

Project Development Phase Delivery of Sprint-1

Team ID	PNT2022TMID51702
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:

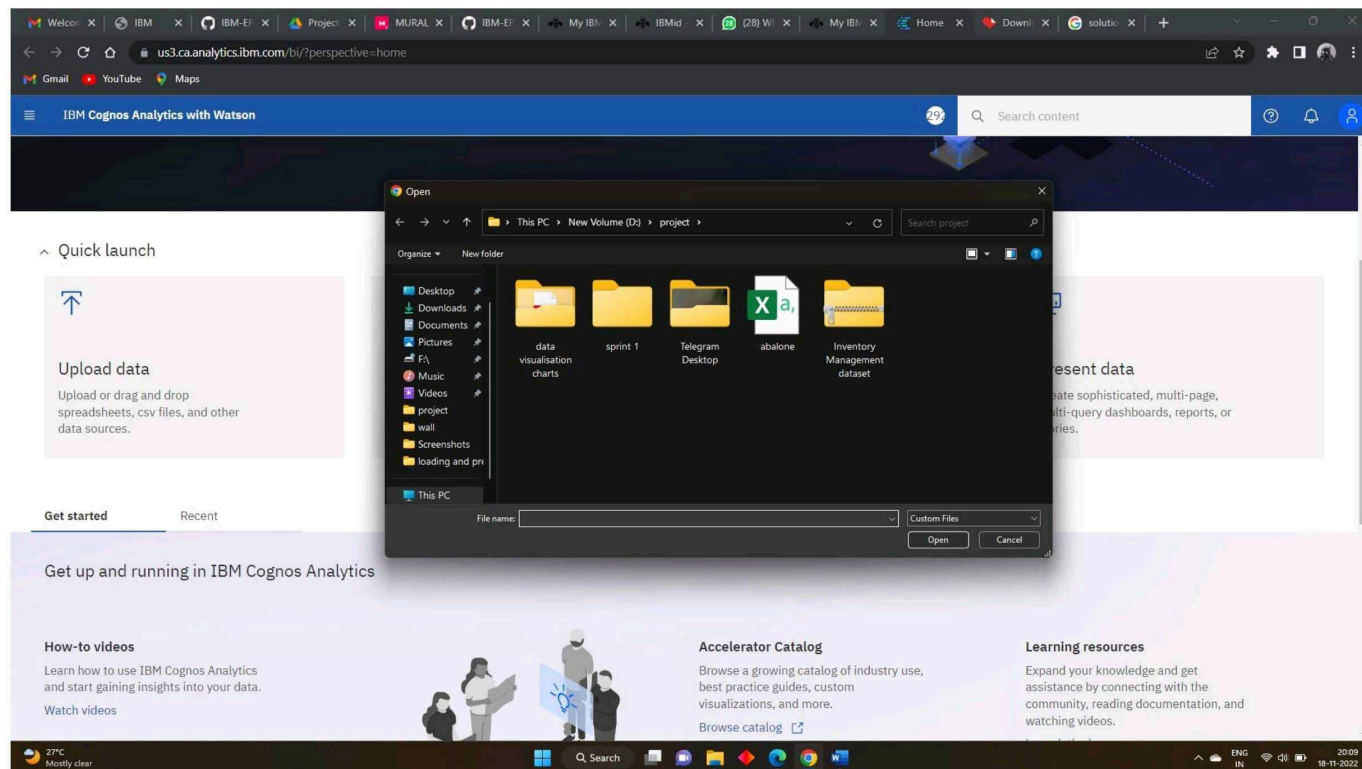
TOOL USED – IBM COGNOS

Prepared by :

