
DATA ANALYTICS WITH TABLEAU

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DATA SET:

SAMPLE-SUPERSTORE.XLS

TASK

Assignment-4

Task 1:- Create one fixed and one exclude LOD expression.

Task 2: Create any 2 map visualizations using geographical data.

Task 3: Create Top N and/or Dynamic dimension parameters and utilize those in your workbook.

Explain LOD Expression, Map Visualizations using geographical data and Top N, Dynamic dimension Parameters

LOD Expression :- Level of Detail (LOD) expressions are used to run complex queries involving many dimensions at the data source level instead of bringing all the data to Tableau interface.

Different types of LOD functions :-

There are three types LOD functions:-

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1) Fixed 2) Include

3) Exclude

Map Visualization using geographical data :-

Tableau is a tool for analyzing geographical data. It can automatically turn location data into interactive maps.

ZOOM Levels :- 16

In Map Visualization, Geographical fields are double click on the field the data pane and tableau will create a map using generated latitude and longitude fields.

Top N Parameter:-

Top N parameter uses a value selected by the user, where N is a value. The value can be static or controlled by a parameter.

Top N parameter is also known as Bottom N.

Tableau allows users to filter and display a certain percentage of their data.

Dynamic Dimension Parameters:-

Create a Parameter. Create a new Parameter that lists your dimensions.

Create a Calculated field that will be used as a dimension in your worksheet.

Dimension to display when a particular parameter value is selected.

Add the calculated fields to the canvas.

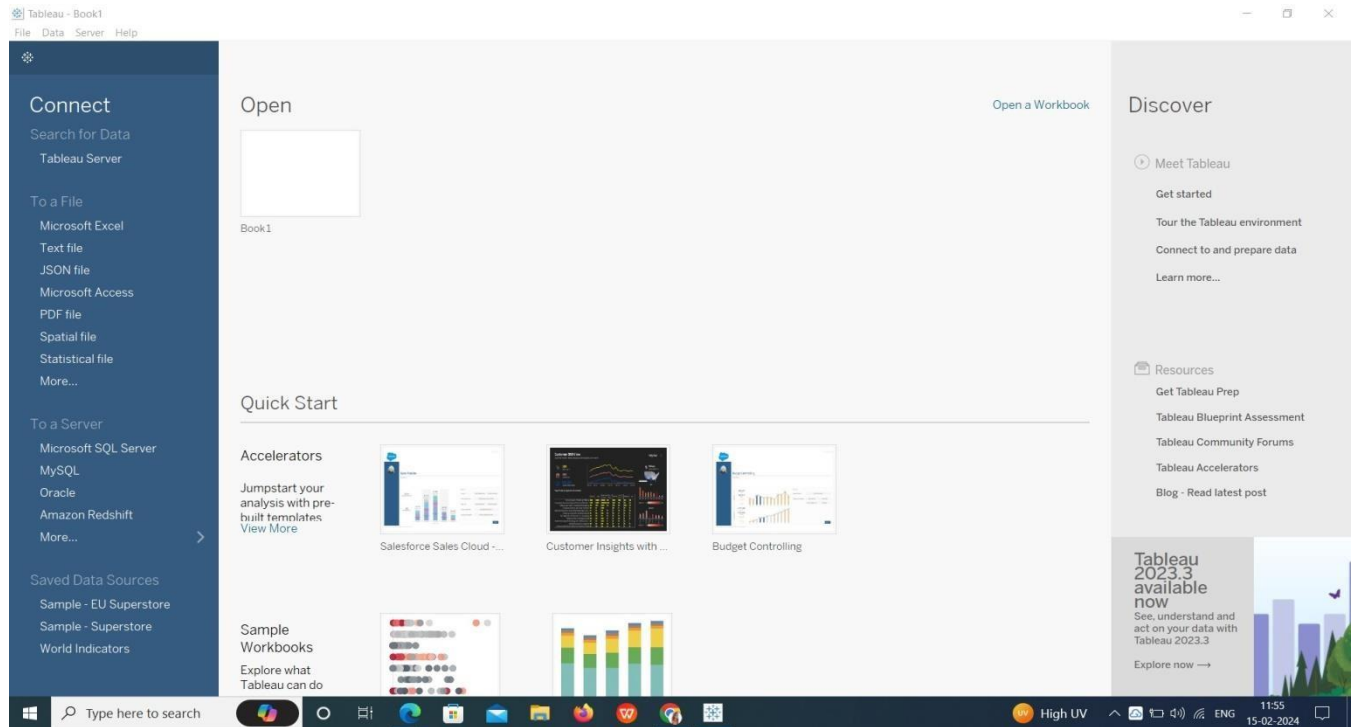
1) Colours

2) Filters

3) Select any ratings or price ranges.

