

Project Development Phase Delivery of Sprint-1

Team ID	PNT2022TMID52205
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: PNT2022TMID52205

Sprint-1:

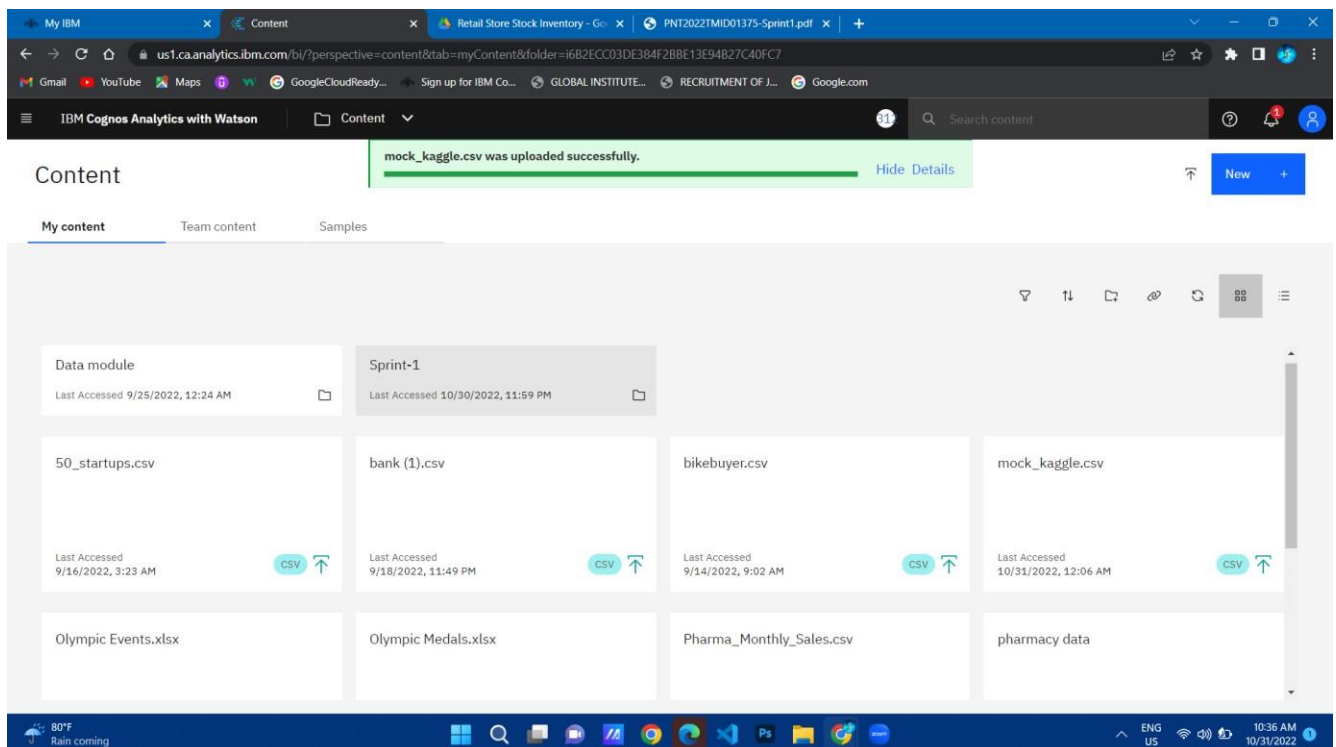
Data Collection:

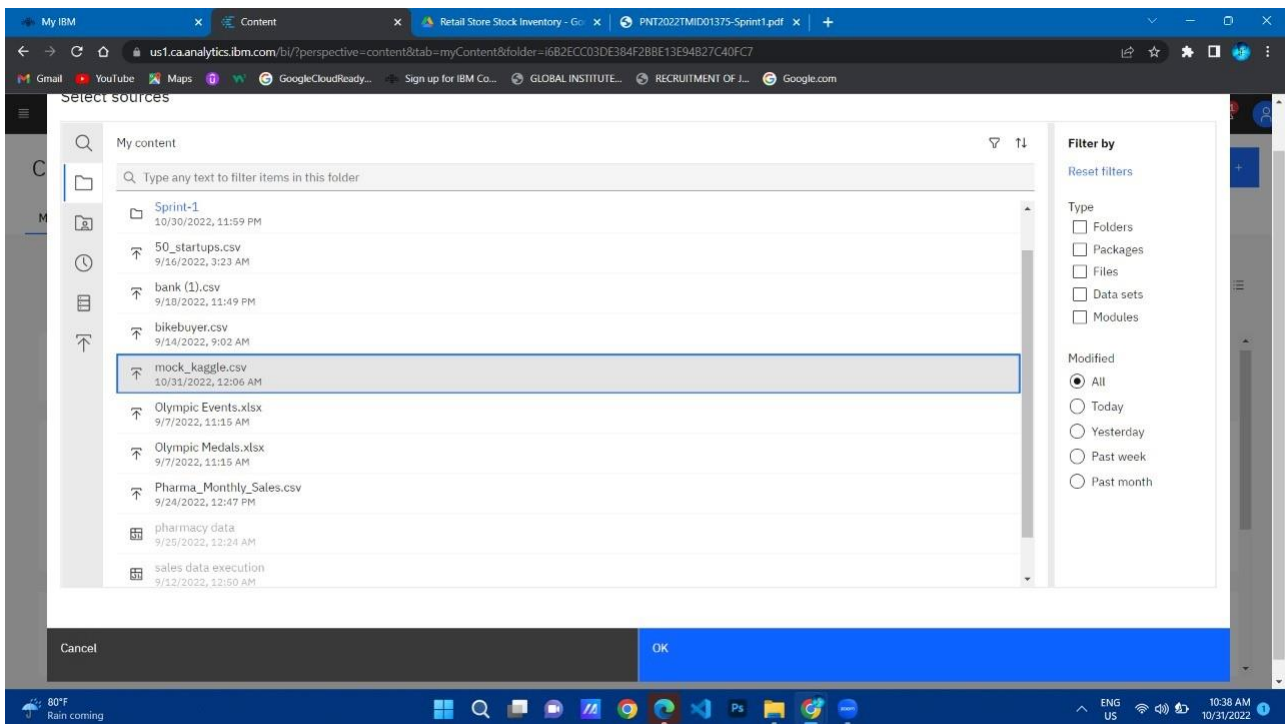
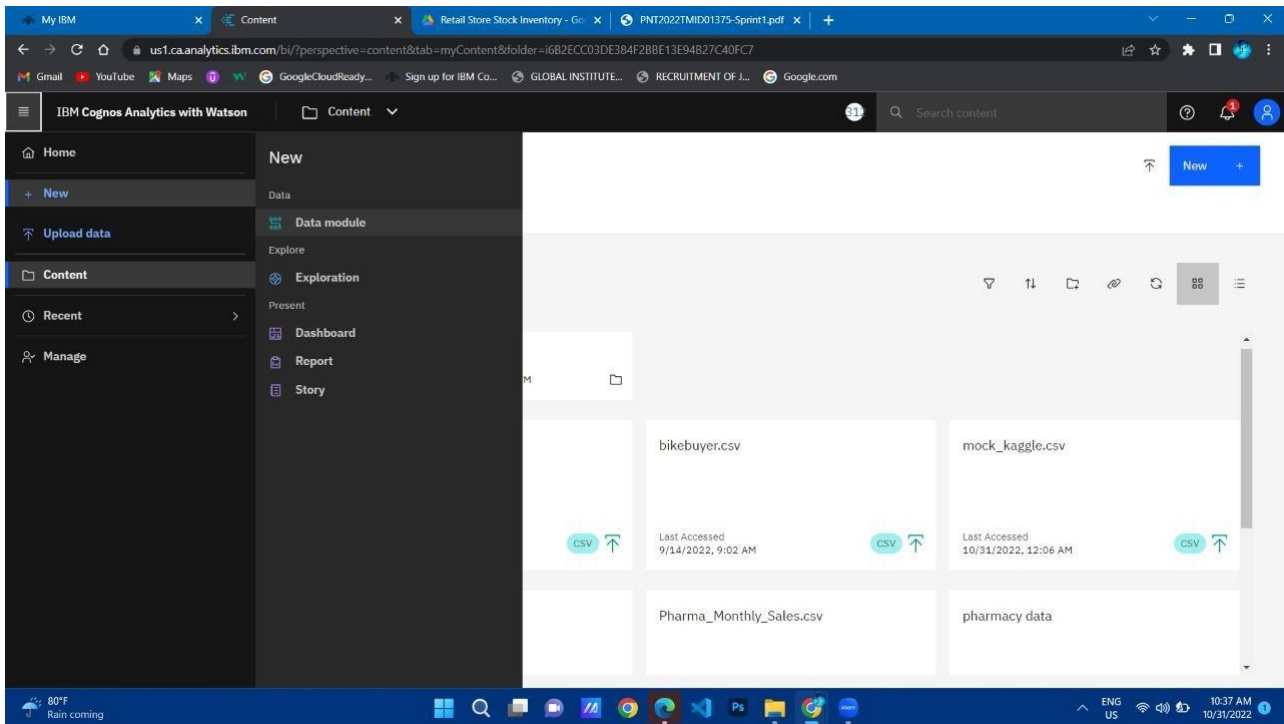
Download the Dataset

