

Name:- Thota Naga Harika

Roll No:- 20NN1A12C3

Email:- saiharika2412@gmail.com

College Name:- Vignan's Nirula Institute of Technology and Science
For Women

Assignment-4

DATA SET: SAMPLE-SUPERSTORE.XLS

TASK

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 type LOD functions:-

- 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.

DATA ANALYTICS WITH TABLEAU

Dynamic Dimension Parameters:-

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

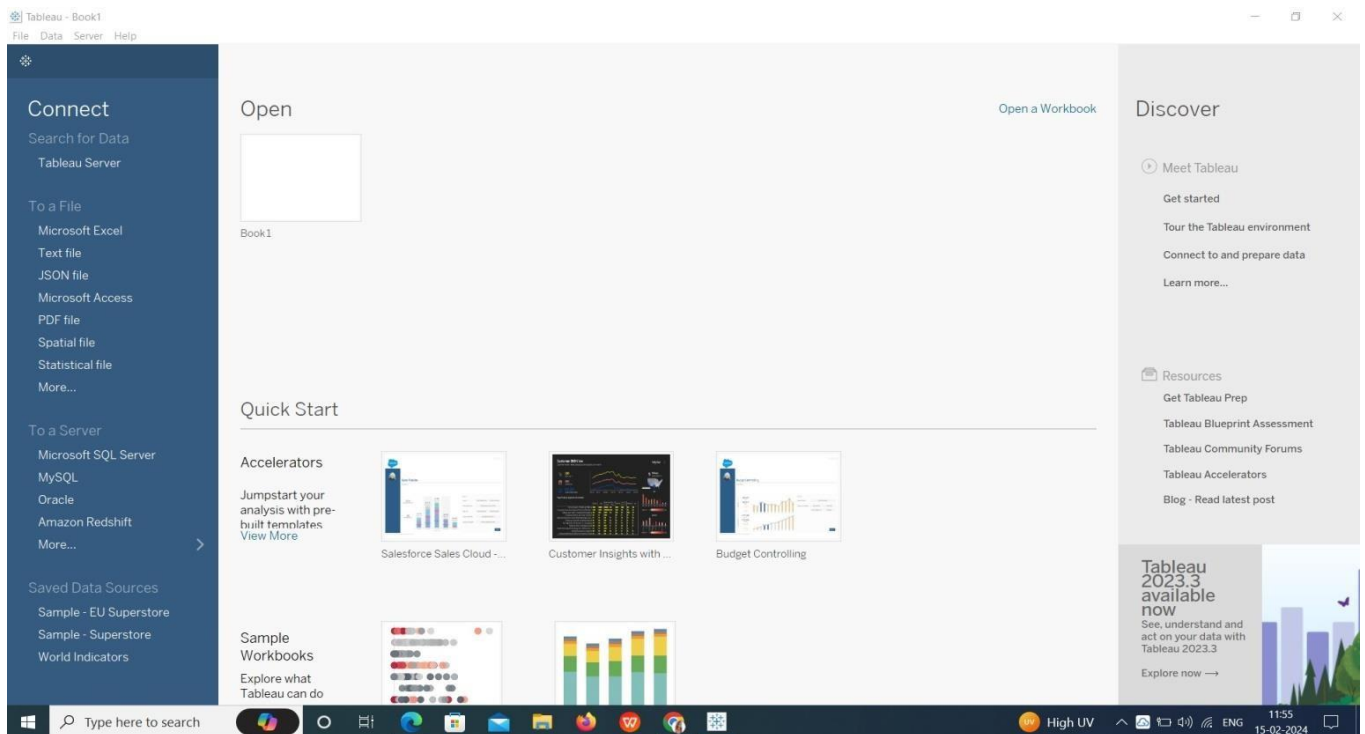
Create a Calculated field that will be used as a dimension in your worksheet.

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.