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Tableau Starting:-



Upload the DataSet in Tableau:-

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Tableau - Book

File Data Server Window Help

Connections

Sample - Superstore
Microsoft Excel

Sheets

Orders
People
Returns

New Union
New Table Extension

Orders (Sample - Superstore (1))

Connection: Live Extract Filters: 0 Add

Need more data?
Drag tables here to relate them. [Learn more](#)

Orders 26 fields 10590 rows 100 rows

Name	Type	Field Name	Physical Table	Remote Field
Orders	#	Row ID	Orders+	Row ID
	Abc	Order ID	Orders+	Order ID
	Cal	Order Date	Orders+	Order Date

#	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name
1	CA-2016-152156	08-11-2016	11-11-2016	Second Class	CG-12520	Claire Gute
2	CA-2016-152156	08-11-2016	11-11-2016	Second Class	CG-12520	Claire Gute
3	CA-2016-138688	12-06-2016	16-06-2016	Second Class	DV-13045	Darrin Van Huff
4	US-2015-108966	11-10-2015	18-10-2015	Standard Class	SO-20335	Sean O'Donnell
5	US-2015-108966	11-10-2015	18-10-2015	Standard Class	SO-20335	Sean O'Donnell
6	CA-2014-115812	09-06-2014	14-06-2014	Standard Class	BH-11710	Brosina Hoffman

Data Source: High-value Customers Top-Performing Products Union Intersect Calculation Field1 Calculation Field2 Quick Table Calculation1 Quick Table Calculation2 Quick Table Calculation3 Sheet 10

Create One Fixed LOD Expression and one exclude LOD expression:-

One Fixed LOD:-

Tableau - BookA4

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Data Analytics Pages

Sample - Superstore

Search

Folders

Category
City
Country
Customer ID
Customer Name
Order Date
Order ID
Postal Code
Product Dimension
Product ID
Product Name
Region
Row ID
Segment
Ship Date
Ship Mode
State
Sub-Category
Measure Names
Discount
EXCLUDE product Count
FIXED product count
Profit

