

Sprint 1

Data Collection and Data Preparation

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|--------------|--|
| Team Id | PNT2022TMID48371 |
| Project Name | Retail Store Stock Inventory Analytics |

Data Collection:

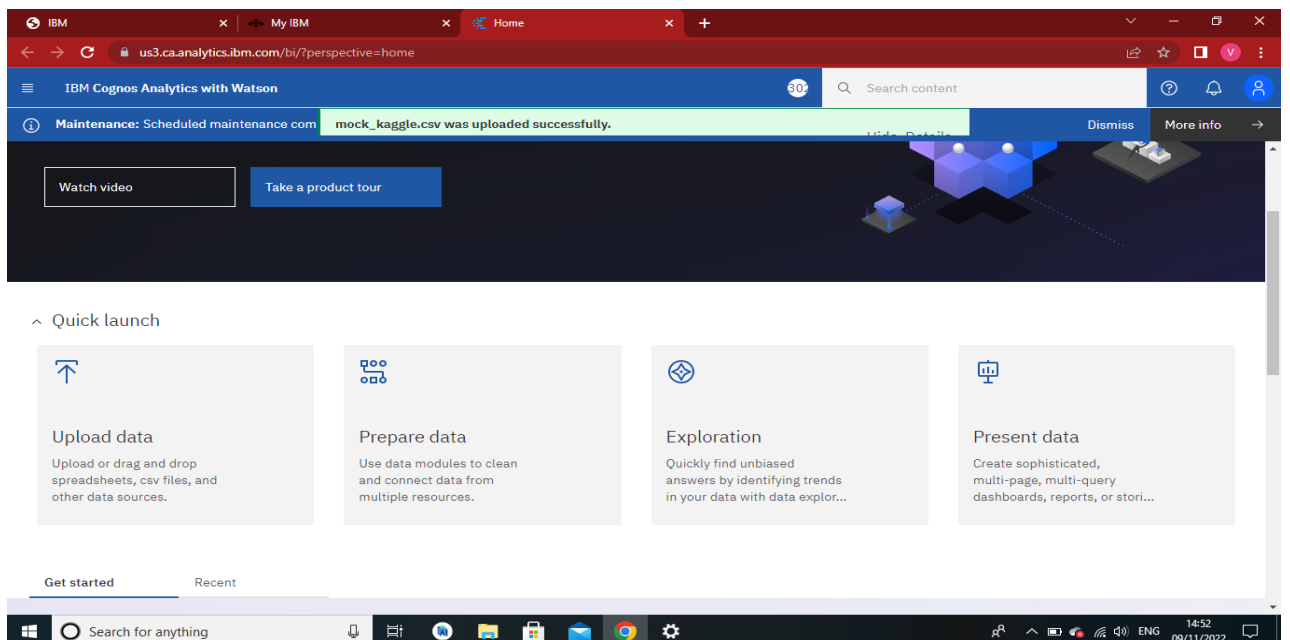
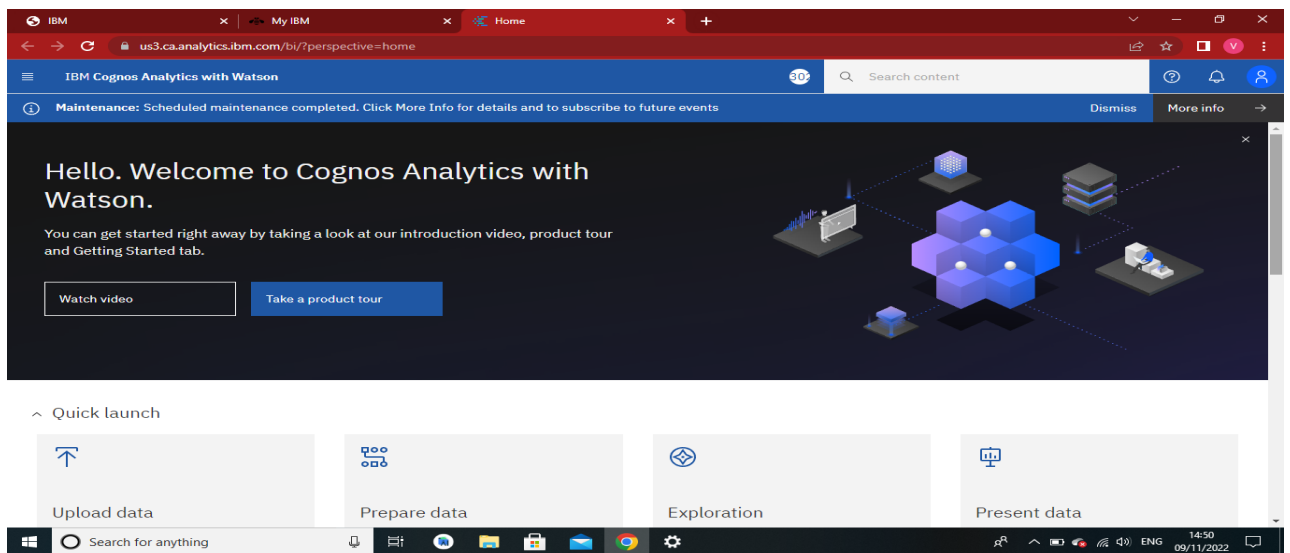
Download the Dataset:

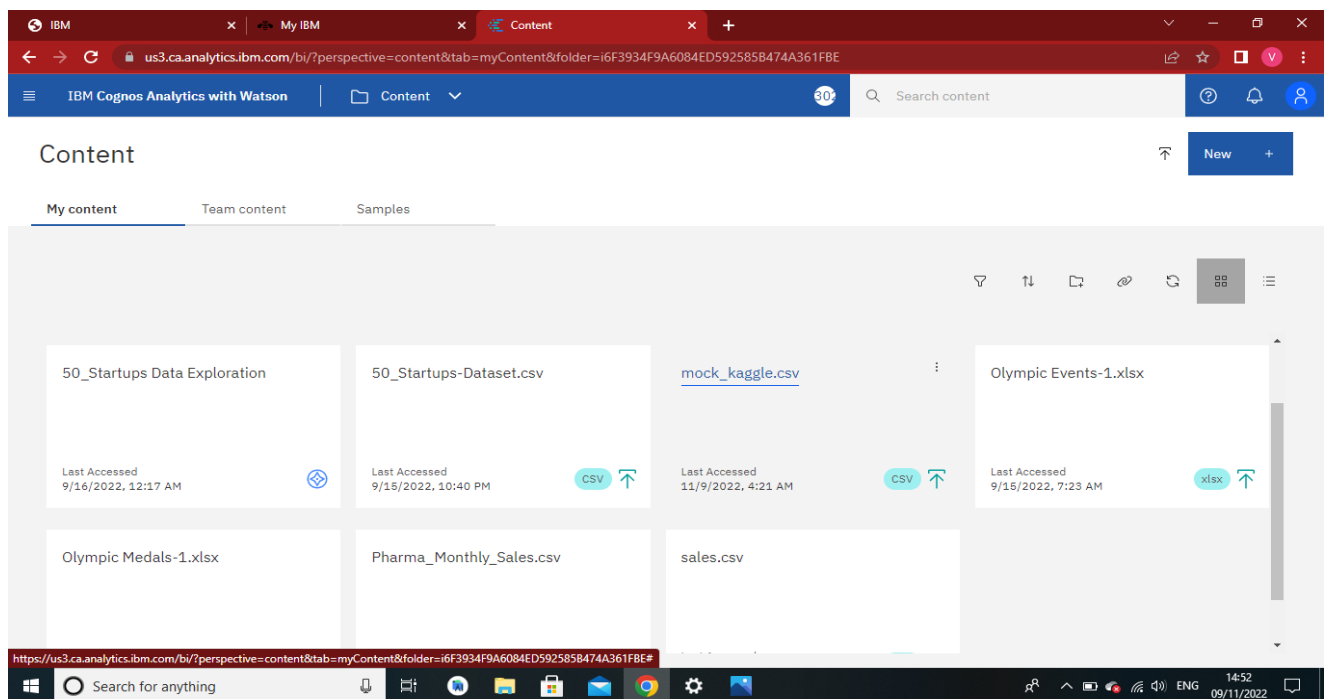
Dataset link:

<https://drive.google.com/drive/folders/1kiL-5CHJmQvbk9VyFsuUs-myAupBZGNy>

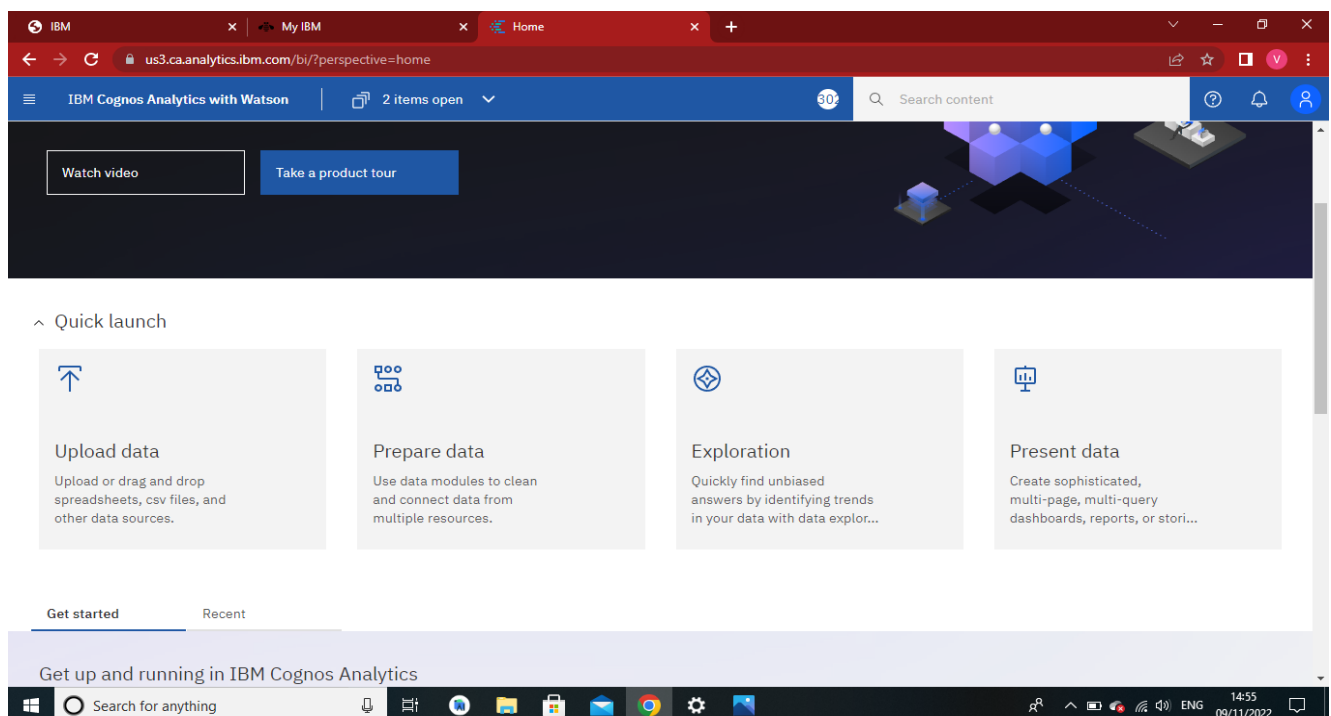
Upload the Dataset:

