

Project Development Phase Delivery of Sprint-1

Team ID	PNT2022TMID39737
Project Name	Retail Store Stock Inventory Analytics

Project Development Phase:

Sprint-1:

- Data Collection
- Data Preparation

Sprint-2:

- Data Exploration

Sprint-3:

- Dashboard Creation

Sprint-4:

- Report Creation
- Story Creation

Retail Store Stock Inventory Analytics

Project Contributors

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TEAM ID: PNT2022TMID39737

Sprint-1:

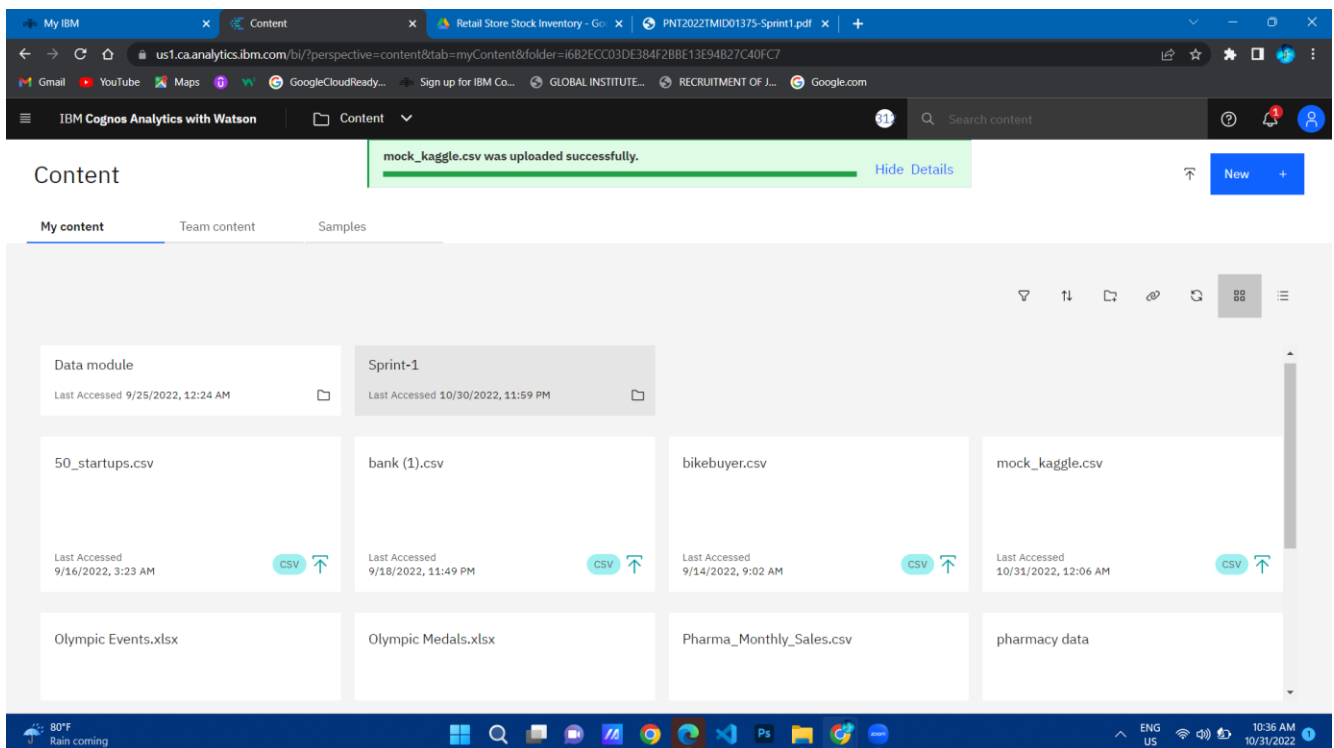
Data Collection:

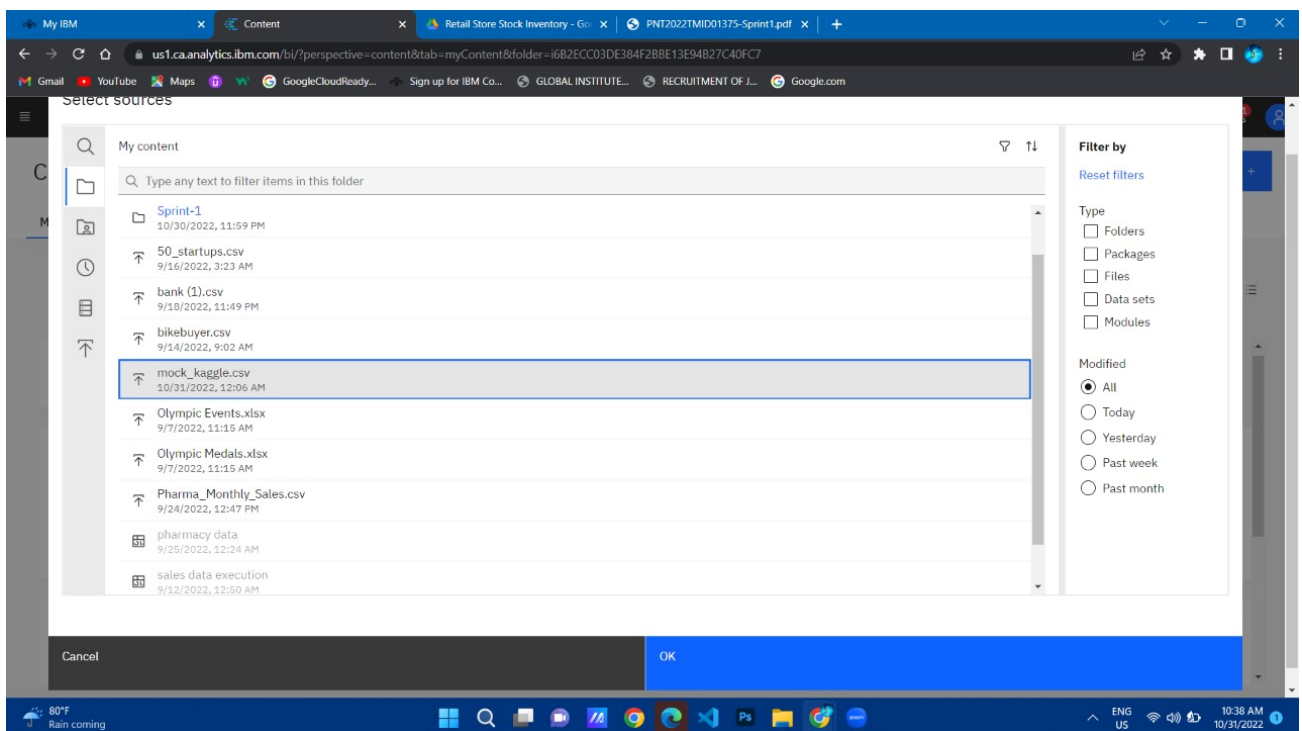
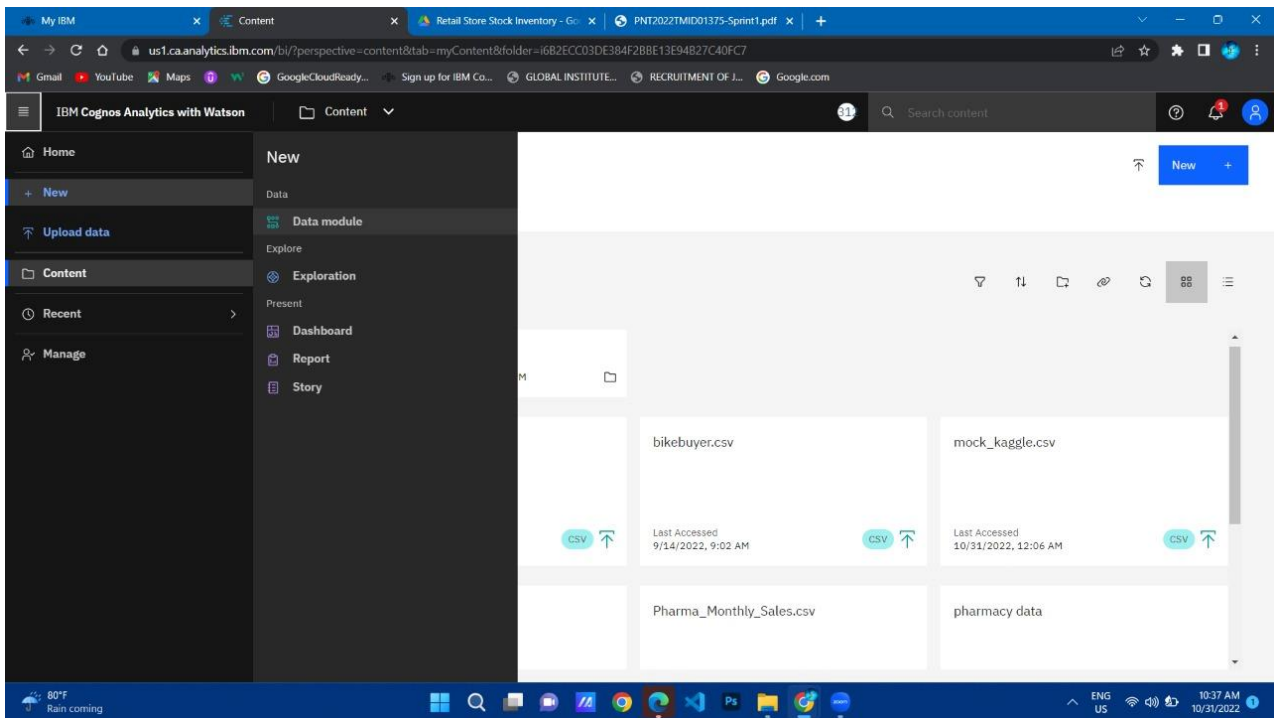
Download the Dataset

