

Project Development Phase

Delivery of Sprint 2

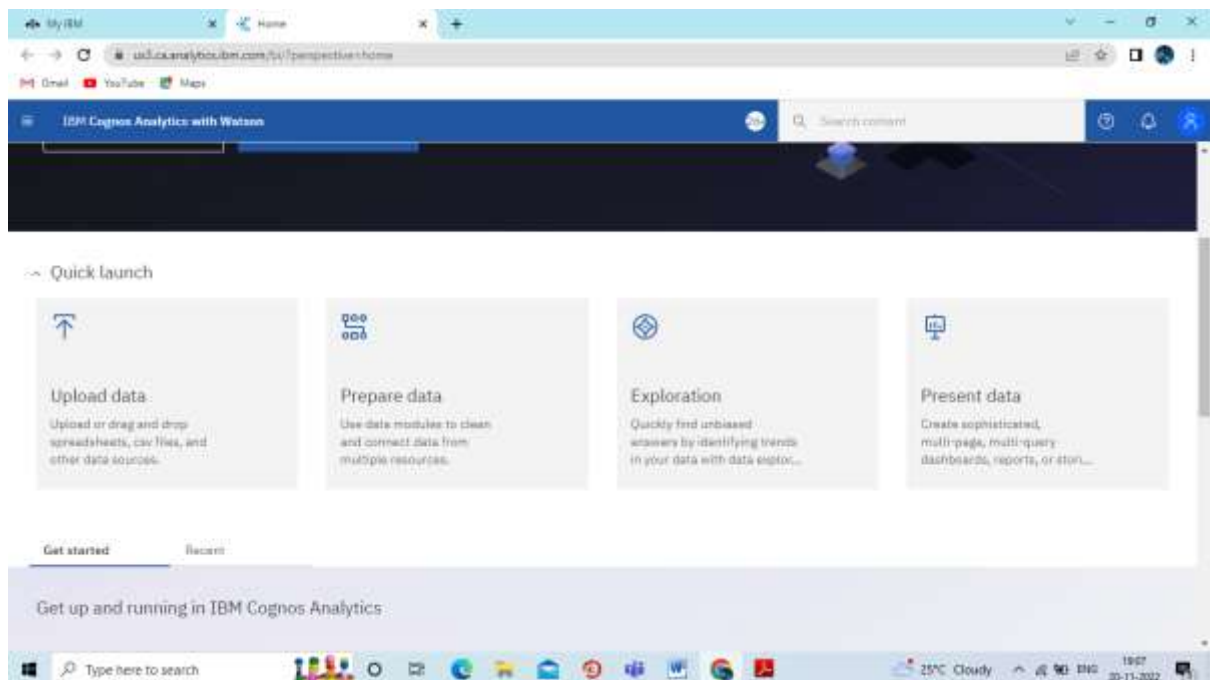
Team ID	PNT2022TMID22056
Project Title	Retail Store Stock Inventory Analytics

Sprint 2

- **Working With Dataset**

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

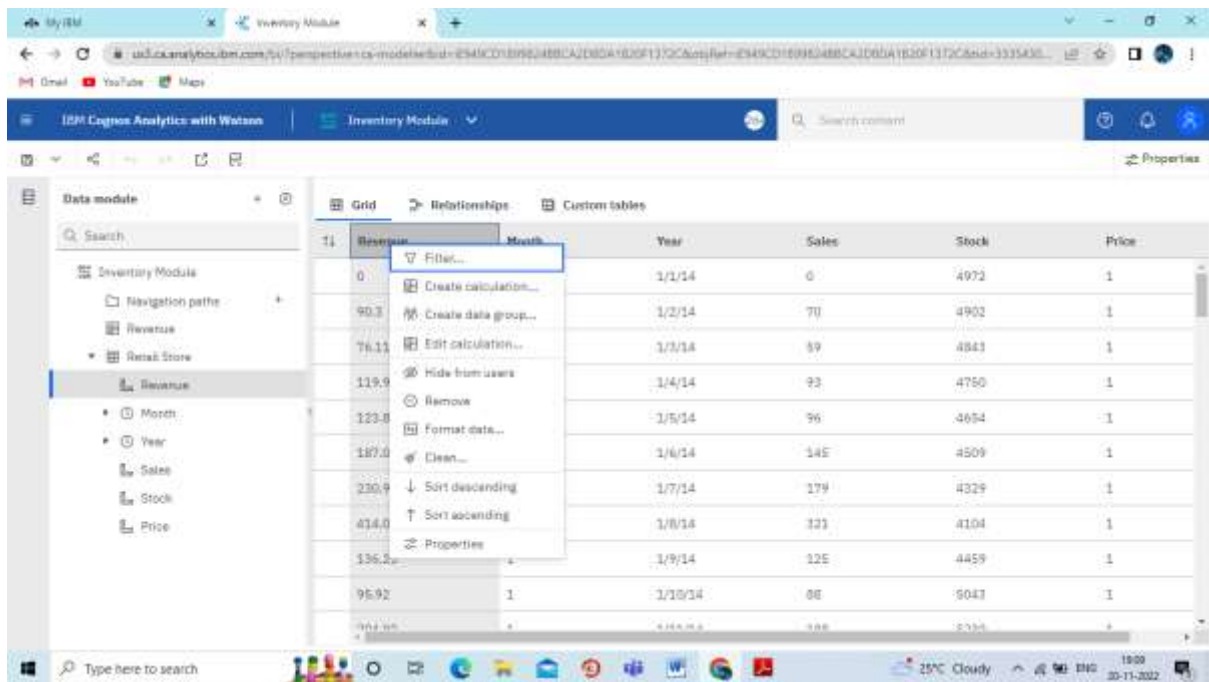
- **Upload Dataset**



- Understanding the Data

REVENUE COLUMN:

