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Vignan's Nirula Institute of Technology and Science for Women

### **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 LODfunctions:-

- 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 :-**

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.

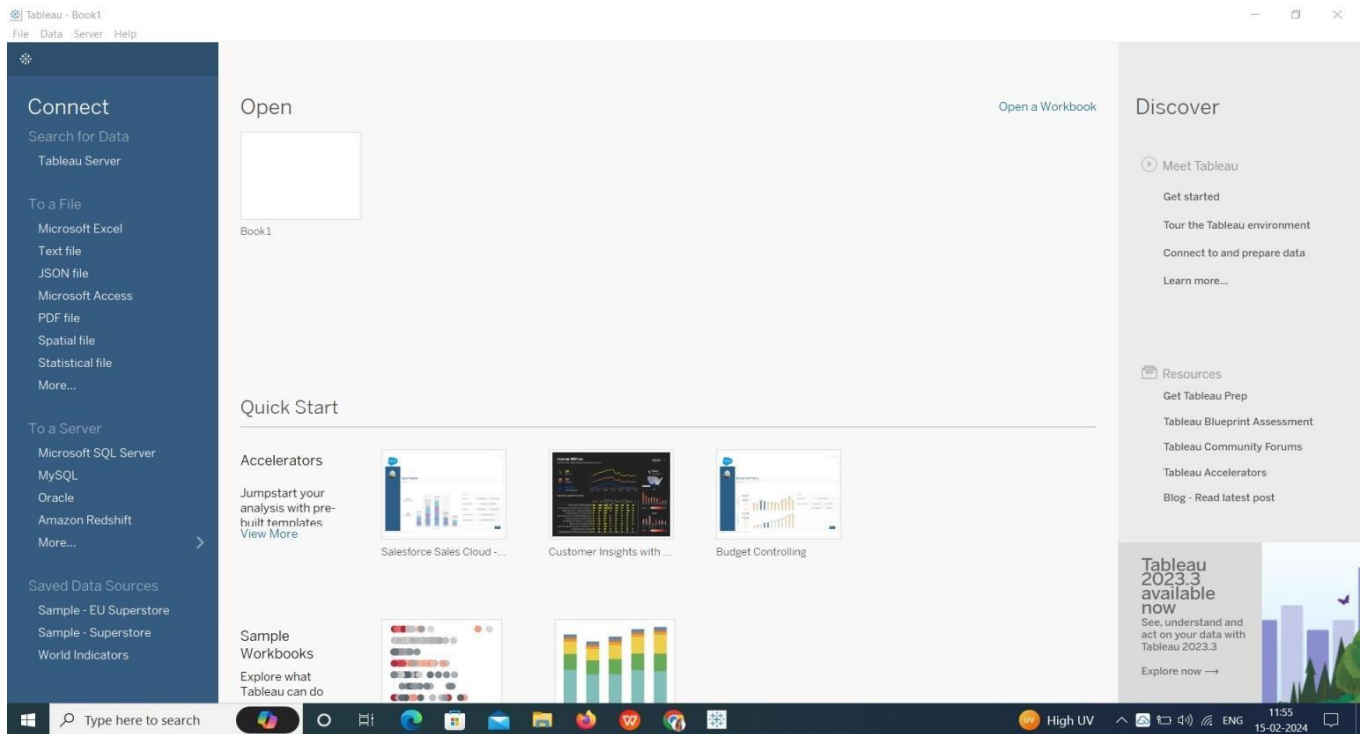
Create a Calculated field that will be used as a dimension in your worksheet. Dimension to display when a particular parameter value is selected.

Add the calculated fields to the canvas.

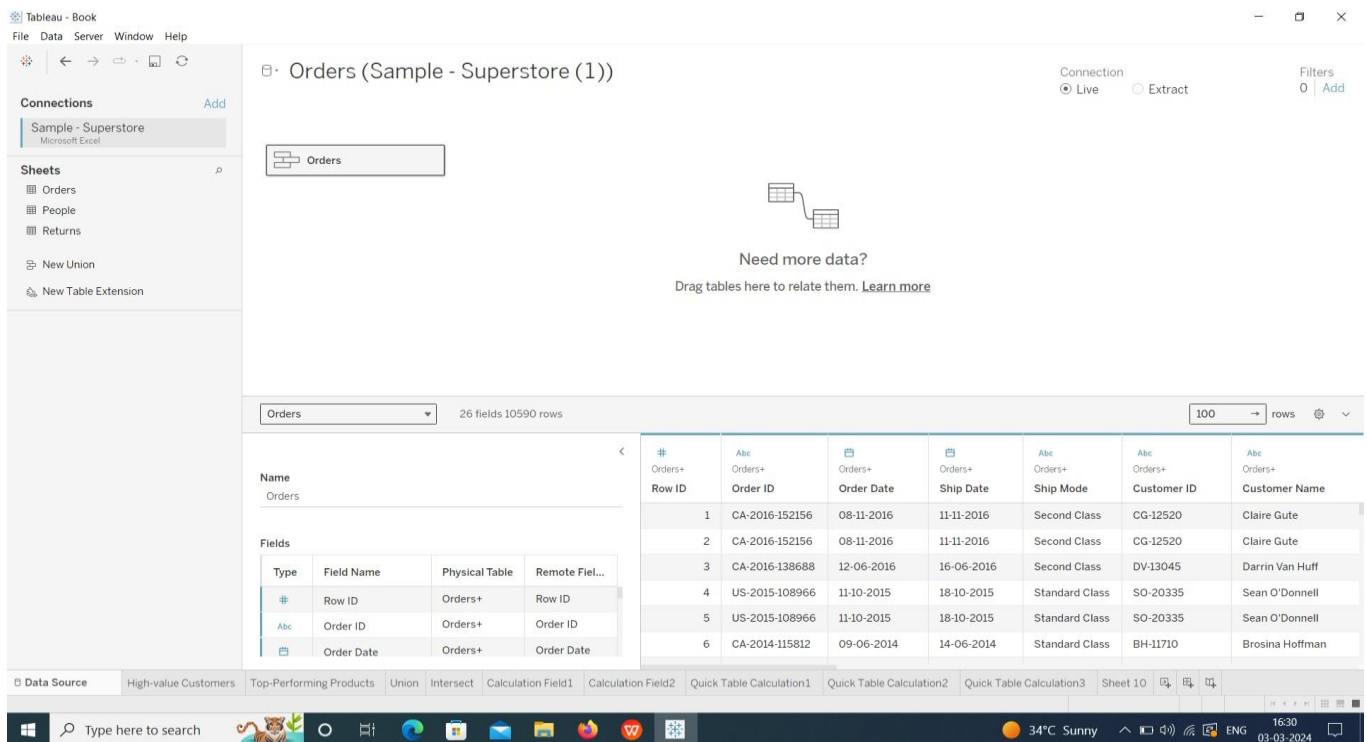
- 1) Colors
- 2) Filters
- 3) Select any ratings or price ranges.