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

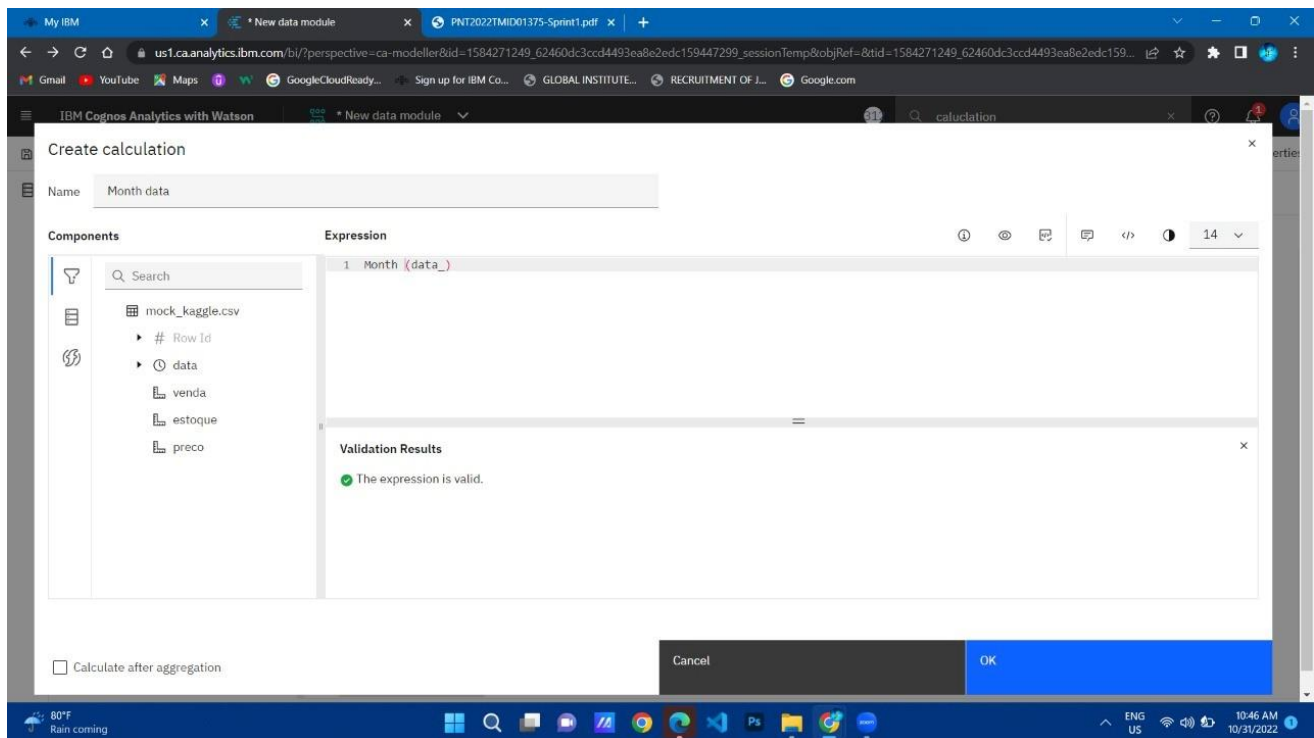
Load the Dataset:

Tool used – IBM Cognos





Month data:



The screenshot shows the main interface of IBM Cognos Analytics. The 'Month data' calculation is selected in the 'Data module' panel on the left. The main area displays a table with the following data:

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' view 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' view 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:

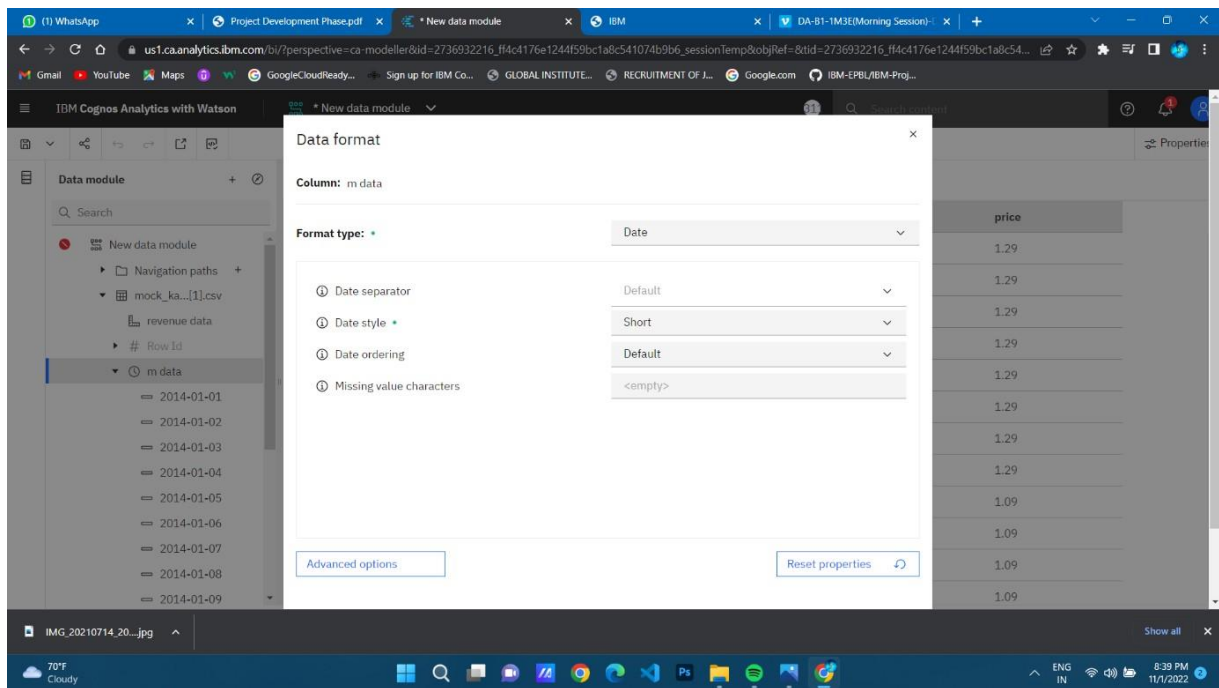
The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Sources' pane lists 'mock_kaggle[1].csv'. The 'Data module' pane shows a tree structure with 'revenue data' expanded, containing 'Row Id', 'Year', 'Sales', 'stock', and 'price'. The 'price' field is selected. The main grid displays a table with the following data:

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

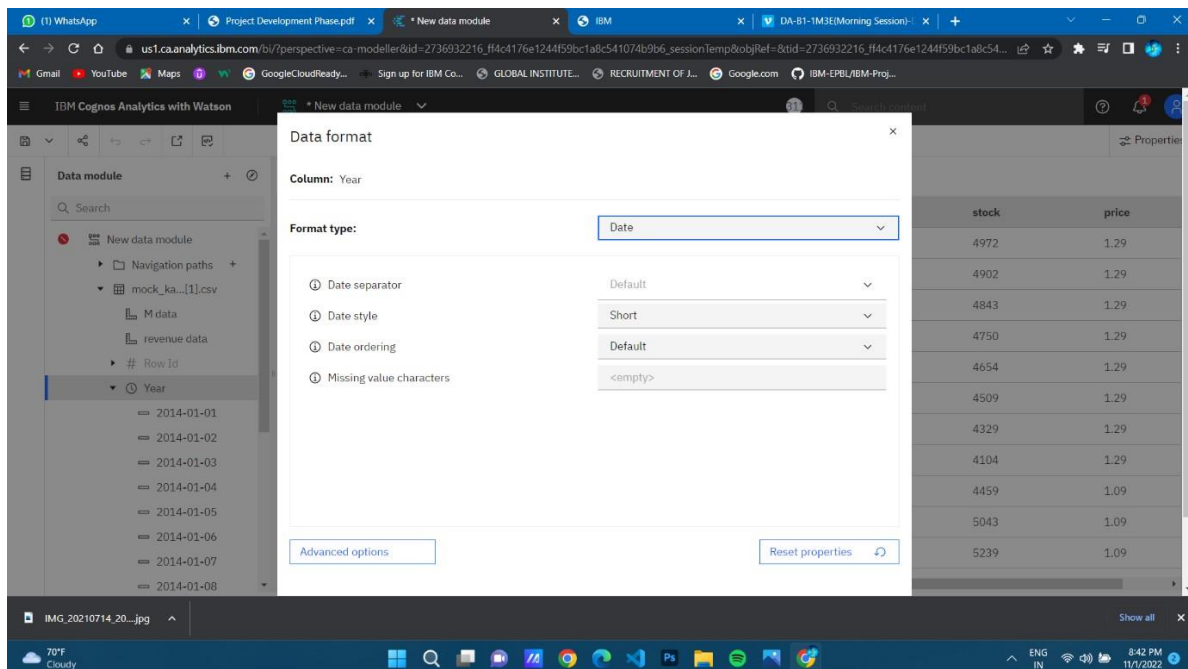
Month-Format Data:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane shows a tree structure with 'revenue data' expanded, containing 'Row Id', 'm data', and a list of dates from '2014-01-01' to '2014-01-09'. The 'm data' field is selected. The main grid displays a table with the following data:

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:



The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane displays a tree structure with 'New data module' at the top, followed by 'Navigation paths', 'mock_kas...[1].csv', 'M data', 'revenue data', '# Row Id', and 'Year'. The 'Year' folder is expanded, showing dates from 2014-01-01 to 2014-01-08. The main area shows a table with columns: 'M data', 'revenue data', 'Row Id', 'Year', 'Sales', 'stock', and 'price'. The table contains 11 rows of data.

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

Stock-Format Data:

The screenshot shows the IBM Cognos Analytics interface with the 'Data format' dialog box open for the 'stock' column. The dialog box has a 'Column: stock' header and a 'Format type' dropdown set to 'Number'. Below this, there are several settings: 'Number of decimal places' (Default), 'Negative sign symbol' (Default), 'Use thousands separator' (No), 'Negative sign position' (Default), and 'Missing value characters' (<empty>). There are 'Advanced options' and 'Reset properties' buttons at the bottom of the dialog. The background shows the same table as the first screenshot, but with the 'stock' and 'price' columns highlighted.

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

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 columns: Sales, stock, and price. The 'stock' column is selected. The main area displays a table with the following data:

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 following options are visible:

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

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

IBM Cognos Analytics with Watson

Data module

Grid Relationships Custom tables

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

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Price-Format Data:

Column: price

Format type: Number

Number of decimal places: 2

Negative sign symbol: Default

Use thousands separator: No

Negative sign position: Default

Missing value characters: <empty>

Advanced options Reset properties

Cancel 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

70°F Cloudy

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Z

IBM Cognos Analytics with Watson

Data module

Grid Relationships Custom tables

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:

IBM Cognos Analytics with Watson

Data module

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

Data format

Column: revenue data

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

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