Tableau Starting:-



DATA ANALYTICS WITH TABLEAU

Upload the DataSet in Tableau:-

The screenshot shows the Tableau Desktop interface. The top menu bar includes 'File', 'Data', 'Server', 'Window', and 'Help'. The sidebar on the left has two main sections: 'Connections' and 'Sheets'. Under 'Connections', there is a 'Sample - Superstore' connection to a Microsoft Excel file. Under 'Sheets', there are 'Orders', 'People', and 'Returns' listed. The main workspace displays the 'Orders (Sample - Superstore (1))' data source. A 'Need more data?' prompt is visible, encouraging users to drag tables to relate them. The bottom pane shows the 'Orders' table with 26 fields and 10590 rows. The table data is as follows:

#	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	

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

One Fixed LOD:-

The screenshot shows the Tableau Desktop interface with a worksheet titled 'Fixed LOD Expression'. The data is pulled from the 'Sample - Superstore' data source. The columns are 'Customer Name', 'Region', 'Order ID', and 'Product Name'. The measures are 'SUM(FIXED product count)' and 'SUM(Sales)'. The table displays data for various customers and their orders, including Adam, Shillingsburg, Alan Shonely, Luke Foster, Philip Brown, Zuschuss, and Donatelli. The status bar at the bottom indicates 27 marks, 9 rows by 3 columns, and a sum of measure values of 581.6.

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

DATA ANALYTICS WITH TABLEAU

One Exclude LOD Expression:-

Tableau - BookA4

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Standard

Show Me

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

Filters

- Order ID
- Measure Names
- CNT(Show Custome..
- ATTR(Show Custom..

Marks

Automatic

Colour Size Text

Detail Tooltip

Measure Values

- ATTR(EXCLUDE pro..
- SUM(FIXED product ..
- SUM(Sales)

Columns

Measure Names

Rows

Customer Name Region Order ID Product ID Show Cu.. CNT(Show Custome..

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

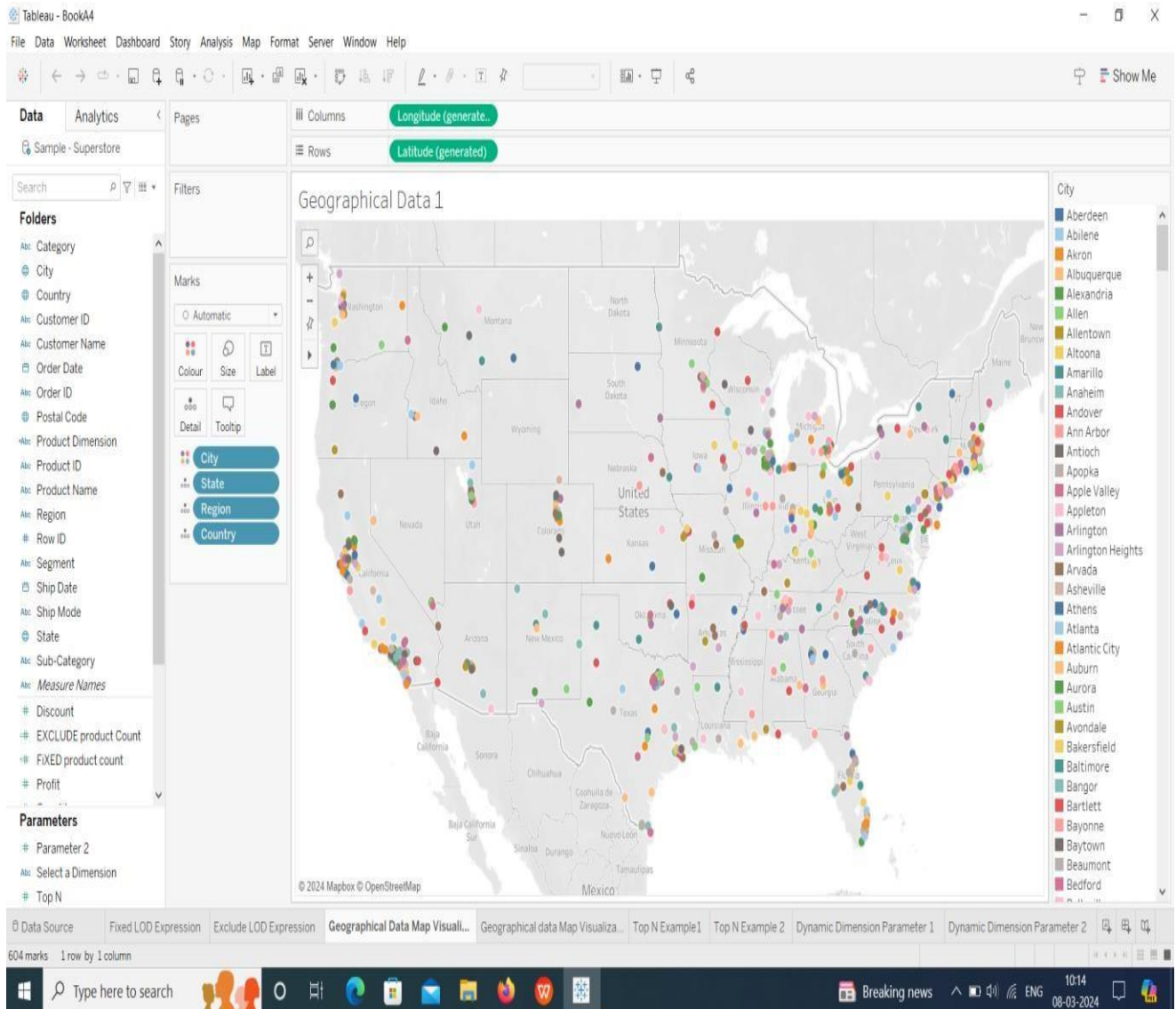
84 marks 28 rows by 3 columns SUM of Measure Values: 8.659