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

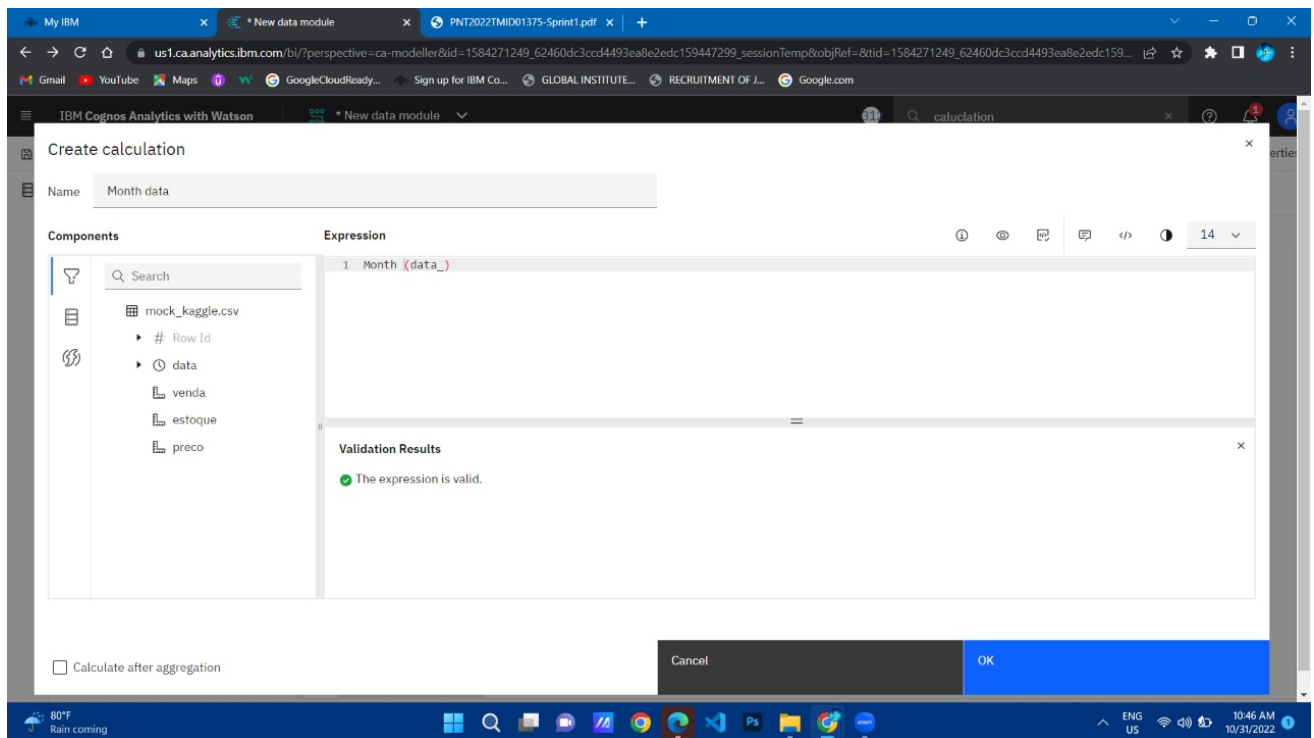
Load the Dataset:

Tool used – IBM Cognos





Month data:



The screenshot shows the main interface of IBM Cognos Analytics. The 'Data module' is selected, and the 'Grid' view is active. The table displays the results of the 'Month data' calculation, showing 13 rows of data. The columns are: 'Month data', 'Row Id', 'data', 'venda', 'estoque', and 'preco'.

Month data	Row Id	data	venda	estoque	preco
1	1	2014-01-01	0	4972	1.29
1	2	2014-01-02	70	4902	1.29
1	3	2014-01-03	59	4843	1.29
1	4	2014-01-04	93	4750	1.29
1	5	2014-01-05	96	4654	1.29
1	6	2014-01-06	145	4509	1.29
1	7	2014-01-07	179	4329	1.29
1	8	2014-01-08	321	4104	1.29
1	9	2014-01-09	125	4459	1.09
1	10	2014-01-10	88	5043	1.09
1	11	2014-01-11	188	5239	1.09
1	12	2014-01-12	121	5118	1.09
1	13	2014-01-13	134	4984	1.09

Revenue data:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Sources' pane lists 'mock_kaggle[1].csv'. The 'Data module' pane shows a tree structure with 'revenue data' selected. The main 'Grid' pane displays a table with columns: 'revenue data', 'Row Id', 'data', 'venda', and 'estoque'. The table contains 13 rows of data.

revenue data	Row Id	data	venda	estoque
0.5	1	2014-01-01	0	4972
1	2	2014-01-02	70	4902
1.5	3	2014-01-03	59	4843
2	4	2014-01-04	93	4750
2.5	5	2014-01-05	96	4654
3	6	2014-01-06	145	4509
3.5	7	2014-01-07	179	4329
4	8	2014-01-08	321	4104
4.5	9	2014-01-09	125	4459
5	10	2014-01-10	88	5043
5.5	11	2014-01-11	188	5239
6	12	2014-01-12	121	5118
6.5	13	2014-01-13	134	4984

Year data:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Sources' pane lists 'mock_kaggle[1].csv'. The 'Data module' pane shows a tree structure with 'Year' selected. The main 'Grid' pane displays a table with columns: 'revenue data', 'Row Id', 'Year', 'venda', and 'estoque'. The table contains 13 rows of data.

revenue data	Row Id	Year	venda	estoque
0.5	1	2014-01-01	0	4972
1	2	2014-01-02	70	4902
1.5	3	2014-01-03	59	4843
2	4	2014-01-04	93	4750
2.5	5	2014-01-05	96	4654
3	6	2014-01-06	145	4509
3.5	7	2014-01-07	179	4329
4	8	2014-01-08	321	4104
4.5	9	2014-01-09	125	4459
5	10	2014-01-10	88	5043
5.5	11	2014-01-11	188	5239
6	12	2014-01-12	121	5118
6.5	13	2014-01-13	134	4984

Stock data:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Sources' pane lists 'mock_kaggle[1].csv'. The 'Data module' pane shows a tree structure with 'New data module' at the top, followed by 'Navigation paths', 'mock_kaggle[1].csv', 'revenue data', '# Row Id', 'Year', 'Sales', 'stock' (highlighted), and 'preco'. The main 'Grid' pane displays a table with columns: 'venue data', 'Row Id', 'Year', 'Sales', and 'stock'. The 'stock' column is highlighted. The table contains 13 rows of data.