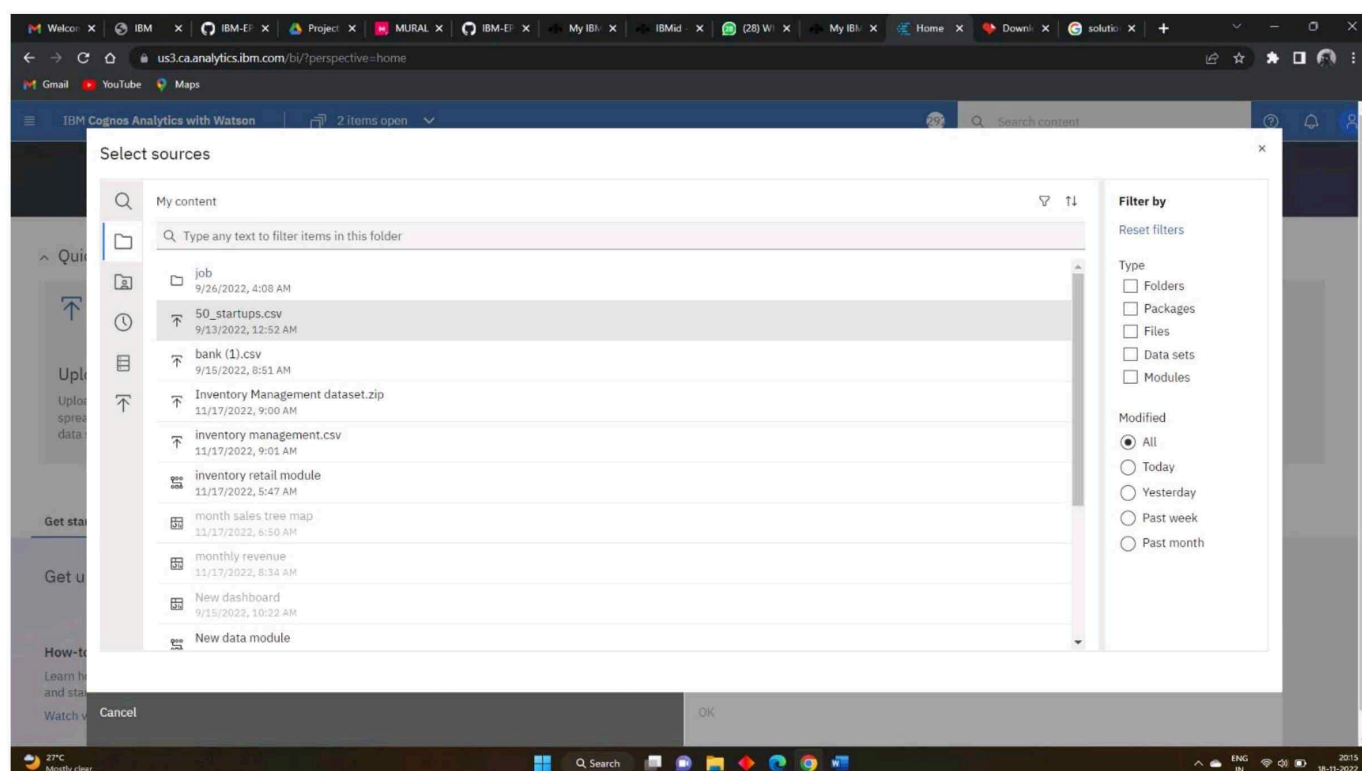
□ Jijo.J □ Abishek.M □ Sanoob samuel □ Jebin premer.X ,mohan Raj



Uploading the datasets



Prepare the dataset



Month data:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane displays a tree structure for 'mock_kaggle.csv' with fields: # Row Id, data, venda, estoque, and preco. The main area shows a 'Grid' view of the data. The table has 14 rows and 5 columns. The columns are: Row Id, data, venda, estoque, and preco. The data represents monthly sales and inventory for January 2014.

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' pane on the left shows the same tree structure as the first screenshot, with 'data' selected. The 'Expression' field contains the formula `1 month(data_)`. Below the expression field, there is a 'Validation Results' section with a loading icon. At the bottom, there is a checkbox for 'Calculate after aggregation' (which is unchecked), and 'Cancel' and 'OK' buttons.

IBM Cognos Analytics with Watson

New data module

Search content

Properties

Data module

Grid

Relationships

Custom tables

m.data

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

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:

Revenue data

Create calculation

Name: C_sales

Components

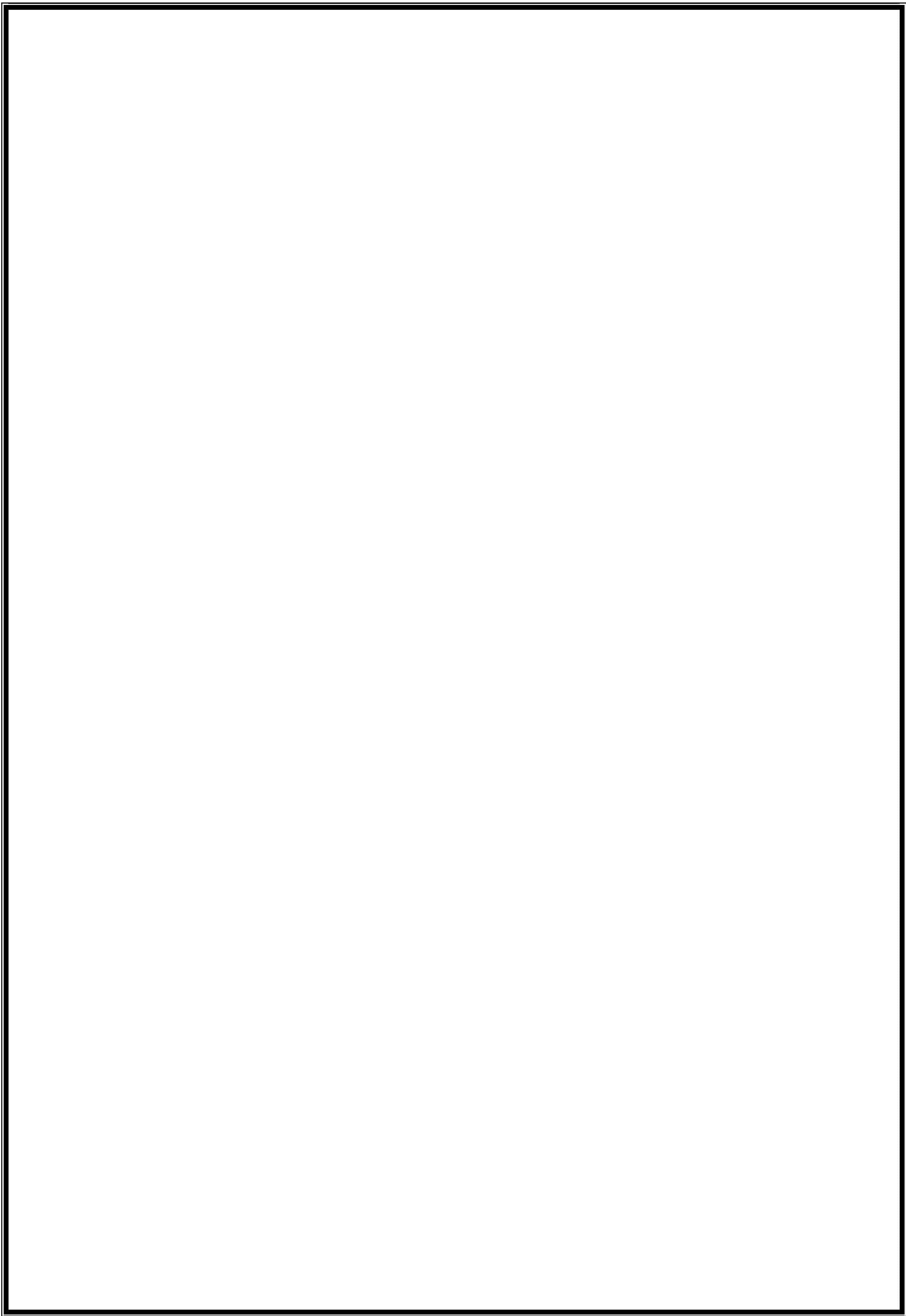
Expression

1 mock_kaggle_csv.venda * mock_kaggle_csv.precd

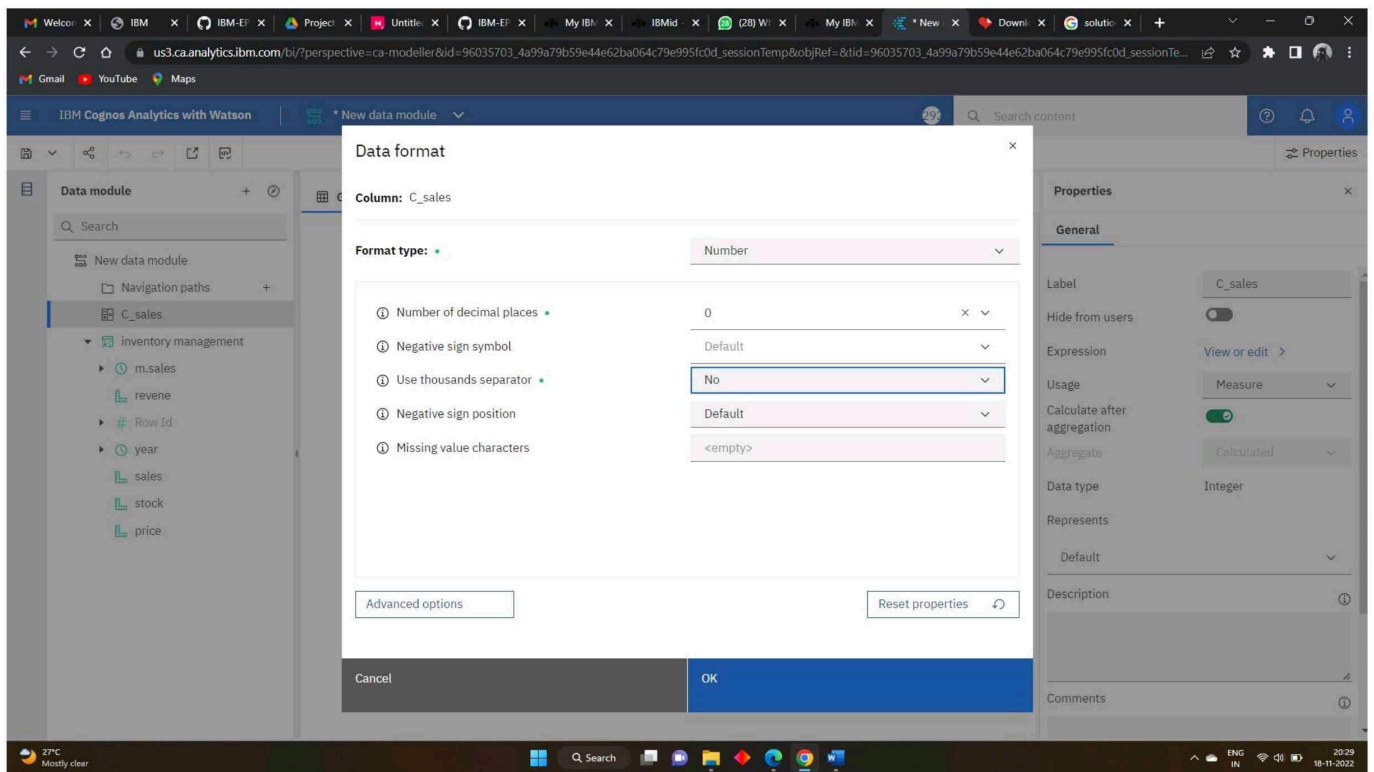
Information

Calculate after aggregation: ☒

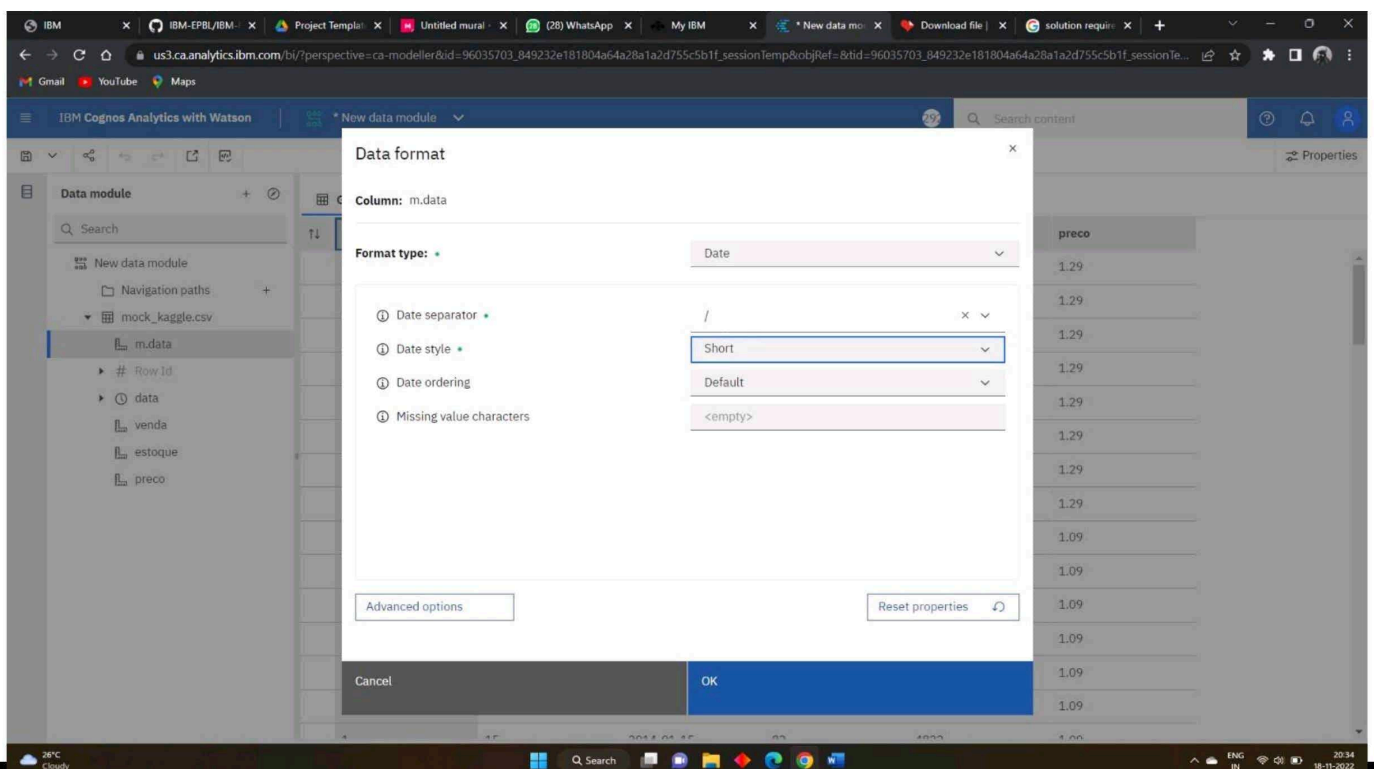
Cancel OK



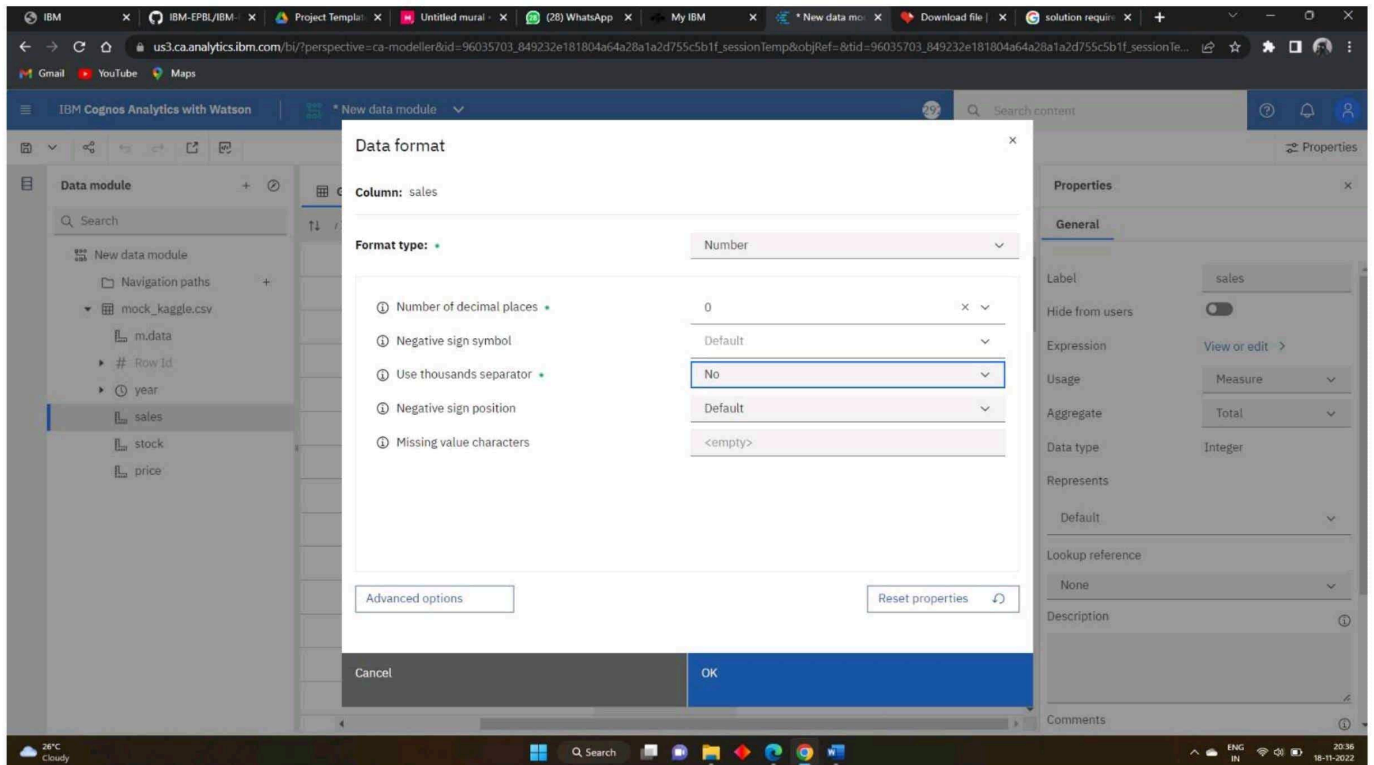
Format the datasets



