
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.

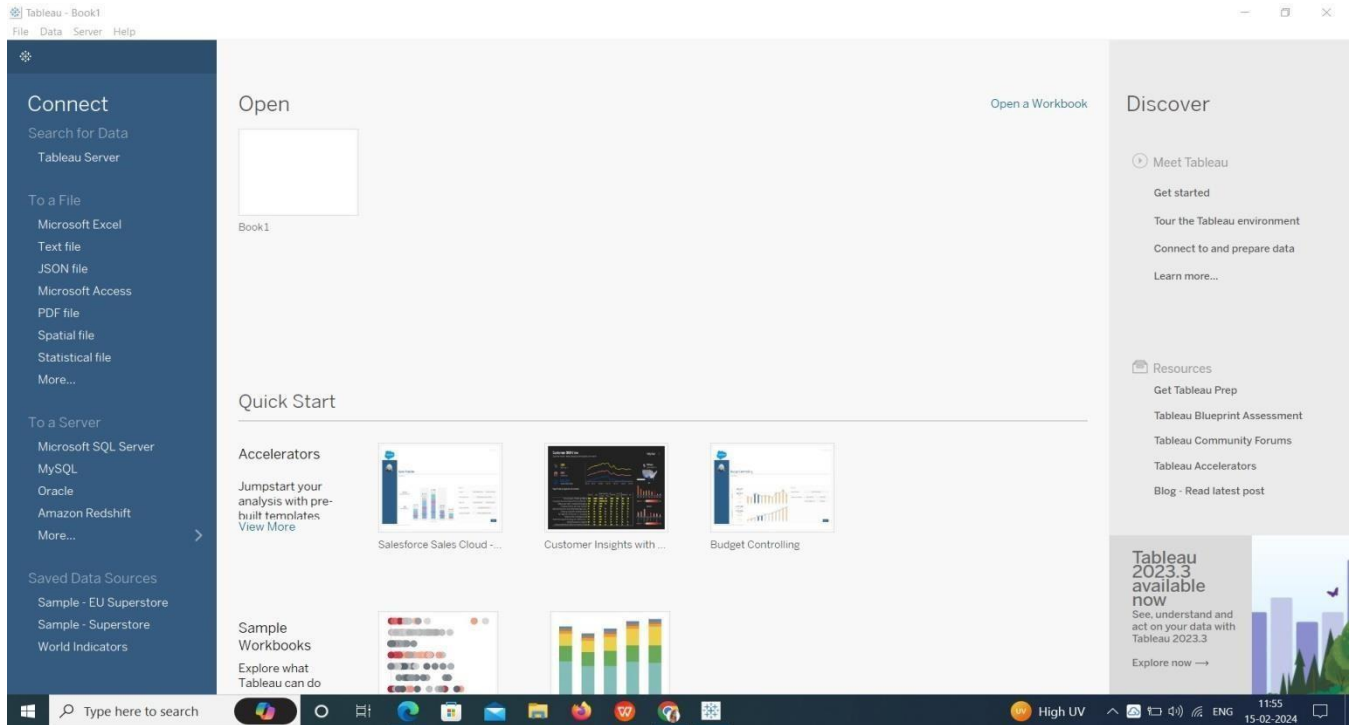
1) Colours

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 Add

Sample - Superstore
Microsoft Excel

Sheets

- Orders
- People
- Returns
- New Union
- New Table Extension

Orders (Sample - Superstore (1))

Connection: Live Extract Filters: 0 Add

Orders

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

Orders 26 fields 10590 rows 100 rows

Name	Orders
Row ID	Order ID
Order Date	Ship Date
Ship Mode	Customer ID
Customer Name	

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

Row ID	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:-

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One Fixed LOD:-

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File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Standard

Pages

Data Analytics

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 N.	Region	Order ID	Product Name	FIXED.. Quant..	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 Shonely	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
Philip 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

One Exclude LOD Expression:-

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File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Standard

Pages

Data Analytics

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 ID CNT(Show Customer..)