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

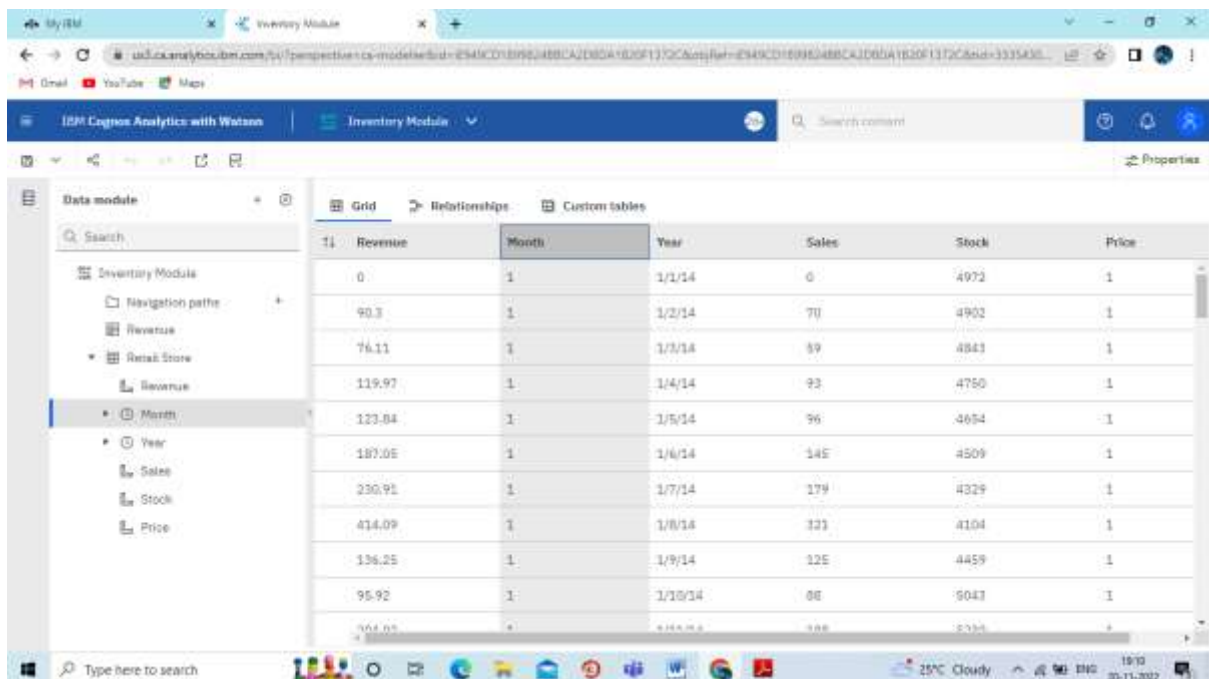


The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane displays a tree structure for 'Inventory Module' containing 'Revenue', 'Month', 'Year', 'Sales', 'Stock', and 'Price'. The 'Revenue' column is selected in the main grid. A context menu is open over the 'Revenue' column header, showing options: Filter..., Create calculation..., Create data group..., Edit calculation..., Hide from users, Remove, Format data..., Clean..., Sort descending, Sort ascending, and Properties. The grid displays data for 10 rows, with columns: Revenue, Month, Year, Sales, Stock, and Price.

Revenue	Month	Year	Sales	Stock	Price
0		1/1/14	0	4972	1
90.3		1/2/14	70	4902	1
76.11		1/3/14	59	4843	1
119.9		1/4/14	93	4750	1
123.8		1/5/14	96	4654	1
187.0		1/6/14	145	4509	1
230.9		1/7/14	179	4329	1
414.0		1/8/14	323	4104	1
136.2		1/9/14	125	4459	1
95.92	1	1/10/14	88	5043	1

MONTH DATA:

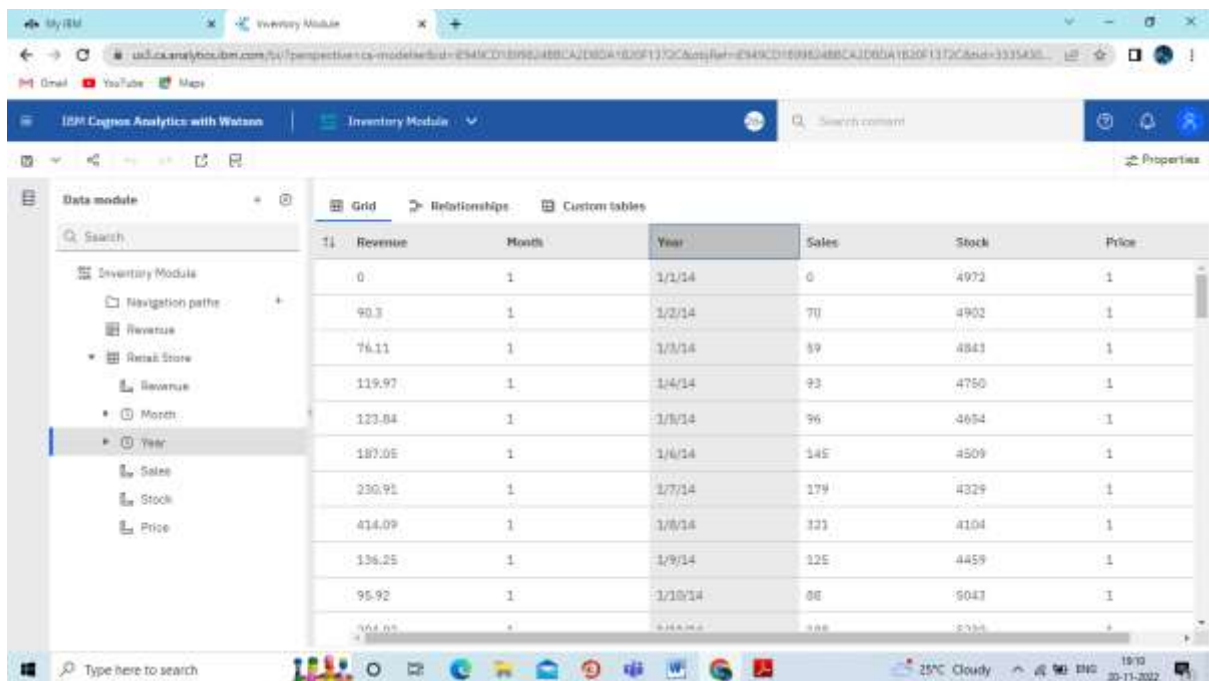
Contains the Month Value alone from the corresponding Date value



The screenshot shows the same IBM Cognos Analytics interface. In the 'Data module' pane, 'Month' is now selected. In the main grid, the 'Month' column is highlighted, showing values 1 through 10. The 'Revenue' column is no longer highlighted. The grid displays data for 10 rows, with columns: Revenue, Month, Year, Sales, Stock, and Price.

Revenue	Month	Year	Sales	Stock	Price
0	1	1/1/14	0	4972	1
90.3	1	1/2/14	70	4902	1
76.11	1	1/3/14	59	4843	1
119.97	1	1/4/14	93	4750	1
123.84	1	1/5/14	96	4654	1
187.05	1	1/6/14	145	4509	1
230.91	1	1/7/14	179	4329	1
414.09	1	1/8/14	323	4104	1
136.25	1	1/9/14	125	4459	1
95.92	1	1/10/14	88	5043	1

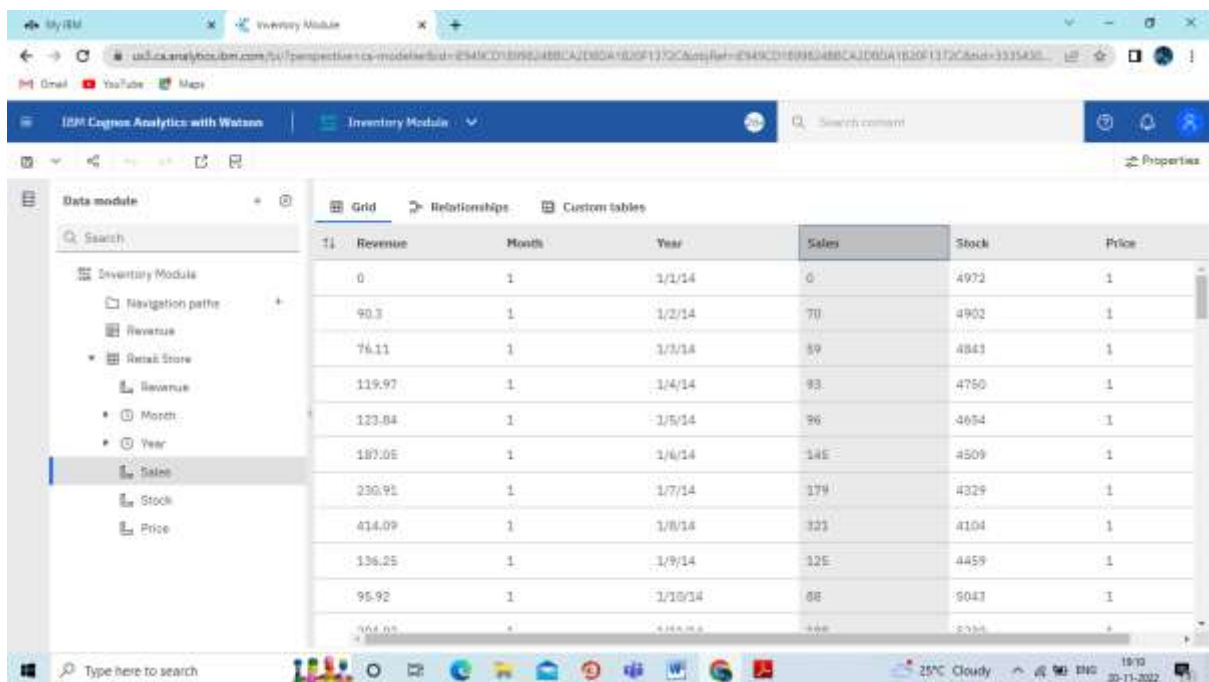
DATA (DATE) COLUMN:



The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' sidebar lists the hierarchy: Inventory Module > Navigation paths > Revenue > Retail Store > Revenue > Month > Year. The 'Year' column is selected. The main grid displays data for 10 rows, with columns: Revenue, Month, Year, Sales, Stock, and Price. The 'Year' column values range from 1/1/14 to 1/10/14.

