

Project Development Phase Delivery of Sprint-1

Team ID	PNT2022TMID01782
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 Management

PROJECT COORDINATORS

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TEAM ID: PNT2022TMID01782

Sprint-1:

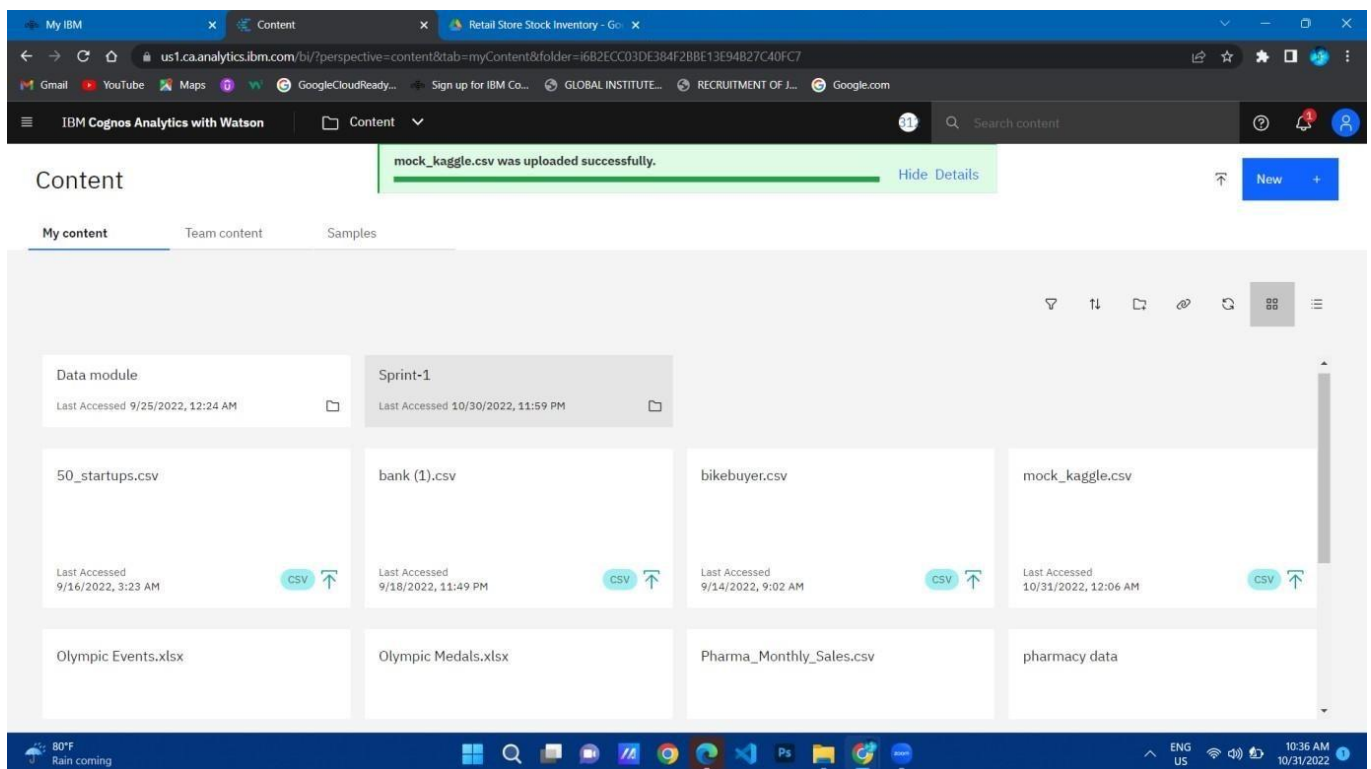
Data Collection:

