

Project Development Phase Delivery of Sprint-1

Team ID	PNT2022TMID38670
Project Name	Retail Store Stock Inventory Analytics

Project Development Phase:

Sprint-1:

- 1.Fetch Data from external API (Kaggle API)
2. IBM DB2 service creation and DB2connectivity with cognos
- 3.Data Collection
- 4.Data Preparation

Sprint-2:

Data Exploration

Sprint-3:

Dashboard Creation

Sprint-4:

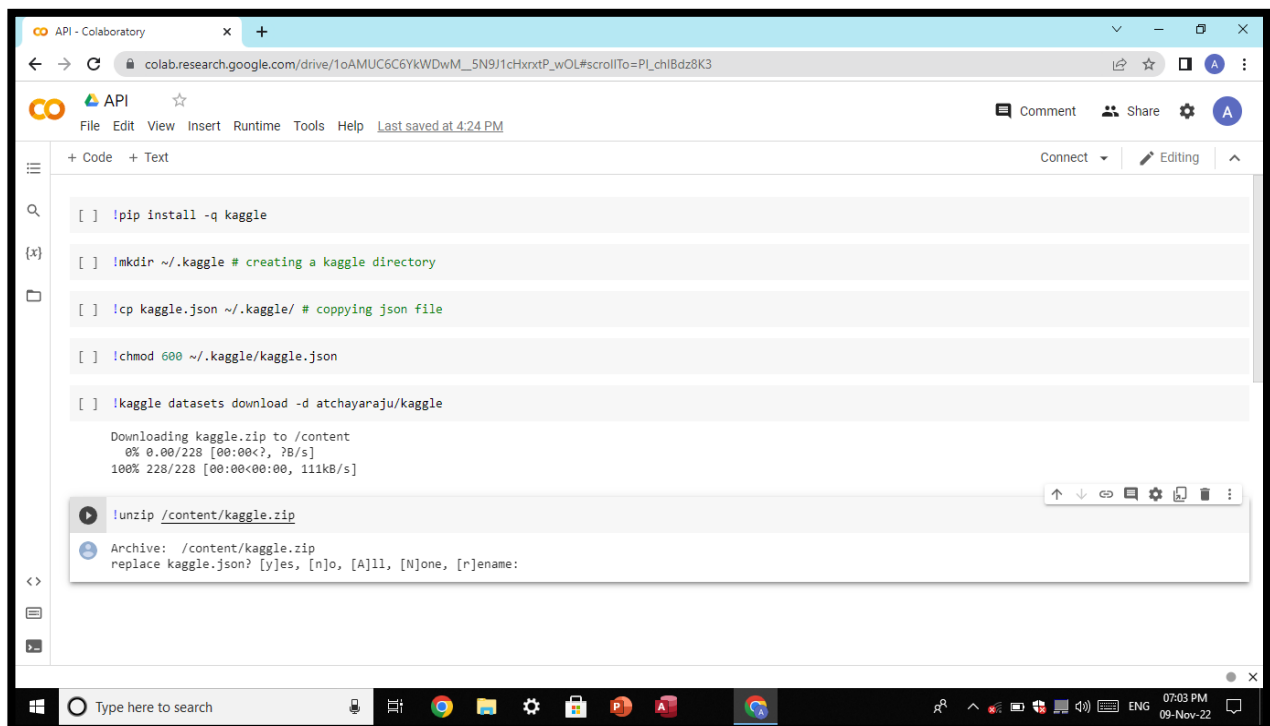
- 1.Report Creation
- 2.Story Creation

DATA COLLECTION :

Download the Dataset

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

1.FETCH DATA FROM EXTERNAL API (KAGGLE API)



The screenshot shows a Google Colab notebook titled "API - Colaboratory". The code cell contains the following commands:

```
[ ] !pip install -q kaggle
[ ] !mkdir ~/.kaggle # creating a kaggle directory
[ ] !cp kaggle.json ~/.kaggle/ # copying json file
[ ] !chmod 600 ~/.kaggle/kaggle.json
[ ] !kaggle datasets download -d atchayaraju/kaggle
```

