74.11	1	3	2014-01-03	88	4843
119.97	119.97	1	4	2014-01-04	93	4750
123.84	123.84	1	5	2014-01-05	96	4654
187.05	187.05	1	6	2014-01-06	145	4509
230.91	230.91	1	7	2014-01-07	179	4329
414.09000000000003	414.09000000000003	1	8	2014-01-08	321	4104
136.25	136.25	1	9	2014-01-09	125	4459
95.92	95.92	1	10	2014-01-10	68	5043
204.92000000000002	204.92000000000002	1	11	2014-01-11	128	5259

MONTH DATA:

Contains the Month Value alone from the corresponding Date value



TI	Revenue	M_Data	Row ID	data	venda	estoque
0	0	1	1	2014-01-01	0	4972
90.3	90.3	1	2	2014-01-02	70	4902
74.11	74.11	1	3	2014-01-03	88	4843
119.97	119.97	1	4	2014-01-04	93	4750
123.84	123.84	1	5	2014-01-05	96	4654
187.05	187.05	1	6	2014-01-06	145	4509
230.91	230.91	1	7	2014-01-07	179	4329
414.09000000000003	414.09000000000003	1	8	2014-01-08	321	4104
136.25	136.25	1	9	2014-01-09	125	4459
95.92	95.92	1	10	2014-01-10	68	5043
204.92000000000002	204.92000000000002	1	11	2014-01-11	128	5259

DATA (DATE) COLUMN:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists several data sources, with 'data' selected. The main area displays a table with the following columns: TI, Revenue, M_Data, Row Id, data, venda, and estoque. The 'data' column is highlighted. The table contains 11 rows of data, with dates ranging from 2014-01-01 to 2014-01-11.

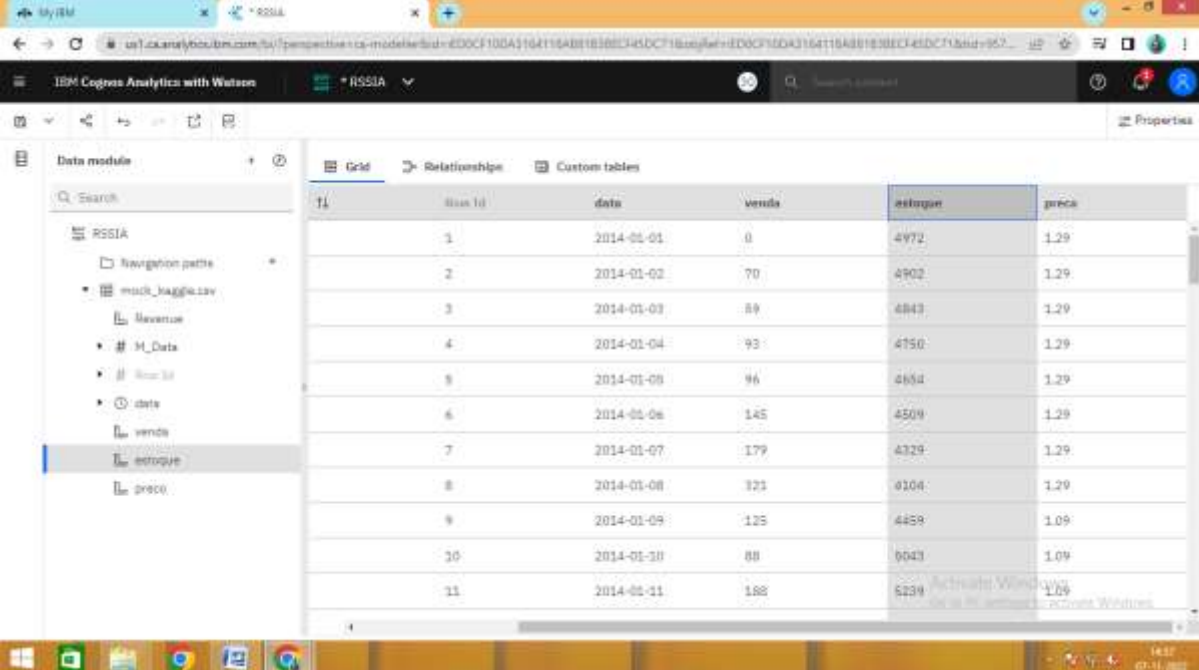
TI	Revenue	M_Data	Row Id	data	venda	estoque
0		1	1	2014-01-01	0	4972
90.3		1	2	2014-01-02	70	4902
76.11		1	3	2014-01-03	89	4843
119.97		1	4	2014-01-04	93	4750
123.84		1	5	2014-01-05	96	4684
187.05		1	6	2014-01-06	145	4509
230.91		1	7	2014-01-07	179	4329
414.09000000000003		1	8	2014-01-08	321	4104
336.25		1	9	2014-01-09	125	4459
95.92		1	10	2014-01-10	60	5043
204.92000000000002		1	11	2014-01-11	5259	