venue data	Row Id	Year	Sales	stock
5	1	2014-01-01	0	4972
	2	2014-01-02	70	4902
5	3	2014-01-03	59	4843
	4	2014-01-04	93	4750
5	5	2014-01-05	96	4654
	6	2014-01-06	145	4509
5	7	2014-01-07	179	4329
	8	2014-01-08	321	4104
5	9	2014-01-09	125	4459
	10	2014-01-10	88	5043
5	11	2014-01-11	188	5239
	12	2014-01-12	121	5118
5	13	2014-01-13	134	4984

Sales data:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Sources' pane lists 'mock_kaggle[1].csv'. The 'Data module' pane shows a tree structure with 'New data module' at the top, followed by 'Navigation paths', 'mock_kaggle[1].csv', 'revenue data', '# Row Id', 'Year', 'Sales' (highlighted), 'estoque', and 'preco'. The main 'Grid' pane displays a table with columns: 'revenue data', 'Row Id', 'Year', 'Sales', and 'estoque'. The 'Sales' column is highlighted. The table contains 13 rows of data.

revenue data	Row Id	Year	Sales	estoque
0.5	1	2014-01-01	0	4972
1	2	2014-01-02	70	4902
1.5	3	2014-01-03	59	4843
2	4	2014-01-04	93	4750
2.5	5	2014-01-05	96	4654
3	6	2014-01-06	145	4509
3.5	7	2014-01-07	179	4329
4	8	2014-01-08	321	4104
4.5	9	2014-01-09	125	4459
5	10	2014-01-10	88	5043
5.5	11	2014-01-11	188	5239
6	12	2014-01-12	121	5118
6.5	13	2014-01-13	134	4984

Price data:

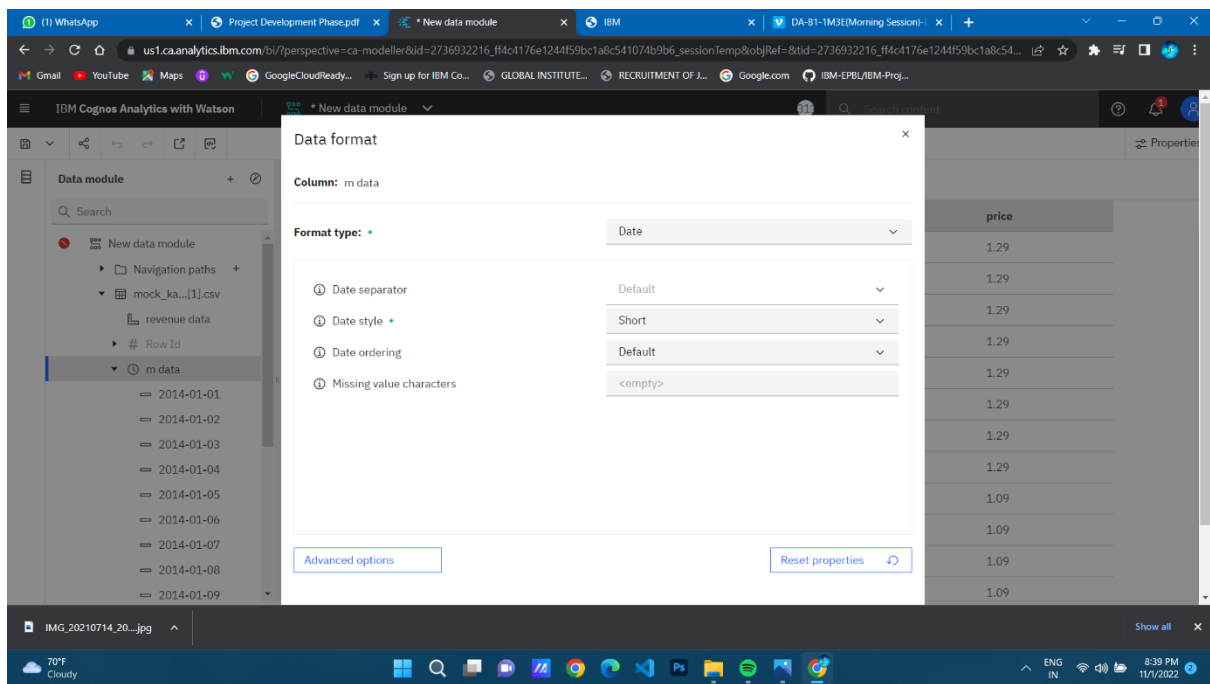
The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Sources' pane lists 'mock_kaggle[1].csv'. The 'Data module' pane shows a tree structure with 'price' selected. The main grid displays a table with columns: row Id, Year, Sales, stock, and price. The data represents daily stock prices for 2014.

