

## **Project Development Phase Delivery of Sprint-1**

Team ID	PNT2022TMID50558
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

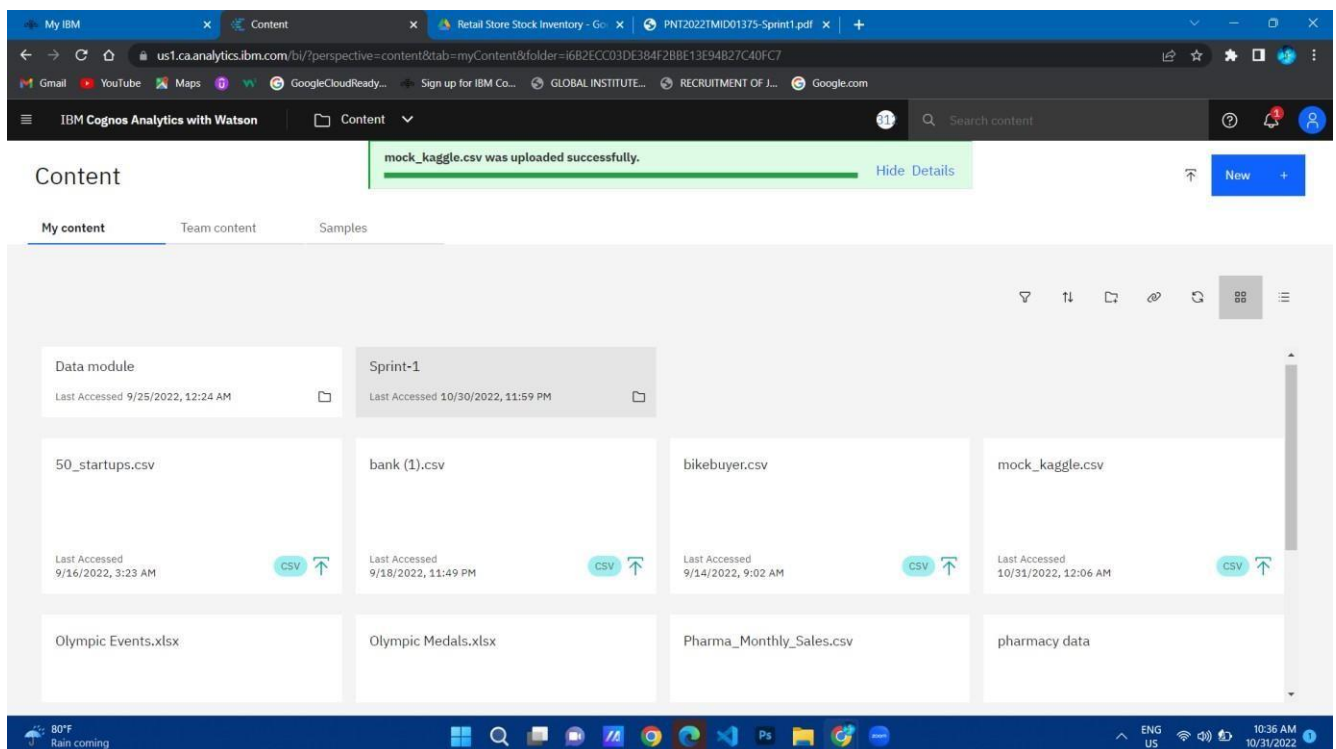
# TEAM ID: PNT2022TMID50558

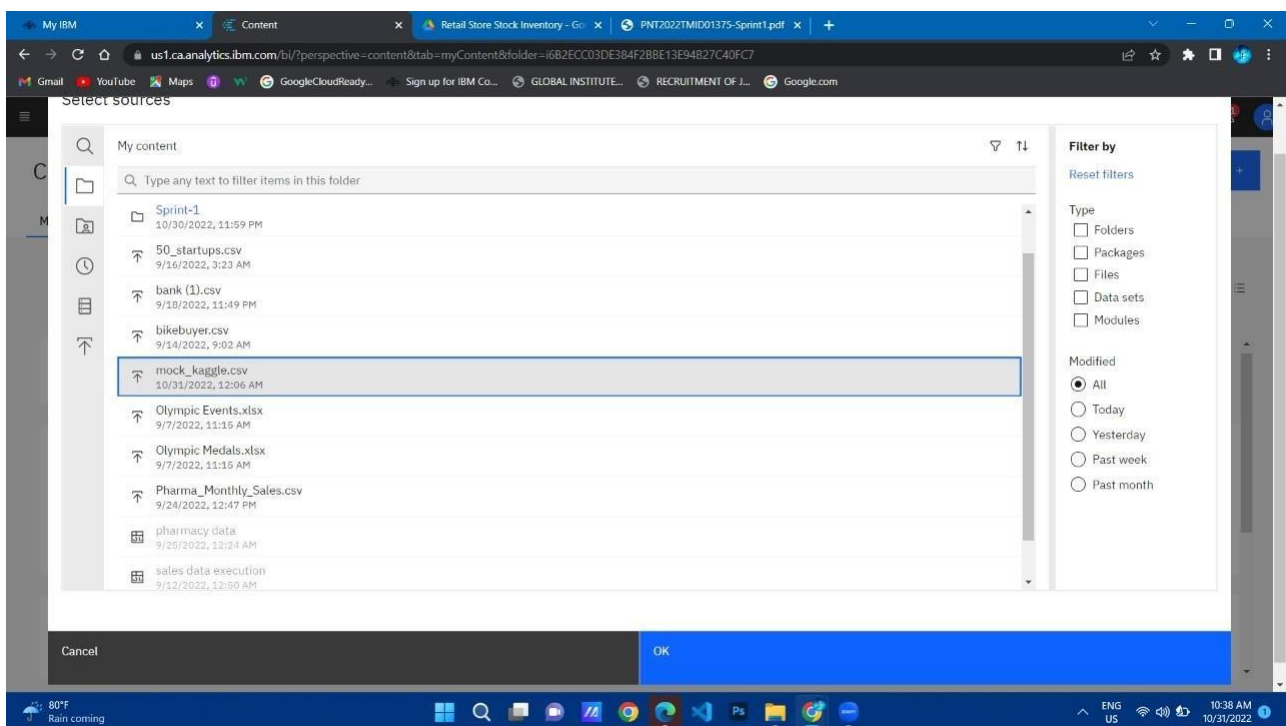
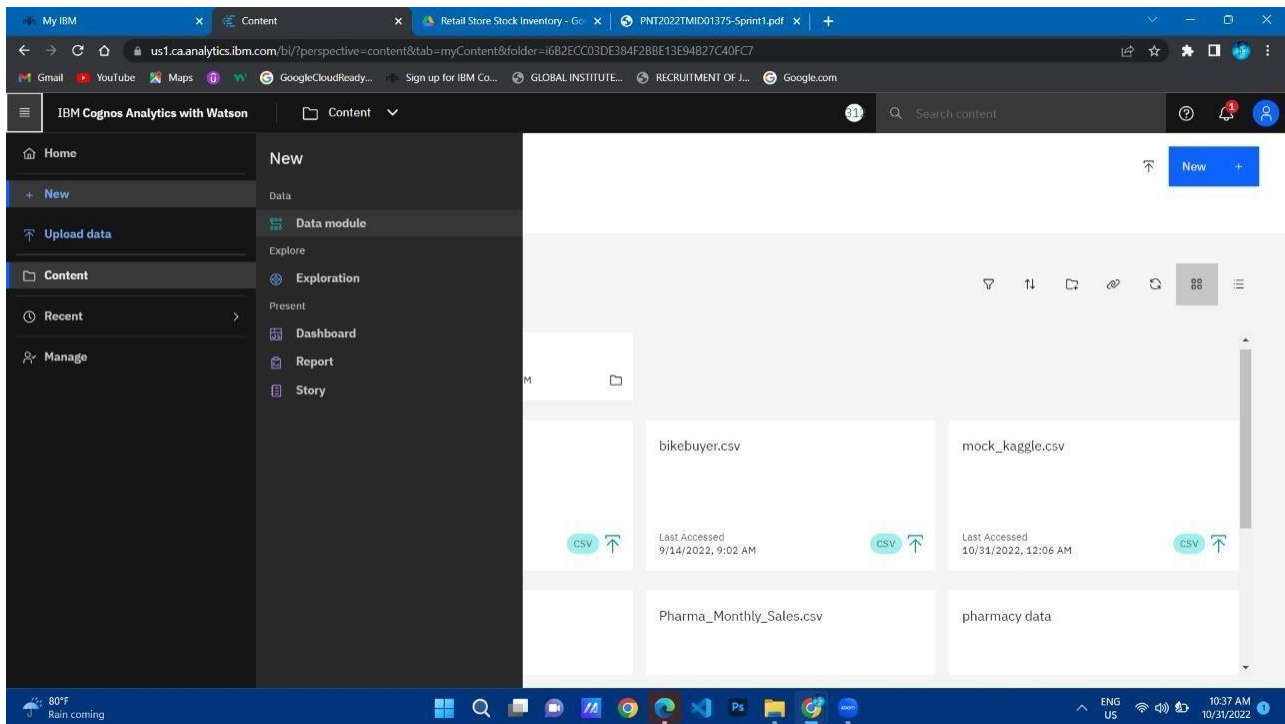
## Sprint-1:

### Data Collection

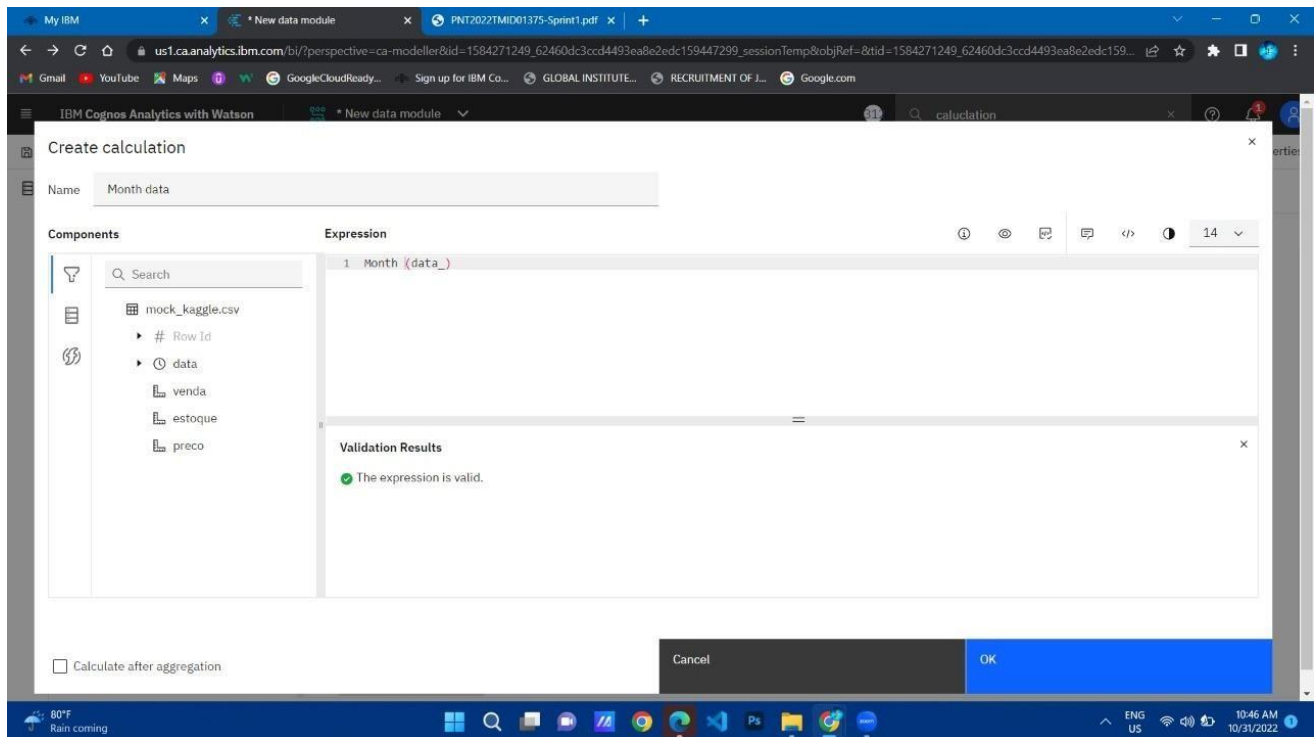
### Load the Dataset:

Tool used \_ IBM Cognos





# Month data:



The screenshot shows the main interface of IBM Cognos Analytics. The 'Data module' panel on the left shows a tree structure for 'mock\_kaggle.csv' with fields: '# Row Id', 'data', 'venda', 'estoque', and 'preco'. The 'Grid' view displays a table with the following data:

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

# Revenue data:

The screenshot shows the IBM Cognos Analytics interface. The 'Sources' panel on the left lists 'mock\_kaggle[1].csv'. The 'Data module' panel in the center shows a tree view with 'revenue data' selected. The 'Grid' panel on the right displays a table with 5 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. The 'Sources' panel on the left lists 'mock\_kaggle[1].csv'. The 'Data module' panel in the center shows a tree view with 'Year' selected. The 'Grid' panel on the right displays a table with 5 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. In the 'Data module' pane, the 'stock' column is selected. The main grid displays 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. In the 'Data module' pane, the 'Sales' column is selected. The main grid displays 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 'New data module' containing 'Navigation paths', 'mock\_kaggle[1].csv', 'revenue data', '# Row Id', 'Year', 'Sales', 'stock', and 'price'. The 'Grid' view displays a table with the following data:

rw 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 'New data module' containing 'Navigation paths', 'mock\_kaggle[1].csv', 'revenue data', '# Row Id', 'm data', and a list of dates from '2014-01-01' to '2014-01-09'. 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



Screenshot of IBM Cognos Analytics interface showing the 'Data format' dialog box for a column named 'm data'. The dialog box is open, displaying the 'Format type' dropdown set to 'Date'. Below this, the 'Date separator' is set to 'Default', 'Date style' is set to 'Short', 'Date ordering' is set to 'Default', and 'Missing value characters' is set to '<empty>'. The background shows a data table with columns 'price' and 'm data'.

price	m data
1.29	2014-01-01
1.29	2014-01-02
1.29	2014-01-03
1.29	2014-01-04
1.29	2014-01-05
1.29	2014-01-06
1.29	2014-01-07
1.29	2014-01-08
1.29	2014-01-09

## Year-Format Data:

Screenshot of IBM Cognos Analytics interface showing the 'Data format' dialog box for a column named 'Year'. The dialog box is open, displaying the 'Format type' dropdown set to 'Date'. Below this, the 'Date separator' is set to 'Default', 'Date style' is set to 'Short', 'Date ordering' is set to 'Default', and 'Missing value characters' is set to '<empty>'. The background shows a data table with columns 'stock' and 'price'.

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, the 'Data module' pane lists various data sources, including 'New data module', 'Navigation paths', 'mock\_kas...[1].csv', 'M data', 'revenue data', '# Row Id', and 'Year'. The 'Year' category is expanded, showing dates from 2014-01-01 to 2014-01-08. The main area displays a 'Grid' view of the data. The table has columns: 'M data', 'revenue data', 'Row Id', 'Year', 'Sales', 'stock', and 'price'. The data is organized into rows, with the 'Year' column 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

## Stock-Format Data:

The screenshot shows the IBM Cognos Analytics interface with the 'Data format' dialog box open. The dialog box is titled 'Data format' and shows the 'Column: stock'. The 'Format type' is set to 'Number'. The 'Number of decimal places' is set to 'Default'. 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. The background shows the same data table as the first screenshot, 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 three data sources: Sales, stock, and price. The main area displays a 'Grid' view of data. The table has 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'. Below this, several options are listed with their current settings:

- 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, there are buttons for '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

## 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

Z

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, along with 'Sales', 'stock', and 'price' categories. 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 in IBM Cognos Analytics. The 'Column' is set to 'revenue data'. The 'Format type' is 'Number'. The 'Number of decimal places' is set to 0. The 'Negative sign symbol' is 'Default'. The 'Use thousands separator' is set to 'No'. The 'Negative sign position' is 'Default'. The 'Missing value characters' are '<empty>'. There are 'Advanced options' and 'Reset properties' buttons at the bottom.

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

Search content

Properties

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

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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