

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

Team ID	
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**

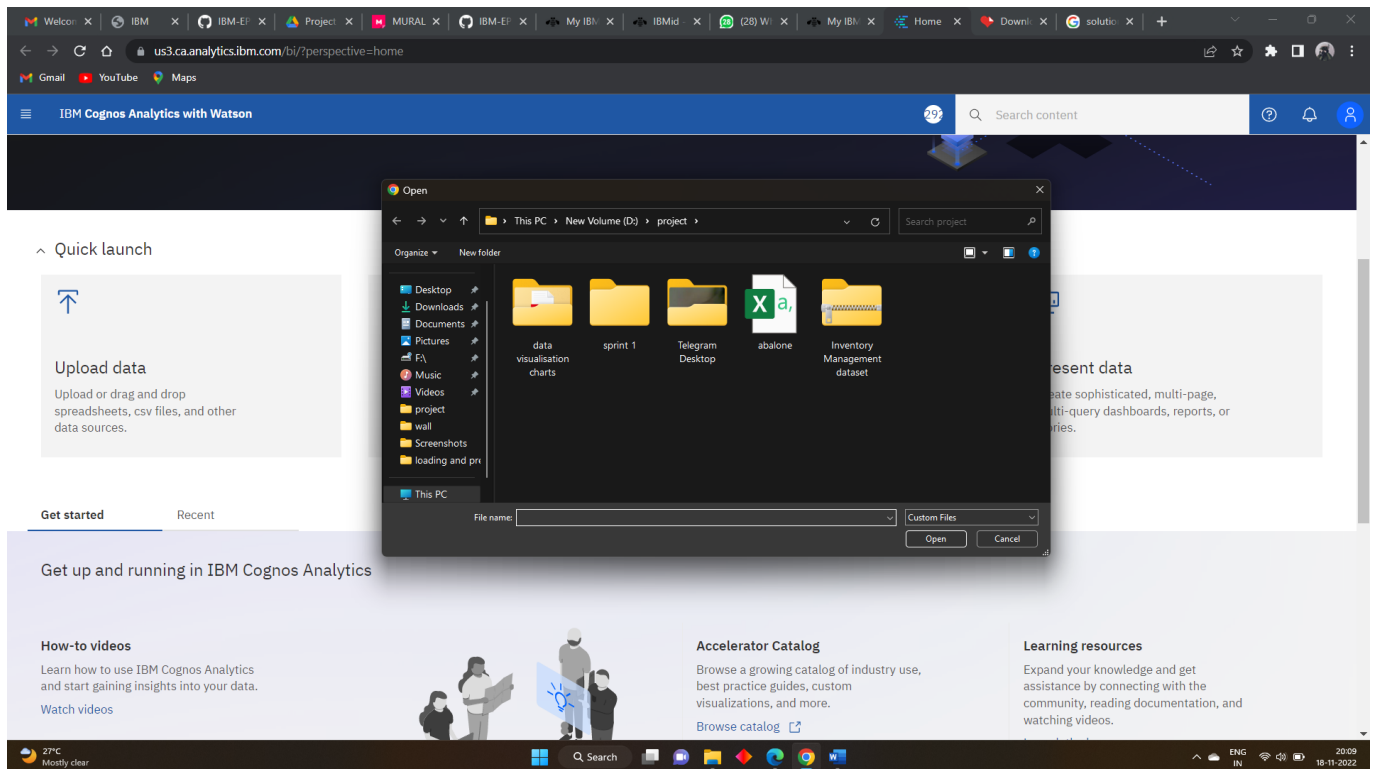
Prepared by :