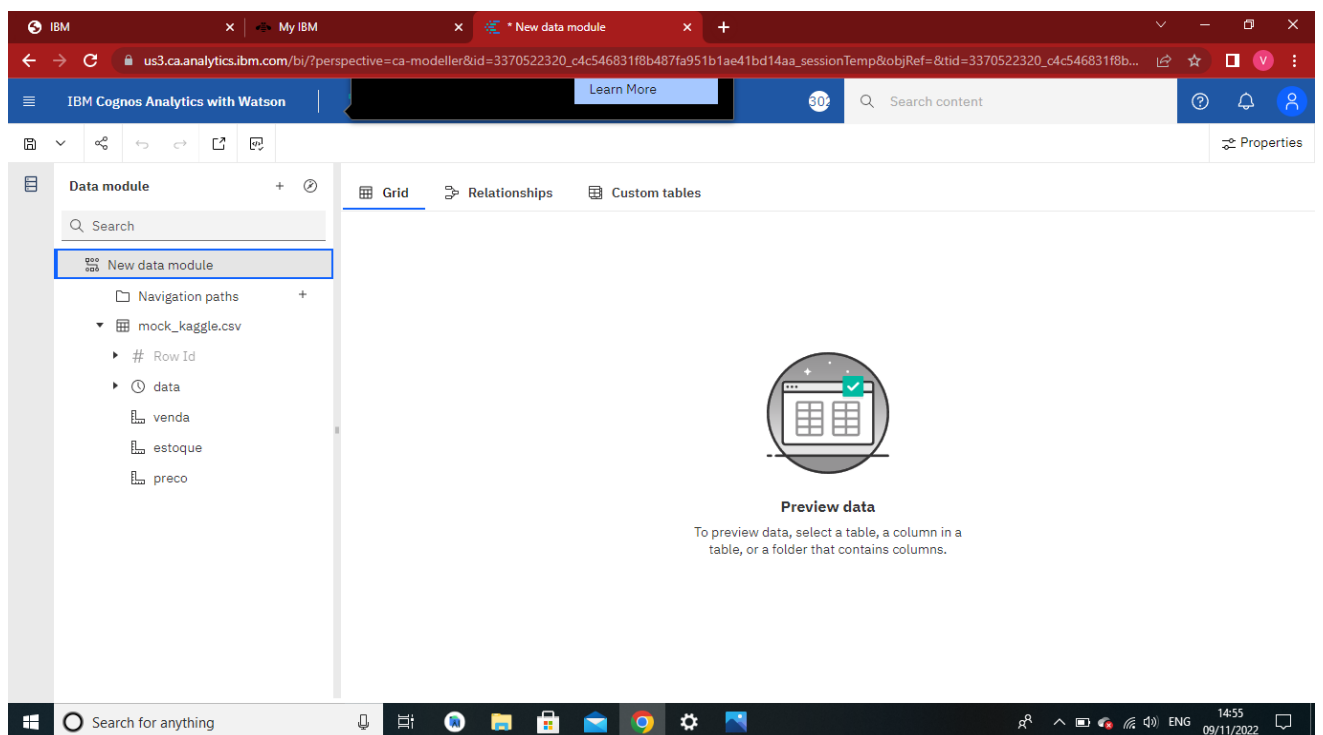
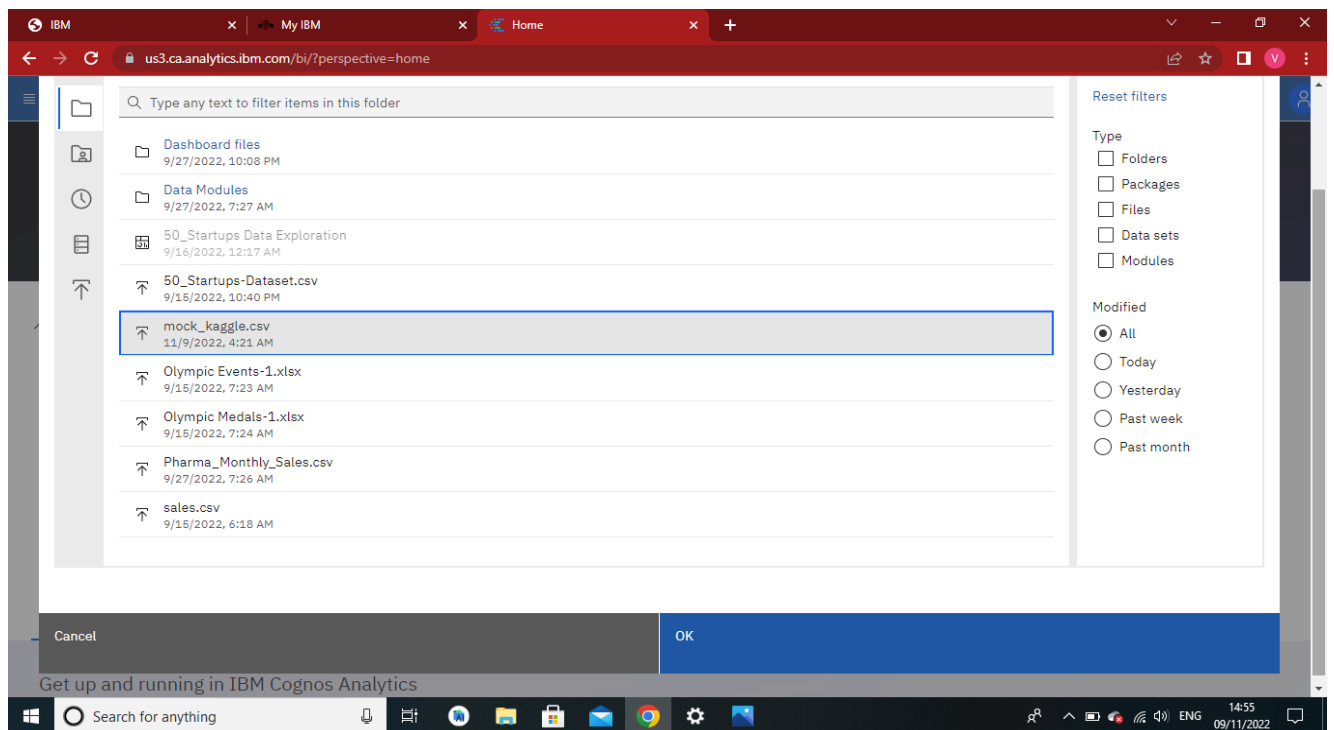
Tool: IBM Cognos