Revenue	Month	Year	Sales	Stock	Price
0	1	1/1/14	0	4972	1
90.3	1	1/2/14	70	4902	1
76.11	1	1/3/14	89	4843	1
119.97	1	1/4/14	93	4750	1
123.84	1	1/5/14	96	4654	1
187.05	1	1/6/14	145	4509	1
230.91	1	1/7/14	179	4329	1
414.09	1	1/8/14	323	4104	1
136.25	1	1/9/14	125	4459	1
95.92	1	1/10/14	88	5043	1

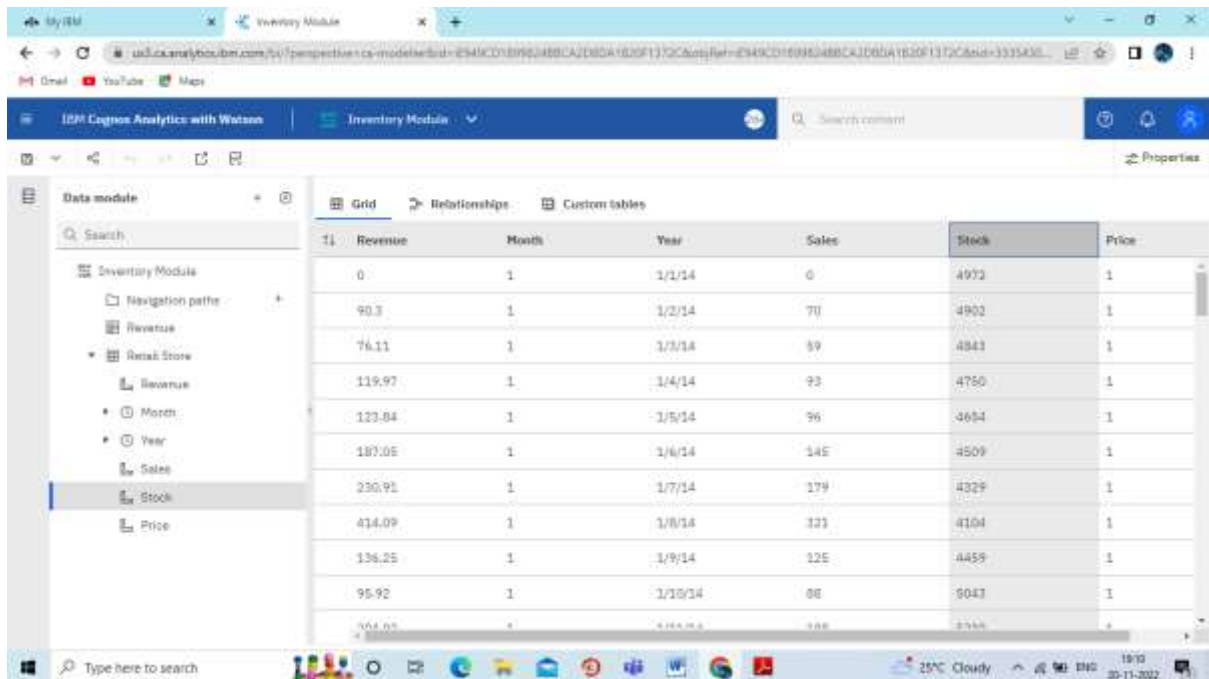
VENDA (SALES) COLUMN:



The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' sidebar lists the hierarchy: Inventory Module > Navigation paths > Revenue > Retail Store > Revenue > Month > Sales. The 'Sales' column is selected. The main grid displays data for 10 rows, with columns: Revenue, Month, Year, Sales, Stock, and Price. The 'Sales' column values range from 0 to 323.

Revenue	Month	Year	Sales	Stock	Price
0	1	1/1/14	0	4972	1
90.3	1	1/2/14	70	4902	1
76.11	1	1/3/14	89	4843	1
119.97	1	1/4/14	93	4750	1
123.84	1	1/5/14	96	4654	1
187.05	1	1/6/14	145	4509	1
230.91	1	1/7/14	179	4329	1
414.09	1	1/8/14	323	4104	1
136.25	1	1/9/14	125	4459	1
95.92	1	1/10/14	88	5043	1