Below the code, the output shows the download progress of kaggle.zip to /content:

```
Downloading kaggle.zip to /content
0% 0.00/228 [00:00<?, ?B/s]
100% 228/228 [00:00<00:00, 111kB/s]
```

The final command executed is:

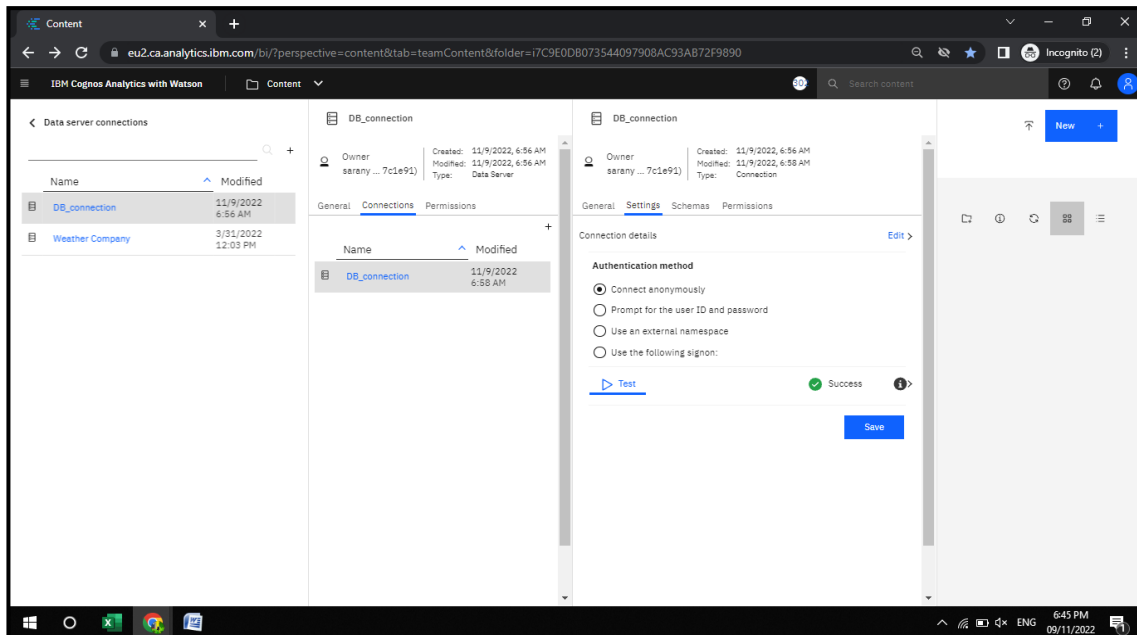
```
[ ] !unzip /content/kaggle.zip
```

The output of the unzip command is:

```
Archive: /content/kaggle.zip
replace kaggle.json? [y]es, [n]o, [A]ll, [N]one, [r]ename:
```