---

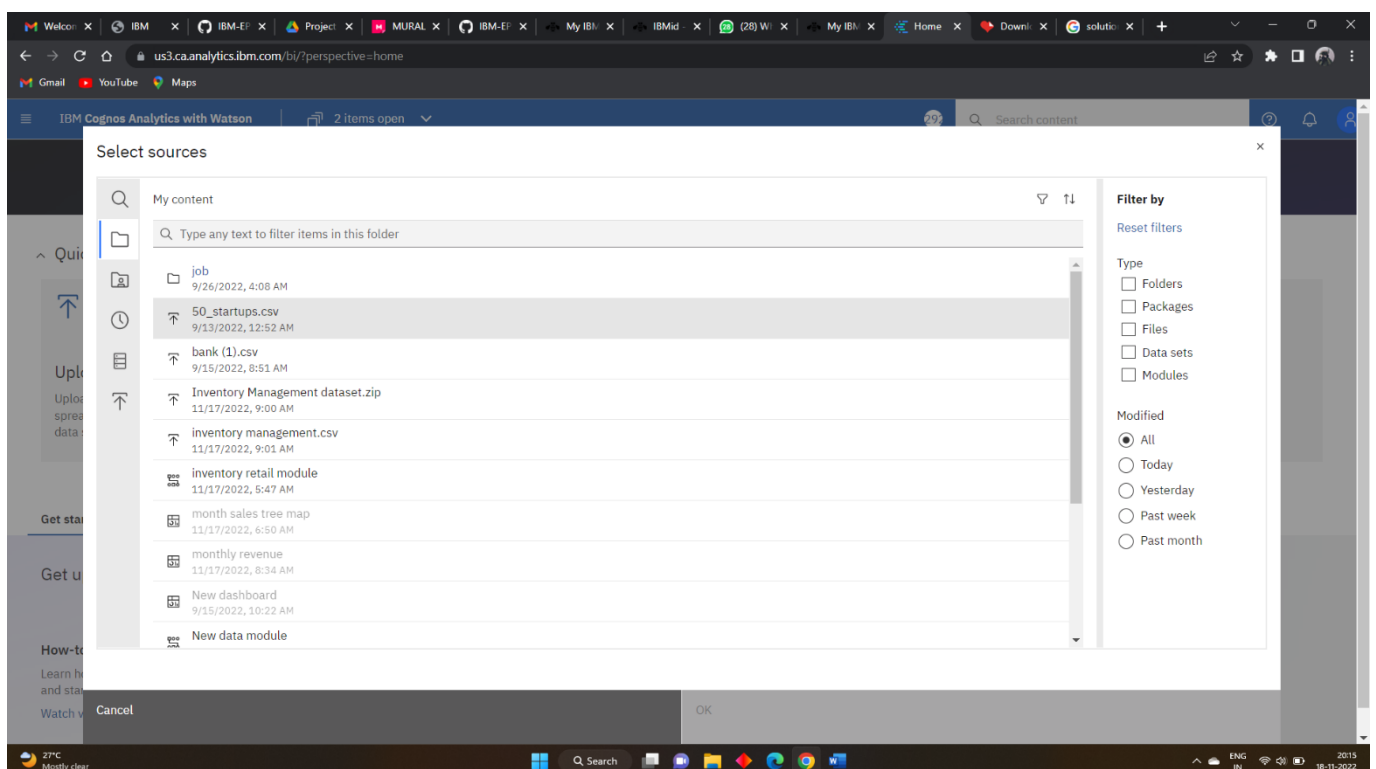
- Jobin j
- Jerlin Jacob p
- Pranav
- Anand



## Uploading the datasets



## Prepare the dataset



## Month data:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' sidebar is open, displaying a search bar and a tree view of the data module structure. The tree view includes 'mock\_kaggle.csv' with sub-items: '# Row Id', 'data', 'venda', 'estoque', and 'preco'. The main area shows a 'Grid' view of the data. The table has 5 columns: 'Row Id', 'data', 'venda', 'estoque', and 'preco'. The data rows show dates from 2014-01-01 to 2014-01-14, with corresponding values for 'venda', 'estoque', and 'preco'.

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 'Create calculation' dialog box in IBM Cognos Analytics. The 'Name' field is set to 'Calculation name'. The 'Components' list on the left shows the data module structure, with 'data' selected. The 'Expression' field contains the formula '1 month(data\_)'. Below the expression field, there is a 'Validation Results' section with a blue circular icon. At the bottom, there is a checkbox for 'Calculate after aggregation' and buttons for 'Cancel' and 'OK'.