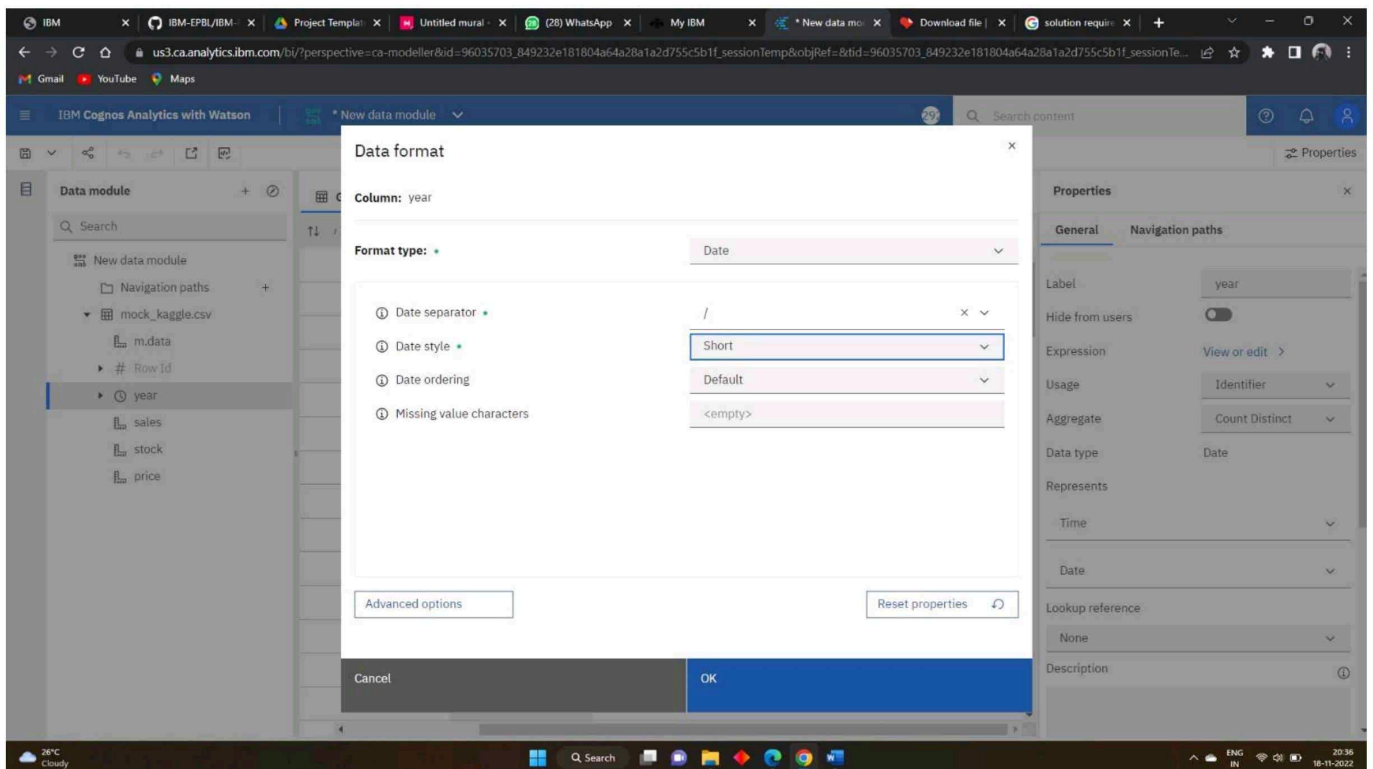
Format m.data



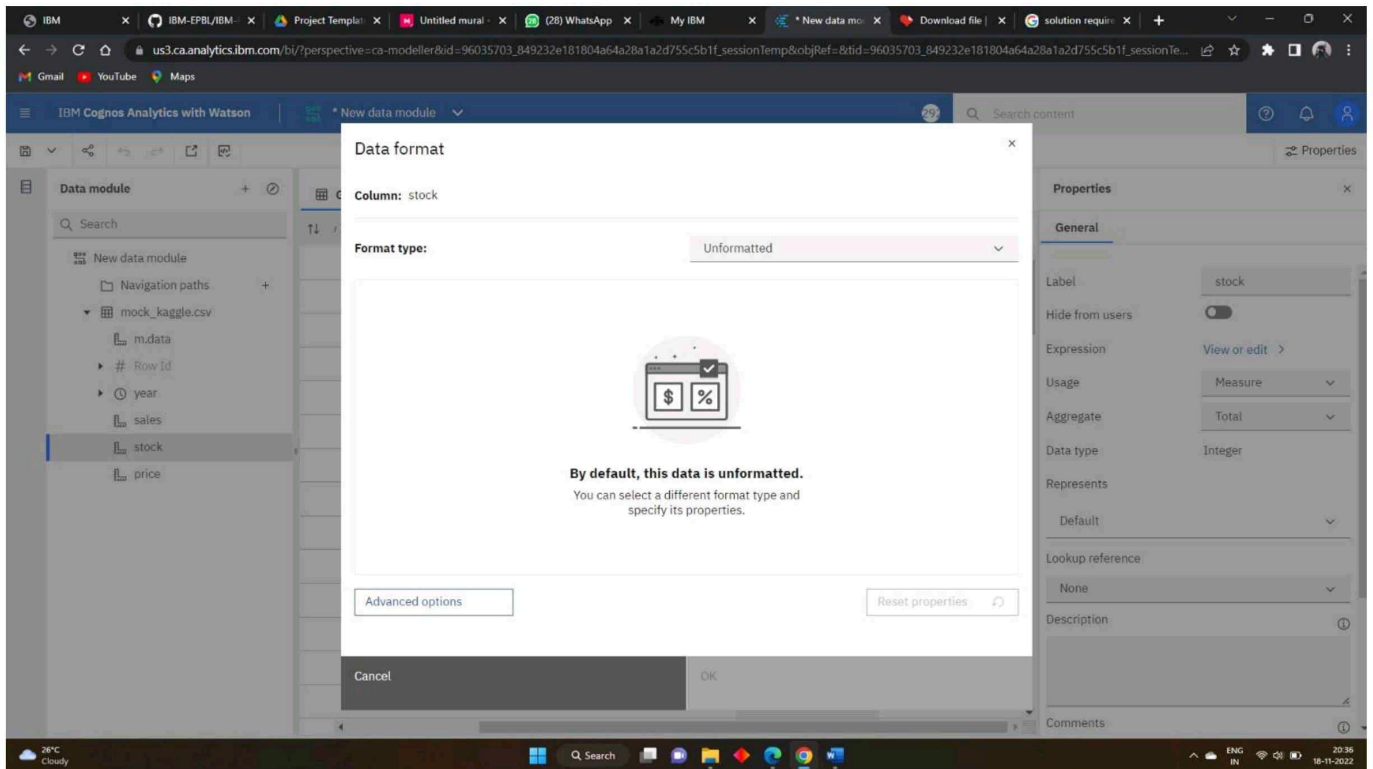
Format sales



Format year



Format stock



Rename the data by sales ,stock and price

Data module

Search

New data module

Navigation paths

mock_kaggle.csv

m.data

Row Id

data

sales

estoque

preco

Grid

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