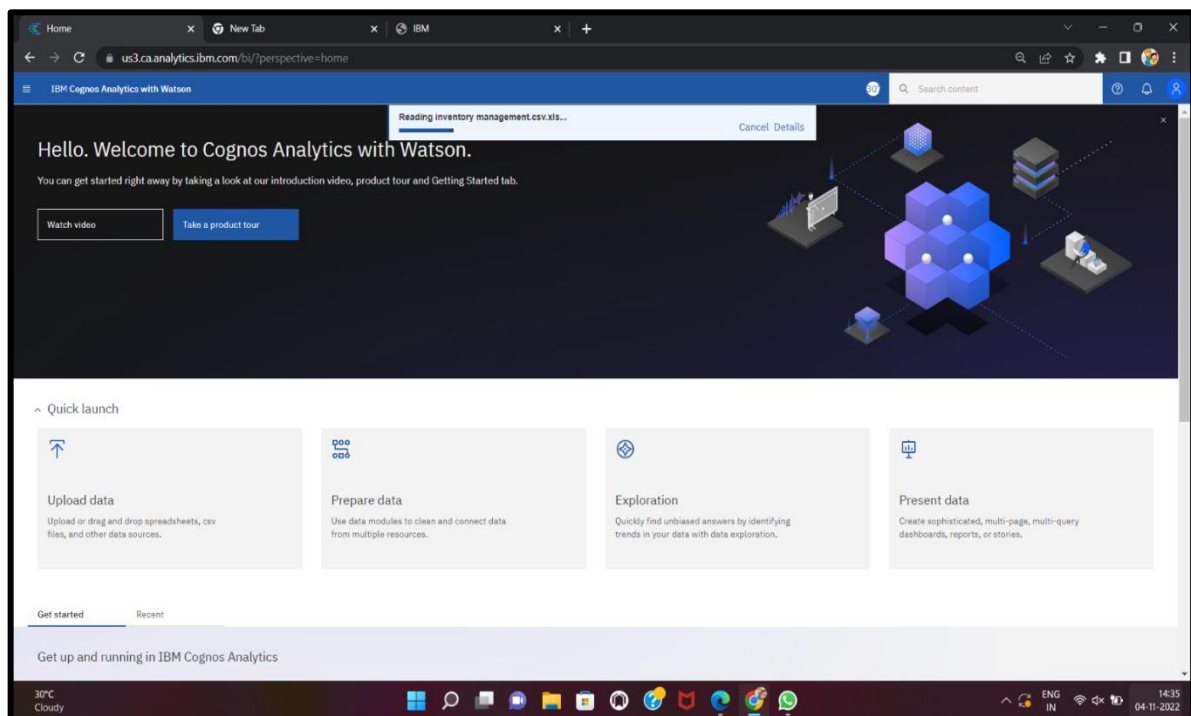
The notebook interface includes a menu bar with options like File, Edit, View, Insert, Runtime, Tools, and Help. The status bar at the bottom shows the time as 07:03 PM on 09-Nov-22.