Parameters

Parameter 2
Select a Dimension
Top N

Columns: Measure Names

Rows: Customer Name Region Order ID Product Name

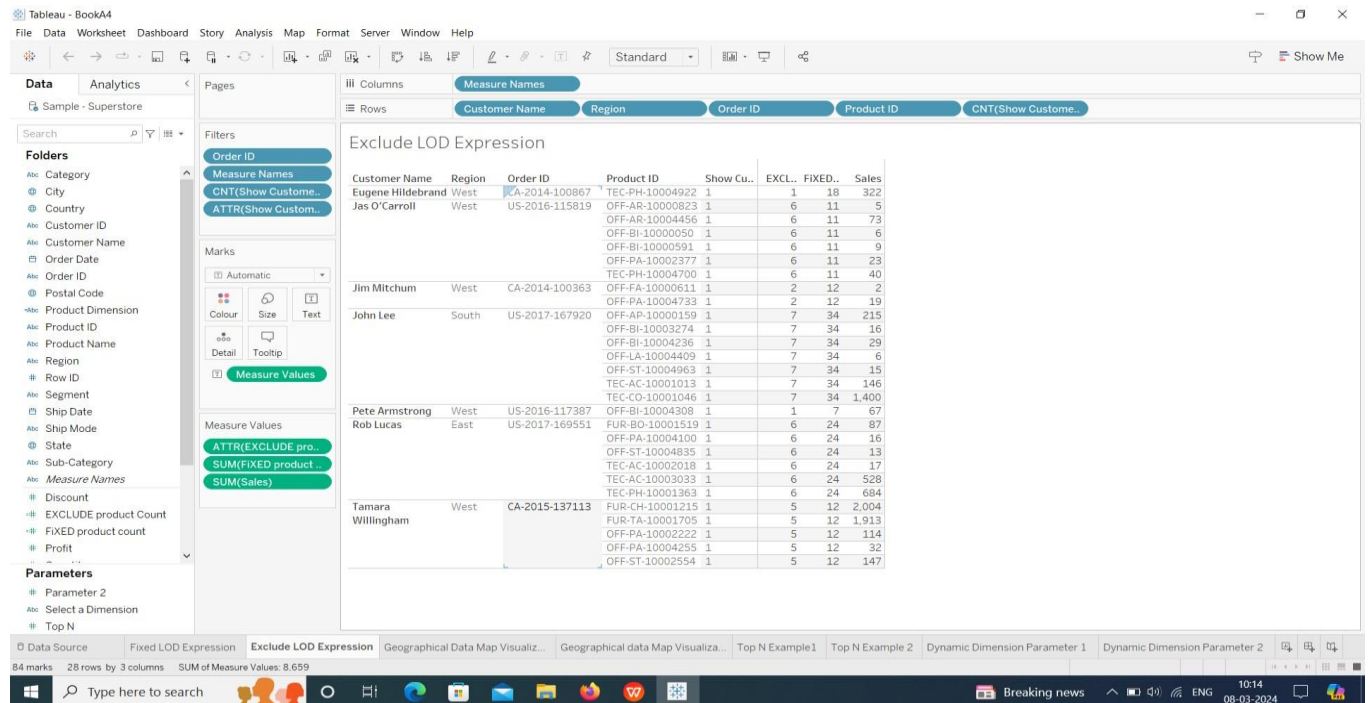
Fixed LOD Expression

Customer Name	Region	Order ID	Product Name	FIXED product count	Quantity	Sales
Adam	Central	CA-2017-145877	Staple envelope	25.0	5.0	28.4
Shillingsburg	South	US-2017-108063	Newell 309	25.0	3.0	34.7
Alan Shorely	South	CA-2015-150749	Newell 333	13.0	2.0	5.6
