

Project Development Phase Delivery of Sprint-1

Team ID	PNT2022TMID51704
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**

Sprint-1:

DATA COLLECTION:

DOWNLOAD THE DATASET

DATASET LINK -

[HTTPS://DRIVE.GOOGLE.COM/DRIVE/FOLDERS/1KIL-5CHJMQVBK9VyFSuUs-mYAUPBZGNY](https://drive.google.com/drive/folders/1KIL-5CHJMQVBK9VyFSuUs-mYAUPBZGNY)

LOAD THE DATASET:

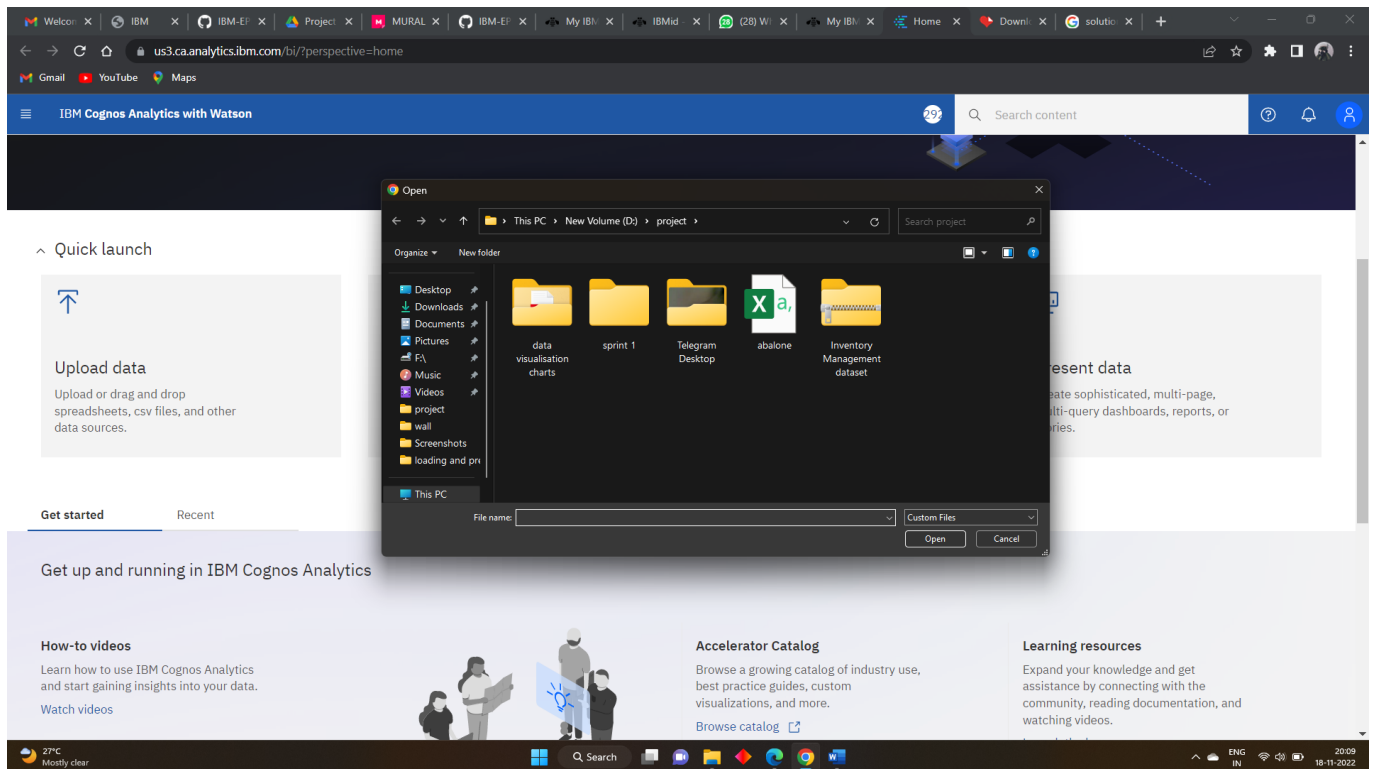
TOOL USED – IBM COGNOS

Prepared by :