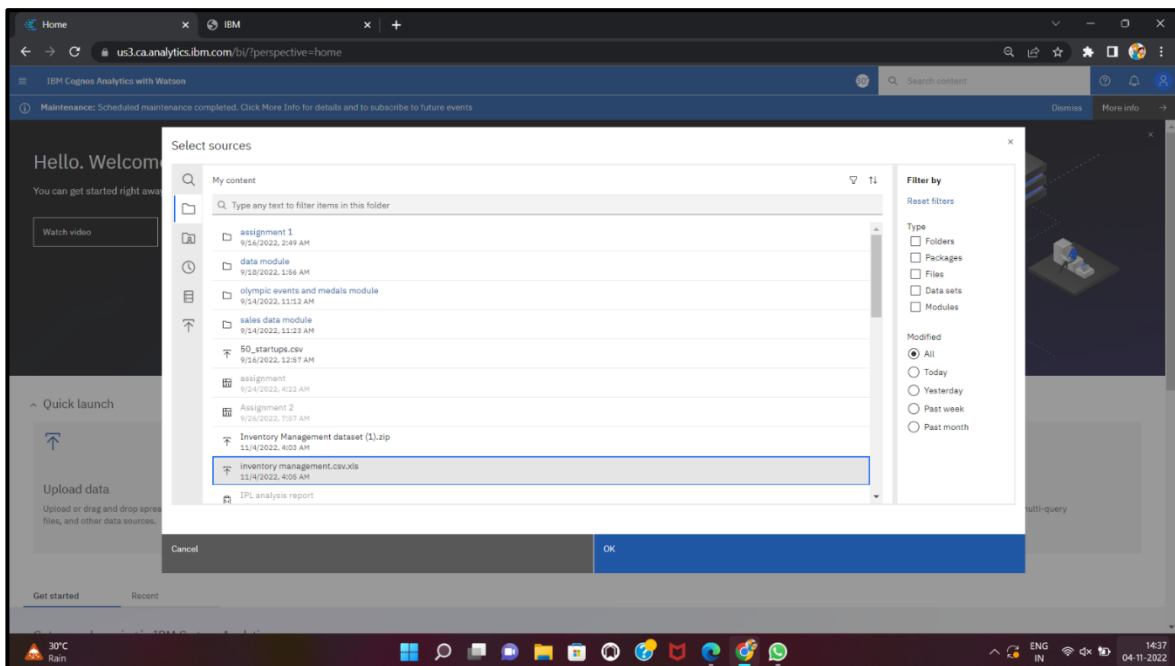
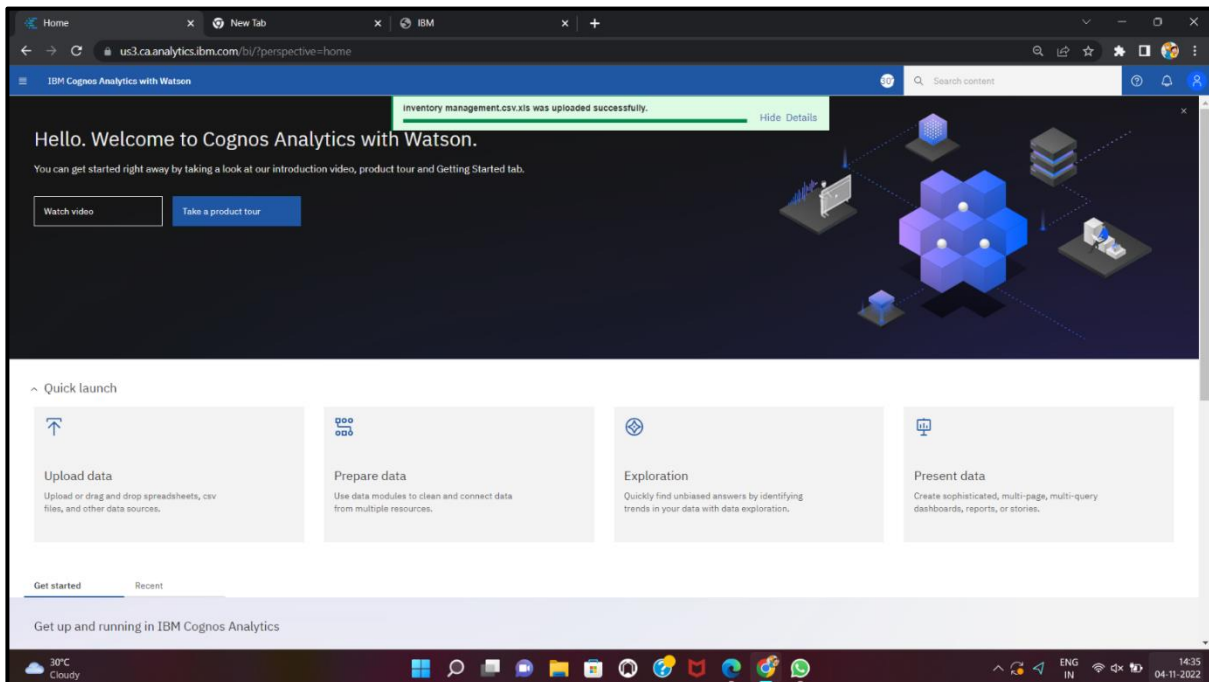
2.IBM DB2 SERVICE CREATION AND DB2 CONNECTIVITY WITH COGNOS



LOAD THE DATASET:

Tool used – IBM Cognos





MONTH DATA CALCULATION:

The screenshot shows the 'Create calculation' dialog in IBM Cognos Analytics. The 'Name' field is set to 'Month data'. The 'Components' list on the left includes 'inventory ma...ent.csv.xls', '# Row Id', 'data', 'venda', 'estoque', and 'preco'. The 'Expression' field contains the formula: `1 Month (data_)`. The 'Preview' section shows the execution time as 1.889 seconds and displays a table with two columns: 'Month data' and 'data'.

Month data	data
1	2014-01-01
2	2014-02-01

At the bottom, there is a checkbox for 'Calculate after aggregation' and buttons for 'Cancel' and 'OK'.