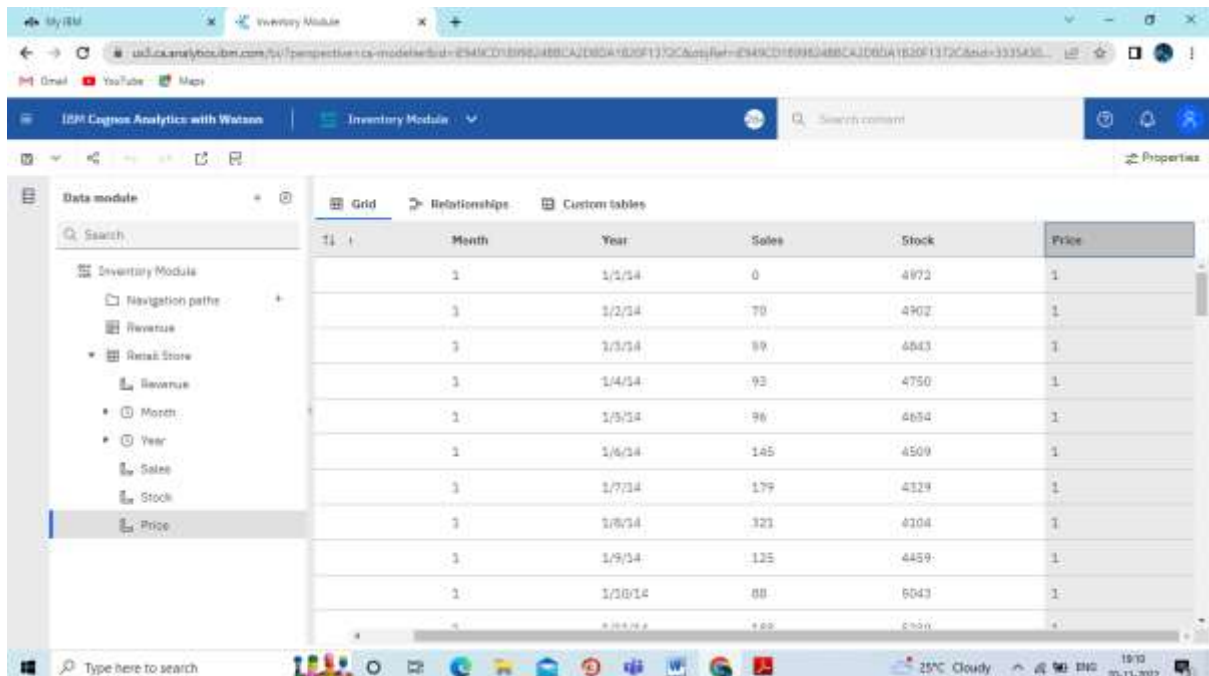
ESTOQUE(STOCK) COLUMN:



The screenshot shows the IBM Cognos Analytics interface with the 'Inventory Module' selected. The 'Data module' pane on the left shows a tree view with 'Inventory Module' expanded, containing 'Navigation paths', 'Revenue', 'Retail Store', 'Revenue', 'Month', 'Year', 'Sales', 'Stock', and 'Price'. The 'Grid' view displays a table with columns: Revenue, Month, Year, Sales, Stock, and Price. The 'Stock' column is highlighted in the table.

Revenue	Month	Year	Sales	Stock	Price
0	1	1/1/14	0	4972	1
90.3	1	1/2/14	70	4902	1
76.11	1	1/3/14	89	4843	1
119.97	1	1/4/14	93	4750	1
123.84	1	1/5/14	96	4684	1
187.05	1	1/6/14	145	4509	1
230.91	1	1/7/14	179	4329	1
414.09	1	1/8/14	323	4104	1
136.25	1	1/9/14	125	4459	1
95.92	1	1/10/14	88	5043	1
104.05	1	1/11/14	108	5154	1

PRECO (PRICE) COLUMN:



The screenshot shows the IBM Cognos Analytics interface with the 'Inventory Module' selected. The 'Data module' pane on the left shows a tree view with 'Inventory Module' expanded, containing 'Navigation paths', 'Revenue', 'Retail Store', 'Revenue', 'Month', 'Year', 'Sales', 'Stock', and 'Price'. The 'Price' column is highlighted in the table.

Month	Year	Sales	Stock	Price
1	1/1/14	0	4972	1
1	1/2/14	70	4902	1
1	1/3/14	89	4843	1
1	1/4/14	93	4750	1
1	1/5/14	96	4684	1
1	1/6/14	145	4509	1
1	1/7/14	179	4329	1
1	1/8/14	323	4104	1
1	1/9/14	125	4459	1
1	1/10/14	88	5043	1

- Prepare Dataset :

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 shows a tree structure with 'Month' selected. The main grid displays a table with columns: Revenue, Month, Year, and Sales. The 'Month' column is highlighted. On the right, the 'Properties' pane is open, showing the 'General' tab for the 'Month' column. The properties listed are:

- Label: Month
- Hide from users: ☒
- Expression: View or edit >
- Usage: Attribute
- Aggregate: Count Distinct
- Data type: Integer
- Represents: Time
- Month: ☐
- Description:

Formatted Data

The screenshot shows the 'Data format' dialog box for the 'Month' column. The 'Format type' is set to 'Date'. The 'Date separator' is set to '/'. The 'Date style' is set to 'Short'. 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.

❖ Date(Year)

Properties:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists the 'Inventory Module' and its components: 'Navigation paths', 'Revenue', 'Retail Store', 'Revenue', 'Month', 'Year', 'Sales', 'Stock', and 'Price'. The 'Year' component is selected. The main area displays a table with columns: 'Revenue', 'Month', 'Year', and 'Sales'. The 'Year' column contains dates from 1/1/14 to 1/10/14. On the right, the 'Properties' pane is open, showing 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'.