row Id	Year	Sales	stock	price
0	2014-01-01	0	4972	1.29
1	2014-01-02	70	4902	1.29
2	2014-01-03	59	4843	1.29
3	2014-01-04	93	4750	1.29
4	2014-01-05	96	4654	1.29
5	2014-01-06	145	4509	1.29
6	2014-01-07	179	4329	1.29
7	2014-01-08	321	4104	1.29
8	2014-01-09	125	4459	1.09
9	2014-01-10	88	5043	1.09
10	2014-01-11	188	5239	1.09
11	2014-01-12	121	5118	1.09
12	2014-01-13	134	4984	1.09

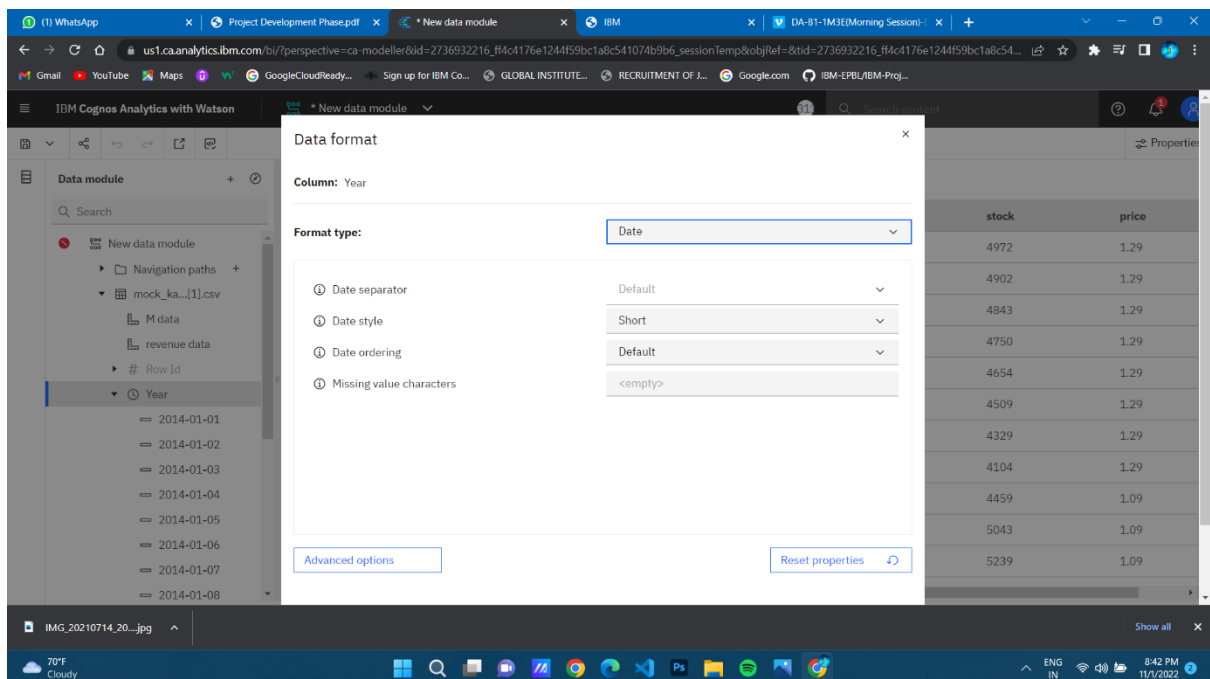
Month-Format Data:

The screenshot shows the IBM Cognos Analytics interface. The 'Data module' pane shows a tree structure with 'm data' selected. The main grid displays a table with columns: revenue data, Row Id, m data, Sales, stock, and price. The data represents monthly stock prices for 2014.