SALES CALCULATION:

The screenshot shows the 'Create calculation' dialog in IBM Cognos Analytics. The 'Name' field is set to 'Sales'. The 'Components' list on the left includes 'inventory ma...ent.csv.xls', '# Month data', '# Row Id', 'data', 'Sales', 'Stock', and 'Price'. The 'Expression' field contains the formula: `1 IF (venda = 0) THEN (median (venda)) ELSE (venda)`. The 'Preview' section shows the execution time as 1.018 seconds and displays a table with two columns: 'Sales' and 'Sales'.

Sales	Sales
76	0
70	70

At the bottom, there is a checkbox for 'Calculate after aggregation' and buttons for 'Cancel' and 'OK'.

STOCK CALCULATION:

Create calculation

Name: Stock

Expression: `IF (venda = 0) THEN (median (venda)) ELSE {venda }`

Components:

- inventory m...ent.csv.xls
 - Sales
 - # Month data
 - # Row Id
 - data
 - Sales
 - Stock
 - Price

Preview (Execution time: 1.115 seconds)

Stock	Sales
76	0
70	70

☐ Calculate after aggregation

Cancel OK

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Search content

IBM Cognos Analytics with Watson

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Properties

Data module

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Navigation paths

Inventory m_ent.csv.xls

Sales

Month data

Row Id

data

Sales

Stock

Price

Grid

Relationships

Custom tables

TL	Sales	Month data	Row Id	data	Sales	Stock	Price
76	1	1	2014-01-01	0	4972	1.29	
70	2	2	2014-02-01	70	4902	1.29	
59	3	3	2014-03-01	59	4843	1.29	
93	4	4	2014-04-01	93	4750	1.29	
96	5	5	2014-05-01	96	4654	1.29	
145	6	6	2014-06-01	145	4509	1.29	
179	7	7	2014-07-01	179	4329	1.29	
321	8	8	2014-08-01	321	4104	1.29	
125	9	9	2014-09-01	125	4459	1.09	
88	10	10	2014-10-01	88	5043	1.09	
188	11	11	2014-11-01	188	5239	1.09	
121	12	12	2014-12-01	121	5118	1.09	
134	1	13	2014-01-13	134	4984	1.09	
80	1	14	2014-01-14	80	4904	1.09	
82	1	15	2014-01-15	82	4822	1.09	
94	1	16	2014-01-16	94	4728	1.19	
159	1	17	2014-01-18	159	4464	1.19	
199	1	18	2014-01-19	199	4265	1.19	
104	1	19	2014-01-20	104	4161	1.19	

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ENG IN

15:15 04-11-2023

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IBM Cognos Analytics with Watson