New data module

Search content

Properties

Data module

Search

New data module

Navigation paths

mock_kaggle.csv

m.data

Row Id

data

sales

stock

preco

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

New data module

Search content

Properties

Data module

Search

New data module

Navigation paths

mock_kaggle.csv

m.data

Row Id

data

venda

estoque

preco

Data format

Column: m.data

Format type: Date

Date separator: /

Date style: Short

Date ordering: Default

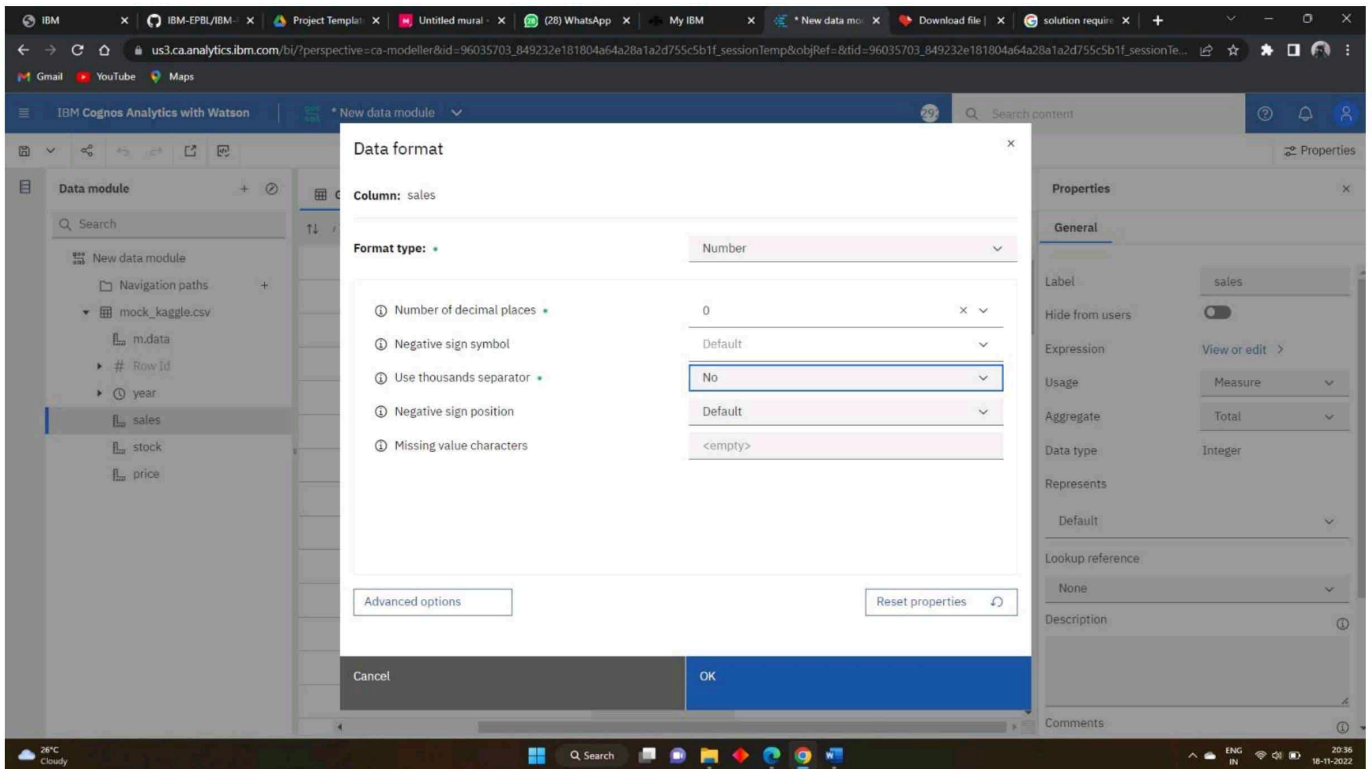
Missing value characters: <empty>

Advanced options

Reset properties

Cancel

OK



properties

Properties

General Filters Relationships

Label: mock_kaggle.csv

Hide from users: ☐

Description