Luke Foster	East	CA-2015-109512	Staple envelope	16.0	3.0	29.3
Phillip Brown	South	CA-2014-107573	Staple envelope	11.0	3.0	23.5
Zuschuss	West	CA-2014-143336	Cisco SPA 501G IP P.	9.0	3.0	213.5
Donatelli			Newell 341	9.0	2.0	8.6
			Wilson Jones Hangi...	9.0	4.0	22.7
		CA-2017-141481	Kensington 6 Outlet...	9.0	3.0	61.4

27 marks 9 rows by 3 columns SUM of Measure Values: 581.6

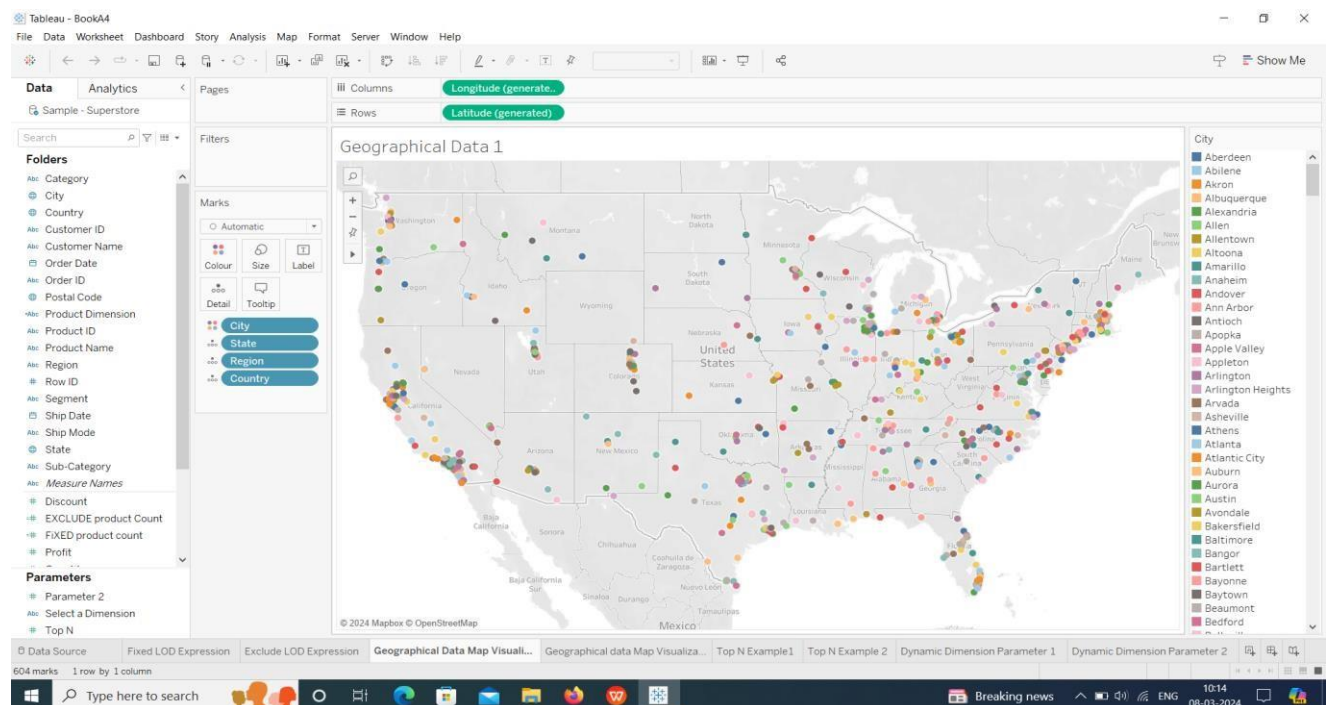
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One Exclude LOD Expression:-