VENDA (SALES) COLUMN:

The screenshot shows the same IBM Cognos Analytics interface, but now the 'venda' column is highlighted. The table structure and data are identical to the previous screenshot.

TI	Revenue	M_Data	Row Id	data	venda	estoque
0		1	1	2014-01-01	0	4972
90.3		1	2	2014-01-02	70	4902
76.11		1	3	2014-01-03	89	4843
119.97		1	4	2014-01-04	93	4750
123.84		1	5	2014-01-05	96	4684
187.05		1	6	2014-01-06	145	4509
230.91		1	7	2014-01-07	179	4329
414.09000000000003		1	8	2014-01-08	321	4104
336.25		1	9	2014-01-09	125	4459
95.92		1	10	2014-01-10	60	5043
204.92000000000002		1	11	2014-01-11	5259	

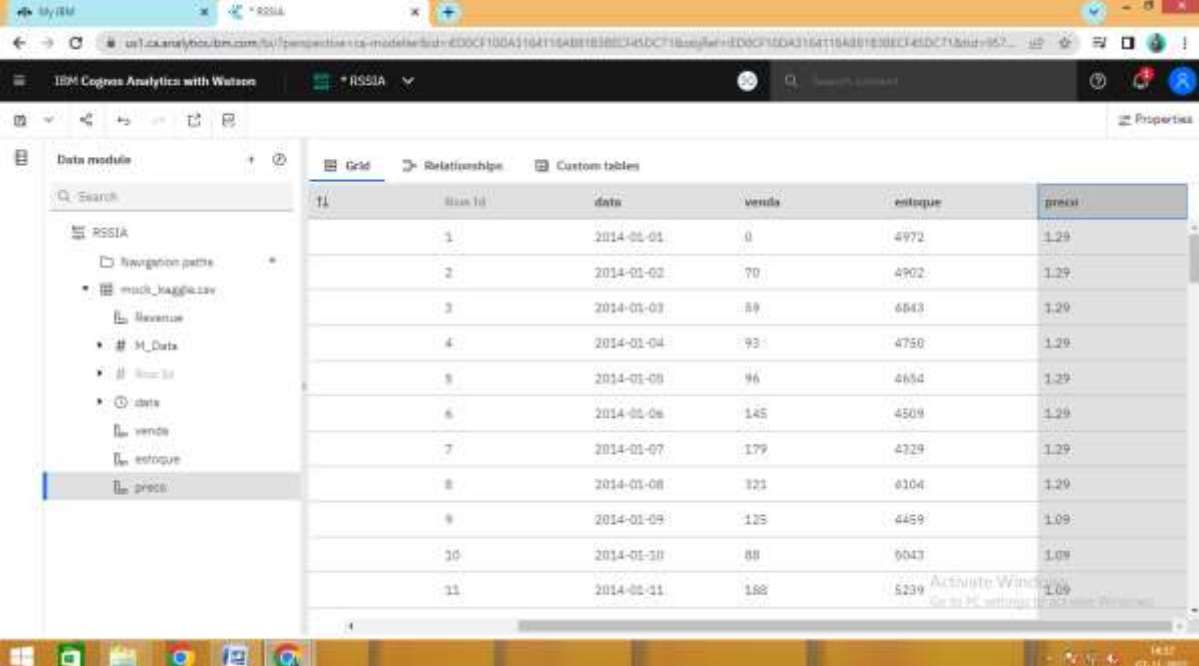
ESTOQUE(STOCK) COLUMN:



The screenshot shows the IBM Cognos Analytics interface. In the 'Data module' on the left, the 'estoque' column is selected under the 'mock_haggie.sav' dataset. The main grid displays a table with 6 columns: TI, Item Id, data, venda, estoque, and preco. The 'estoque' column is highlighted in blue. The table contains 11 rows of data.