Windows Taskbar: Type here to search, Breaking news, 10:14, 08-03-2024

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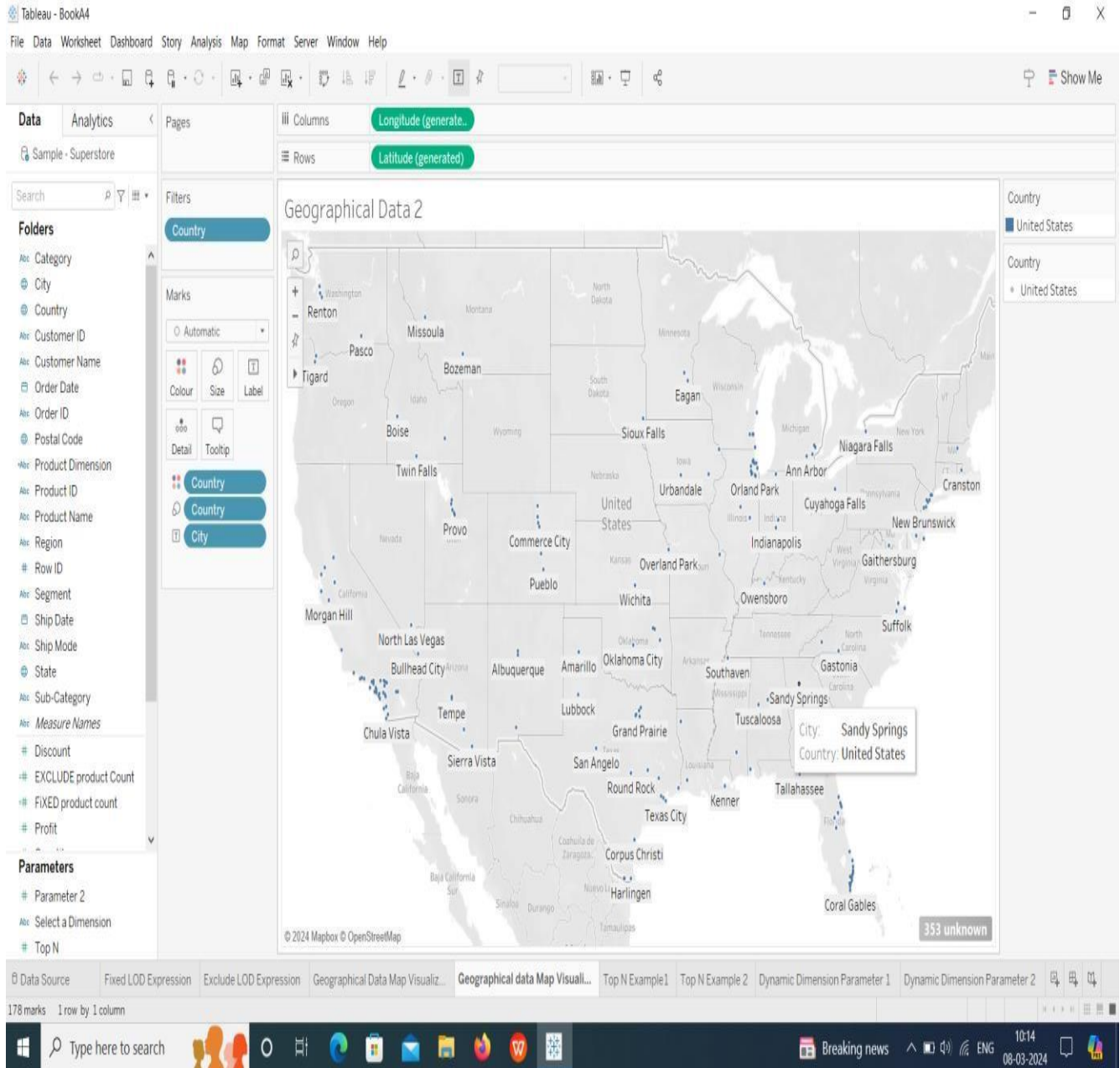
Create any 2 map visualizations using geographical data:-