revenue data	Row Id	m data	Sales	stock	price
0.5	1	1/1/14	0	4972	1.29
1	2	1/2/14	70	4902	1.29
1.5	3	1/3/14	59	4843	1.29
2	4	1/4/14	93	4750	1.29
2.5	5	1/5/14	96	4654	1.29
3	6	1/6/14	145	4509	1.29
3.5	7	1/7/14	179	4329	1.29
4	8	1/8/14	321	4104	1.29
4.5	9	1/9/14	125	4459	1.09
5	10	1/10/14	88	5043	1.09
5.5	11	1/11/14	188	5239	1.09
6	12	1/12/14	121	5118	1.09



Year-Format Data:



IBM Cognos Analytics with Watson

New data module

Search

New data module

- Navigation paths
- mock_kas...[1].csv
 - M data
 - revenue data
 - # Row Id
 - Year
 - 2014-01-01
 - 2014-01-02
 - 2014-01-03
 - 2014-01-04
 - 2014-01-05
 - 2014-01-06
 - 2014-01-07
 - 2014-01-08

Grid

M data	revenue data	Row Id	Year	Sales	stock	price
0.5	0.5	1	Jan 1, 2014	0	4972	1.29
1	1	2	Jan 2, 2014	70	4902	1.29
1.5	1.5	3	Jan 3, 2014	59	4843	1.29
2	2	4	Jan 4, 2014	93	4750	1.29
2.5	2.5	5	Jan 5, 2014	96	4654	1.29
3	3	6	Jan 6, 2014	145	4509	1.29
3.5	3.5	7	Jan 7, 2014	179	4329	1.29
4	4	8	Jan 8, 2014	321	4104	1.29
4.5	4.5	9	Jan 9, 2014	125	4459	1.09
5	5	10	Jan 10, 2014	88	5043	1.09
5.5	5.5	11	Jan 11, 2014	188	5239	1.09

70°F Cloudy

ENG IN

8:42 PM 11/1/2022

Stock-Format Data:

IBM Cognos Analytics with Watson

New data module

Search

New data module

- 2014-01-05
- 2014-01-06
- 2014-01-07
- 2014-01-08
- 2014-01-09
- 2014-01-10
- 2014-01-11
- 2014-01-12
- 2014-01-13
- 2014-01-14
- 2014-01-15
- Load more ...
- Sales
- stock
- price

Data format

Column: stock

Format type: Number

Number of decimal places: Default

Negative sign symbol: Default

Use thousands separator: No

Negative sign position: Default

Missing value characters: <empty>

Advanced options

Reset properties

stock	price
4972	1.29
4902	1.29
4843	1.29
4750	1.29
4654	1.29
4509	1.29
4329	1.29
4104	1.29
4459	1.09
5043	1.09
5239	1.09

70°F Cloudy

ENG IN

8:46 PM 11/1/2022

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists a date range from 2014-01-05 to 2014-01-15, with 'Sales', 'stock', and 'price' as available dimensions. The main area displays a table with the following columns: 'M data', 'revenue data', 'Row Id', 'Year', 'Sales', 'stock', and 'price'. The 'stock' column is highlighted with a blue border.

M data	revenue data	Row Id	Year	Sales	stock	price
0.5	0.5	1	Jan 1, 2014	0	4972	1.29
1	1	2	Jan 2, 2014	70	4902	1.29
1.5	1.5	3	Jan 3, 2014	59	4843	1.29
2	2	4	Jan 4, 2014	93	4750	1.29
2.5	2.5	5	Jan 5, 2014	96	4654	1.29
3	3	6	Jan 6, 2014	145	4509	1.29
3.5	3.5	7	Jan 7, 2014	179	4329	1.29
4	4	8	Jan 8, 2014	321	4104	1.29
4.5	4.5	9	Jan 9, 2014	125	4459	1.09
5	5	10	Jan 10, 2014	88	5043	1.09
5.5	5.5	11	Jan 11, 2014	188	5239	1.09

Sales-Format Data:

The screenshot shows the 'Data format' dialog box for the 'Sales' column. The 'Format type' is set to 'Number'. The 'Advanced options' section is expanded, showing settings for decimal places, negative sign symbol, thousands separator, negative sign position, and missing value characters.