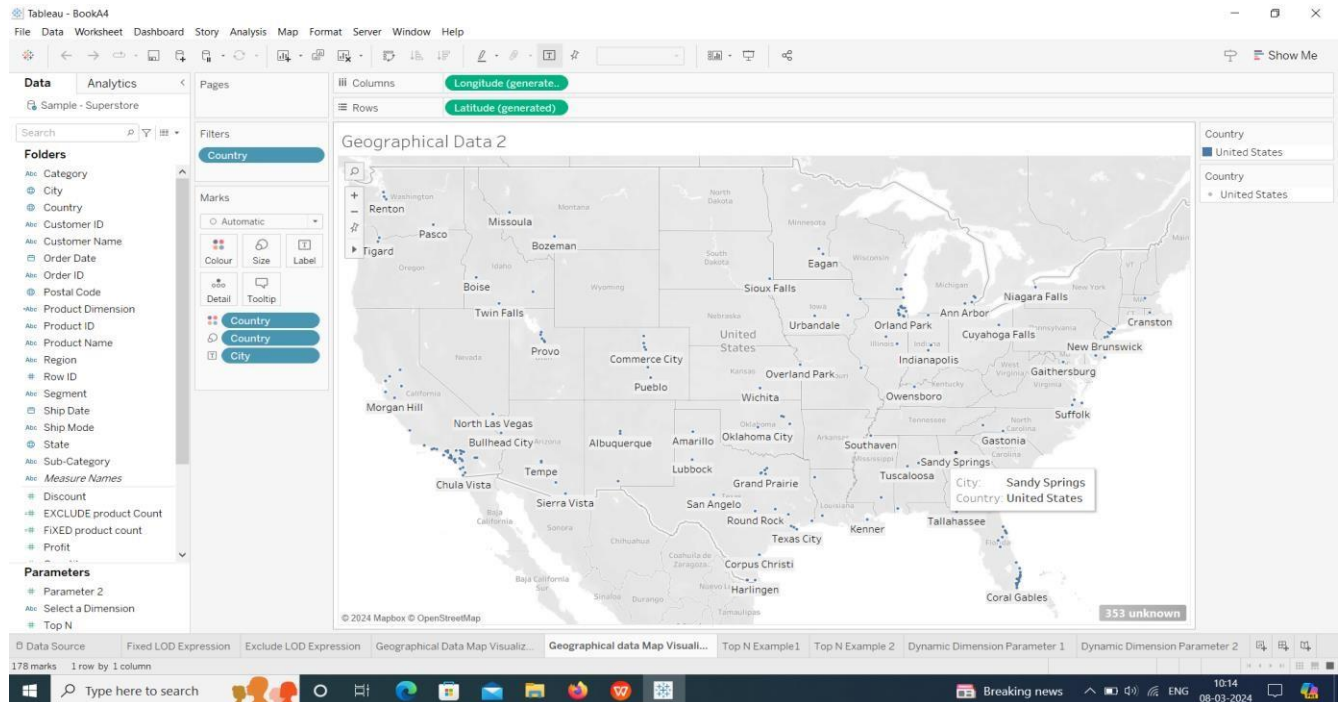
Create any 2 map visualizations using geographical data:- Map