TI	Item 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	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	179	4329	1.29
	8	2014-01-08	323	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

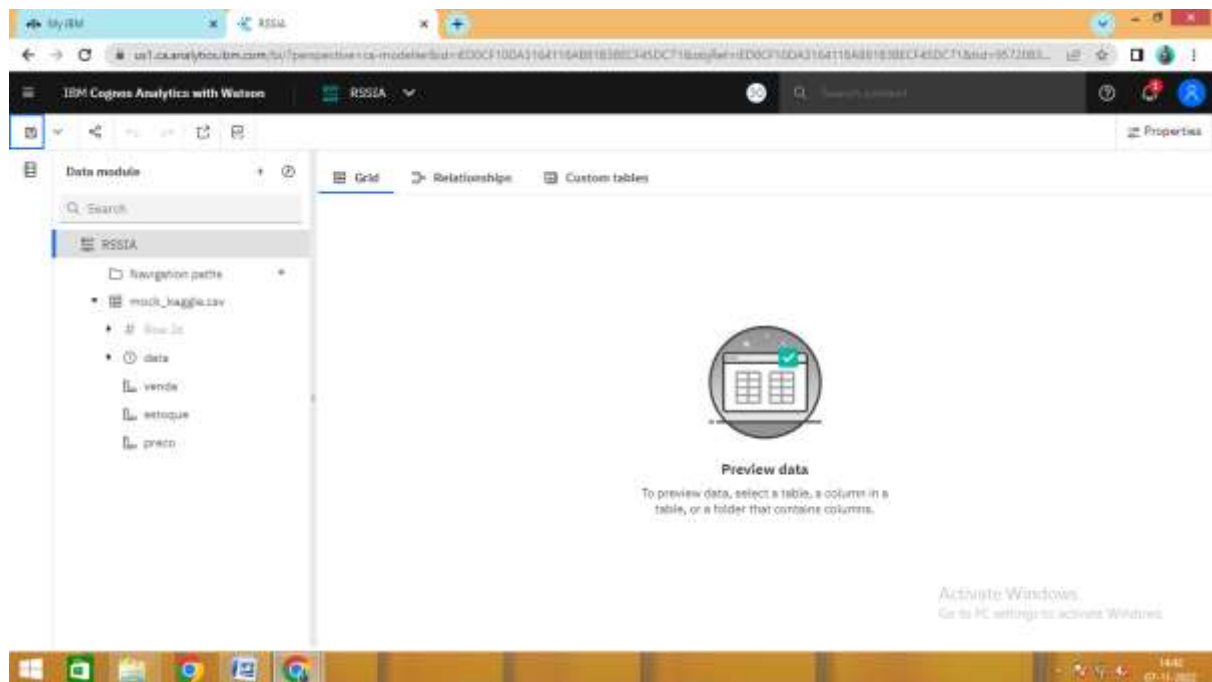
PRECO (PRICE) COLUMN:



The screenshot shows the IBM Cognos Analytics interface. In the 'Data module' on the left, the 'preco' column is selected under the 'mock_haggie.sav' dataset. The main grid displays a table with 6 columns: TI, Item Id, data, venda, estoque, and preco. The 'preco' column is highlighted in blue. The table contains 11 rows of data.

