

Project Development Phase

Delivery of Sprint-1

Date	29 October 2022
Team ID	PNT2022TNID39751
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

Magesh T

Ranjini S

Keerthivasan A

Anitha V

Sprint-1:

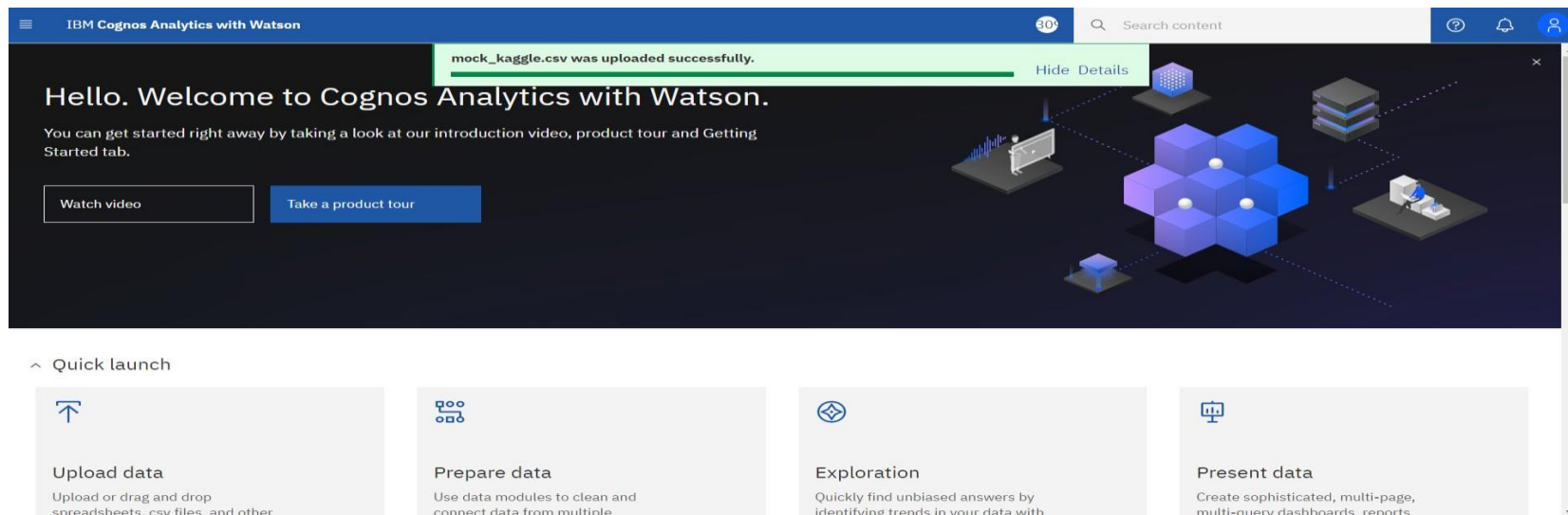
Data Collection:

Download the Dataset

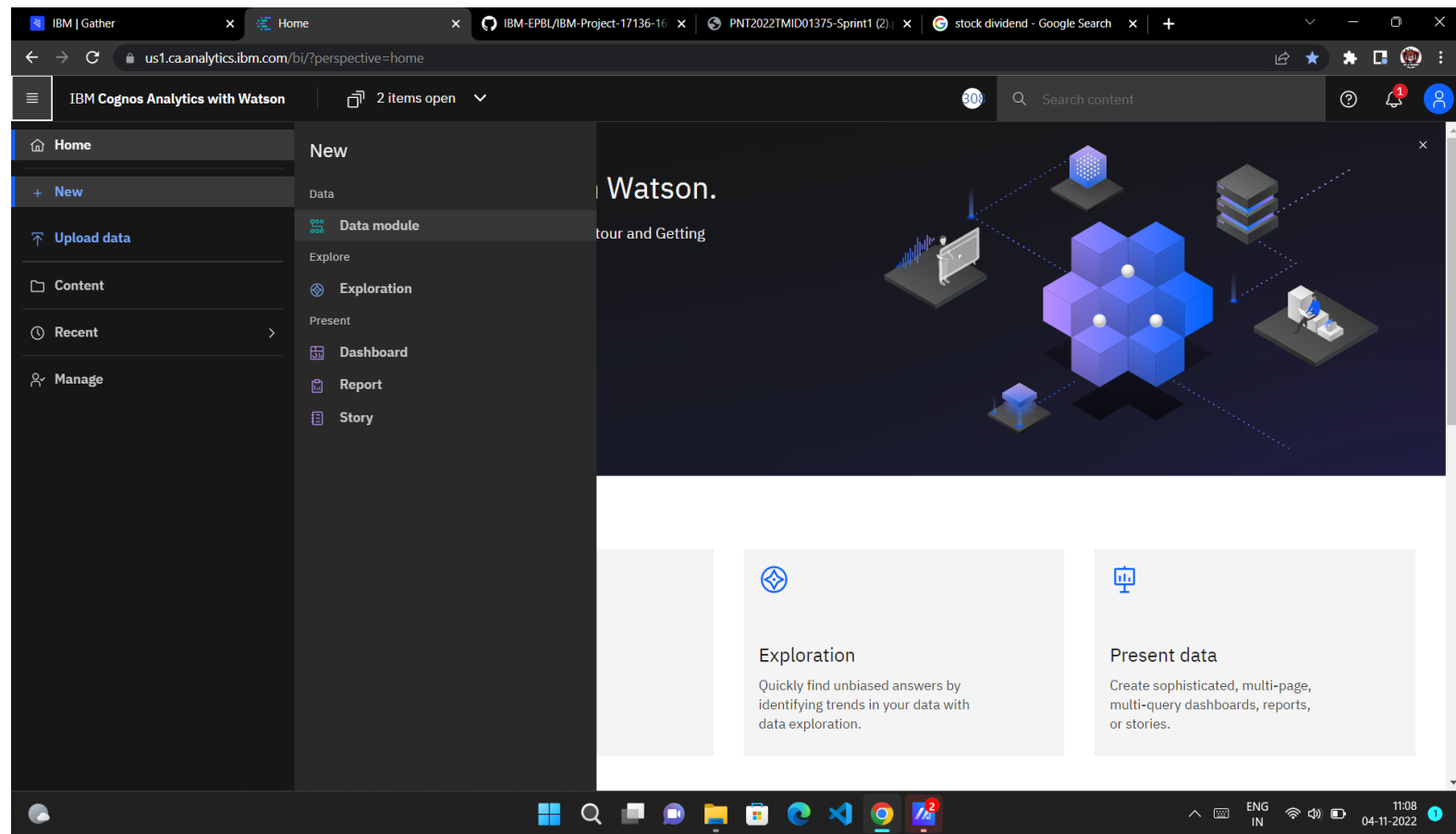
Dataset link - <https://drive.google.com/drive/folders/1kiL-5CHJmQvbk9VyFsuUs-myAupBZGNy>

Load the Dataset:

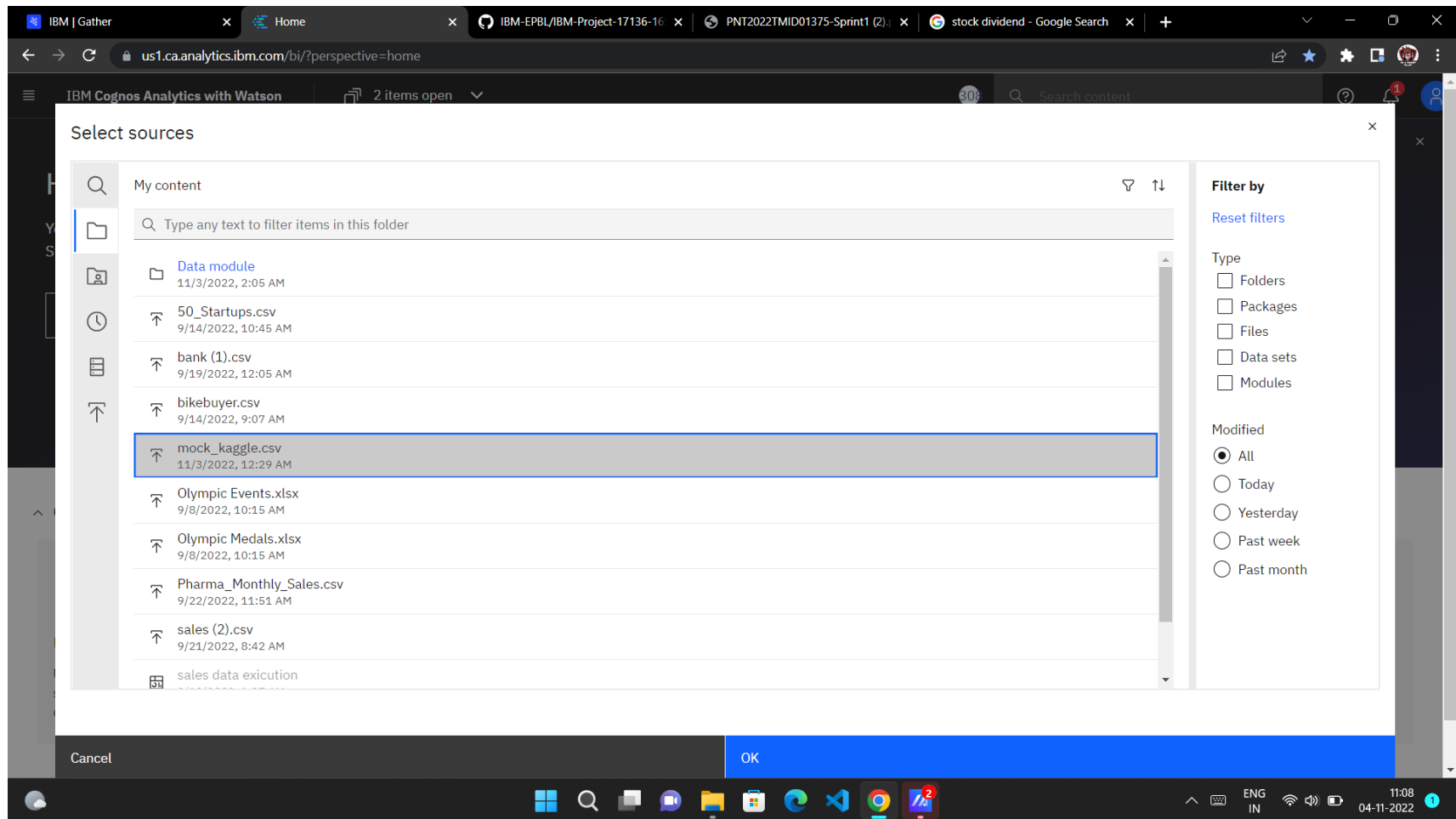
Tool used – IBM Cognos



Data Module



Mock_kaggle.csv File



Clean 0 values

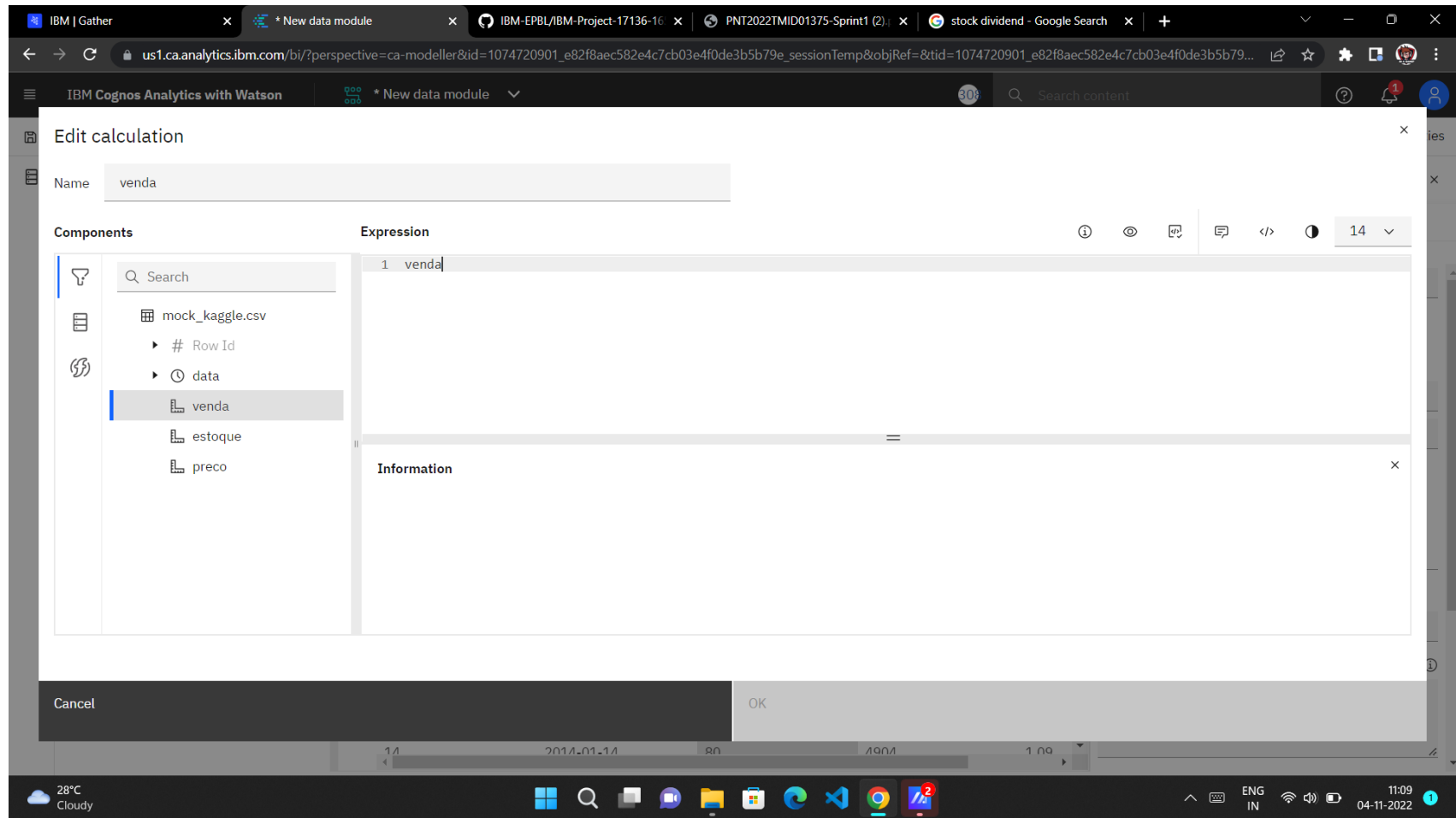
The screenshot displays the IBM Cognos Analytics interface. The central grid view shows a table with the following data:

Row Id	data	venda	estoque	preco
1	2014-01-01	0	4972	1.29
2	2014-01-02	70	4902	1.29
3	2014-01-03	59	4843	1.29
4	2014-01-04	93	4750	1.29
5	2014-01-05	96	4654	1.29
6	2014-01-06	145	4509	1.29
7	2014-01-07	179	4329	1.29
8	2014-01-08	321	4104	1.29
9	2014-01-09	125	4459	1.09
10	2014-01-10	88	5043	1.09
11	2014-01-11	188	5239	1.09
12	2014-01-12	121	5118	1.09
13	2014-01-13	134	4984	1.09
14	2014-01-14	80	4904	1.09