Map visualization 1:-



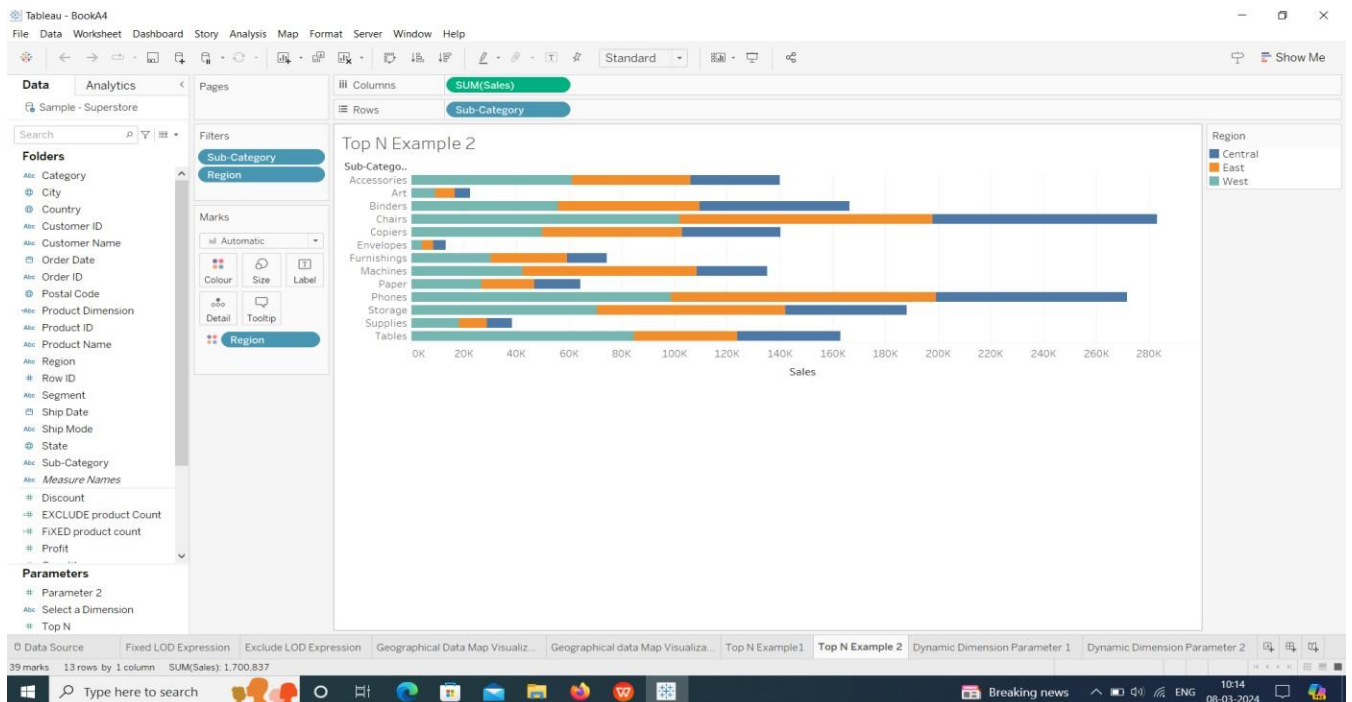
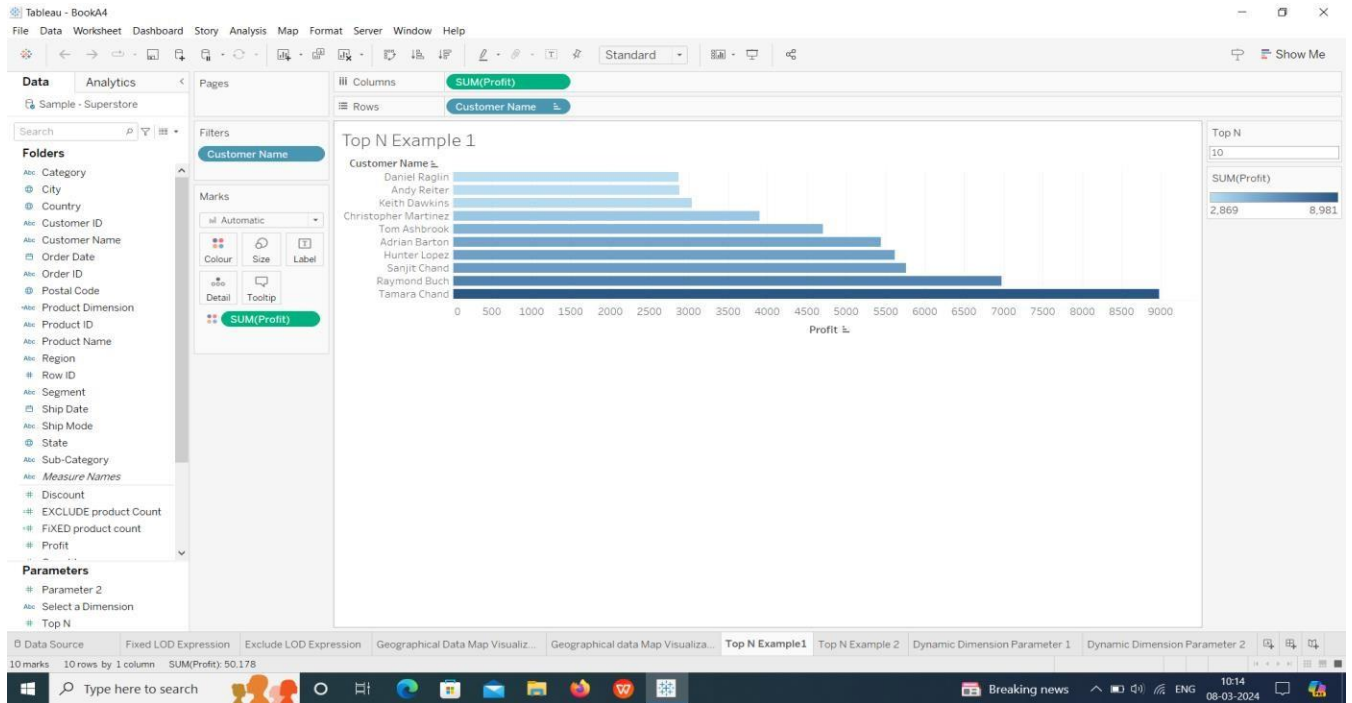
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Map visualization 2:-