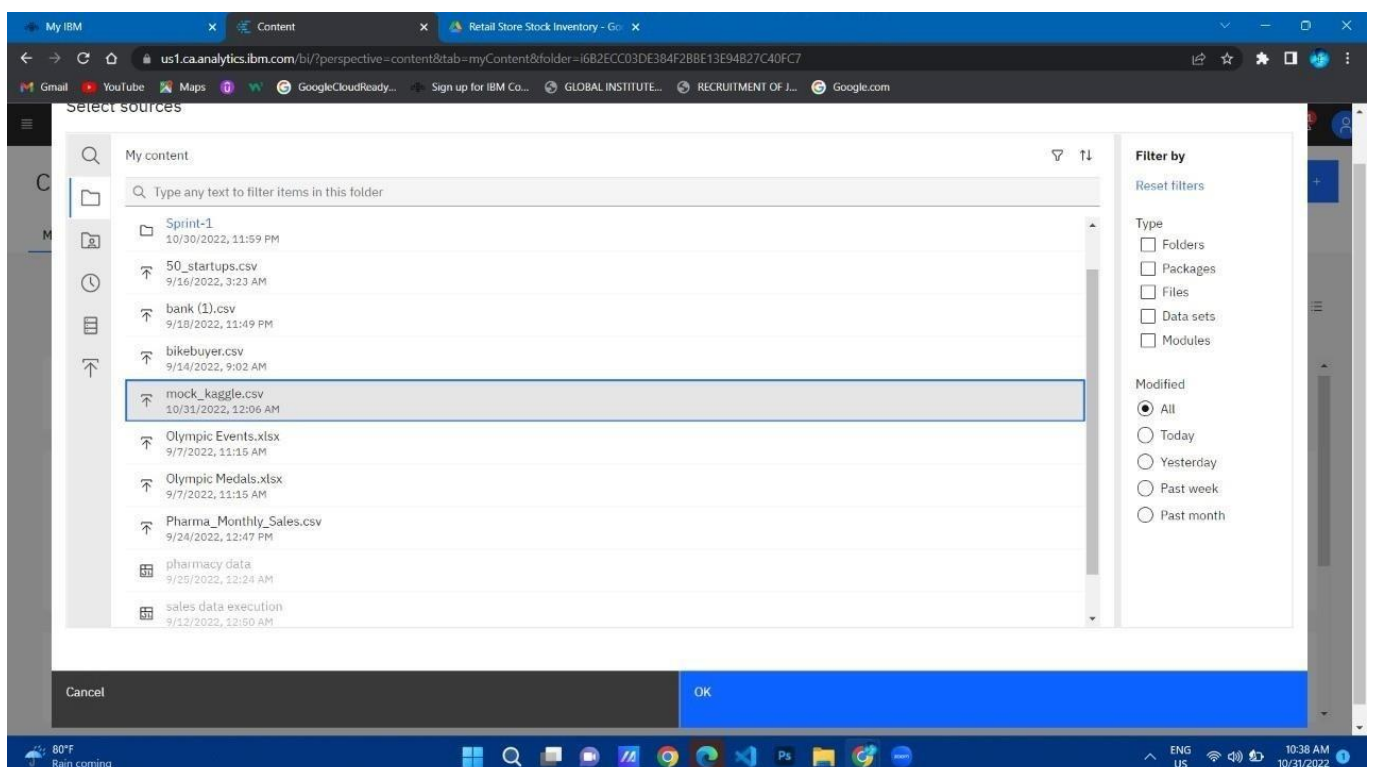
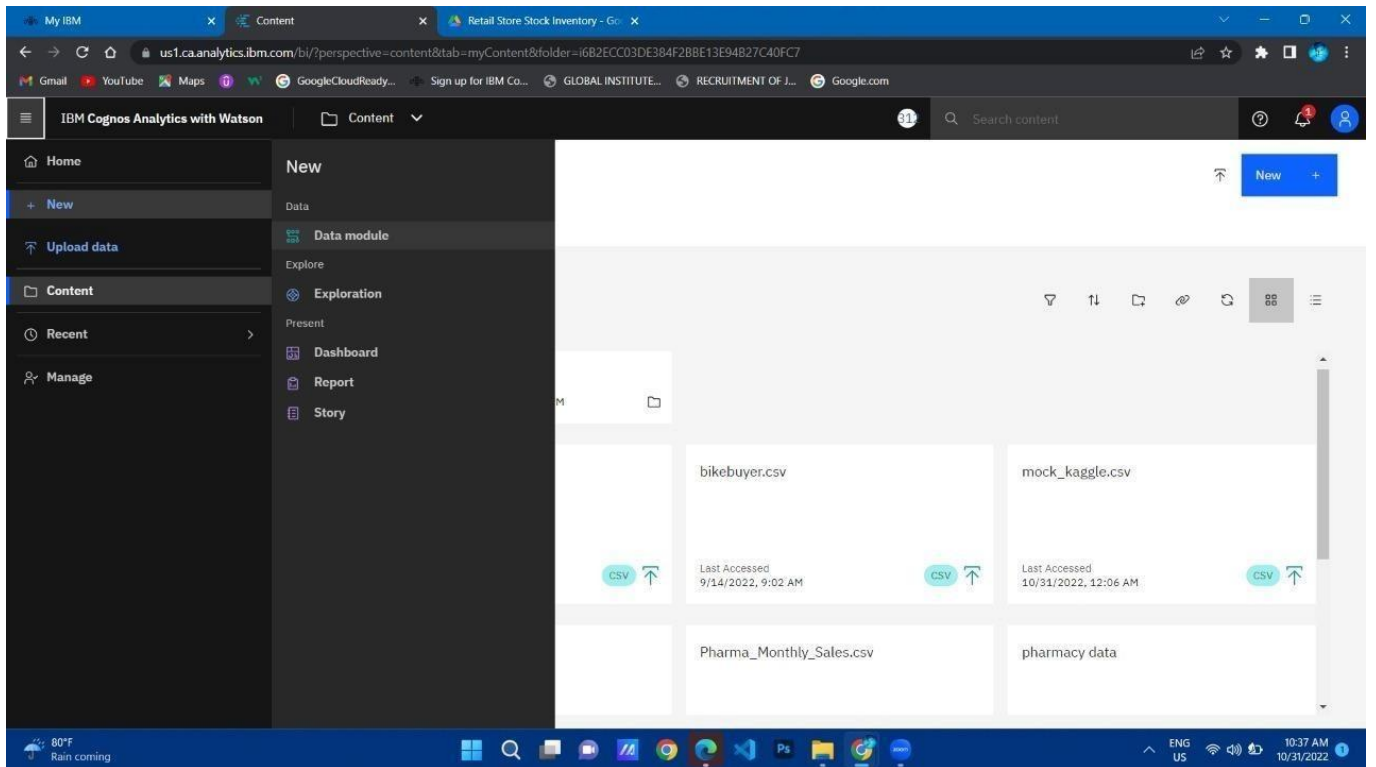
Download the Dataset