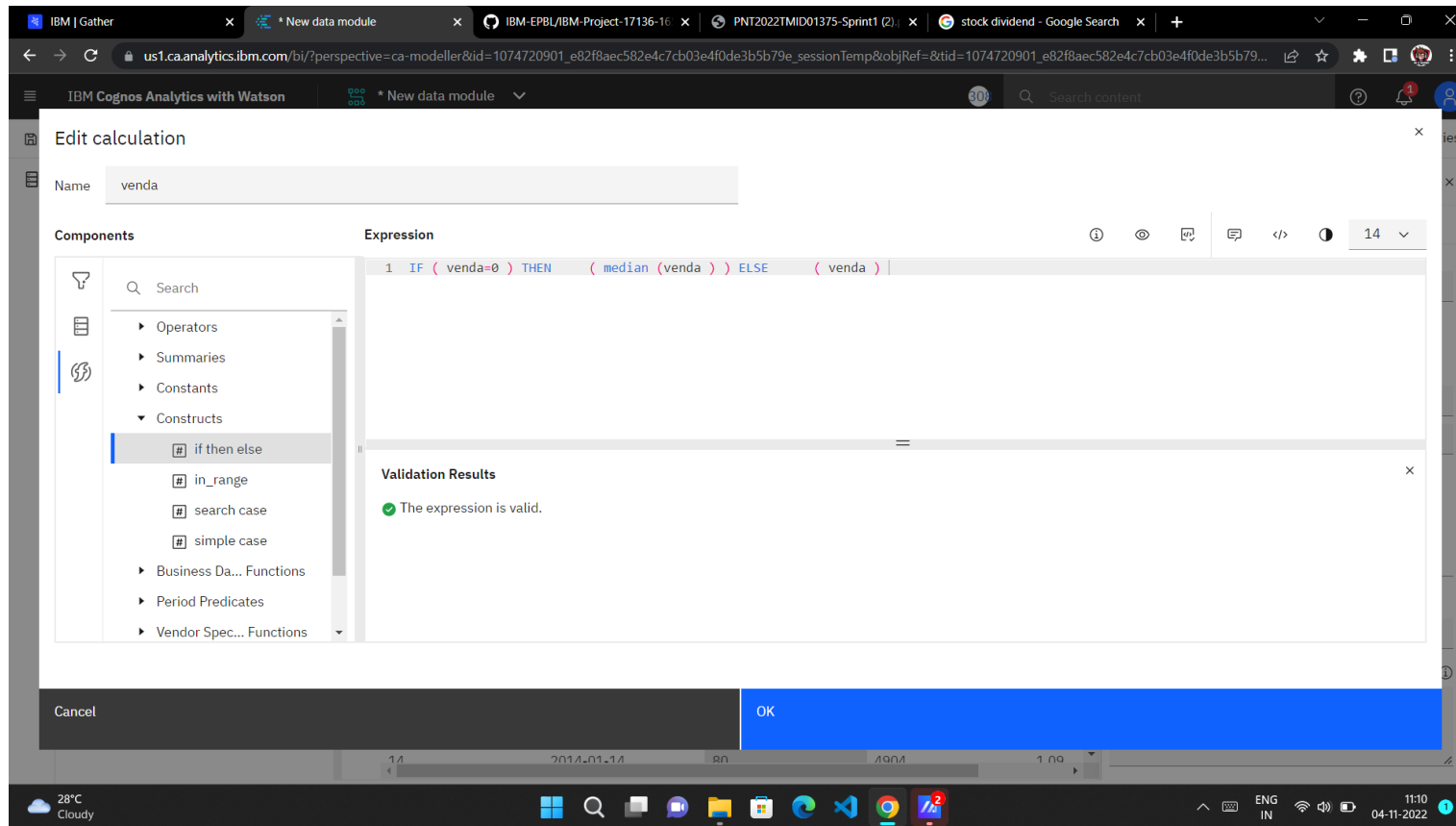
The right sidebar shows the properties for the selected 'data' column:

- Label: data
- Hide from users: ☐
- Expression: [View or edit](#)
- Usage: Identifier
- Aggregate: Count Distinct
- Data type: Date
- Represents: Time
- Lookup reference: None
- Description:

The screenshot displays the IBM Cognos Analytics interface. On the left, the 'Data module' pane shows a hierarchy: 'New data module' > 'Navigation paths' > 'mock_kaggle.csv' > '# Row Id' > 'data'. The 'data' column is selected. The main area shows a table with columns: 'Row Id', 'data', 'venda', 'estoque', and 'preco'. A context menu is open over the 'data' column header, listing actions: 'Filter...', 'Create navigation path...', 'Split...', 'Hide from users', 'Remove', 'Format data...', 'Clean...', 'Sort descending', 'Sort ascending', and 'Properties'. The right sidebar shows the 'Properties' panel for the 'data' column, with fields for 'Label' (data), 'Hide from users' (toggle), 'Expression' (View or edit), 'Usage' (Identifier), 'Aggregate' (Count Distinct), 'Data type' (Date), 'Represents' (Time), 'Date' (Date), 'Lookup reference' (None), and 'Description'.



Validation result:



Cleaned values

IBM | Gather sprint 1 IBM-EPBL/IBM-Project-17136-16 PNT2022TMID01375-Sprint1 (2) stock dividend - Google Search

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i064C14BB5D0C430099032F3BB6A29B97&objRef=i064C14BB5D0C430099032F3BB6A29B97&tid=1584271249_87e6e2ef1e744b319...

IBM Cognos Analytics with Watson sprint 1

Properties

Data module

Search

sprint 1

Navigation paths

mock_kaggle.csv

Row Id

year

price

stock

stock dividend

Grid Relationships Custom tables

Filter...

Create calculation...