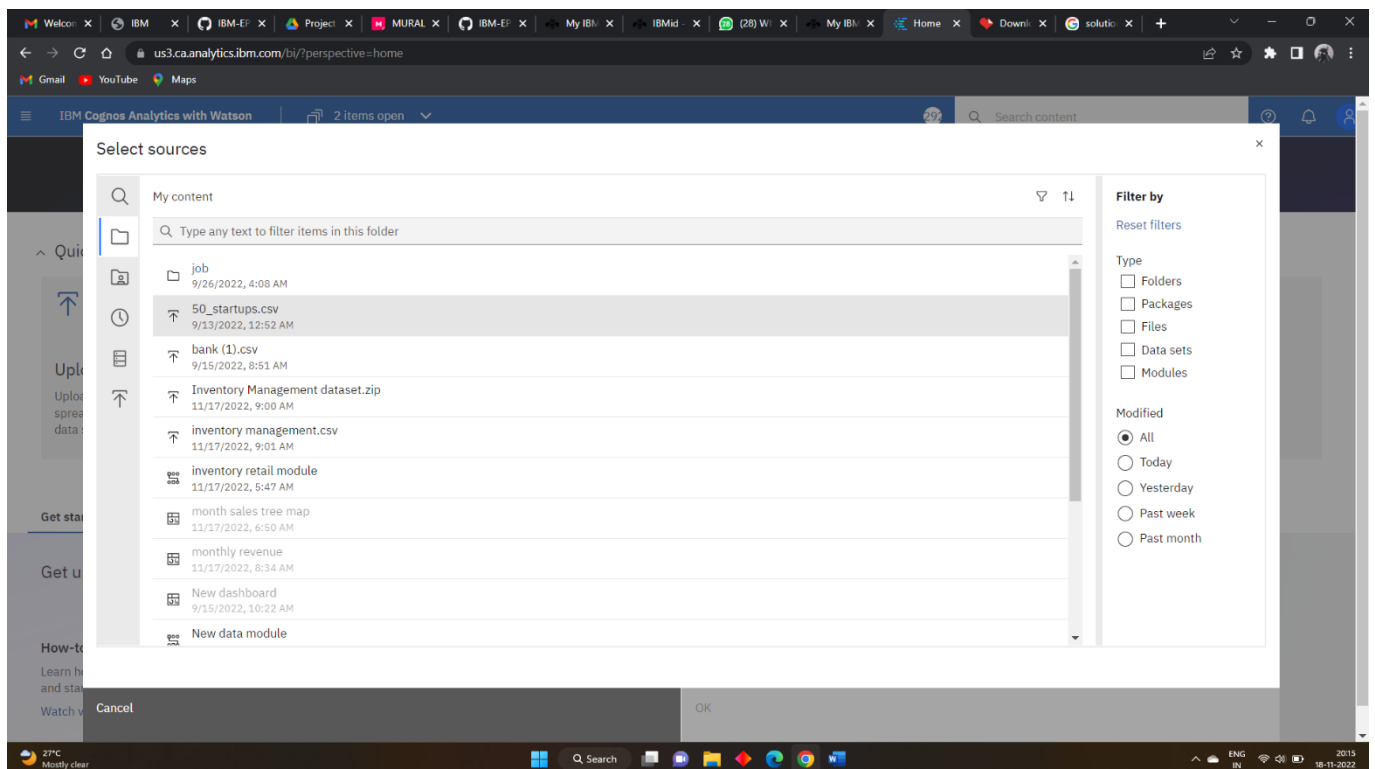
- Jobin j
- Jerlin Jacob p
- Pranav
- Jijo j



Uploading the datasets



Prepare the dataset



Month data:

The screenshot shows the IBM Cognos Analytics interface. The top navigation bar includes the IBM logo and a search bar. The main content area displays a data module named 'mock_kaggle.csv' in the 'Grid' view. The data is organized into a table with columns: Row Id, data, venda, estoque, and preco. The table contains 14 rows of data, representing dates from 2014-01-01 to 2014-01-14. The left sidebar shows the 'Data module' section with a search bar and a list of data sources, including 'mock_kaggle.csv'. The bottom status bar shows the system clock and network status.

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 screenshot shows the IBM Cognos Analytics interface with the 'Create calculation' dialog box open. The dialog box has a 'Name' field with the value 'Calculation name'. The 'Components' section on the left shows a list of data sources, including 'mock_kaggle.csv', with 'data' selected. The 'Expression' field on the right contains the formula '1 month(data_)'. Below the expression field is a 'Validation Results' section. At the bottom of the dialog box are 'Calculate after aggregation', 'Cancel', and 'OK' buttons. The background shows the same data module grid view as the previous screenshot.

Create calculation

Name: Calculation name

Components:

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

Expression:

```
1 month(data_)
```

Validation Results:

Calculate after aggregation: ☐

Buttons: Cancel, OK

IBM Cognos Analytics with Watson

Search content

Data module

Grid Relationships Custom tables

Properties

General

Label: m.data

Hide from users: ☐

Expression: [View or edit](#)

Usage: Measure

Calculate after aggregation: ☐

Aggregate: Total

Data type: Integer

Represents:

Default:

Lookup reference: None

Description:

Row Id	year	sales	stock
1	1/9/14	125	4459
1	1/10/14	88	5043
1	1/11/14	188	5239
1	1/12/14	121	5118
1	1/13/14	134	4984
1	1/14/14	80	4904
1	1/15/14	82	4822
1	1/16/14	94	4728
1	1/18/14	159	4464
1	1/19/14	199	4265
1	1/20/14	104	4161
1	1/21/14	70	4091
1	1/22/14	127	3964
1	1/23/14	96	3868