Data Preparation:





Month data

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 'M_Data' selected. The main grid displays 11 rows of data for the month of January 2014, with columns for Row Id, Year, sales, Stock, and Price.

| Row Id | Year | sales | Stock | Price |
|--------|---------|-------|-------|-------|
| 1 | 1/1/14 | 0 | 4972 | 1 |
| 2 | 1/2/14 | 70 | 4902 | 1 |
| 3 | 1/3/14 | 59 | 4843 | 1 |
| 4 | 1/4/14 | 93 | 4750 | 1 |
| 5 | 1/5/14 | 96 | 4654 | 1 |
| 6 | 1/6/14 | 145 | 4509 | 1 |
| 7 | 1/7/14 | 179 | 4329 | 1 |
| 8 | 1/8/14 | 321 | 4104 | 1 |
| 9 | 1/9/14 | 125 | 4459 | 1 |
| 10 | 1/10/14 | 88 | 5043 | 1 |
| 11 | 1/11/14 | 188 | 5239 | 1 |

Year data

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 'Year' selected. The main grid displays 11 rows of data for the year 2014, with columns for M_Data, Row Id, Year, sales, Stock, and Price.

| 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 |
| 1 | 8 | 1/8/14 | 321 | 4104 | 1 |
| 1 | 9 | 1/9/14 | 125 | 4459 | 1 |
| 1 | 10 | 1/10/14 | 88 | 5043 | 1 |
| 1 | 11 | 1/11/14 | 188 | 5239 | 1 |

Sales data

The screenshot shows the IBM Cognos Analytics interface with the 'Inventory Module' selected. The 'Data module' pane on the left lists 'sales' as the selected data source. The main grid displays 11 rows of data with columns for M_Data, Row Id, Year, sales, Stock, and Price. The 'sales' column is highlighted with a blue border.