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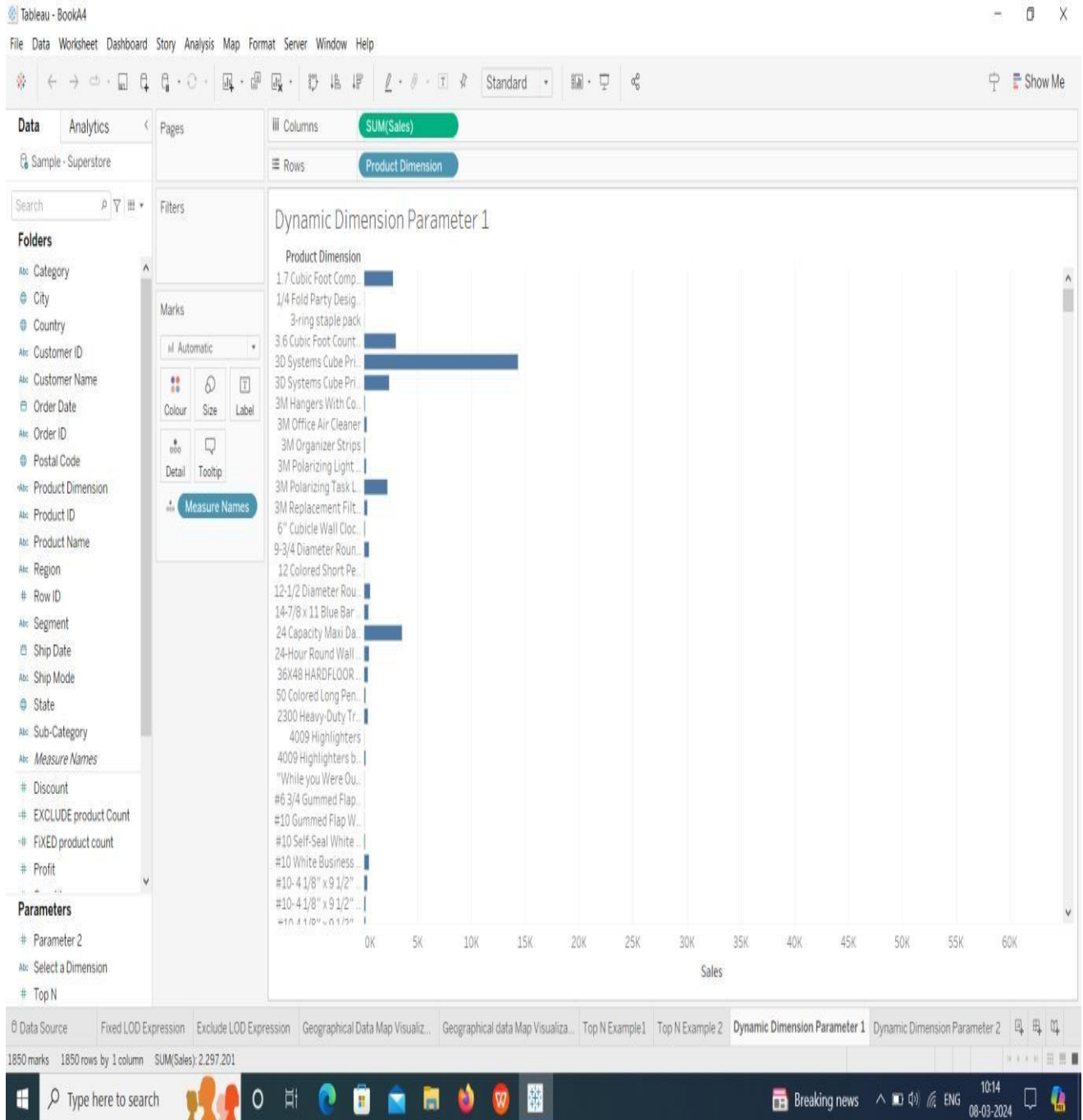
Create Top N and/or Dynamic dimension parameters and utilize those in your workbook:-