Exclude LOD Expression

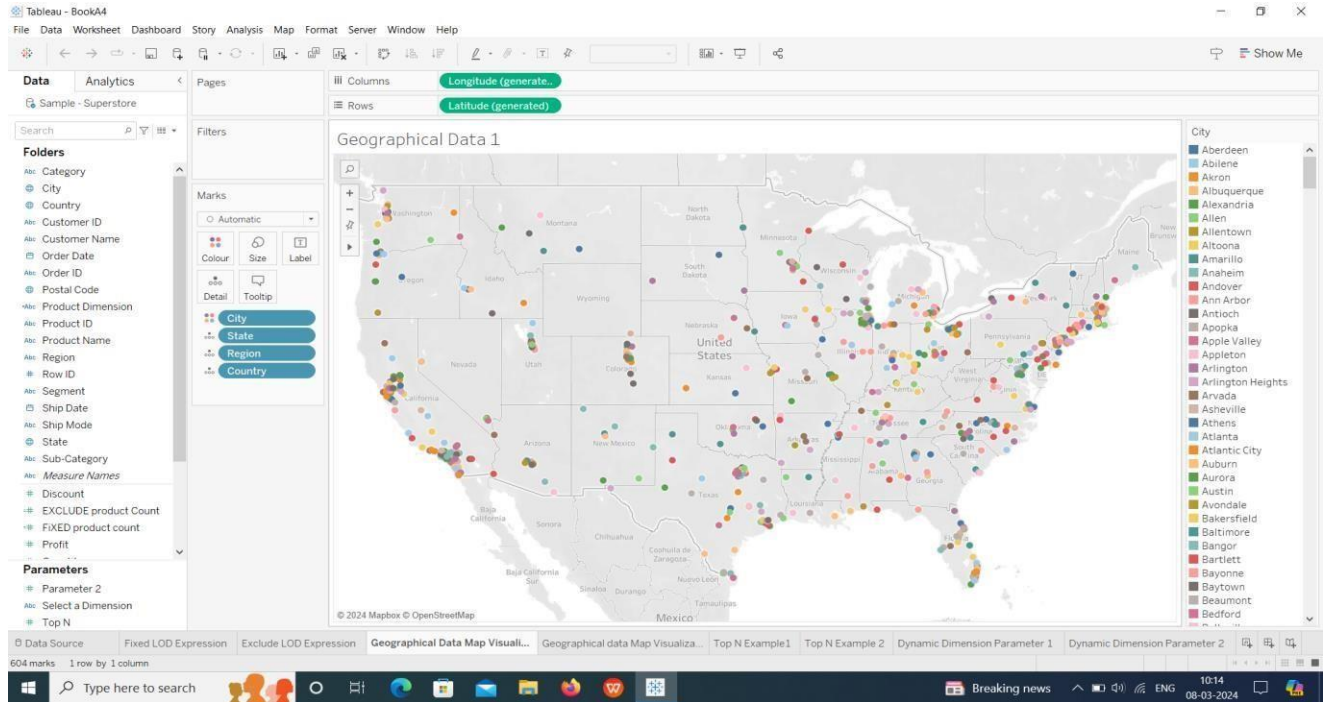
Customer Name	Region	Order ID	Product ID	Show Cu.	EXCL.	FIXED..	Sales
Eugene Hildebrand	West	CA-2014-100867	TEC-PH-10004922	1	1	18	322
Jas O'Carroll	West	US-2016-115819	OFF-AR-10000823	1	6	11	5
			OFF-AR-10004456	1	6	11	73
			OFF-BI-10000050	1	6	11	6
			OFF-BI-10000591	1	6	11	9
			OFF-PA-10002377	1	6	11	23
			TEC-PH-10004700	1	6	11	40
Jim Mitchum	West	CA-2014-100363	OFF-FA-10000611	1	2	12	2
			OFF-PA-10004733	1	2	12	19
John Lee	South	US-2017-167920	OFF-AP-10000159	1	7	34	215
			OFF-BI-10003274	1	7	34	16
			OFF-BI-10004236	1	7	34	29
			OFF-LA-10004409	1	7	34	6
			OFF-ST-10004963	1	7	34	15
			TEC-AC-10001013	1	7	34	146
			TEC-CO-10001046	1	7	34	1,400
Pete Armstrong	West	US-2016-117387	OFF-BI-10004308	1	1	7	67
Rob Lucas	East	US-2017-169551	FUR-BO-10001519	1	6	24	87
			OFF-PA-10004100	1	6	24	16
			OFF-ST-10004835	1	6	24	13
			TEC-AC-10002018	1	6	24	17
			TEC-AC-10003033	1	6	24	528
			TEC-PH-10001363	1	6	24	684
Tamara Willingham	West	CA-2015-137113	FUR-CH-10001215	1	5	12	2,004
			FUR-TA-10001705	1	5	12	1,913
			OFF-PA-10002222	1	5	12	114
			OFF-PA-10004255	1	5	12	32
			OFF-ST-10002554	1	5	12	147