Create data group...

Create navigation path...

Show to users

Remove

Format data...

Clean...

Sort descending

Sort ascending

Properties

Row Id

price

stock

stock dividend

1

2

3

4

5

6

7

8

9

10

11

12

13

14

2014-01-09

2014-01-10

2014-01-11

2014-01-12

2014-01-13

2014-01-14

125

88

188

121

134

80

4459

5043

5239

5118

4984

1904

1.29

1.29

1.29

1.29

1.29

1.29

1.29

1.09

1.09

1.09

1.09

1.09

1.09

Properties

General

Navigation paths

Label

Row Id

Hide from users

Expression

View or edit >

Usage

Identifier

Aggregate

Count

Data type

Integer

Represents

Default

Description

Represents the row number identifier, as originally found in the uploaded file.

Comments

Represents the row number identifier, as originally found in the uploaded file.

28°C Cloudy

11:11 04-11-2022

Year Data

The screenshot displays the IBM Cognos Analytics web application. The browser address bar shows the URL: `us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i064C148B5D0C430099032F3BB6A29B97&objRef=i064C148B5D0C430099032F3BB6A29B97&tid=1584271249_87e6e2ef1e744b319...`. The application header includes the text "IBM Cognos Analytics with Watson" and a "sprint 1" dropdown menu. A search bar with the text "Search content" is also present. Below the header, a "Data module" sidebar on the left contains a search bar and a tree view showing the following structure:

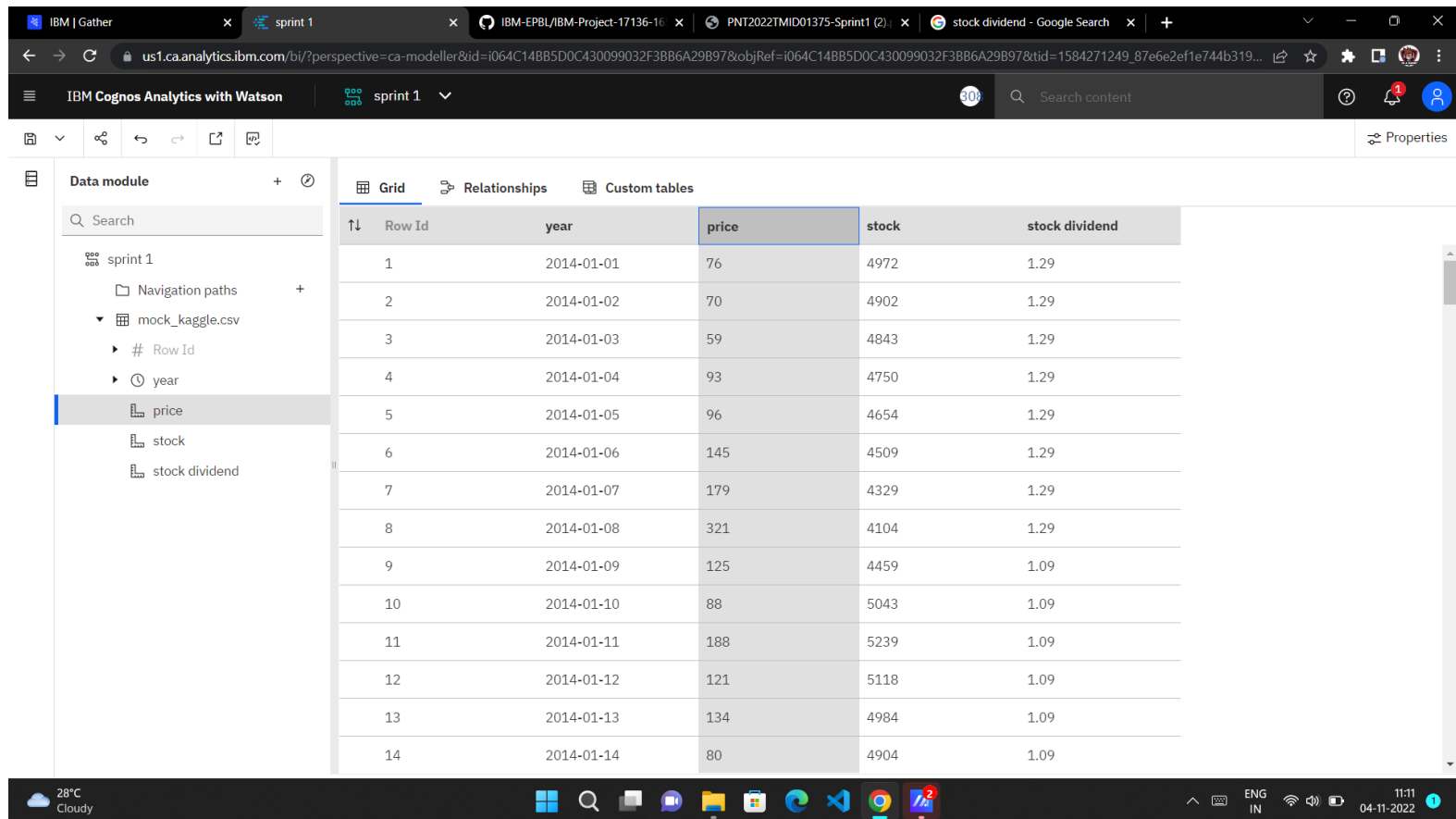
- sprint 1
 - Navigation paths
 - mock_kaggle.csv
 - # Row Id
 - year (selected)
 - price
 - stock
 - stock dividend