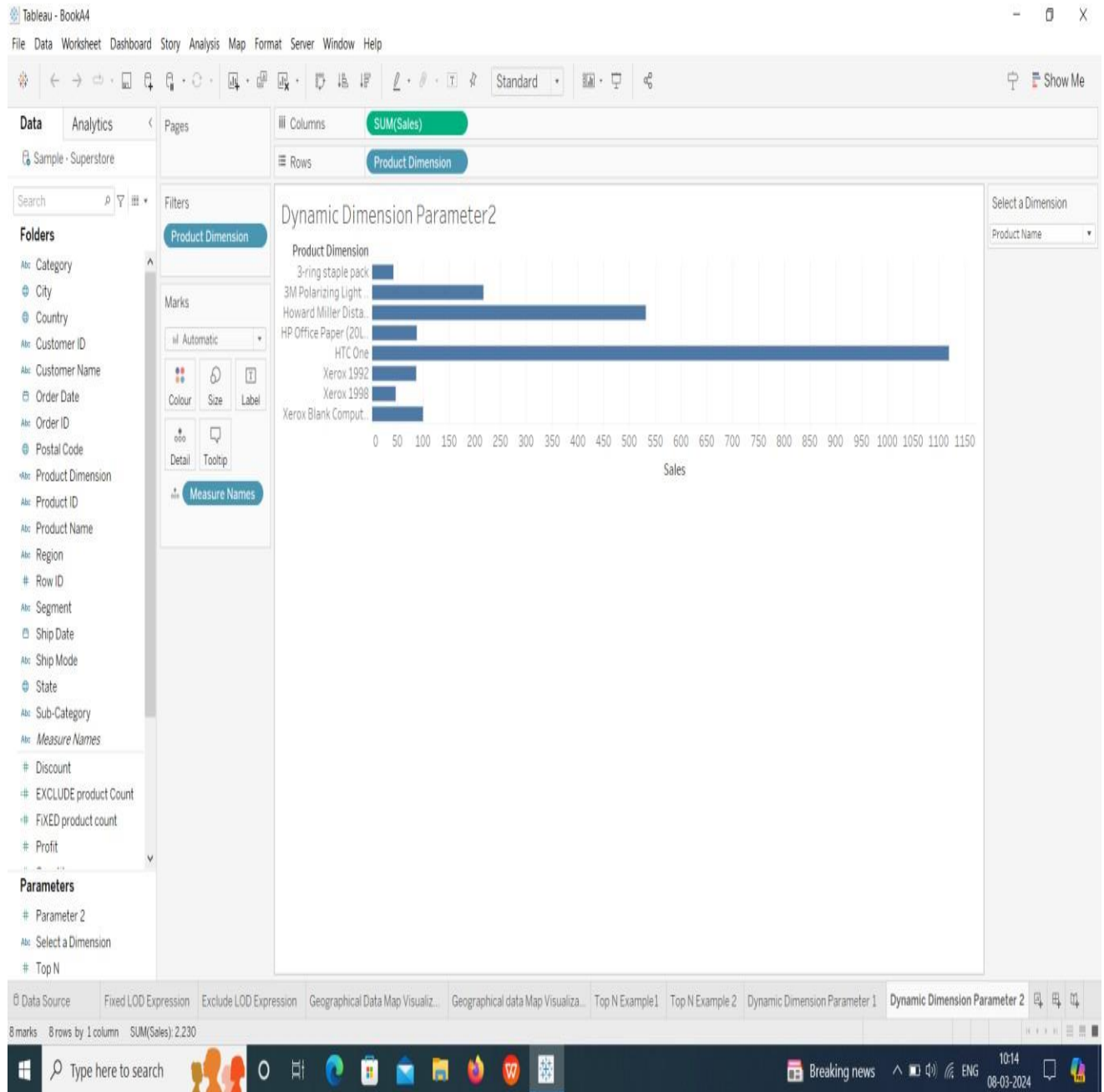
Top N Parameters:-

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Dynamic Dimension Parameter 1:-



DATA ANALYTICS WITH TABLEAU



THANK YOU!

Email:-saiharika2412@gmail.com