84 marks 28 rows by 3 columns SUM of Measure Values: 8,659

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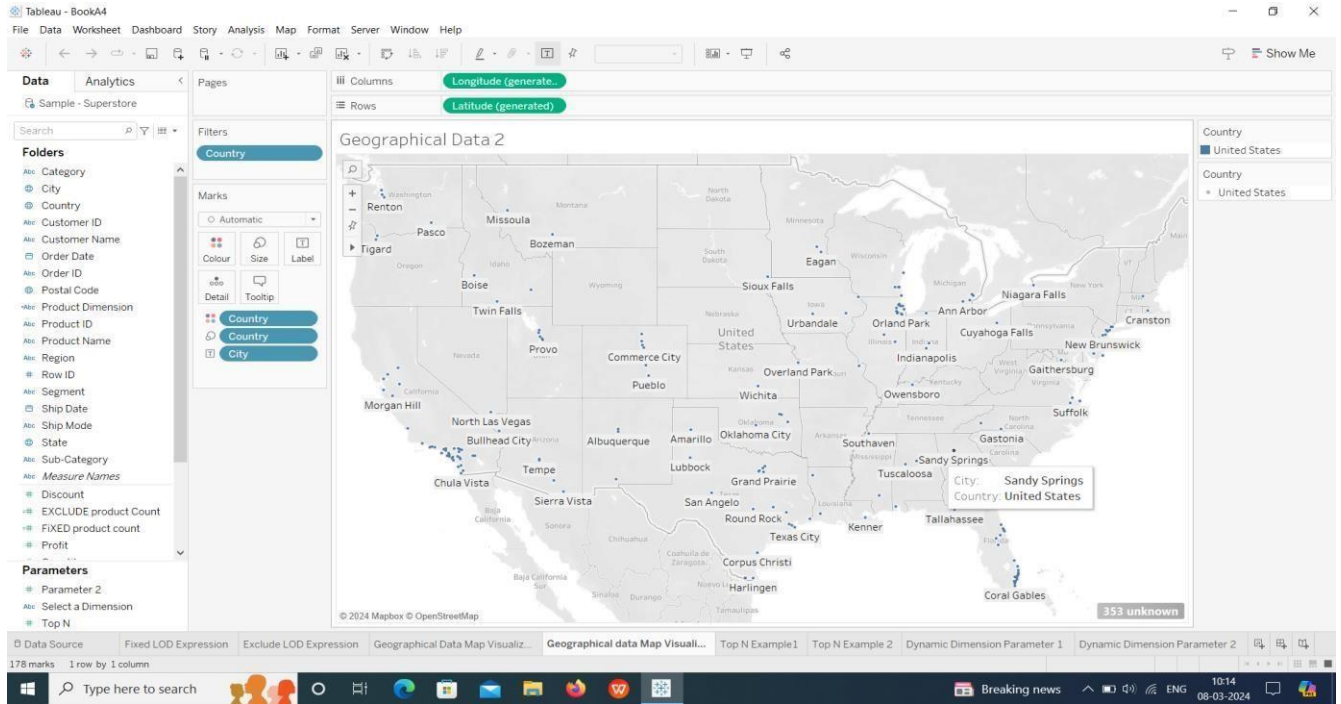
Create any 2 map visualizations using geographical data:- Map visualization