Revenue data

Create calculation

Name: C_sales

Expression: 1 mock_kaggle_csv.venda* mock_kaggle_csv.precd

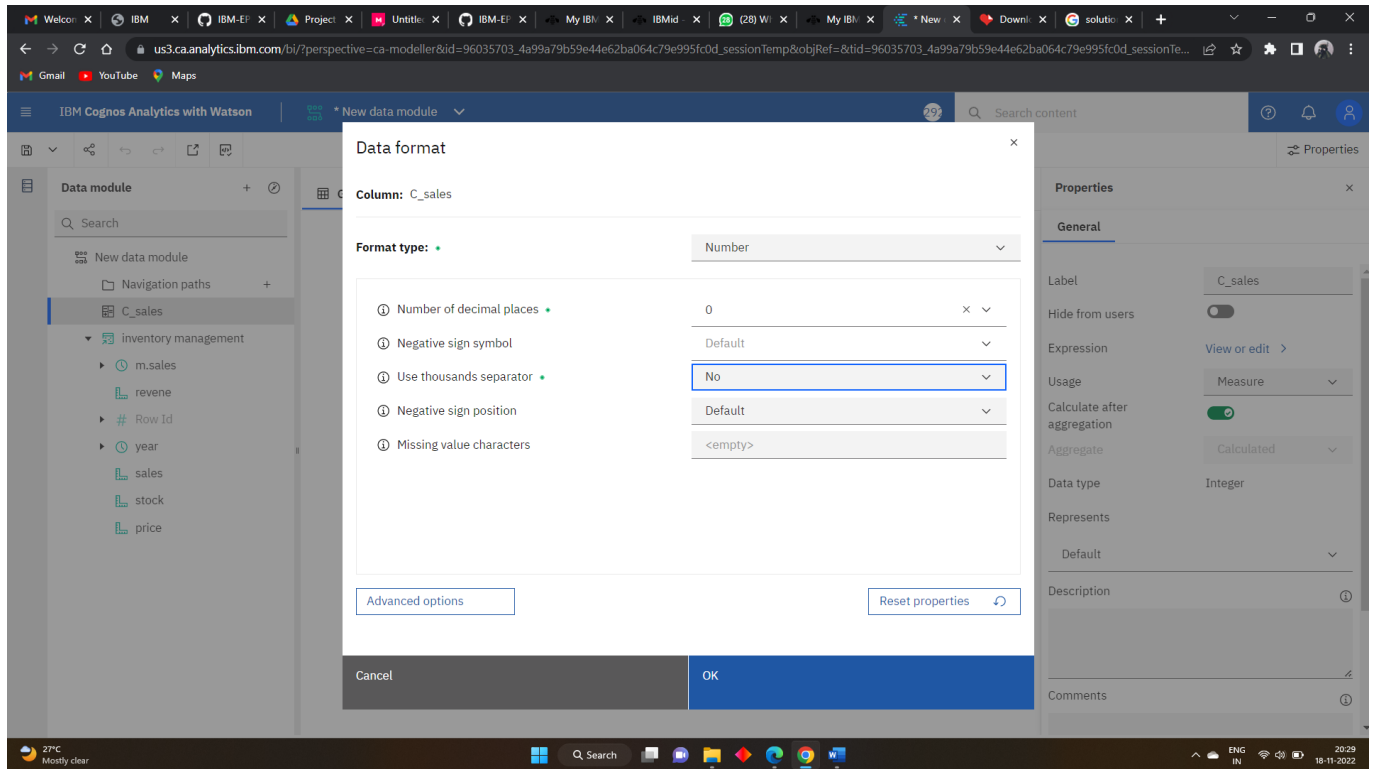
Components:

- inventory management
- m.sales
- revenue
- Row Id
- year
- sales
- stock
- price