visualization 1:-



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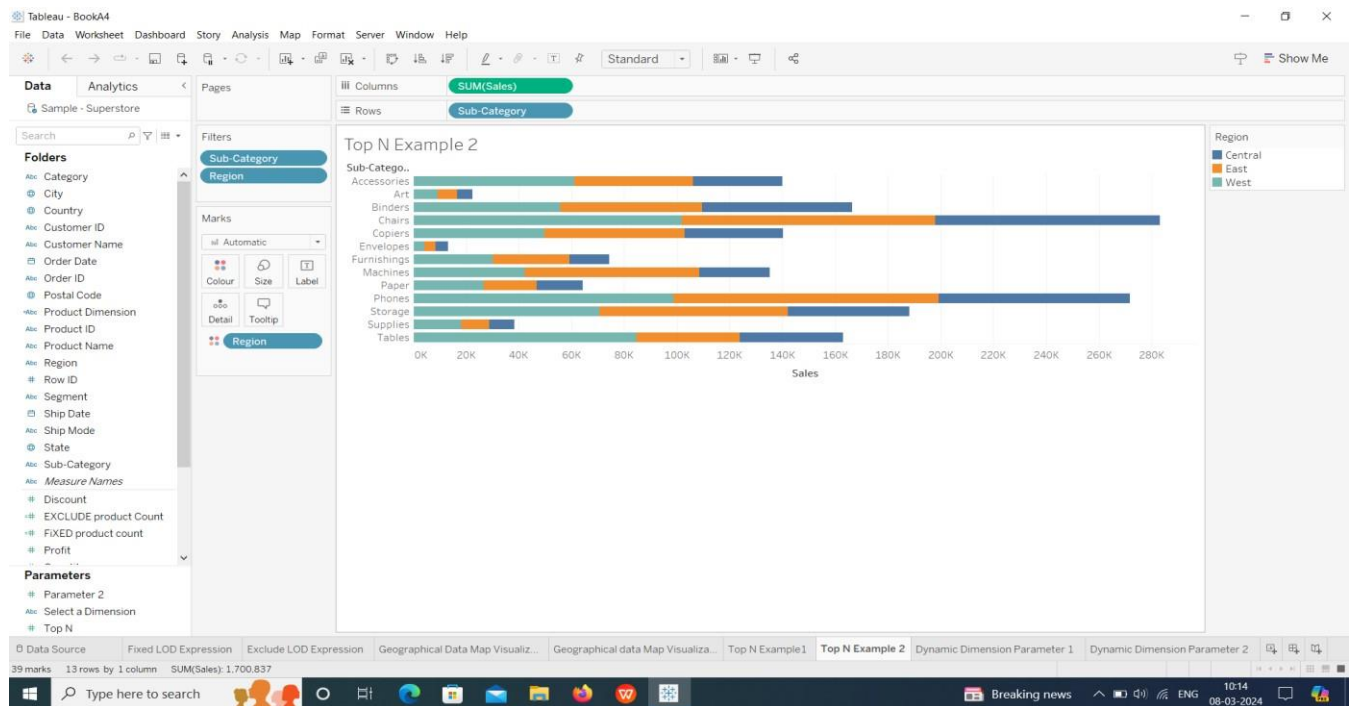
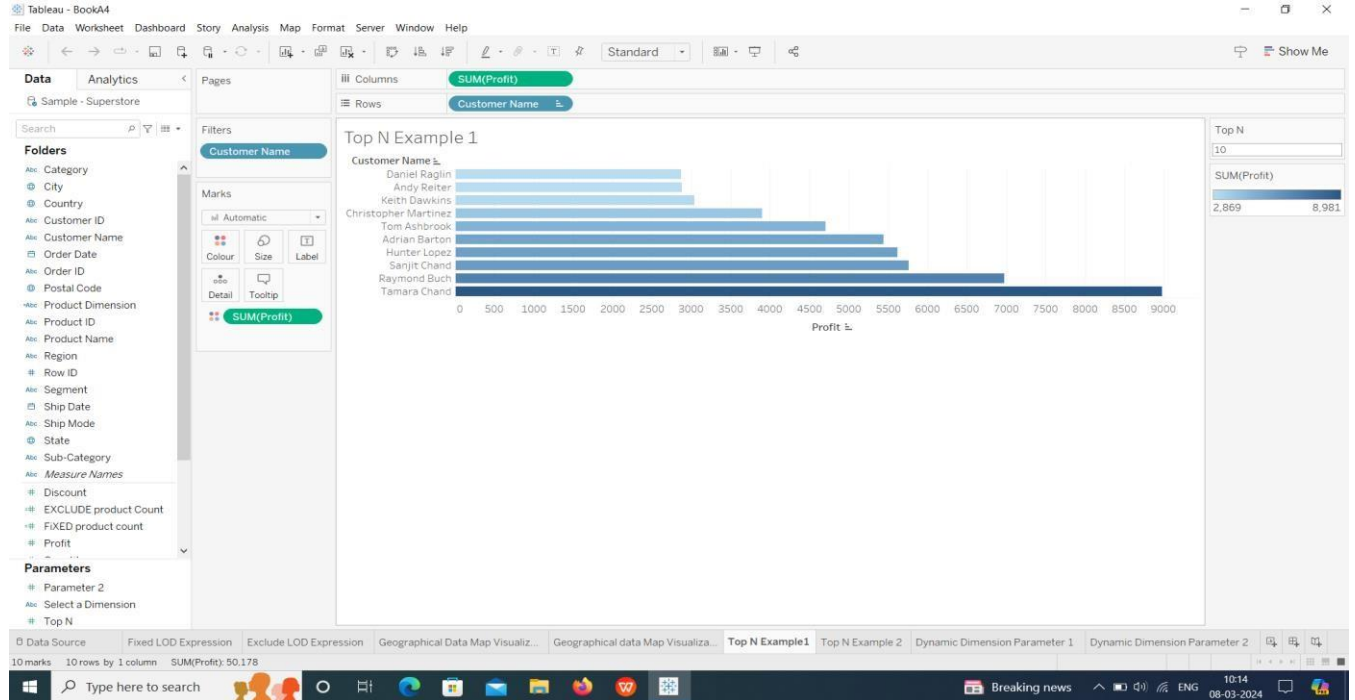
Map visualization 2:-