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Search content

Properties

Data module

Grid

Relationships

Custom tables

Search

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Navigation paths

Inventory m...ent.csv.xls

Sales

Month data

Row Id

data

Sales

Stock

Price

Tl	Sales	Month data	Row Id	data	Sales	Stock	Price
76	1	1	2014-01-01	0	4972	1.29	
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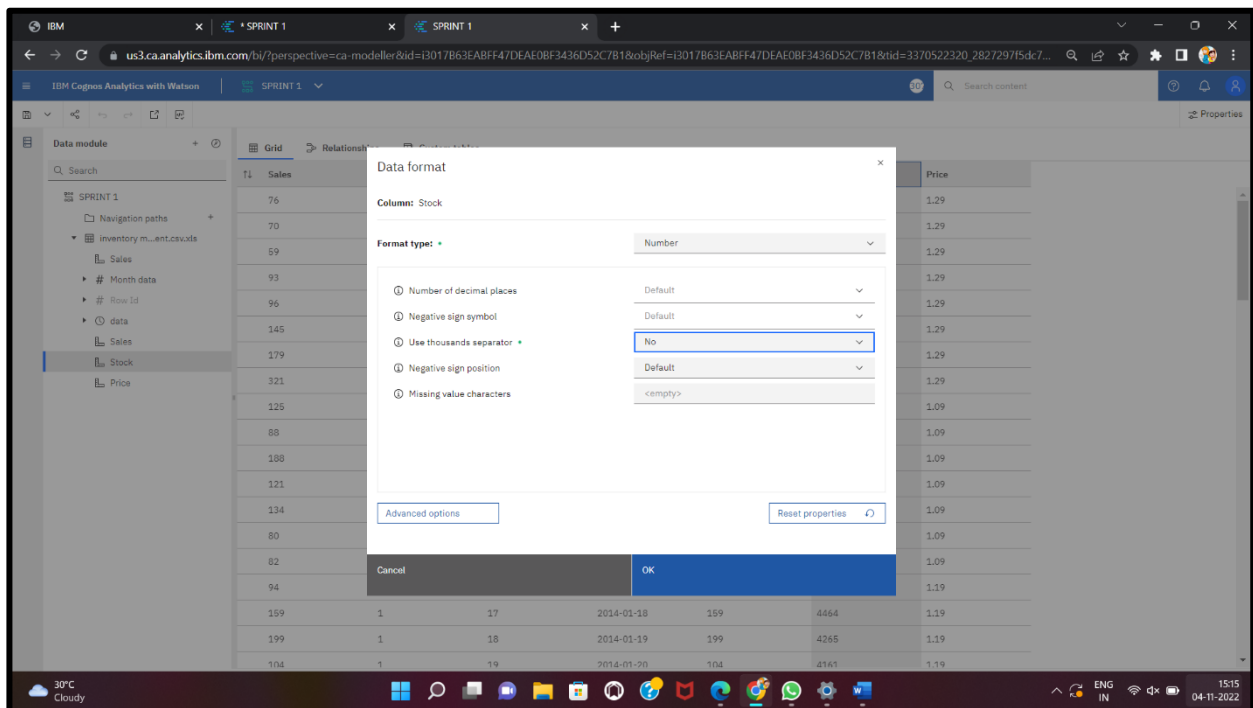