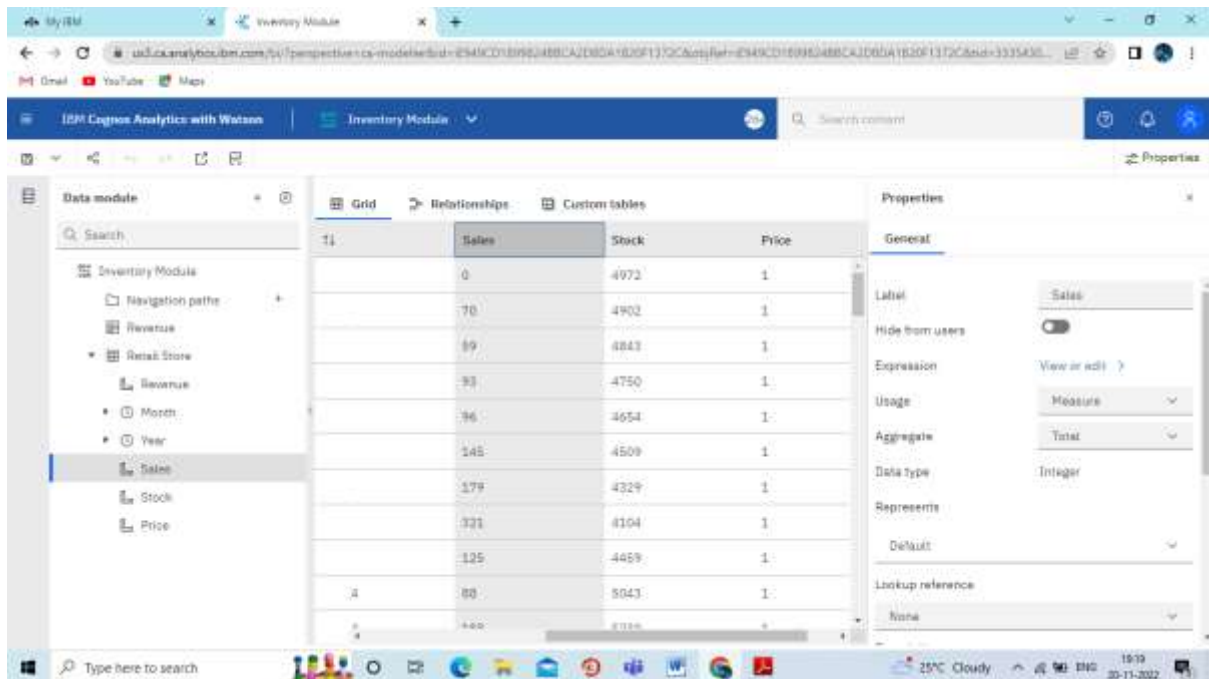
Revenue	Month	Year	Sales
0	1	1/1/14	0
90.3	1	1/2/14	70
76.11	1	1/3/14	59
119.97	1	1/4/14	93
123.84	1	1/5/14	96
187.05	1	1/6/14	145
230.91	1	1/7/14	179
414.09	1	1/8/14	323
136.25	1	1/9/14	125
95.92	1	1/10/14	88

Formatted Data

The screenshot shows the 'Data format' dialog box for the 'Year' column. The 'Format type' is set to 'Date'. The 'Date separator' is '/', 'Date style' is 'Short', 'Date ordering' is 'Default', and 'Missing value characters' is 'empty'. The 'Advanced options' button is at the bottom left, and the 'Reset properties' button is at the bottom right.

❖ Venda(Sales):

Properties:



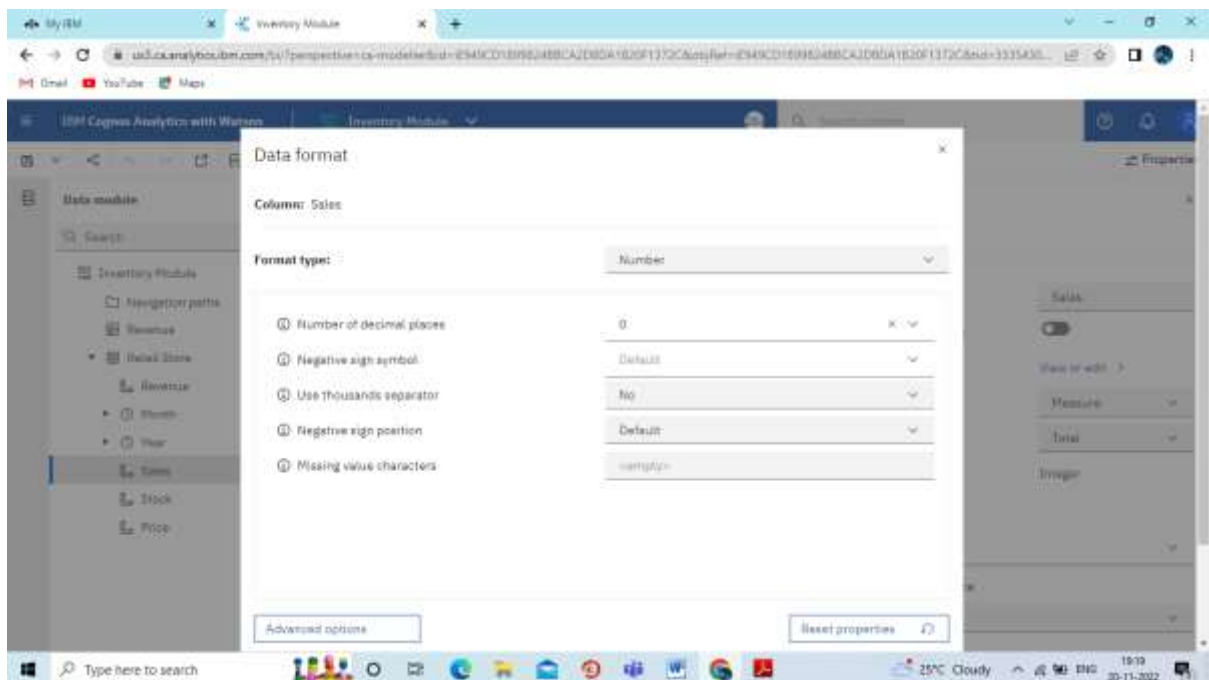
The screenshot shows the IBM Cognos Analytics interface with the 'Inventory Module' selected. The 'Data module' pane on the left lists the available data sources. The 'Grid' view displays a table with columns for 'Sales', 'Stock', and 'Price'. The 'Properties' panel on the right shows the configuration for the 'Sales' column.