The main area displays a data grid with the following columns: Row Id, year, price, stock, and stock dividend. The grid contains 14 rows of data, representing daily stock prices and dividends for January 2014.

Row Id	year	price	stock	stock dividend
1	2014-01-01	76	4972	1.29
2	2014-01-02	70	4902	1.29
3	2014-01-03	59	4843	1.29
4	2014-01-04	93	4750	1.29
5	2014-01-05	96	4654	1.29
6	2014-01-06	145	4509	1.29
7	2014-01-07	179	4329	1.29
8	2014-01-08	321	4104	1.29
9	2014-01-09	125	4459	1.09
10	2014-01-10	88	5043	1.09
11	2014-01-11	188	5239	1.09
12	2014-01-12	121	5118	1.09
13	2014-01-13	134	4984	1.09
14	2014-01-14	80	4904	1.09

The bottom of the screen shows a Windows taskbar with the date and time "04-11-2022 11:11" and system status icons.

Price Data:



The screenshot displays the IBM Cognos Analytics interface. The left sidebar shows a 'Data module' with a search bar and a list of items: 'sprint 1', 'Navigation paths', 'mock_kaggle.csv', '# Row Id', 'year', 'price' (selected), 'stock', and 'stock dividend'. The main area shows a table with the following columns: 'Row Id', 'year', 'price', 'stock', and 'stock dividend'. The table contains 14 rows of data for the year 2014.

Row Id	year	price	stock	stock dividend
1	2014-01-01	76	4972	1.29
2	2014-01-02	70	4902	1.29
3	2014-01-03	59	4843	1.29
4	2014-01-04	93	4750	1.29
5	2014-01-05	96	4654	1.29
6	2014-01-06	145	4509	1.29
7	2014-01-07	179	4329	1.29
8	2014-01-08	321	4104	1.29
9	2014-01-09	125	4459	1.09
10	2014-01-10	88	5043	1.09
11	2014-01-11	188	5239	1.09
12	2014-01-12	121	5118	1.09
13	2014-01-13	134	4984	1.09
14	2014-01-14	80	4904	1.09

Stock Data

The screenshot displays the IBM Cognos Analytics web application. The browser's address bar shows the URL: `us1.ca.analytics.ibm.com/bi/?perspective=ca-modeler&id=i064C14BB5D0C430099032F3BB6A29B97&objRef=i064C14BB5D0C430099032F3BB6A29B97&tid=1584271249_87e6e2ef1e744b319...`. The application header includes the text "IBM Cognos Analytics with Watson" and a search bar. On the left, a "Data module" sidebar lists the contents of a "sprint 1" project, including "Navigation paths" and a "mock_kaggle.csv" file with fields: "# Row Id", "year", "price", "stock", and "stock dividend". The "stock" field is currently selected. The main area shows a "Grid" view of the data, which is a table with 14 rows and 6 columns. The columns are "Row Id", "year", "price", "stock", and "stock dividend". The data represents daily stock prices and dividends for a period in early 2014.