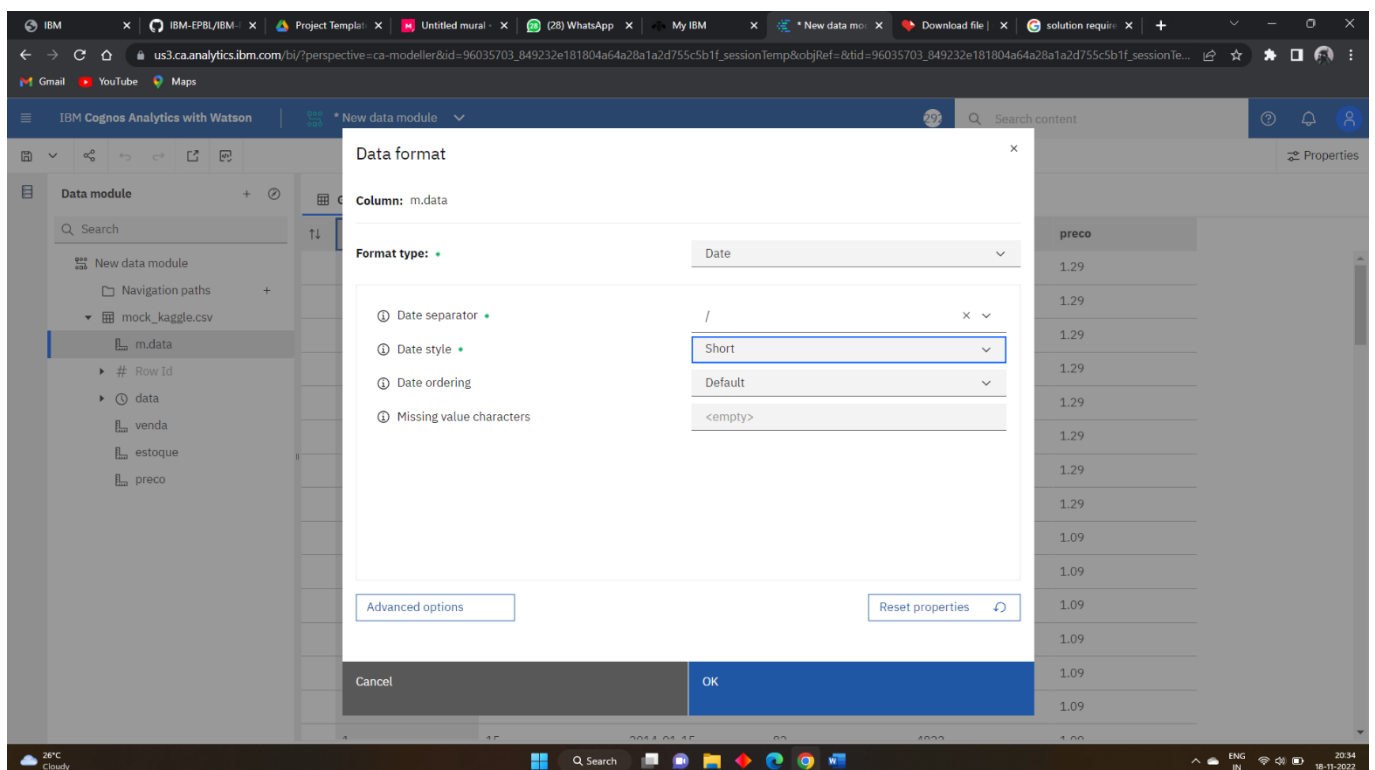
Calculate after aggregation: ☒

Cancel OK

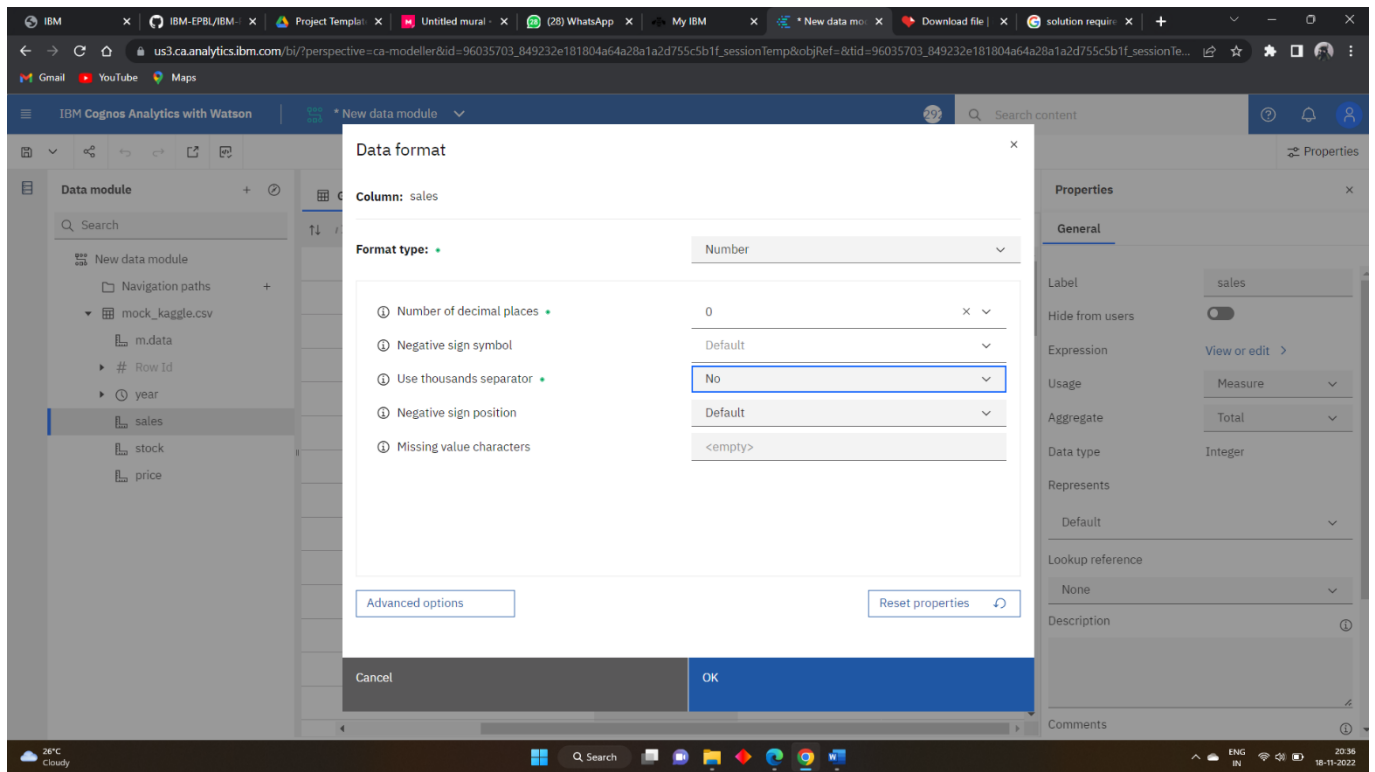
Format the datasets



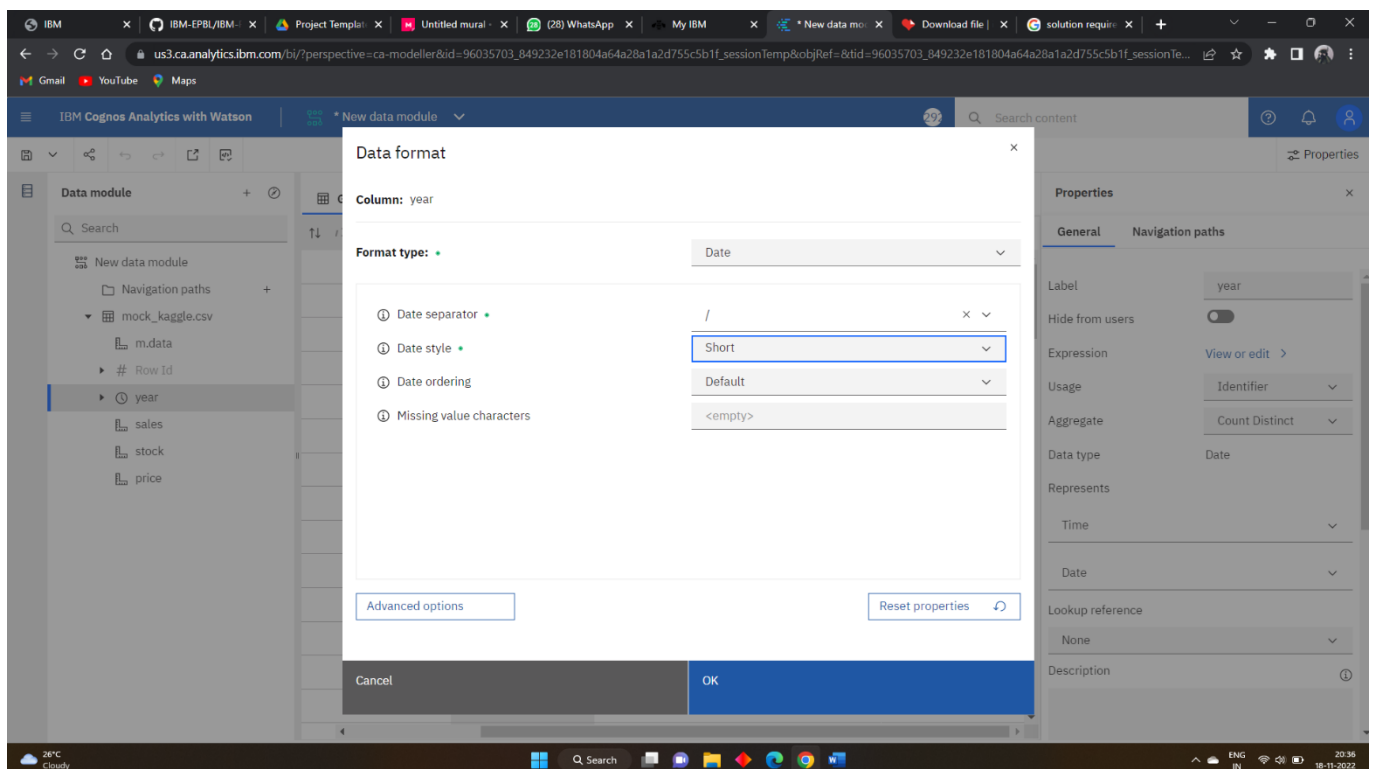
Format m.data



Format sales



Format year



Format stock

The screenshot shows the IBM Cognos Analytics interface. A 'Data format' dialog box is open, displaying the 'stock' column. The 'Format type' is set to 'Unformatted'. The dialog includes a 'Reset properties' button and 'Cancel'/'OK' buttons at the bottom. The background shows the 'Data module' list on the left and the 'Properties' panel on the right.