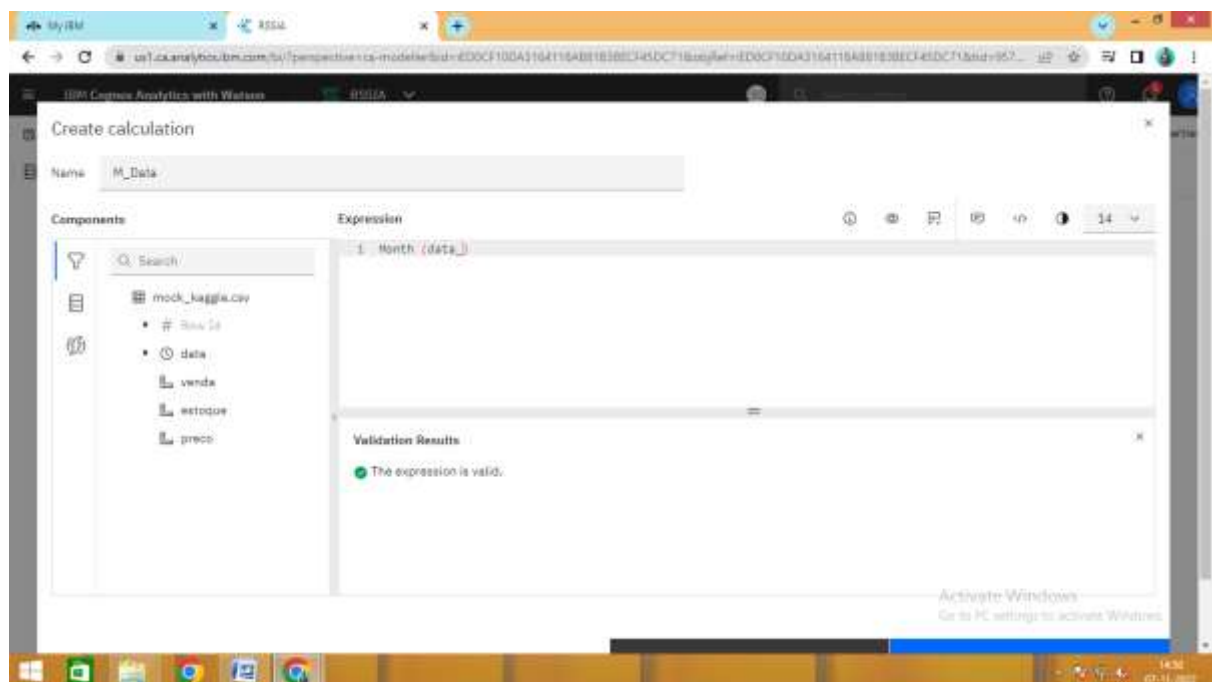
TI	Item Id	data	venda	estoque	preco
	1	2014-01-01	0	4972	1.29
	2	2014-01-02	70	4902	1.29
	3	2014-01-03	89	4843	1.29
	4	2014-01-04	93	4750	1.29
	5	2014-01-05	96	4654	1.29
	6	2014-01-06	145	4509	1.29
	7	2014-01-07	179	4329	1.29
	8	2014-01-08	323	4104	1.29
	9	2014-01-09	125	4459	1.09
	10	2014-01-10	88	5043	1.09
	11	2014-01-11	188	5239	1.09

- **Prepare Dataset :**



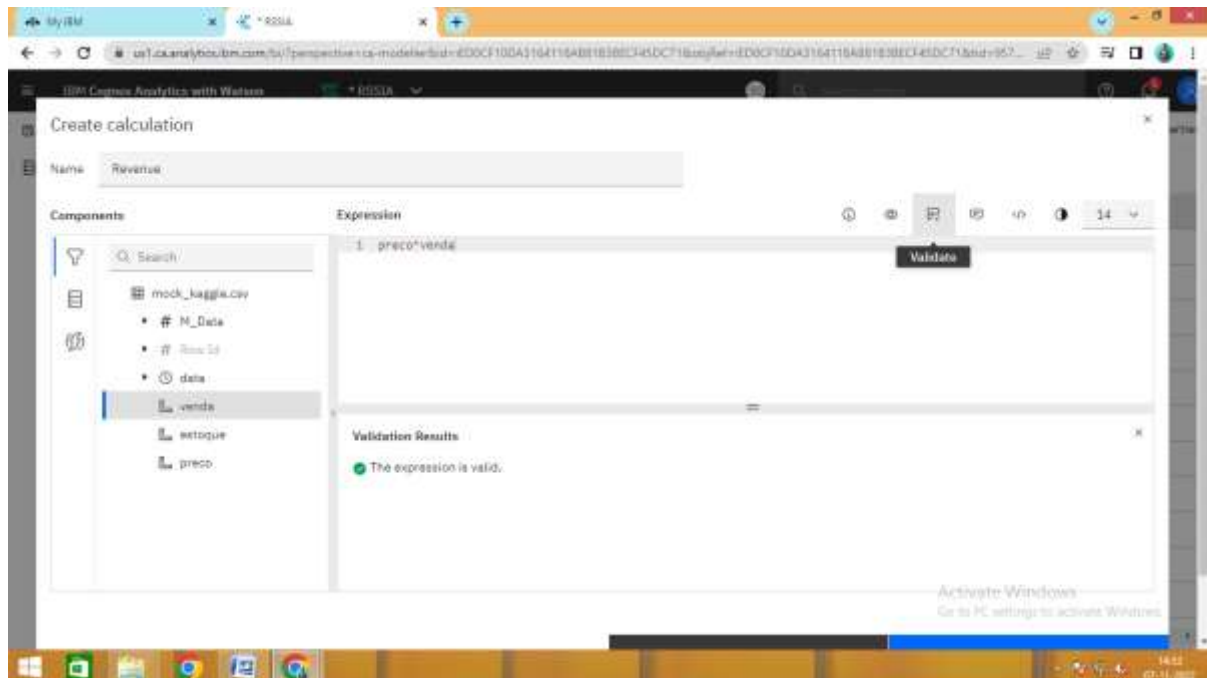
❖ **Preparing Month Data:**

Expression: Month(data_)