Data format

Column: Sales

Format type: Number

Advanced options:

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

Buttons: Advanced options, Reset properties

The screenshot shows the IBM Cognos Analytics interface. On the left, a 'Data module' sidebar lists dates from 2014-01-05 to 2014-01-15, and a list of fields: Sales, stock, and price. The main area displays a table with columns: M data, revenue data, Row Id, Year, Sales, stock, and price. The 'Sales' column is highlighted.

M data	revenue data	Row Id	Year	Sales	stock	price
0.5	0.5	1	Jan 1, 2014	0	4972	1.29
1	1	2	Jan 2, 2014	70	4902	1.29
1.5	1.5	3	Jan 3, 2014	59	4843	1.29
2	2	4	Jan 4, 2014	93	4750	1.29
2.5	2.5	5	Jan 5, 2014	96	4654	1.29
3	3	6	Jan 6, 2014	145	4509	1.29
3.5	3.5	7	Jan 7, 2014	179	4329	1.29
4	4	8	Jan 8, 2014	321	4104	1.29
4.5	4.5	9	Jan 9, 2014	125	4459	1.09
5	5	10	Jan 10, 2014	88	5043	1.09
5.5	5.5	11	Jan 11, 2014	188	5239	1.09

Price-Format Data:

The screenshot shows the 'Column: price' format dialog box in IBM Cognos Analytics. 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>'. There are buttons for 'Advanced options', 'Reset properties', 'Cancel', and 'OK'.

stock	price
4972	1.29
4902	1.29
4843	1.29
4750	1.29
4654	1.29
4509	1.29
4329	1.29
4104	1.29
4459	1.09
5043	1.09
5239	1.09

Z

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists various data sources, including 'revenue data', 'stock', and 'price'. The main area displays a table with the following data:

revenue data	Row Id	Year	Sales	stock	price
0.5	1	Jan 1, 2014	0	4972	1.29
1	2	Jan 2, 2014	70	4902	1.29
1.5	3	Jan 3, 2014	59	4843	1.29
2	4	Jan 4, 2014	93	4750	1.29
2.5	5	Jan 5, 2014	96	4654	1.29
3	6	Jan 6, 2014	145	4509	1.29
3.5	7	Jan 7, 2014	179	4329	1.29
4	8	Jan 8, 2014	321	4104	1.29
4.5	9	Jan 9, 2014	125	4459	1.09
5	10	Jan 10, 2014	88	5043	1.09
5.5	11	Jan 11, 2014	188	5239	1.09

Revenue-Format Data:

The screenshot shows the 'Data format' dialog box in IBM Cognos Analytics. The 'Column' is set to 'revenue data'. 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>

The background shows the same data table as the first screenshot, with the 'stock' and 'price' columns visible.

The screenshot displays the IBM Cognos Analytics web interface. On the left, the 'Data module' sidebar shows a tree structure with 'New data module' expanded, containing 'Navigation paths', 'mock_kas...[1].csv', 'M data', and 'revenue data'. The 'revenue data' module is selected, showing a table with columns: Row Id, Year, Sales, stock, and price. The table contains 11 rows of data for January 2014. The bottom of the screen shows a Windows taskbar with various application icons and a system tray indicating 8:49 PM on 11/1/2022.

Row Id	Year	Sales	stock	price
1	Jan 1, 2014	0	4972	1.29
1	Jan 2, 2014	70	4902	1.29
2	Jan 3, 2014	59	4843	1.29
2	Jan 4, 2014	93	4750	1.29
3	Jan 5, 2014	96	4654	1.29
3	Jan 6, 2014	145	4509	1.29
4	Jan 7, 2014	179	4329	1.29
4	Jan 8, 2014	321	4104	1.29
5	Jan 9, 2014	125	4459	1.09
5	Jan 10, 2014	88	5043	1.09
6	Jan 11, 2014	188	5239	1.09

Prepared data link –

https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my_folders%2Fdata%2Bpreparation%2Band%2Bcollection