Data format

Column: stock

Format type: Unformatted

By default, this data is unformatted.
You can select a different format type and specify its properties.

Advanced options Reset properties

Cancel OK

Rename the data by sales ,stock and price

The screenshot shows the IBM Cognos Analytics interface with a data grid. The grid has columns: 'ata', 'Row Id', 'data', 'sales', and 'estoque'. The 'estoque' column is highlighted. The 'Properties' panel on the right shows the 'General' tab with the 'Label' set to 'stock'. The background shows the 'Data module' list on the left.

Data module

Grid Relationships Custom tables

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

Properties

General

Label: stock

Hide from users: ☐

Expression: View or edit

Usage: Measure

Aggregate: Total

Data type: Integer

Represents: Default

Lookup reference: None

Description:

Comments:

IBM Cognos Analytics with Watson

Search content

Properties

Data module

Grid Relationships Custom tables

Id	data	sales	stock	preco
2014-01-01		0	4972	1.29
2014-01-02		70	4902	1.29
2014-01-03		59	4843	1.29
2014-01-04		93	4750	1.29
2014-01-05		96	4654	1.29
2014-01-06		145	4509	1.29
2014-01-07		179	4329	1.29
2014-01-08		321	4104	1.29
2014-01-09		125	4459	1.09
2014-01-10		88	5043	1.09
2014-01-11		188	5239	1.09
2014-01-12		121	5118	1.09
2014-01-13		134	4984	1.09
2014-01-14		80	4904	1.09

Properties

General

Label: price

Hide from users: ☐

Expression: View or edit

Usage: Measure

Aggregate: Total

Data type: Decimal

Represents: Default

Lookup reference: None

Description:

Comments:

IBM Cognos Analytics with Watson

Search content

Properties

Data module

Data format

Column: m.data

Format type: Date

1 Date separator: /

1 Date style: Short

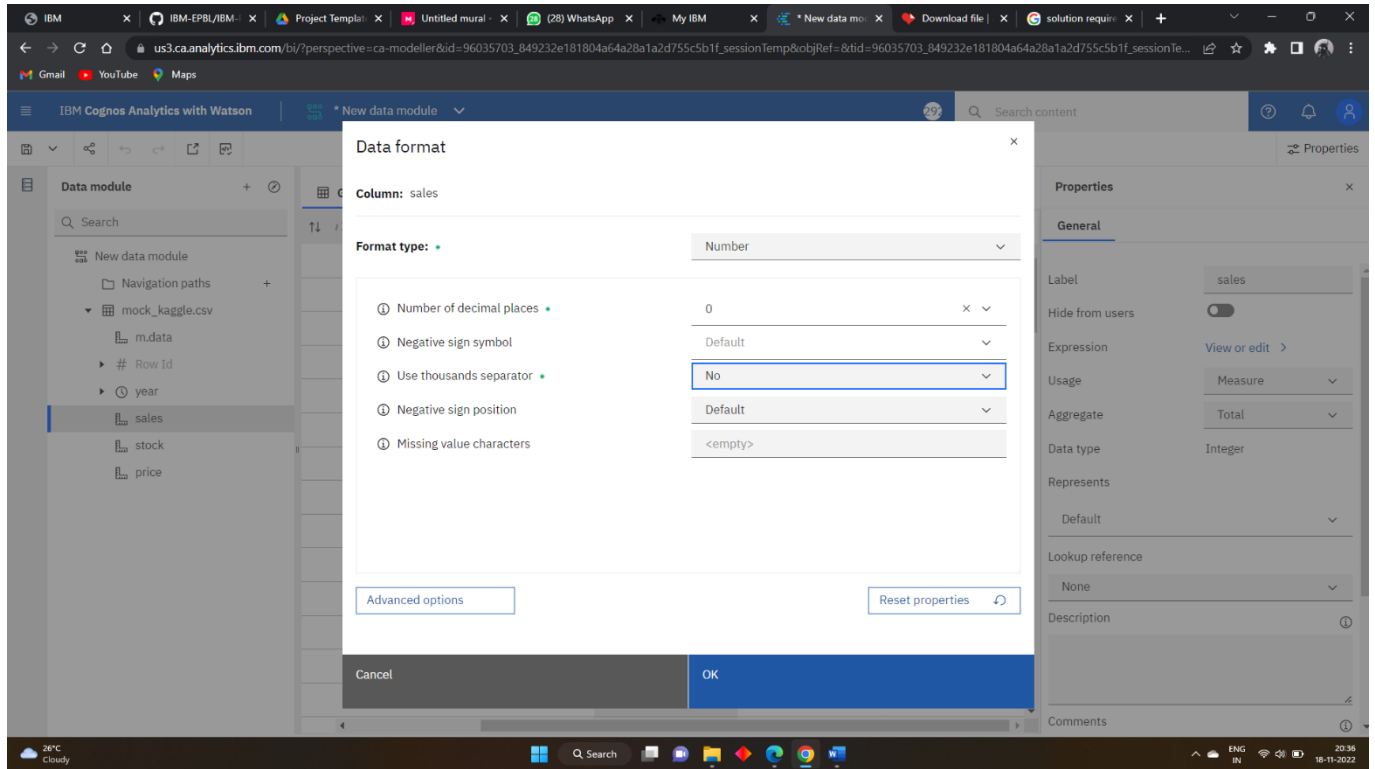
1 Date ordering: Default

1 Missing value characters: <empty>

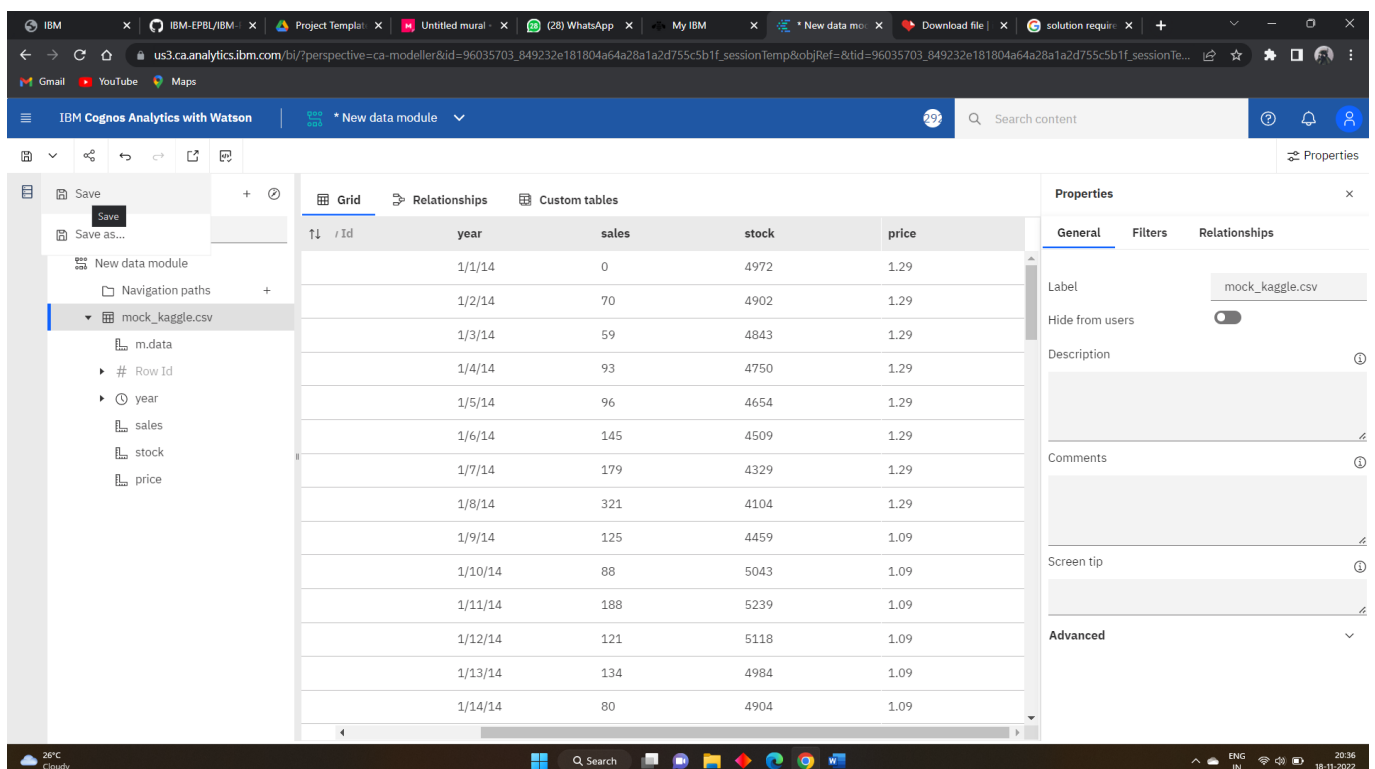
Advanced options

Reset properties

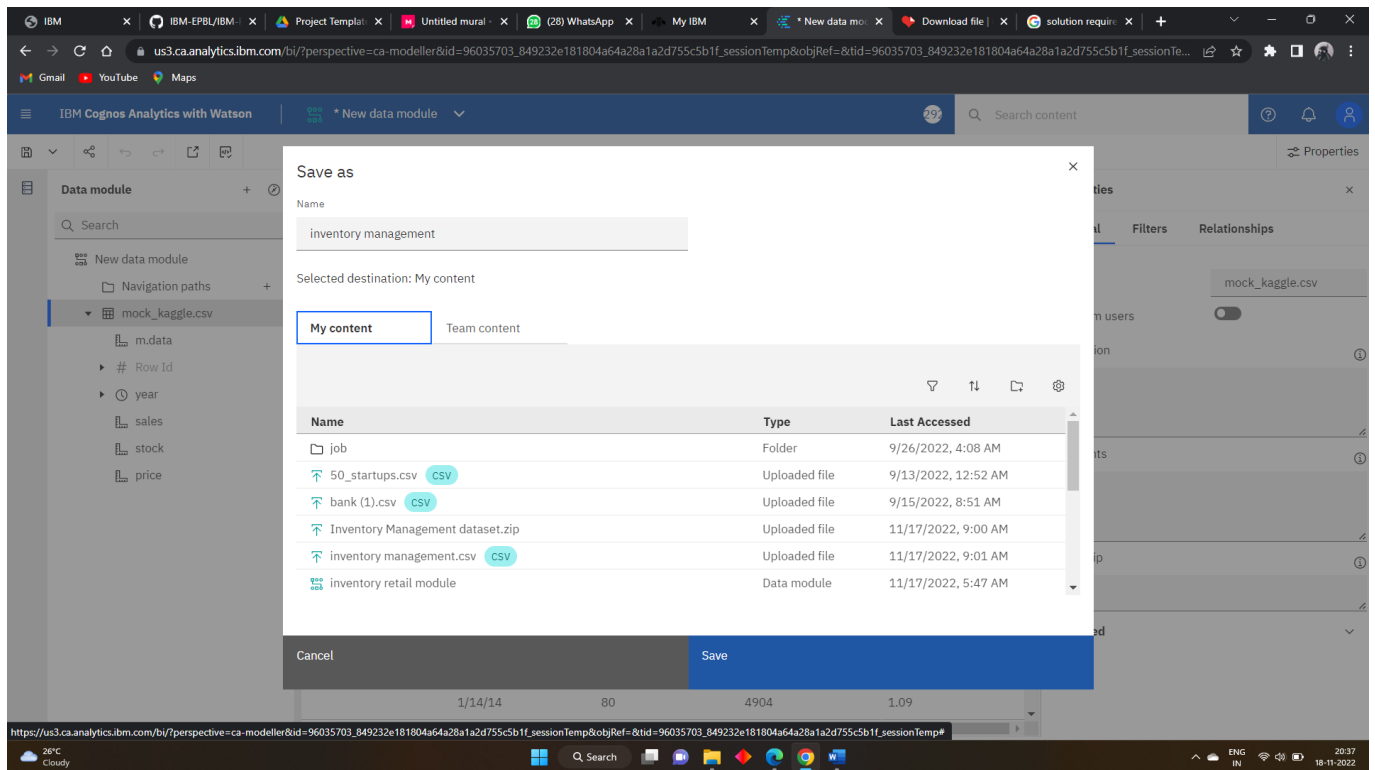
Cancel OK



properties



save the module



Saved module

The 'new inventory management' module is displayed in a grid view, showing a table with the following data:

m.sales	revenue	Row Id	year	sales	stock	price
1	0	1	2014-01-01	0	4972	1.29
1	90.3	2	2014-01-02	70	4902	1.29
1	76.11	3	2014-01-03	59	4843	1.29
1	119.97	4	2014-01-04	93	4750	1.29
1	123.84	5	2014-01-05	96	4654	1.29