❖ Preparing Revenue Data:

Expression: $\text{preco} * \text{venda}$



FORMATTING AND CHANGING PROPERTIES OF EACH COLUMN

❖ Month Data

Properties:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists the 'Month' column. The main area displays a table with columns: 'TI', 'Month', 'Row ID', 'data', and 'ven'. The 'Month' column is selected, and the 'Properties' pane on the right shows its configuration. The 'General' tab is active, showing the 'Label' as 'Month', 'Hide from users' as a toggle, 'Expression' as 'View or edit', 'Usage' as 'Attribute', 'Aggregate' as 'Count Distinct', 'Data type' as 'Integer', and 'Represents' as 'Time'. The 'Month' dropdown is set to 'Month'.

TI	Month	Row ID	data	ven
1	1	1	2014-01-01	0
1	1	2	2014-01-02	7
1	1	3	2014-01-03	8
1	1	4	2014-01-04	9
1	1	5	2014-01-05	9
1	1	6	2014-01-06	1
1	1	7	2014-01-07	1
003	1	8	2014-01-08	1
1	1	9	2014-01-09	1
1	1	10	2014-01-10	5

Formatted Data

The screenshot shows the 'Format type' dialog box for the 'Month' column. The 'Format type' is set to 'Date'. The 'Date separator' is set to '/', 'Date style' is 'Short', 'Date ordering' is 'Default', and 'Missing value characters' is 'empty'. The 'Advanced options' button is visible at the bottom left, and the 'Reveal properties' button is at the bottom right. The 'OK' button is highlighted in blue.

❖ Date(Year)

Properties:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists the 'Year' property under the 'RSSIA' data source. The main area displays a grid with columns for 'Year', 'Sales', 'Stock', and 'Price'. The 'Year' column contains dates from 2014-01-01 to 2014-01-10. The 'Sales' column contains values from 0 to 88. The 'Stock' column contains values from 4972 to 5043. The 'Price' column contains values from 1.29 to 1.09. The 'Properties' pane on the right shows the 'General' tab for the 'Year' property. The 'Label' is 'Year', 'Hide from users' is checked, 'Expression' is 'View or edit', 'Usage' is 'Attribute', 'Aggregate' is 'Count Distinct', 'Data type' is 'Data', and 'Represents' is 'Time'.

Year	Sales	Stock	Price
2014-01-01	0	4972	1.29
2014-01-02	70	4902	1.29
2014-01-03	89	4843	1.29
2014-01-04	93	4750	1.29
2014-01-05	96	4654	1.29
2014-01-06	145	4569	1.29
2014-01-07	179	4329	1.29
2014-01-08	321	4104	1.29
2014-01-09	125	4459	1.09
2014-01-10	88	5043	1.09

Formatted Data

The screenshot shows the 'Data format' dialog box for the 'Year' property. The 'Format type' is set to 'Date'. The 'Date separator' is set to '/', the 'Date style' is set to 'Short', and the 'Date ordering' 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.

❖ Venda(Sales):

Properties:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists the 'Sales' column. The main area displays a grid of data with columns 'Date', 'Sales', and 'estoque'. The 'Sales' column is highlighted, and the 'Properties' pane on the right shows its configuration.

Date	Sales	estoque
2014-01-01	0	4972
2014-01-02	70	4902
2014-01-03	99	4843
2014-01-04	93	4750
2014-01-05	86	4654
2014-01-06	145	4509
2014-01-07	179	4329
2014-01-08	321	4104
2014-01-09	325	4409
2014-01-10	88	5043

Properties - General

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

Formatted Data:

The screenshot shows the 'Format type' dialog box for the 'Sales' 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.