T1	Sales	Stock	Price
	0	4972	1
	70	4902	1
	59	4843	1
	93	4750	1
	96	4654	1
	145	4509	1
	179	4329	1
	321	4104	1
	125	4459	1
	88	5043	1
	440	4716	1

Properties Panel (Sales Column):

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

Formatted Data:



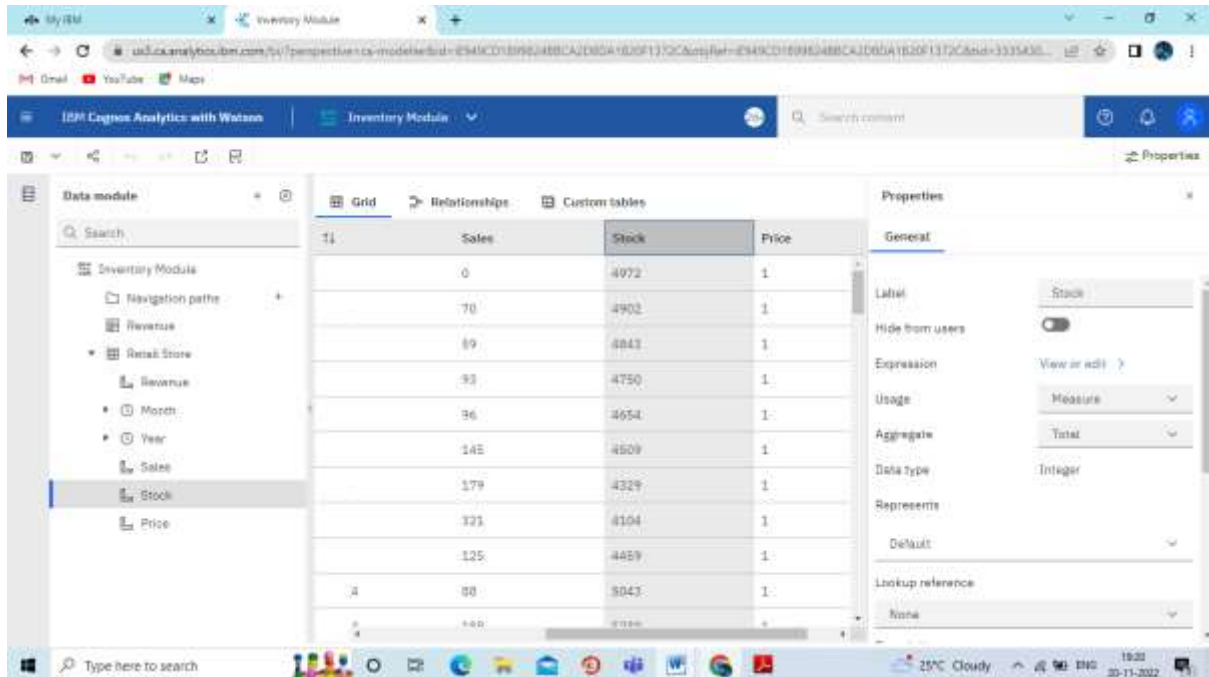
The screenshot shows the 'Data format' dialog box in IBM Cognos Analytics. The dialog is configured for the 'Sales' column. The 'Format type' is set to 'Number'. The 'Number of decimal places' is set to 0. The 'Negative sign symbol' is set to 'Default'. The 'Use thousands separator' is set to 'No'. The '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.