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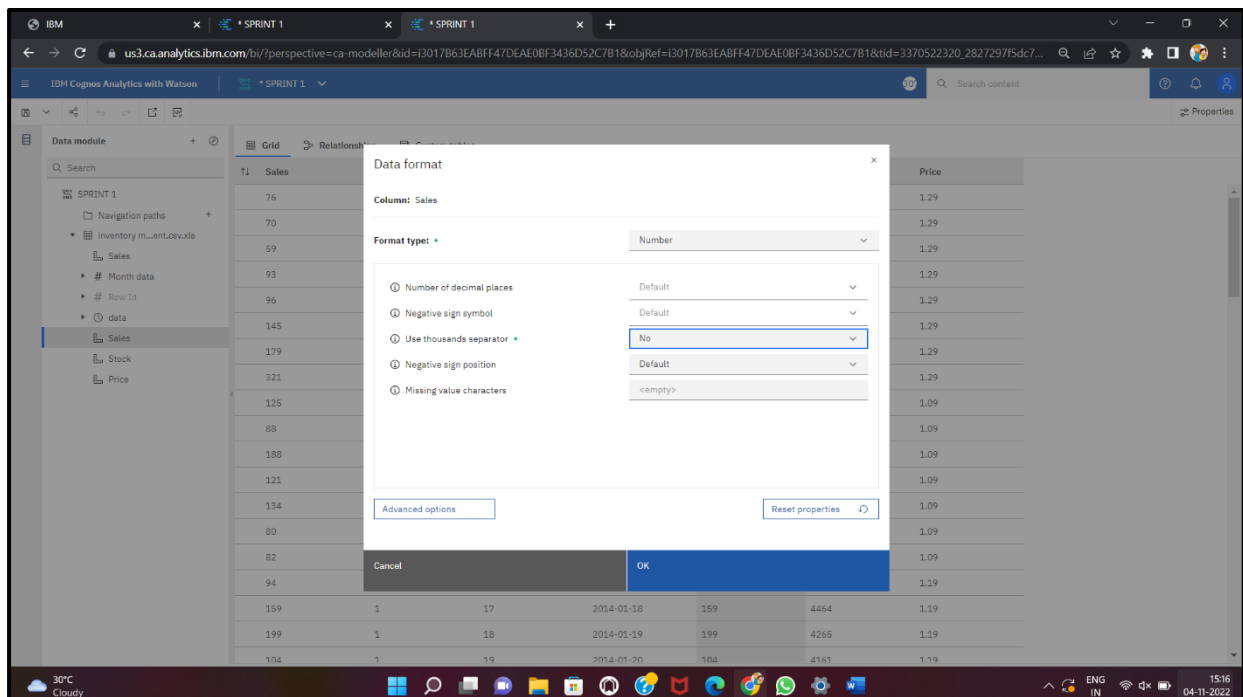
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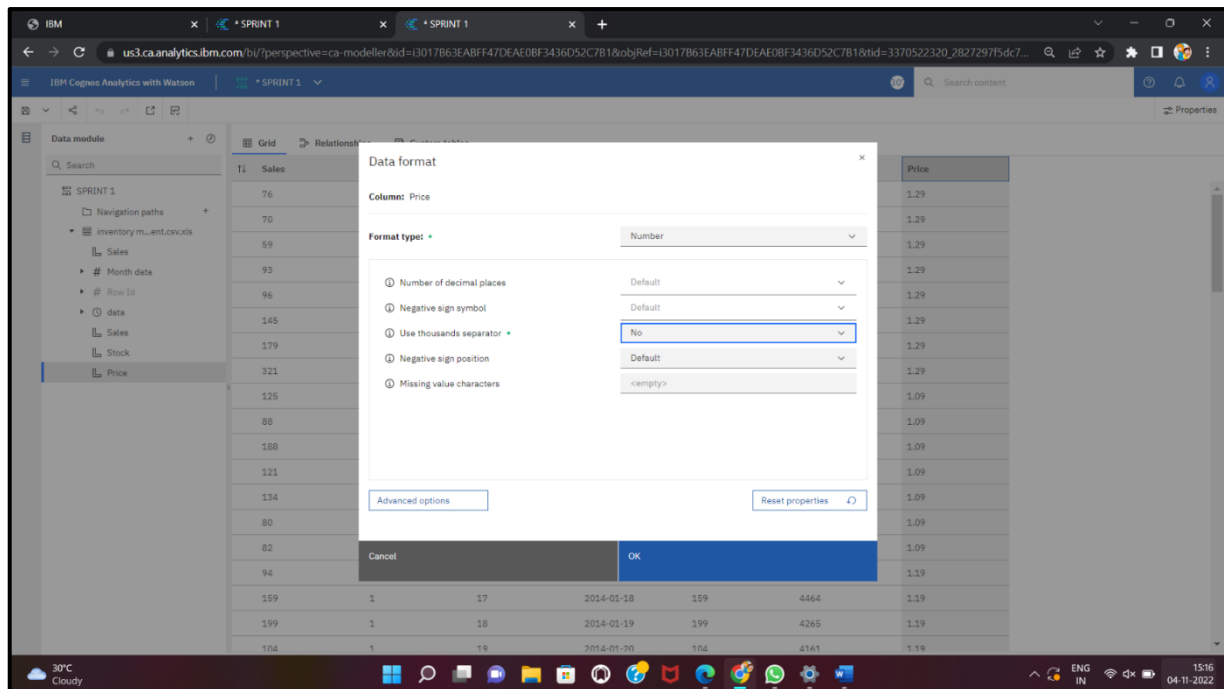
STOCK FORMAT DATA:



SALES FORMAT DATA:



PRICE FORMAT DATA:



PREPARED DATASET LINK:

https://us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i3017B63EABFF47DEAE0BF3436D52C7B1&objRef=i3017B63EABFF47DEAE0BF3436D52C7B1&tid=3370522320_2827297f5dc7459cb4083c3abbe96f08_sessionTemp