Format type: Number

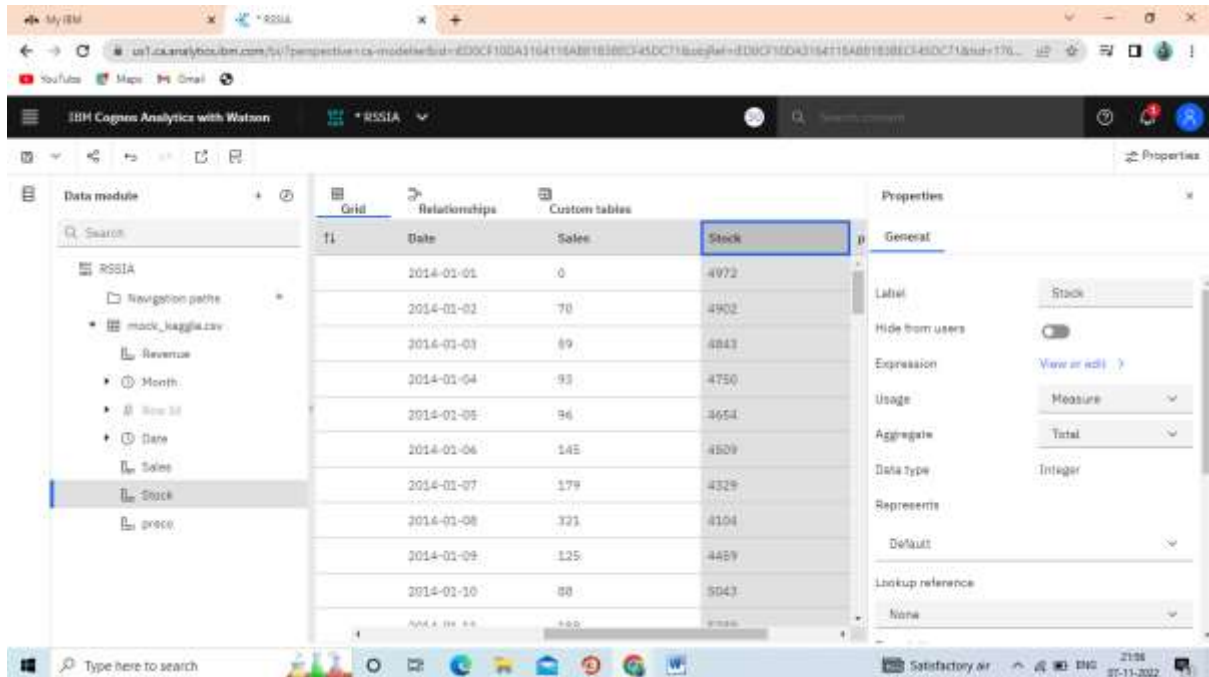
- Number of decimal places: 0
- Negative sign symbol: Default
- Use thousands separator: No
- Negative sign position: Default
- Missing value characters: empty

[Advanced options](#) [Reset properties](#)

Cancel **OK**

❖ ESTOQUE(STOCK)

Properties:



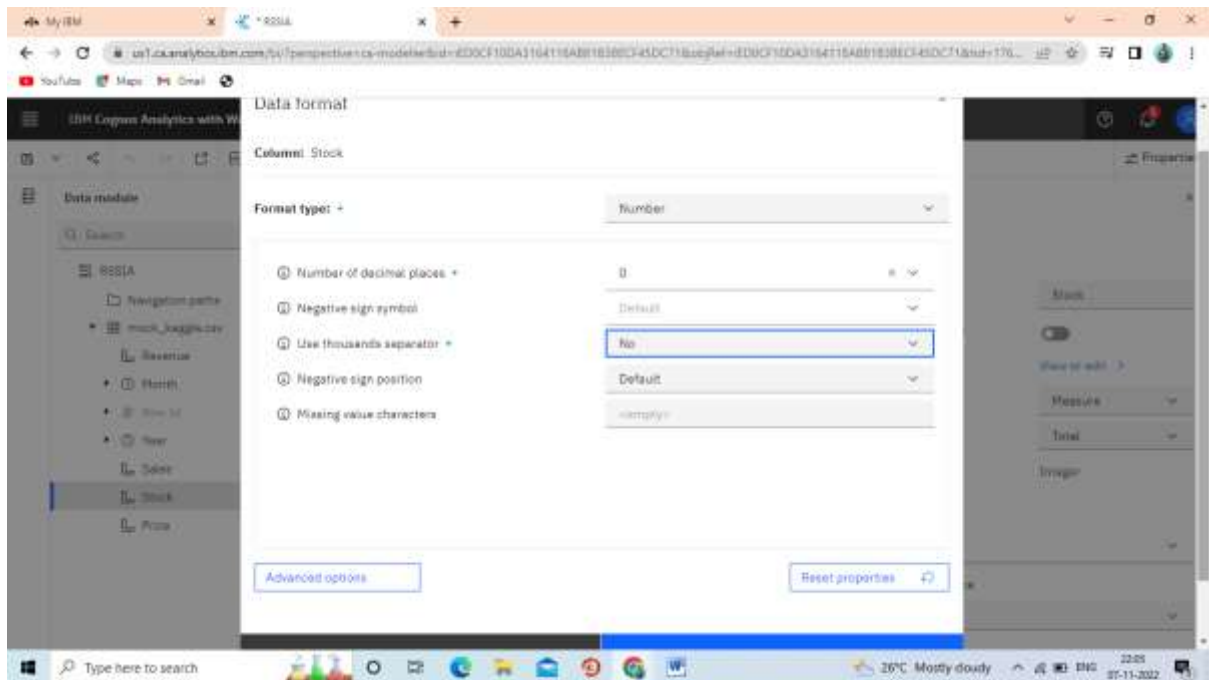
The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists the 'Stock' column. The main area displays a data grid with columns 'Date', 'Sales', and 'Stock'. The 'Stock' column is selected, and the 'Properties' pane on the right shows its configuration.

Date	Sales	Stock
2014-01-01	0	4972
2014-01-02	70	4902
2014-01-03	89	4843
2014-01-04	93	4750
2014-01-05	86	4654
2014-01-06	145	4509
2014-01-07	179	4329
2014-01-08	321	4104
2014-01-09	125	4489
2014-01-10	88	5043

Properties

- General**
- Label: Stock
- Hide from users: ☐
- Expression: [View or edit](#)
- Usage: Measure
- Aggregate: Total
- Data type: Integer
- Represents:
Default:
Lookup reference: None

Formatted Data:



The screenshot shows the 'Data Format' dialog box for the 'Stock' column. The 'Format type' is set to 'Number'. The 'Number of decimal places' is 0. The 'Negative sign symbol' is 'Default'. The 'Use thousands separator' is 'No'. The 'Negative sign position' is 'Default'. The 'Missing value characters' are 'empty'. The 'Advanced options' button is visible at the bottom.

Data Format

Column: Stock

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](#)

❖ PRECO(PRICE):

Properties:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists the 'Price' column. The central 'Grid' pane displays a table with columns 'Sales', 'Stock', and 'Price'. The 'Price' column is highlighted. On the right, the 'Properties' pane for the 'Price' column is open, showing the 'General' tab. The 'Label' is 'Price', 'Hide from users' is disabled, 'Expression' is 'View or edit', 'Usage' is 'Measure', 'Aggregate' is 'Total', 'Data type' is 'Decimal', and 'Represents' is 'Default'.

	Sales	Stock	Price
0	4972	1.29	
70	4902	1.29	
89	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	
80	5043	1.09	
YTD	2,150	4.09	

Formatted Data:

The screenshot shows the 'Data format' dialog box for the 'Price' column. The 'Format type' is set to 'Number'. The 'Number of decimal places' is set to '2'. 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.

❖ REVENUE:

Properties:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists 'RSSIA' and its sub-items: 'Navigation paths', 'mock_kaggle.csv', 'Revenue', and 'Month'. The 'Revenue' module is selected. The main area displays a grid with columns: 'Revenue', 'Month', 'Row id', and 'Year'. The grid contains 10 rows of data. On the right, the 'Properties' panel is open for the 'Revenue' module, showing the 'General' tab with various settings like 'Label', 'Hide from users', 'Expression', 'Usage', 'Calculate after aggregation', 'Aggregate', 'Data type', 'Represents', 'Default', and 'Lookup reference'.

Revenue	Month	Row id	Year
0	1	1	1/1/14
90.3	1	2	1/2/14
74.11	1	3	1/3/14
219.97	1	4	1/4/14
123.84	1	5	1/5/14
289.05	1	6	1/6/14
230.91	1	7	1/7/14
414.09000000000001	1	8	1/8/14
136.25	1	9	1/9/14
95.92	1	10	1/10/14

Formatted 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 '3'. 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.