1	187.05	6	2014-01-06	145	4509	1.29
1	230.91	7	2014-01-07	179	4329	1.29
1	414.09000000000003	8	2014-01-08	321	4104	1.29
1	136.25	9	2014-01-09	125	4459	1.09
1	95.92	10	2014-01-10	88	5043	1.09
1	204.92000000000002	11	2014-01-11	188	5239	1.09
1	131.89000000000001	12	2014-01-12	121	5118	1.09
1	146.06	13	2014-01-13	134	4984	1.09
1	87.2	14	2014-01-14	80	4904	1.09

TOOLS USED:



PREPARED DATASETS LINK:

[HTTPS://US3.CA.ANALYTICS.IBM.COM/BI/?PERSPECTIVE=CA-MODELLER&ID=I140979485004459C9F3C3FC7704307C8&OBJREF=I140979485004459C9F3C3FC7704307C8&TID=3019265856_BA584123D05A4DAE9E07A03ABB0403F2_SESSIONTEMP](https://us3.ca.analytics.ibm.com/bi/?perspective=CA-MODELLER&ID=I140979485004459C9F3C3FC7704307C8&OBJREF=I140979485004459C9F3C3FC7704307C8&TID=3019265856_BA584123D05A4DAE9E07A03ABB0403F2_SESSIONTEMP)