Data format Dialog:

- 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

❖ ESTOQUE(STOCK)

Properties:



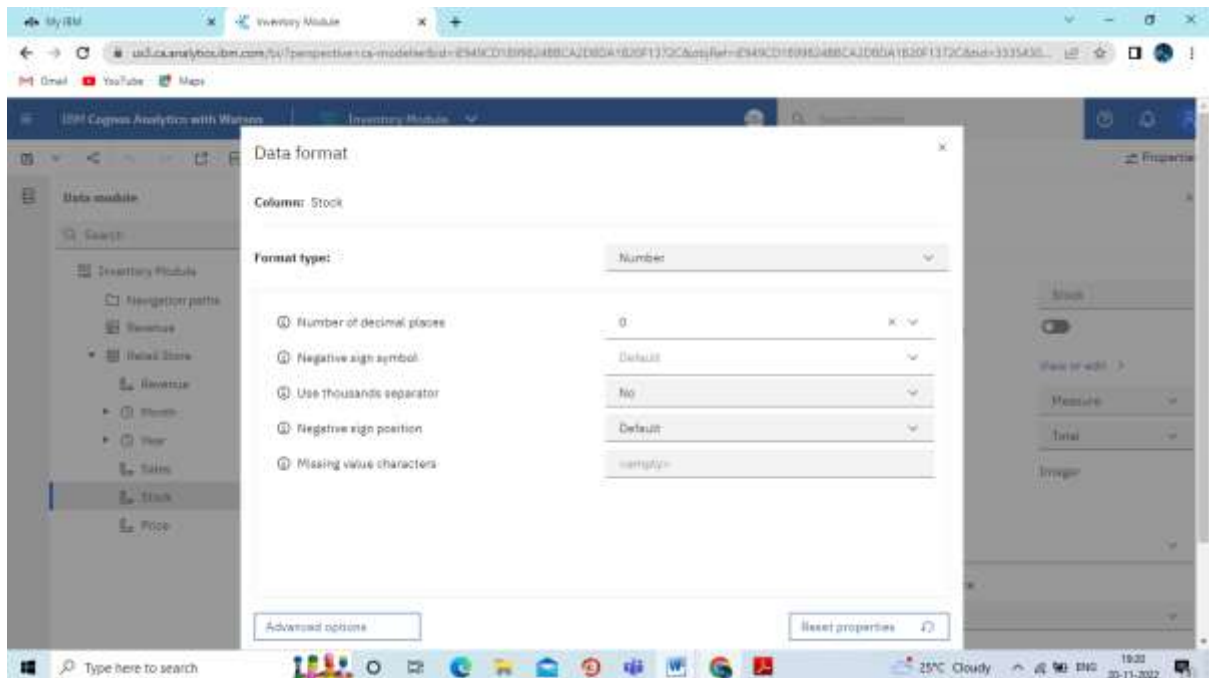
The screenshot displays the IBM Cognos Analytics interface for the 'Inventory Module'. A data grid is shown with columns: T1, Sales, Stock, and Price. The 'Stock' column is selected, and the 'Properties' panel on the right shows its configuration.

T1	Sales	Stock	Price
0	4972	1	
70	4902	1	
89	4843	1	
93	4750	1	
96	4654	1	
145	4509	1	
179	4329	1	
321	4104	1	
325	4489	1	
38	5043	1	

Properties Panel (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 displays the 'Data format' dialog for the 'Stock' column. The 'Format type' is set to 'Number'.

Column: Stock

Format type: Number

Options:

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

Buttons: 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 under the 'Retail Store' category. The main area displays a table with columns: T1, Sales, Stock, and Price. The 'Price' column is selected, and the 'Properties' panel on the right shows its configuration.

T1	Sales	Stock	Price
0	4972	1	
70	4902	1	
89	4843	1	
93	4750	1	
96	4654	1	
145	4509	1	
179	4329	1	
321	4104	1	
125	4459	1	
80	5043	1	

Properties Panel (General):

- Label: Price
- Hide from users: ☐
- Expression: View or edit
- Usage: Measure
- Aggregate: Total
- Data type: Decimal
- Represents: Default
- Lookup reference: None

Formatted Data:

The screenshot shows the 'Data format' dialog box for the 'Price' column. The 'Format type' is set to 'Number'. The following options are visible:

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

Buttons at the bottom: 'Advanced options' and 'Reset properties'.

❖ REVENUE:

Properties:

The screenshot displays the IBM Cognos Analytics interface. On the left, the 'Data module' pane shows a tree structure with 'Revenue' selected under 'Retail Store'. The main area shows a grid of data for the 'Revenue' module. The grid has columns for 'Revenue', 'Month', 'Year', and 'Sales'. The 'Revenue' column contains values ranging from 0 to 414.09. The 'Month' column contains the value 1. The 'Year' column contains dates from 1/1/14 to 1/10/14. The 'Sales' column contains values ranging from 0 to 179. On the right, the 'Properties' pane is open, showing the 'General' tab for the 'Revenue' measure. The 'Label' is 'Revenue', 'Hide from users' is checked, 'Expression' is 'View or edit', 'Usage' is 'Measure', 'Calculate after aggregation' is checked, 'Aggregate' is 'Total', 'Data type' is 'Decimal', and 'Represents' is 'Default'.

Revenue	Month	Year	Sales
0	1	1/1/14	0
90.3	1	1/2/14	70
76.11	1	1/3/14	59
119.97	1	1/4/14	93
123.84	1	1/5/14	96
187.05	1	1/6/14	145
230.92	1	1/7/14	179
414.09	1	1/8/14	323
136.25	1	1/9/14	125
95.92	1	1/10/14	88

Formatted data:

The screenshot shows the 'Data format' dialog box for the 'Revenue' measure. 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.