1:-



Map visualization 2:-

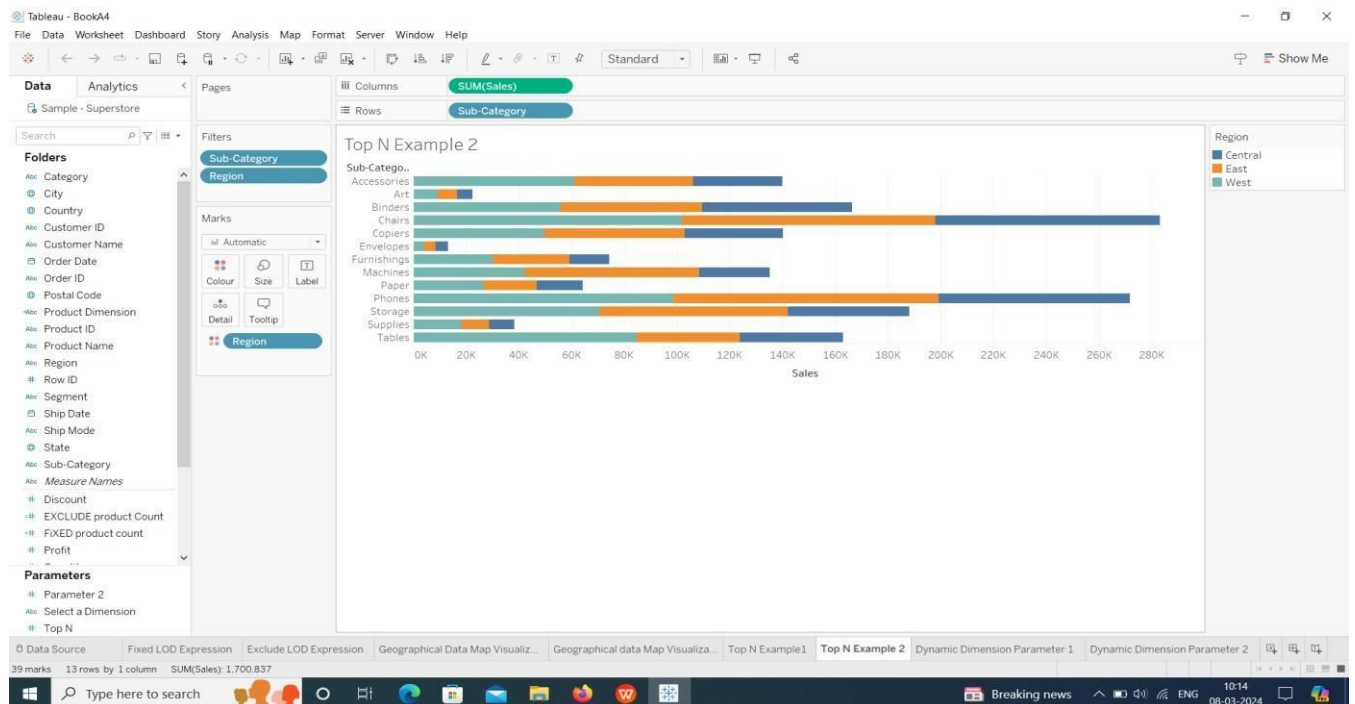
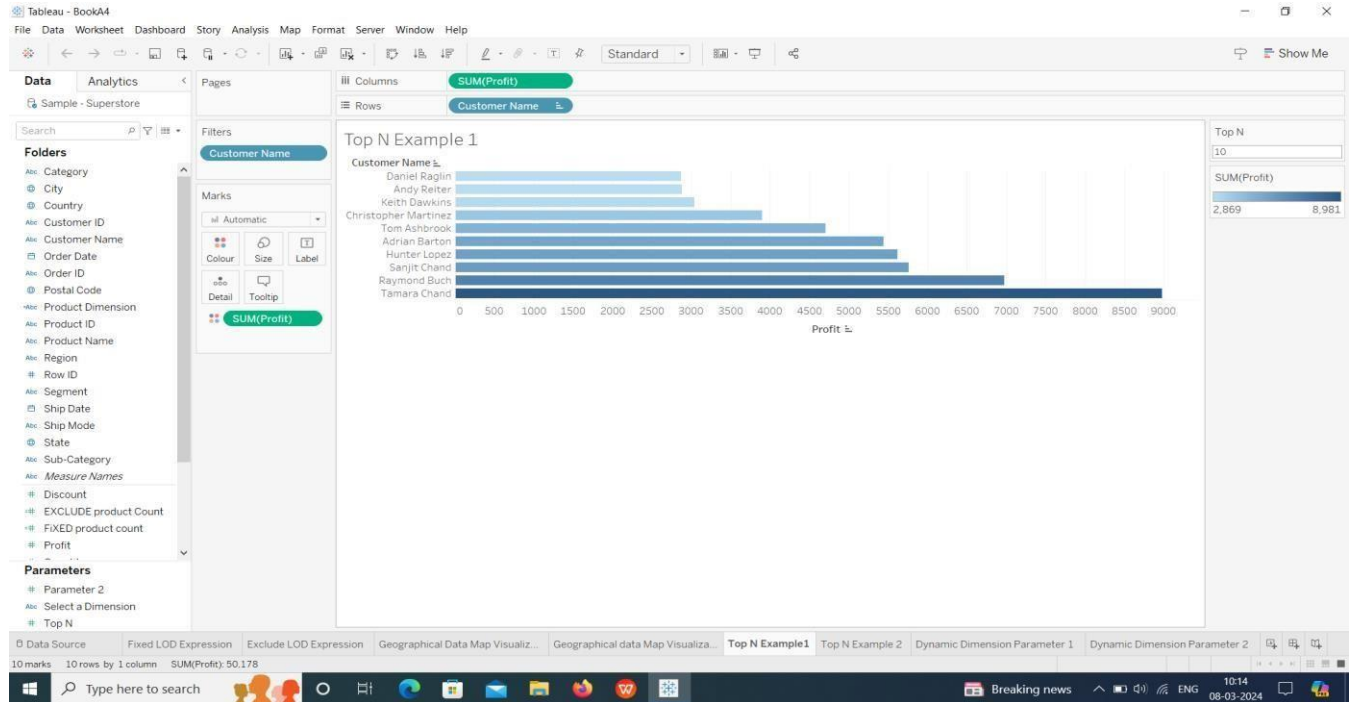
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Create Top N and/or Dynamic dimension parameters and utilize those in your workbook:-