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

Load the Dataset:

Tool used – IBM Cognos





Month data:

The screenshot shows the 'Create calculation' dialog box in IBM Cognos Analytics. The 'Name' field is set to 'Month data'. The 'Expression' field contains the formula '1 Month (data_)'. A 'Validation Results' section at the bottom indicates 'The expression is valid.' with a green checkmark. The 'Components' panel on the left shows a tree structure for 'mock_kaggle.csv' with fields: '# Row Id', 'data', 'venda', 'estoque', and 'preco'. At the bottom, there is a checkbox for 'Calculate after aggregation' and 'Cancel' and 'OK' buttons.

My IBM

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=1584271249_62460dc3ccd4493ea8e2edc159447299_sessionTemp&objRef=&tid=1584271249_62460dc3ccd4493ea8e2edc159...

IBM Cognos Analytics with Watson

Create calculation

Name: Month data

Components

- mock_kaggle.csv
 - # Row Id
 - data
 - venda
 - estoque
 - preco

Expression

1 Month (data_)

Validation Results

✓ The expression is valid.

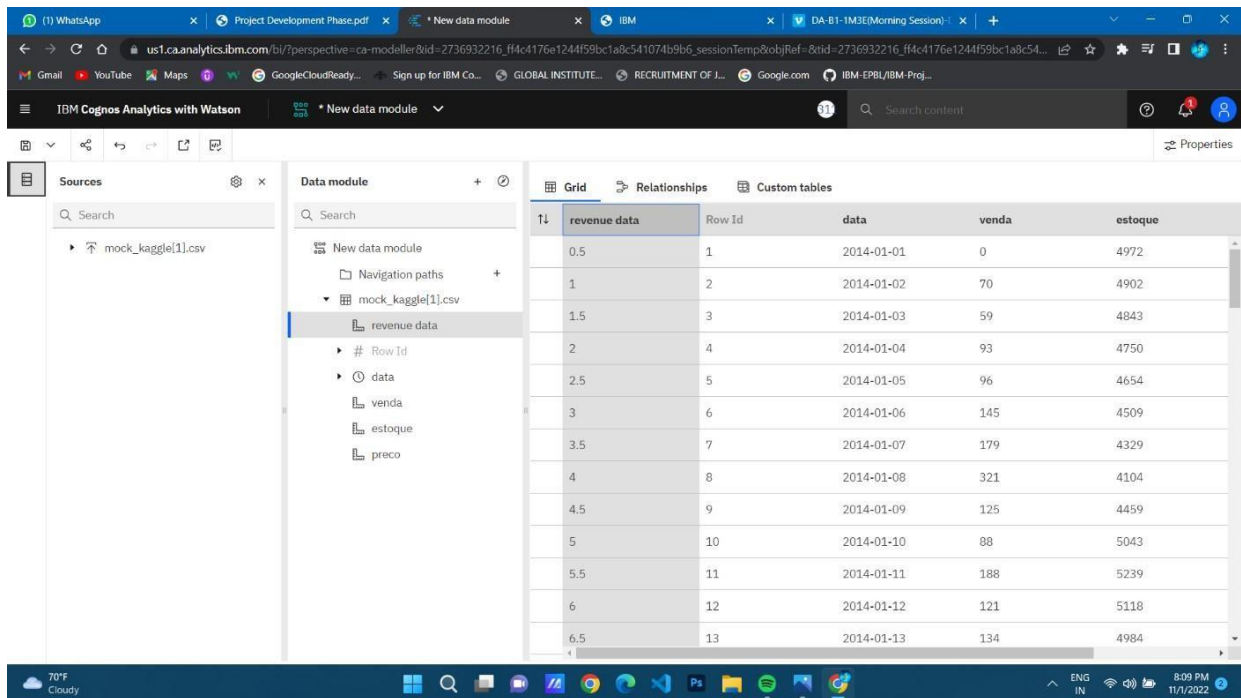
☐ Calculate after aggregation

Cancel OK

The screenshot shows the 'Data module' view in IBM Cognos Analytics. The 'Grid' tab is selected, displaying a table with 13 rows of data. The columns are: 'Month data', 'Row Id', 'data', 'venda', 'estoque', and 'preco'. The data represents monthly sales for January 2014.

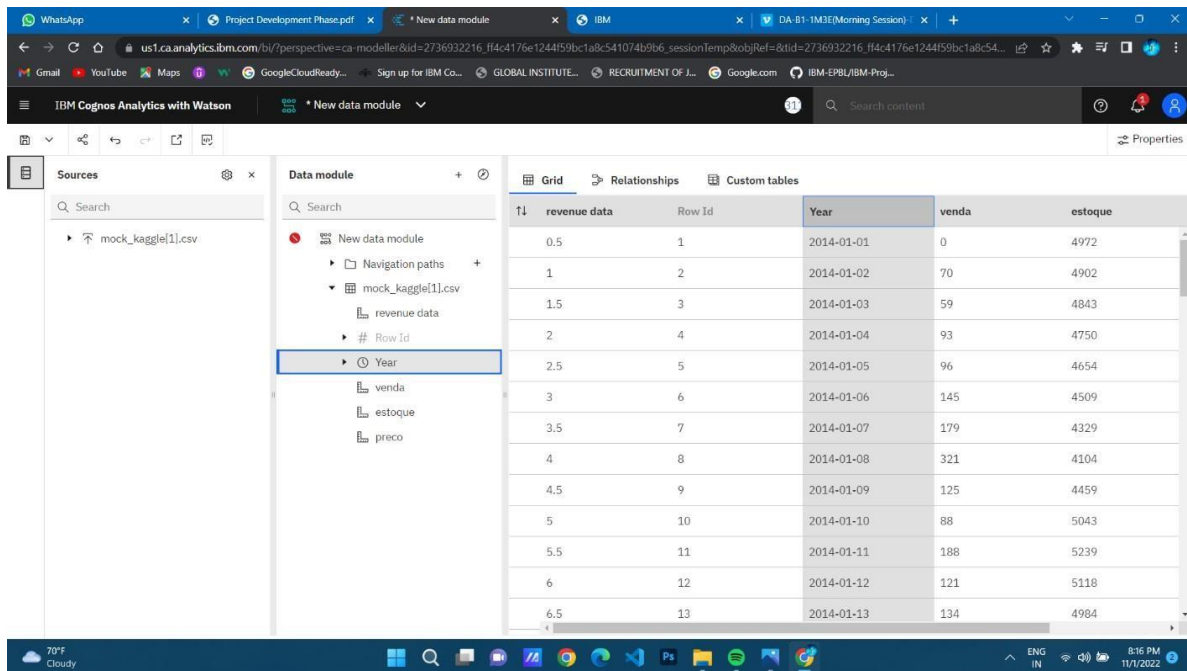
Month data	Row Id	data	venda	estoque	preco
1	1	2014-01-01	0	4972	1.29
1	2	2014-01-02	70	4902	1.29
1	3	2014-01-03	59	4843	1.29
1	4	2014-01-04	93	4750	1.29
1	5	2014-01-05	96	4654	1.29
1	6	2014-01-06	145	4509	1.29
1	7	2014-01-07	179	4329	1.29
1	8	2014-01-08	321	4104	1.29
1	9	2014-01-09	125	4459	1.09
1	10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