↑↓	Row Id	year	price	stock	stock dividend
	1	2014-01-01	76	4972	1.29
	2	2014-01-02	70	4902	1.29
	3	2014-01-03	59	4843	1.29
	4	2014-01-04	93	4750	1.29
	5	2014-01-05	96	4654	1.29
	6	2014-01-06	145	4509	1.29
	7	2014-01-07	179	4329	1.29
	8	2014-01-08	321	4104	1.29
	9	2014-01-09	125	4459	1.09
	10	2014-01-10	88	5043	1.09
	11	2014-01-11	188	5239	1.09
	12	2014-01-12	121	5118	1.09
	13	2014-01-13	134	4984	1.09
	14	2014-01-14	80	4904	1.09

The Windows taskbar at the bottom shows the system date and time as 11:11 on 04-11-2022, along with various application icons and network status indicators.

Stock Divided

The screenshot displays the IBM Cognos Analytics web application. The browser's address bar shows the URL: `us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i064C148B5D0C430099032F3BB6A29B97&objRef=i064C148B5D0C430099032F3BB6A29B97&tid=1584271249_87e6e2ef1e744b319...`. The application header includes the text "IBM Cognos Analytics with Watson" and a search bar. On the left, a "Data module" sidebar lists a hierarchy: "sprint 1" > "Navigation paths" > "mock_kaggle.csv" > "year" > "stock dividend". The main area shows a "Grid" view of a data table with the following columns: "Row Id", "year", "price", "stock", and "stock dividend". The table contains 14 rows of data, with the "stock dividend" column highlighted in blue. The Windows taskbar at the bottom shows the date as 04-11-2022 and the time as 11:11.

Row Id	year	price	stock	stock dividend
1	2014-01-01	76	4972	1.29
2	2014-01-02	70	4902	1.29
3	2014-01-03	59	4843	1.29
4	2014-01-04	93	4750	1.29
5	2014-01-05	96	4654	1.29
6	2014-01-06	145	4509	1.29
7	2014-01-07	179	4329	1.29
8	2014-01-08	321	4104	1.29
9	2014-01-09	125	4459	1.09
10	2014-01-10	88	5043	1.09
11	2014-01-11	188	5239	1.09
12	2014-01-12	121	5118	1.09
13	2014-01-13	134	4984	1.09
14	2014-01-14	80	4904	1.09

Calculation

The screenshot displays the IBM Cognos Analytics web application. The browser tabs include 'IBM | Gather', 'sprint 1', 'IBM-EPBL/IBM-Project-17136-16', 'PNT2022TMID01375-Sprint1 (2)', and 'stock dividend - Google Search'. The URL bar shows a path to a perspective view. The application header includes 'IBM Cognos Analytics with Watson', a 'sprint 1' dropdown, a search bar, and user profile icons. The main interface features a 'Data module' sidebar on the left with a search bar and a tree view containing 'sprint 1', 'Navigation paths', and 'mock_kaggle.csv'. The 'mock_kaggle.csv' folder is expanded, showing fields: '# Row Id', 'year', 'price', 'stock', and 'stock dividend'. The 'stock dividend' field is selected. The central area shows a 'Grid' view of data with columns for 'Row Id', 'year', 'price', 'stock', and 'stock dividend'. A 'Create calculation' dialog box is open in the foreground. The dialog has a 'Name' field with the text 'stock dividend +', an 'Expression' field containing 'stock dividend', a '+' operator, a dropdown arrow, and a 'Constant' button with a red error icon and the text 'Enter a number'. Below the expression field is a checkbox labeled 'Calculate after aggregation'. At the bottom of the dialog are three buttons: 'Use calculation editor' (blue), 'Cancel' (dark grey), and 'OK' (light grey). The background data grid shows rows of data, with the 'stock dividend' column containing values like 1.29, 1.09, and 1.09. The Windows taskbar at the bottom shows the date and time as 04-11-2022, 11:11, and the language as ENG IN.

Row Id	year	price	stock	stock dividend
1				1.29
2				1.29
3				1.29
4				1.29
5				1.29
6				1.29
7				1.29
8				1.29
9				1.09
10				1.09
11	2014-01-11	188	5239	1.09
12	2014-01-12	121	5118	1.09
13	2014-01-13	134	4984	1.09
14	2014-01-14	80	4904	1.09

Prepared data link –

https://us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my_folders%2FRetail%2BStore%2BStock%2BInventory%2BAnalytics