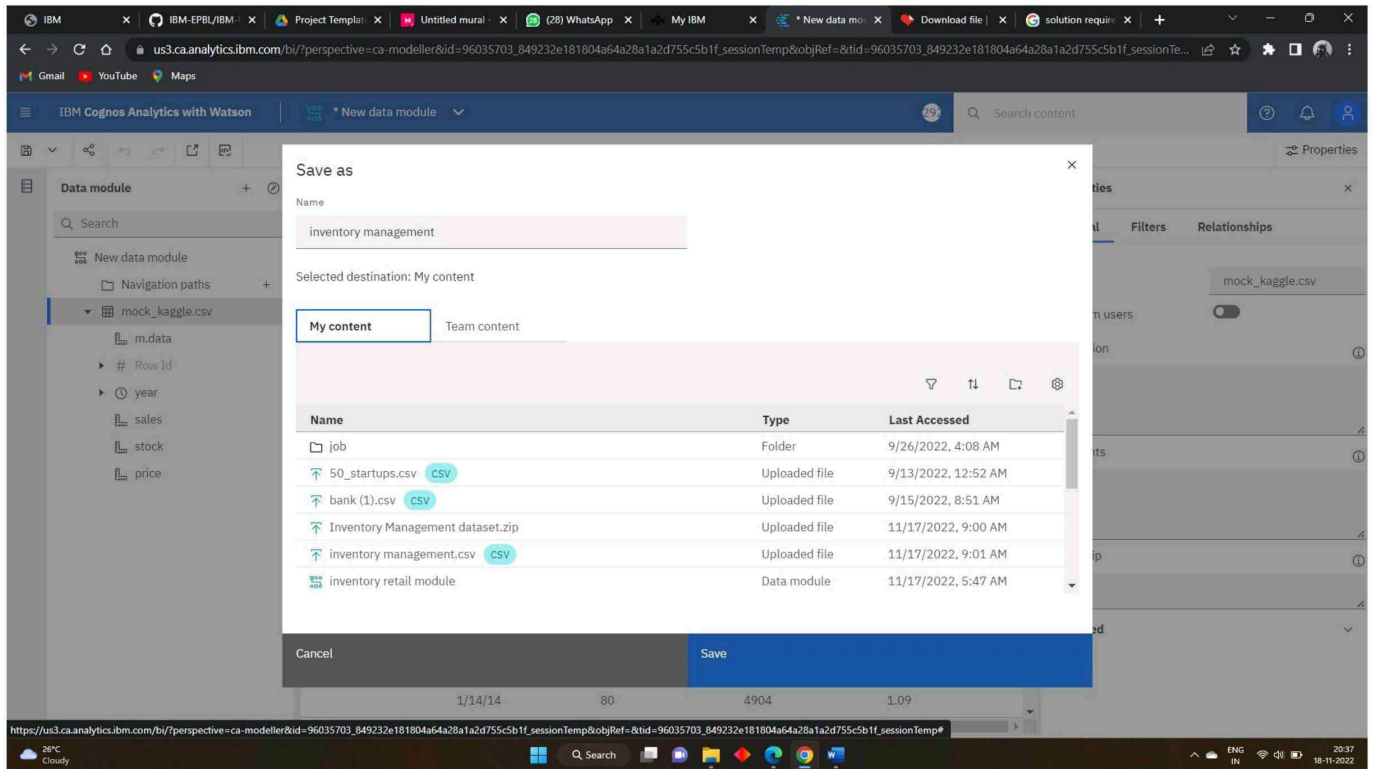
Comments

Screen tip

Advanced

Id	year	sales	stock	price
1/1/14	0	4972	1.29	
1/2/14	70	4902	1.29	
1/3/14	59	4843	1.29	
1/4/14	93	4750	1.29	
1/5/14	96	4654	1.29	
1/6/14	145	4509	1.29	
1/7/14	179	4329	1.29	
1/8/14	321	4104	1.29	
1/9/14	125	4459	1.09	
1/10/14	88	5043	1.09	
1/11/14	188	5239	1.09	
1/12/14	121	5118	1.09	
1/13/14	134	4984	1.09	
1/14/14	80	4904	1.09	

save the module



Saved module

The screenshot shows the IBM Cognos Analytics interface with the 'new inventory management' module selected. The table displays data with the following columns: m.sales, reveue, Row Id, year, sales, stock, and price.

m.sales	reveue	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)