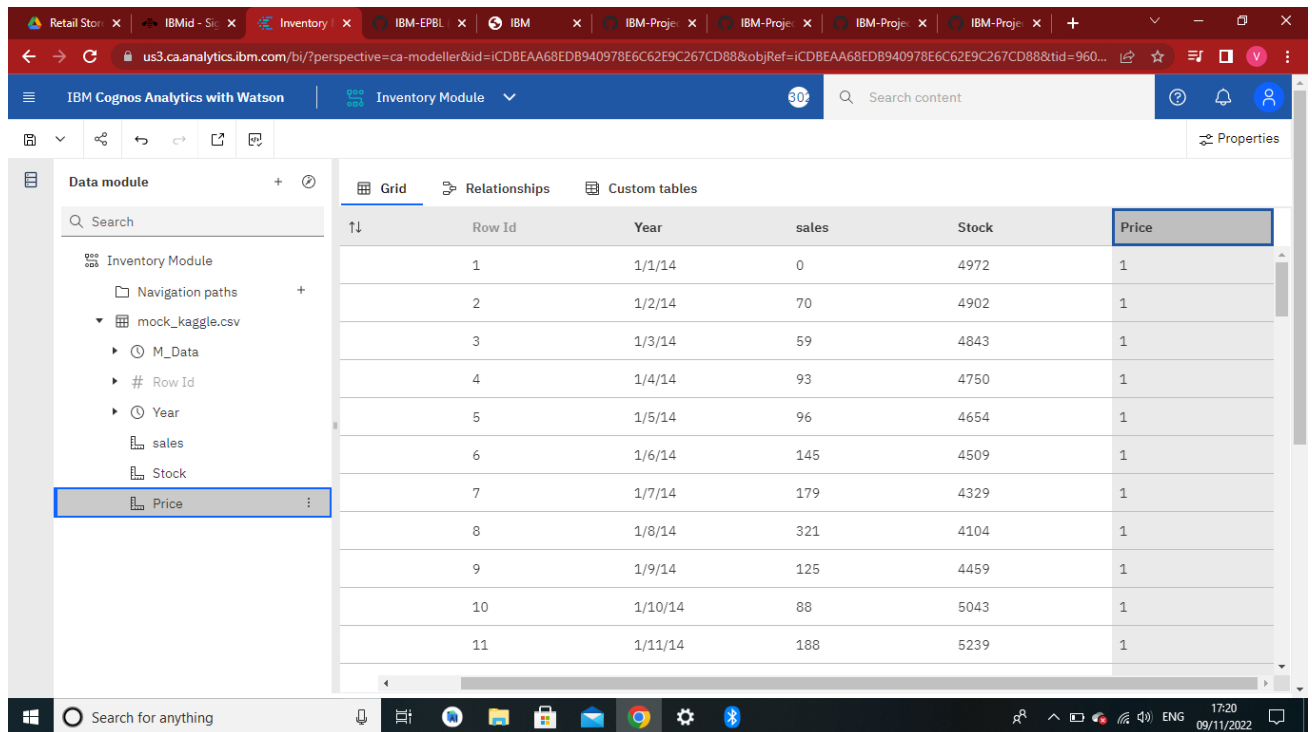
| M_Data | Row Id | Year | sales | Stock | Price |
|--------|--------|---------|-------|-------|-------|
| 1 | 1 | 1/1/14 | 0 | 4972 | 1 |
| 1 | 2 | 1/2/14 | 70 | 4902 | 1 |
| 1 | 3 | 1/3/14 | 59 | 4843 | 1 |
| 1 | 4 | 1/4/14 | 93 | 4750 | 1 |
| 1 | 5 | 1/5/14 | 96 | 4654 | 1 |
| 1 | 6 | 1/6/14 | 145 | 4509 | 1 |
| 1 | 7 | 1/7/14 | 179 | 4329 | 1 |
| 1 | 8 | 1/8/14 | 321 | 4104 | 1 |
| 1 | 9 | 1/9/14 | 125 | 4459 | 1 |
| 1 | 10 | 1/10/14 | 88 | 5043 | 1 |
| 1 | 11 | 1/11/14 | 188 | 5239 | 1 |

Stock data

The screenshot shows the IBM Cognos Analytics interface with the 'Inventory Module' selected. The 'Data module' pane on the left lists 'Stock' as the selected data source. The main grid displays 11 rows of data with columns for M_Data, Row Id, Year, sales, Stock, and Price. The 'Stock' column is highlighted with a blue border.