Calculation name

Components

- mock\_kaggle.csv
  - # Row Id
  - data
  - venda
  - estoque
  - preco

Expression

1 month(data\_)

Validation Results

☐ Calculate after aggregation

Cancel OK

Row Id	year	sales	stock
9	1/9/14	125	4459
10	1/10/14	88	5043
11	1/11/14	188	5239
12	1/12/14	121	5118
13	1/13/14	134	4984
14	1/14/14	80	4904
15	1/15/14	82	4822
16	1/16/14	94	4728
17	1/18/14	159	4464
18	1/19/14	199	4265
19	1/20/14	104	4161
20	1/21/14	70	4091
21	1/22/14	127	3964
22	1/23/14	96	3868

## Revenue data

Create calculation

Name: C\_sales

Expression: 1 mock\_kaggle\_csv.venda\* mock\_kaggle\_csv.precd

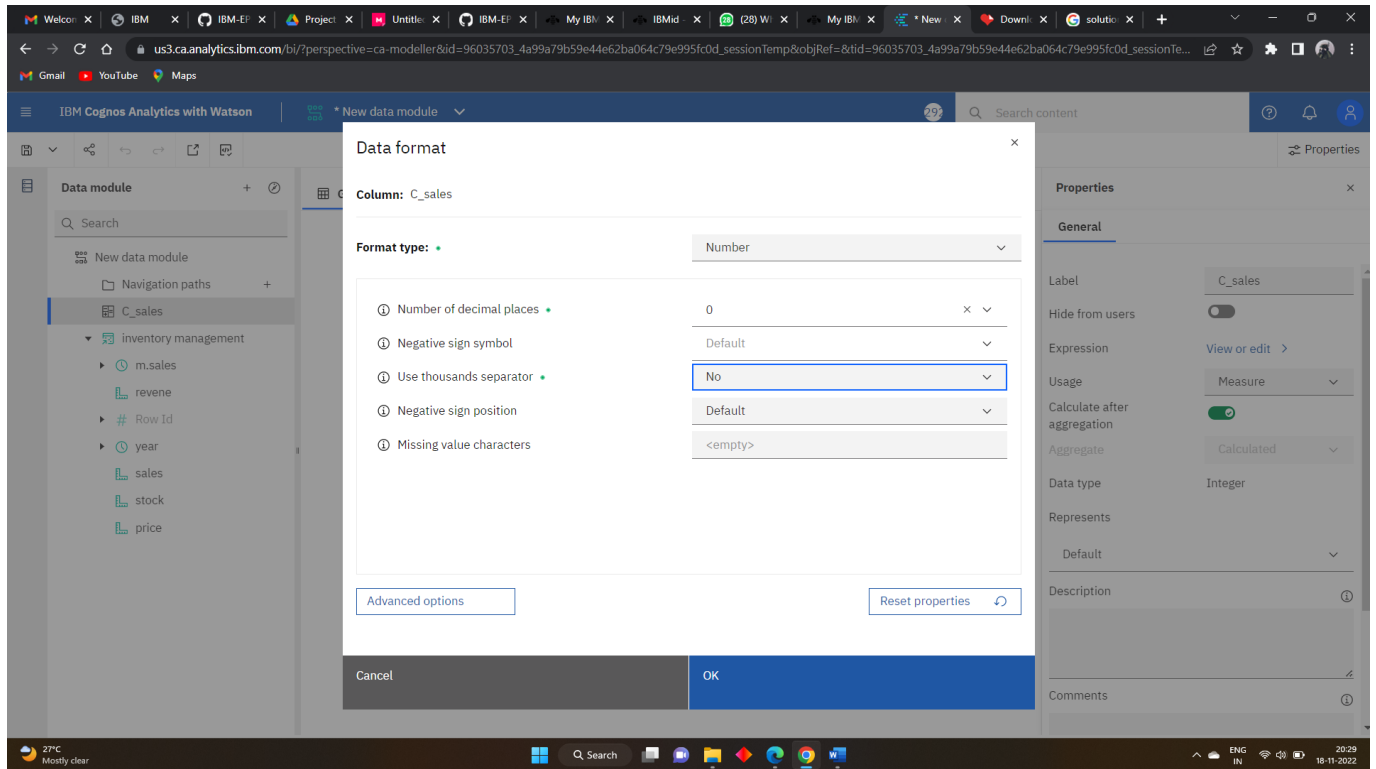
Components:

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

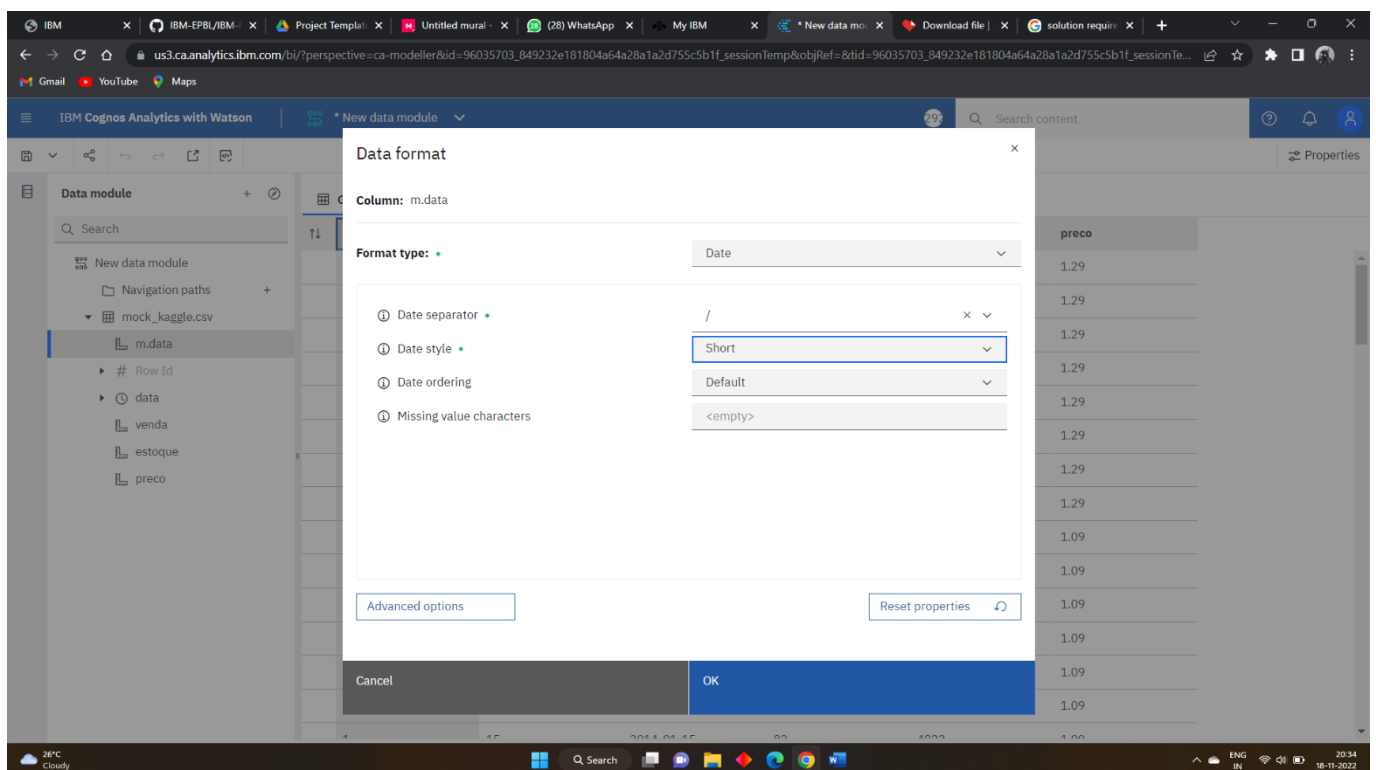
Calculate after aggregation: ☒

Buttons: Cancel, OK

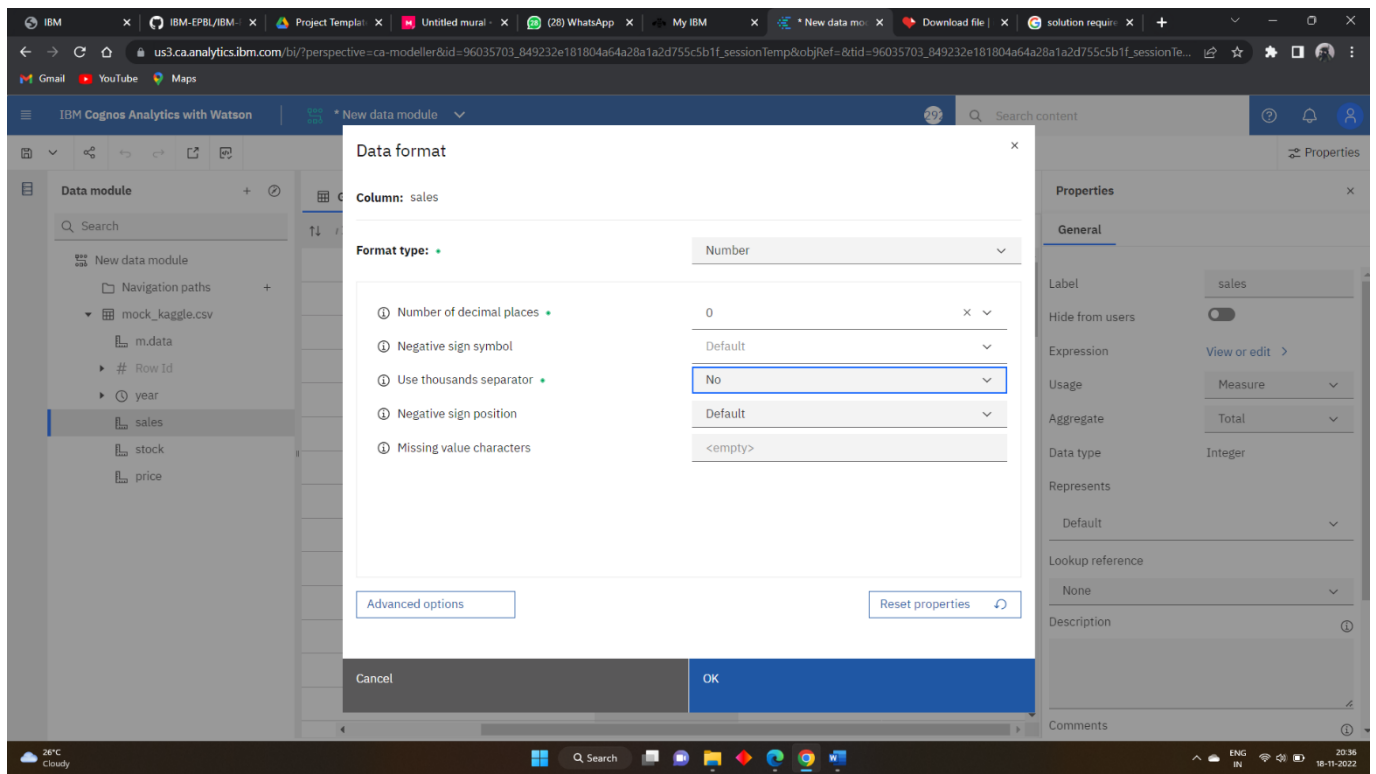
## Format the datasets



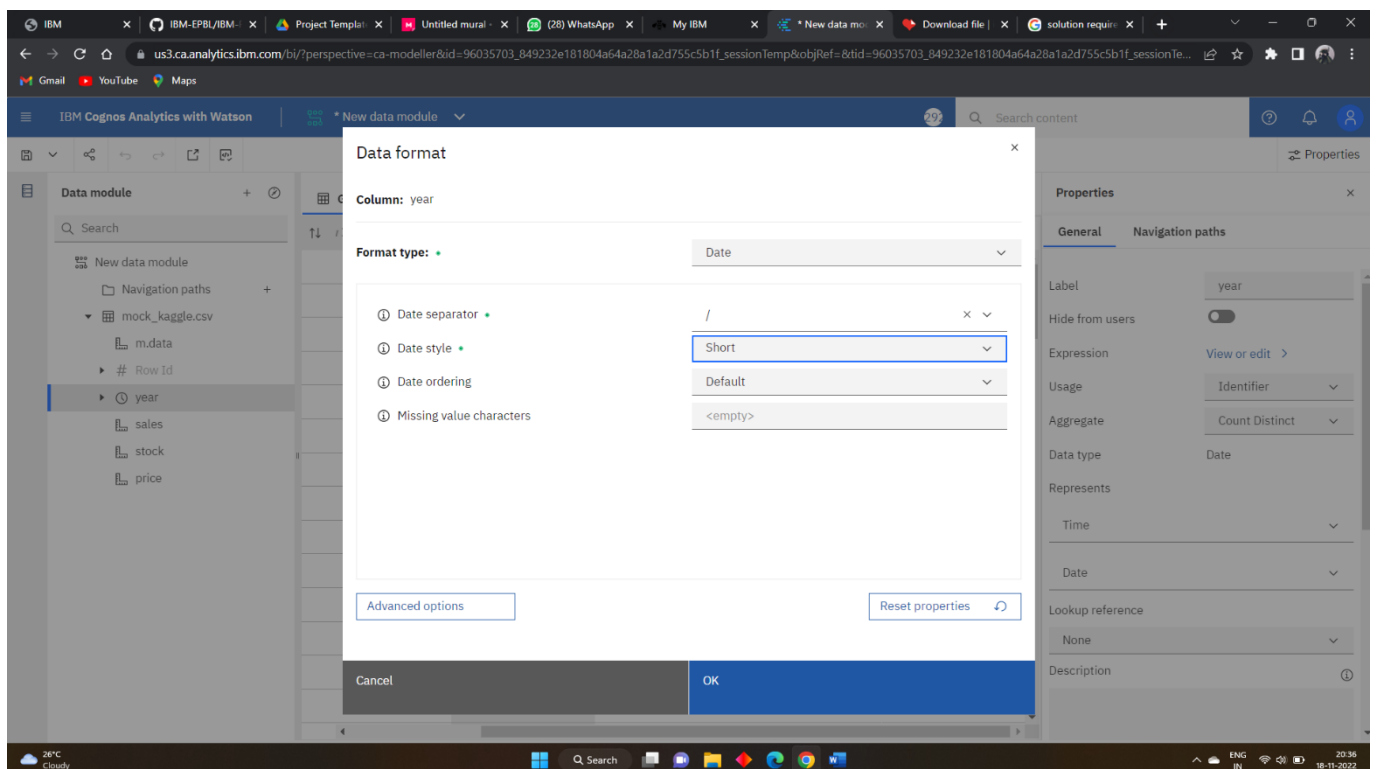