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:



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 the following 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 the following 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:

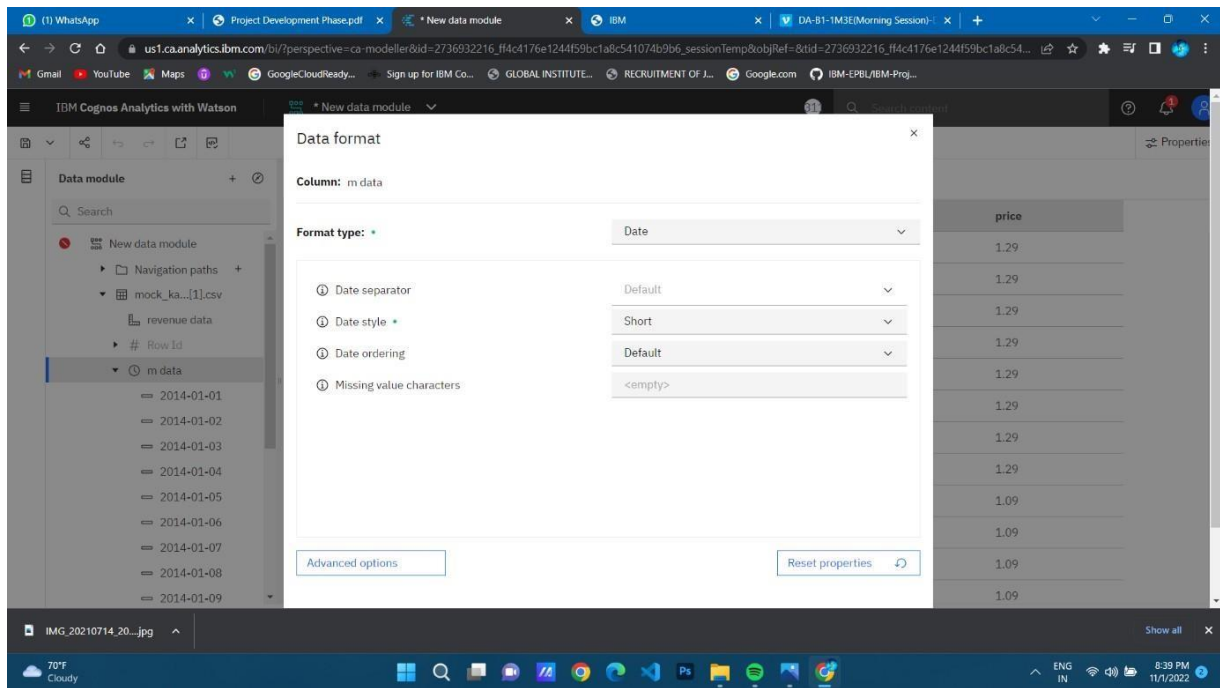
The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Sources' pane lists 'mock_kaggle[1].csv'. The 'Data module' pane shows a tree structure with 'revenue data' expanded, containing 'Row Id', 'Year', 'Sales', 'stock', and 'price'. The 'Grid' view displays a table with the following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