Create Top N and/or Dynamic dimension parameters and utilize those in your workbook:-

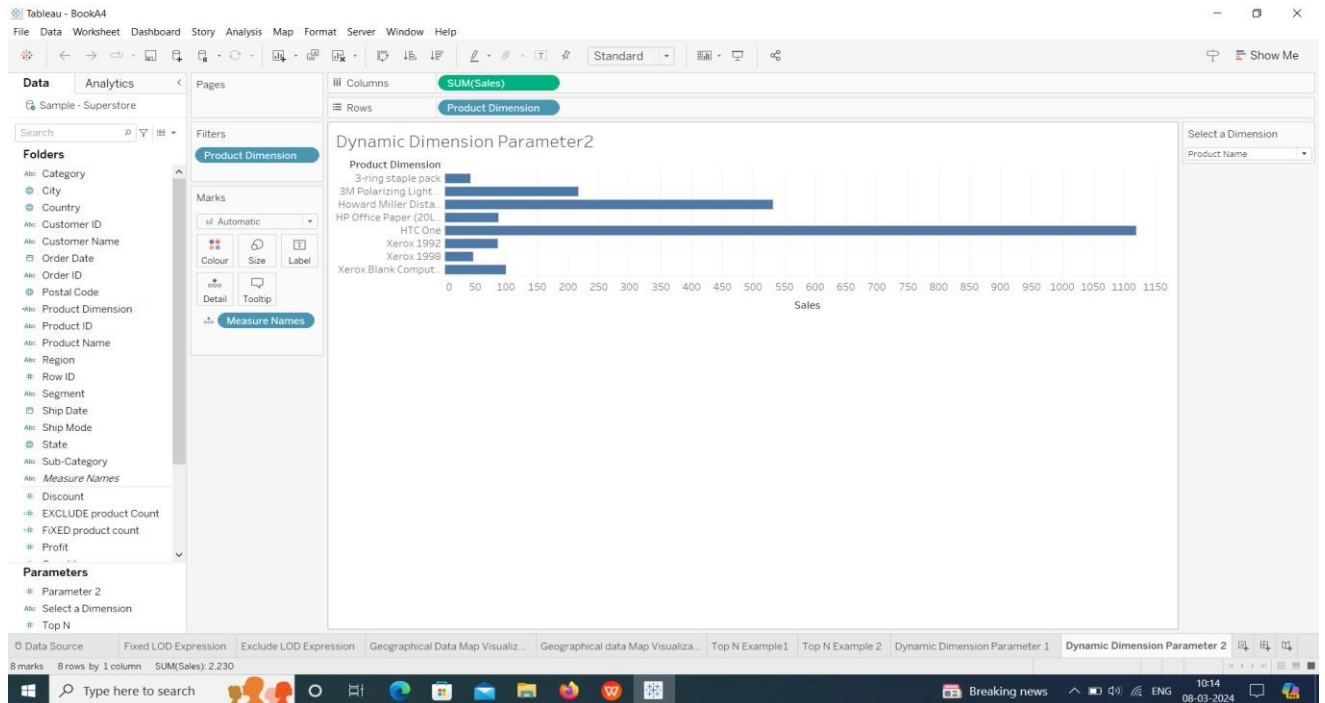
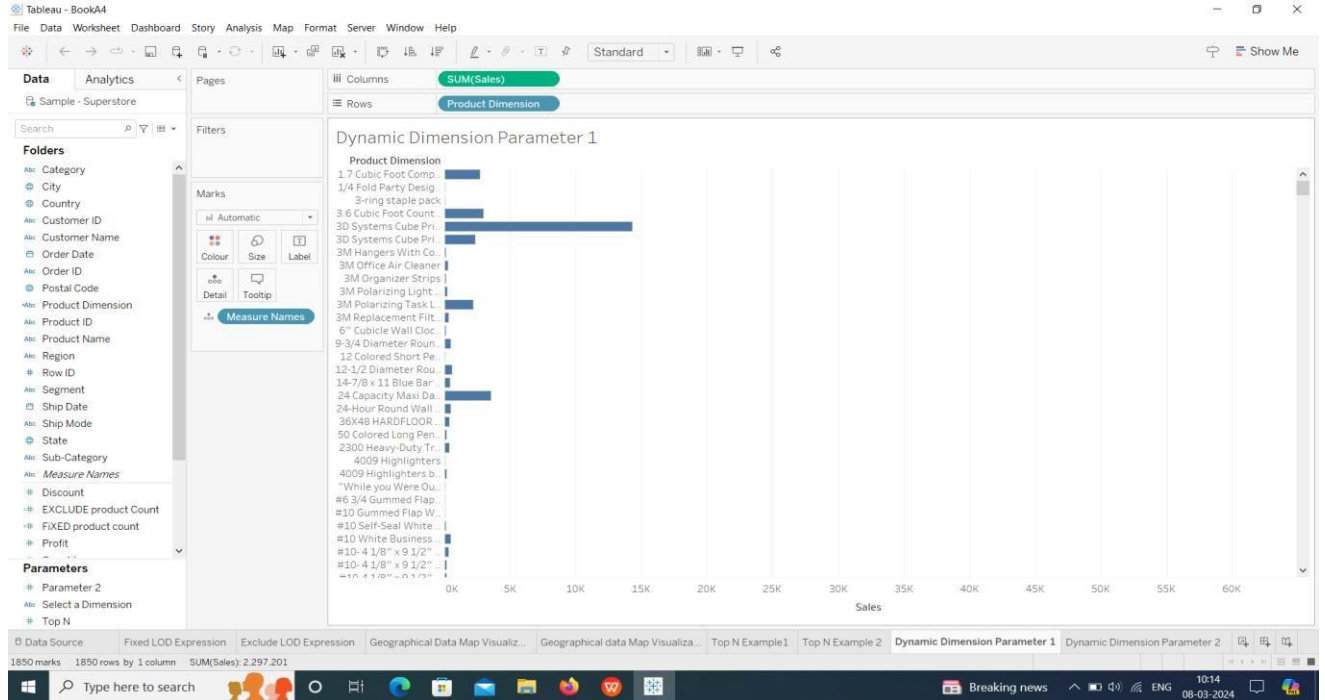
Top N Parameters:-

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Dynamic Dimension Parameter 1:-

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THANK YOU!

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