## Format m.data



## 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 'Data module' list on the left shows 'estoque' selected.

**Data module**

Search

New data module

Navigation paths

mock\_kaggle.csv

m.data

# Row Id

year

sales

estoque

preco

**Grid**

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

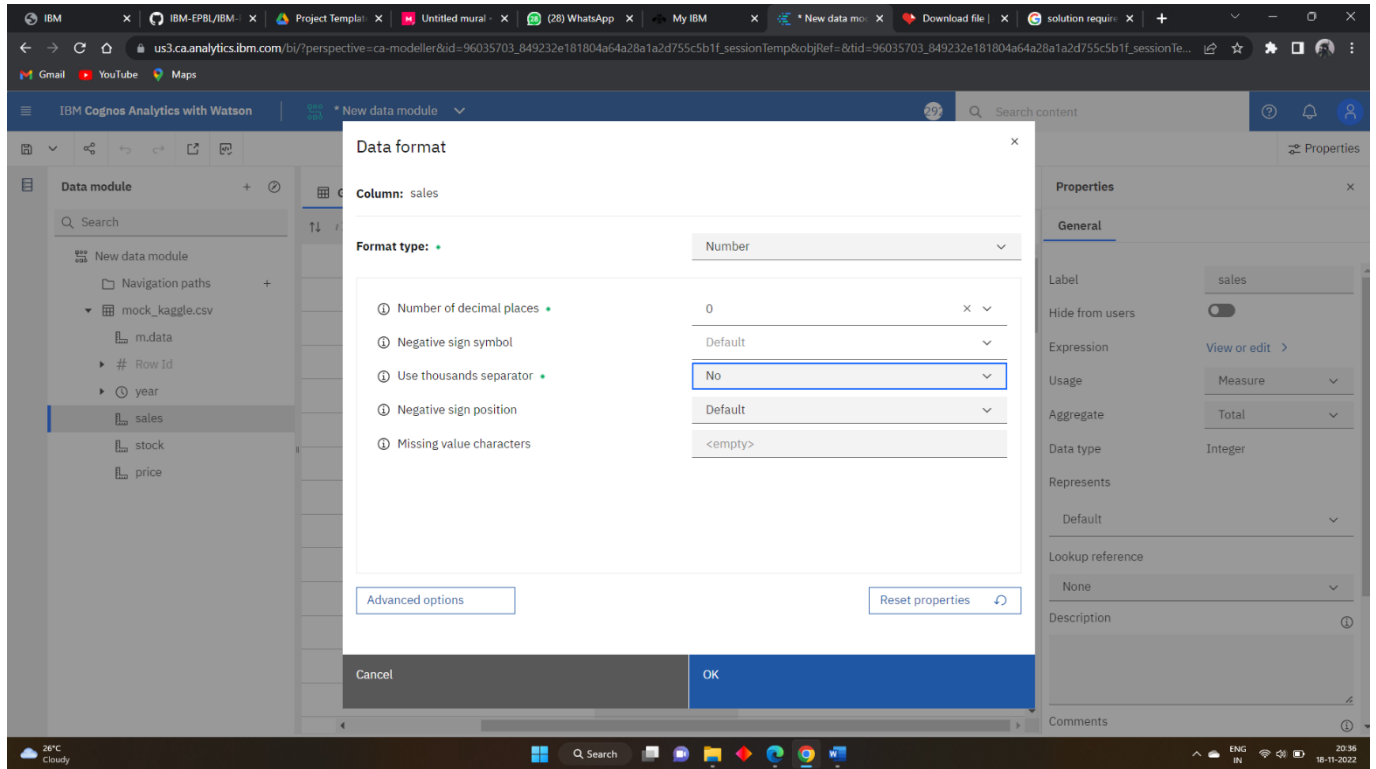
① Date ordering: Default

① Missing value characters: <empty>