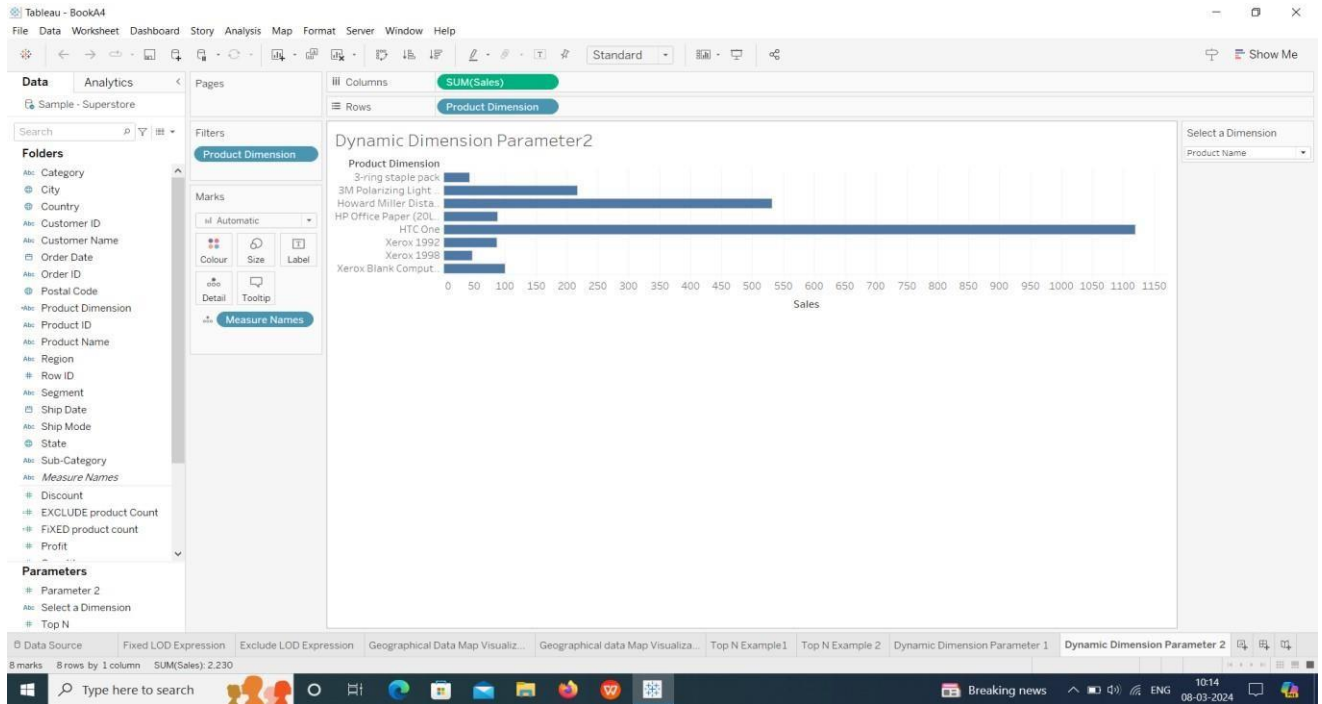
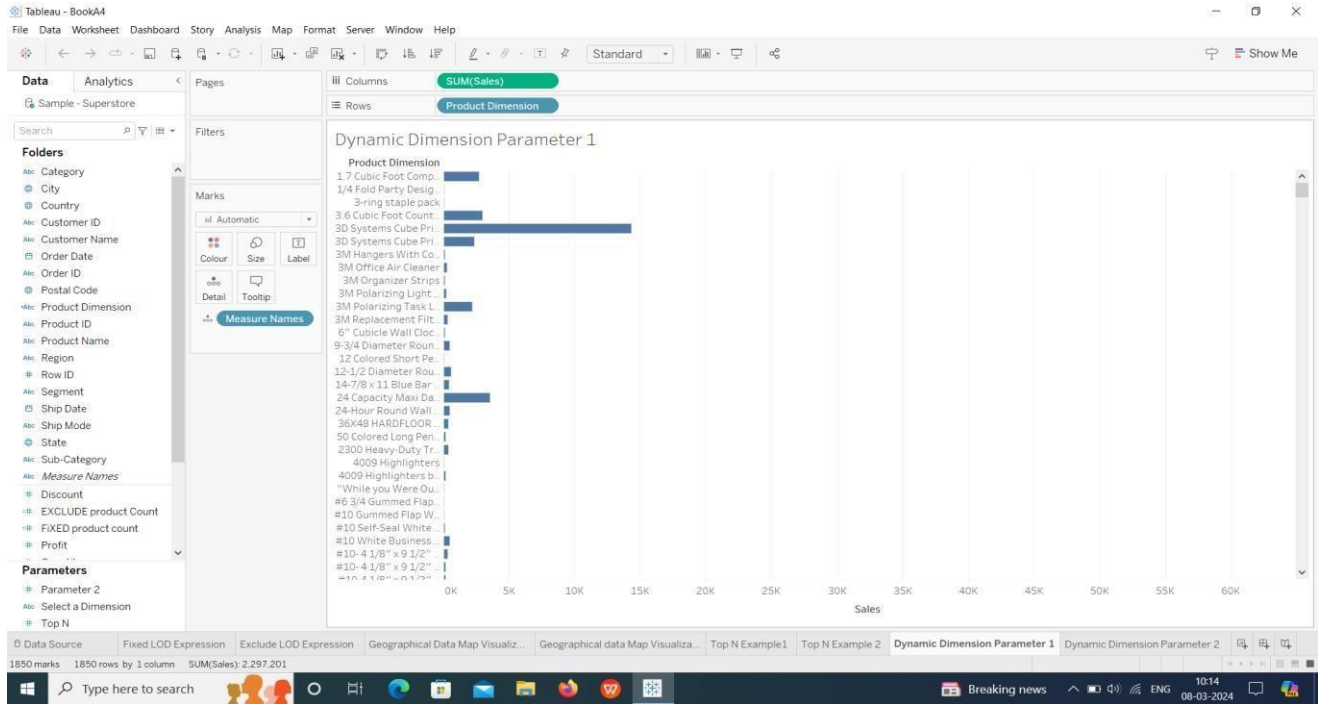
Top N Parameters:-

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Dynamic Dimension Parameter 1:-

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THANK YOU!

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