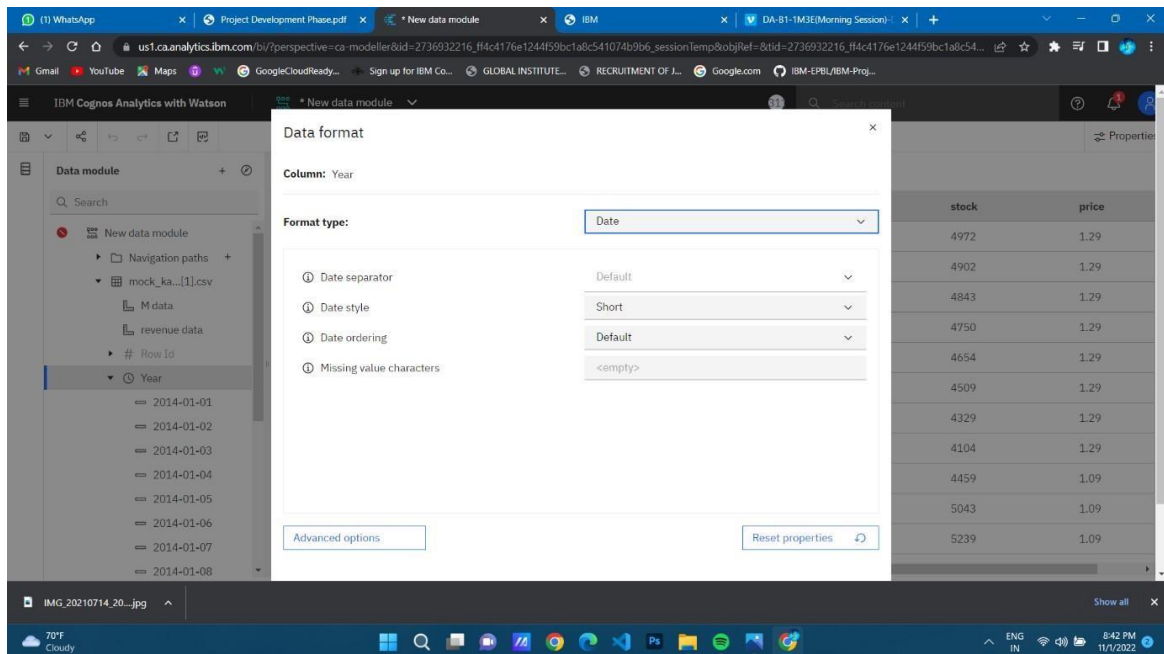
Month-Format Data:

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', 'Sales', 'stock', and 'price'. The 'Grid' view 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_kal[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 'Grid' view of a data table with columns: 'M data', 'revenue data', 'Row Id', 'Year', 'Sales', 'stock', and 'price'. The data is as follows:

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 'Format type' dropdown set to 'Number'. Below it, there are several options with dropdown menus:

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

At the bottom of the dialog box, there are 'Advanced options' and 'Reset properties' buttons. In the background, the 'stock' column of the data table is highlighted, showing values: 4972, 4902, 4843, 4750, 4654, 4509, 4329, 4104, 4459, 5043, 5239.

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 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 in IBM Cognos Analytics. The 'Column' is set to 'Sales'. The 'Format type' is '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'.

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 data sources: Sales, stock, and price. The main area displays 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

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>'. The dialog box has 'Advanced options', 'Reset properties', 'Cancel', and 'OK' buttons.

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 dates from 2014-01-05 to 2014-01-15, and tables named 'Sales', 'stock', and 'price'. The main area displays a table with the following columns: 'revenue data', 'Row Id', 'Year', 'Sales', 'stock', and 'price'. The table contains 11 rows of 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 for the 'revenue data' 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.

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

IBM Cognos Analytics with Watson

Data module

Search

New data module

Navigation paths

mock_kal...[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

Relationships

Custom tables

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

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