| 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 |
| 1 | 8 | 1/8/14 | 321 | 4104 | 1 |
| 1 | 9 | 1/9/14 | 125 | 4459 | 1 |
| 1 | 10 | 1/10/14 | 88 | 5043 | 1 |
| 1 | 11 | 1/11/14 | 188 | 5239 | 1 |

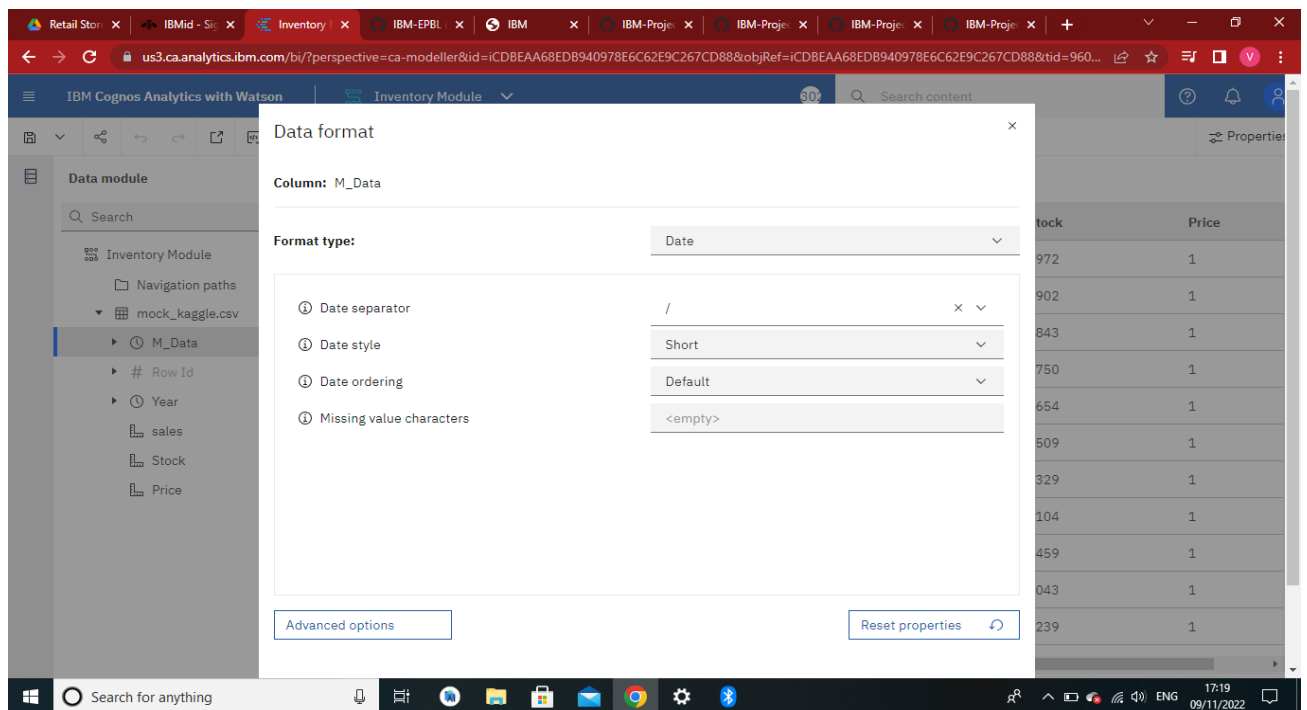
Price data



The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists the 'Inventory Module' and its contents, including 'mock_kaggle.csv', 'M_Data', 'Row Id', 'Year', 'sales', 'Stock', and 'Price'. The 'Price' column is selected. The main area displays a table with the following data:

| Row Id | Year | sales | Stock | Price |
|--------|---------|-------|-------|-------|
| 1 | 1/1/14 | 0 | 4972 | 1 |
| 2 | 1/2/14 | 70 | 4902 | 1 |
| 3 | 1/3/14 | 59 | 4843 | 1 |
| 4 | 1/4/14 | 93 | 4750 | 1 |
| 5 | 1/5/14 | 96 | 4654 | 1 |
| 6 | 1/6/14 | 145 | 4509 | 1 |
| 7 | 1/7/14 | 179 | 4329 | 1 |
| 8 | 1/8/14 | 321 | 4104 | 1 |
| 9 | 1/9/14 | 125 | 4459 | 1 |
| 10 | 1/10/14 | 88 | 5043 | 1 |
| 11 | 1/11/14 | 188 | 5239 | 1 |