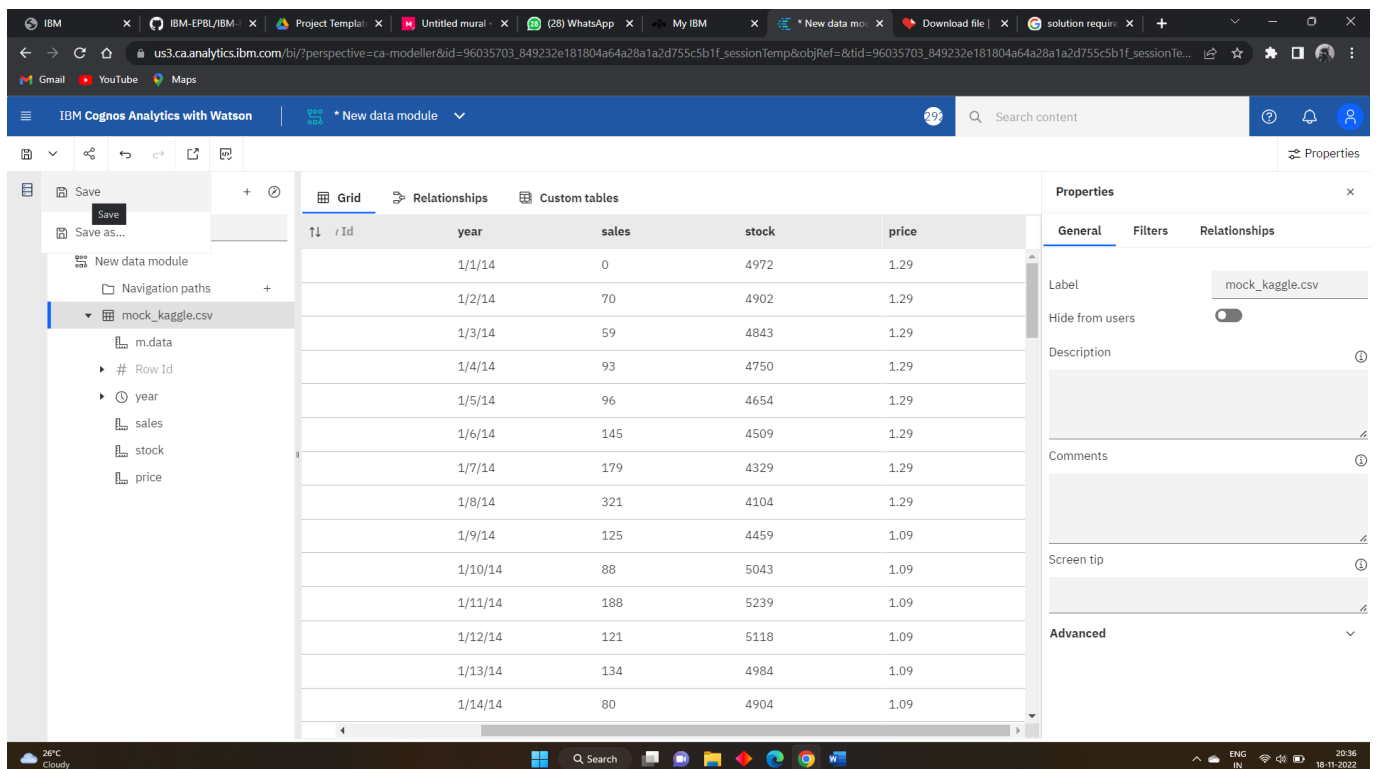
Advanced options

Reset properties

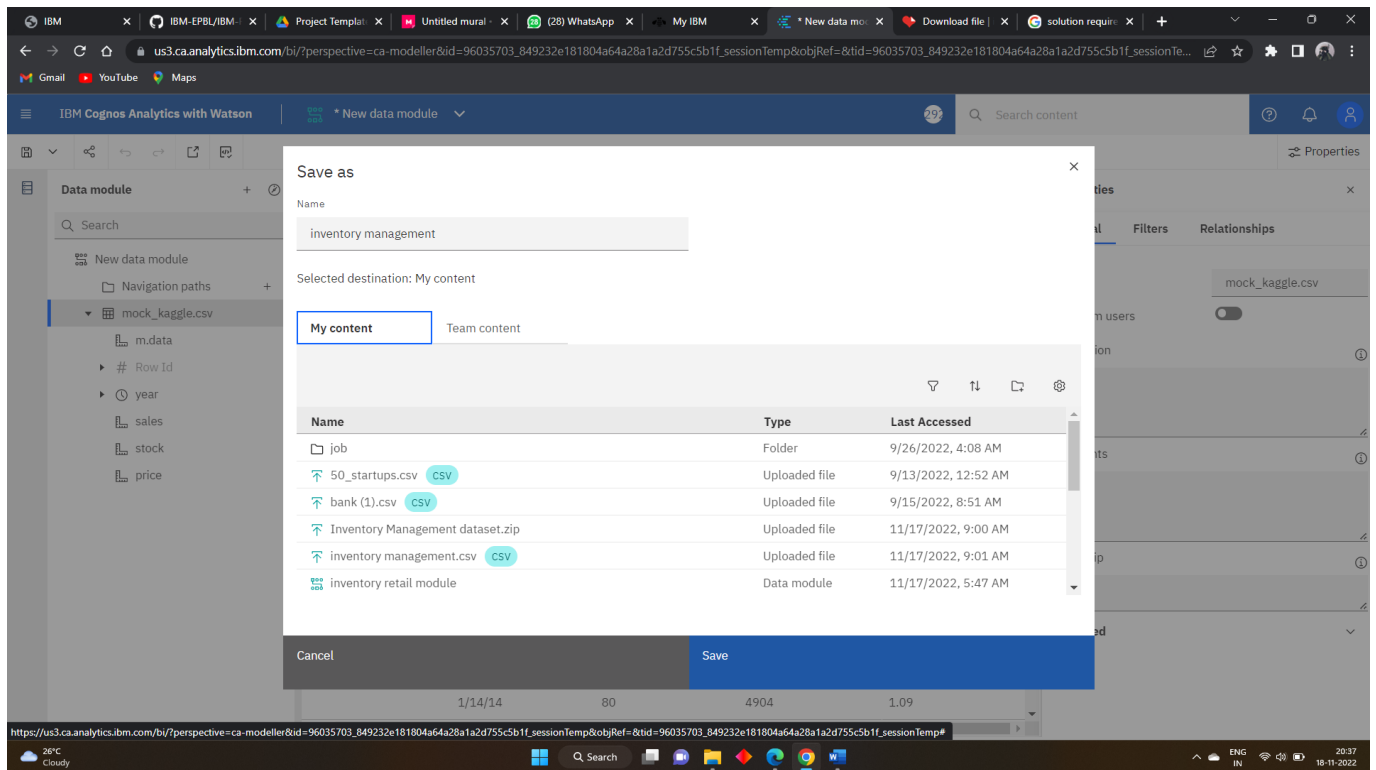
Cancel OK



## properties



## save the module



## Saved module

The screenshot shows the IBM Cognos Analytics interface. The 'new inventory management' module is displayed in a grid view, showing a table with columns: m.sales, revenue, Row Id, year, sales, stock, and price.

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)**