Month format data



The screenshot shows the 'Data format' dialog box in IBM Cognos Analytics. The 'Column' is 'M_Data'. The 'Format type' is set to 'Date'. The dialog includes the following settings:

- Date separator: /
- Date style: Short
- Date ordering: Default
- Missing value characters: <empty>

The background shows the same data table as the previous screenshot, with the 'Price' column highlighted.

Year format data

The screenshot shows the IBM Cognos Analytics interface with the 'Data format' dialog open for the 'Year' column. The dialog has a 'Column: Year' header and a 'Format type:' dropdown set to 'Date'. Below this, there are four settings: 'Date separator' (set to '/'), 'Date style' (set to 'Short'), 'Date ordering' (set to 'Default'), and 'Missing value characters' (set to '<empty>'). At the bottom of the dialog are 'Advanced options' and 'Reset properties' buttons. In the background, a table with columns 'Stock' and 'Price' is visible, showing data for various items.

| Stock | Price |
|-------|-------|
| 972 | 1 |
| 902 | 1 |
| 843 | 1 |
| 750 | 1 |
| 654 | 1 |
| 609 | 1 |
| 329 | 1 |
| 104 | 1 |
| 459 | 1 |
| 043 | 1 |
| 239 | 1 |

Sales format data

The screenshot shows the IBM Cognos Analytics interface with the 'Data format' dialog open for the 'sales' column. The dialog has a 'Column: sales' header and a 'Format type:' dropdown set to 'Number'. Below this, there are five settings: 'Number of decimal places' (set to '0'), 'Negative sign symbol' (set to 'Default'), 'Use thousands separator' (set to 'No'), 'Negative sign position' (set to 'Default'), and 'Missing value characters' (set to '<empty>'). At the bottom of the dialog are 'Advanced options' and 'Reset properties' buttons. In the background, a table with columns 'Stock' and 'Price' is visible, showing data for various items.

| Stock | Price |
|-------|-------|
| 972 | 1 |
| 902 | 1 |
| 843 | 1 |
| 750 | 1 |
| 654 | 1 |
| 609 | 1 |
| 329 | 1 |
| 104 | 1 |
| 459 | 1 |
| 043 | 1 |
| 239 | 1 |

Stock format data

The screenshot shows the IBM Cognos Analytics interface with the 'Inventory Module' selected. A 'Data format' dialog box is open for the 'Stock' column. The 'Format type' is set to 'Number'. The dialog includes the following settings:

| Property | Value |
|--------------------------|---------|
| Number of decimal places | 0 |
| Negative sign symbol | Default |
| Use thousands separator | No |
| Negative sign position | Default |
| Missing value characters | <empty> |

The background shows a table with 'Stock' and 'Price' columns. The 'Stock' column contains values like 972, 902, 843, 750, 654, 509, 329, 104, 459, 043, 239. The 'Price' column contains the value 1 for all rows.

Price format data

The screenshot shows the IBM Cognos Analytics interface with the 'Inventory Module' selected. A 'Data format' dialog box is open for the 'Price' column. The 'Format type' is set to 'Number'. The dialog includes the following settings:

| Property | Value |
|--------------------------|---------|
| Number of decimal places | 0 |
| Negative sign symbol | Default |
| Use thousands separator | No |
| Negative sign position | Default |
| Missing value characters | <empty> |

The background shows a table with the 'Price' column. The 'Price' column contains the value 1 for all rows.

Prepared data link:

https://us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my_folders%2FInventory%2BModule