# DATA ANALYTICS WITH TABLEAU

## Tableau Starting:-



## Upload the DataSet in Tableau:-



# DATA ANALYTICS WITH TABLEAU

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

**One Fixed LOD Expression:-**

Tableau - BookA4

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Standard

Columns: Measure Names

Rows: Customer Name, Region, Order ID, Product Name

Filters: Customer Name, Region, Order ID, Product Name, Measure Names

Marks: Automatic

Measure Values: SUM(FIXED product..), SUM(Quantity), SUM(Sales)

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:-**

Tableau - BookA4

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Standard

Columns: Measure Names

Rows: Customer Name, Region, Order ID, Product ID, CNT(Show Custom..)

Filters: Order ID, Measure Names, CNT(Show Custom..), ATTR(Show Custom..)

Marks: Automatic

Measure Values: ATTR(EXCLUDE product..), SUM(FIXED product..), SUM(Sales)

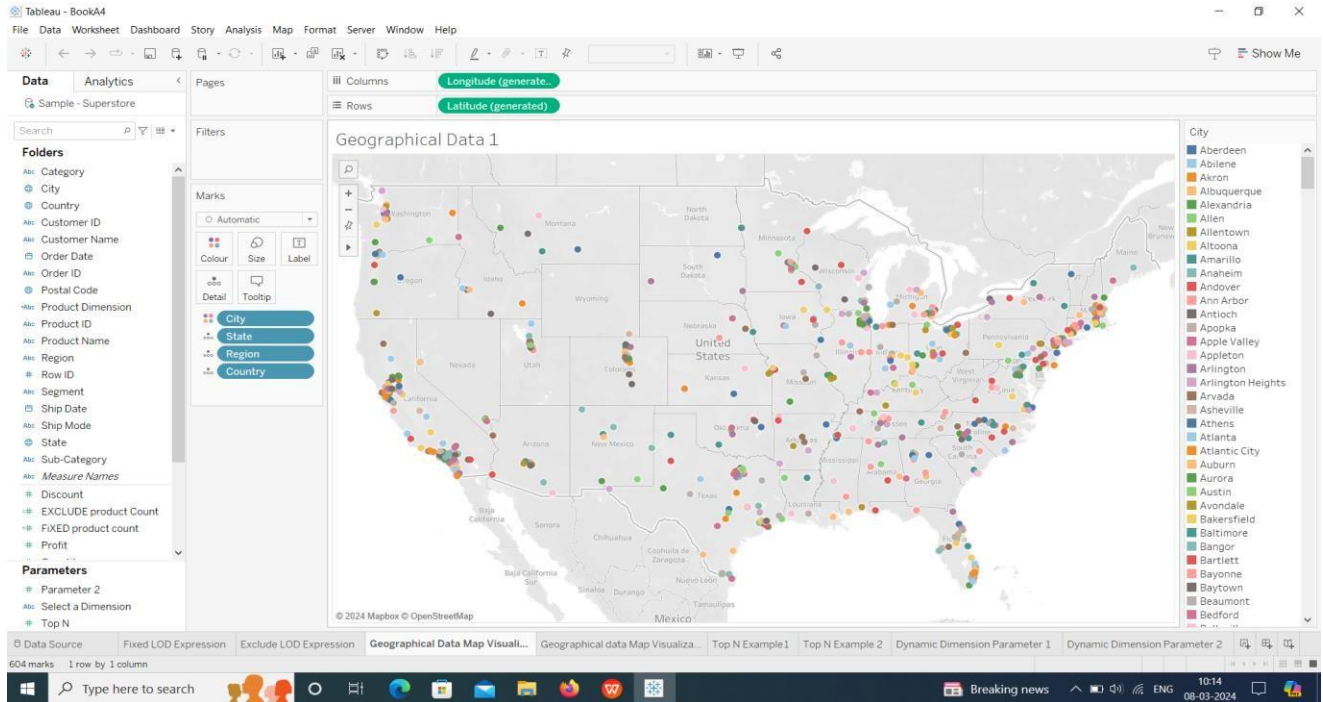
Customer Name	Region	Order ID	Product ID	Show Cu..	EXCL..	FIXED..	Sales
Eugene Hildebrand	West	CA-2014-100867	TEC-PH-10004922	1	1	18	322
Jas O'Carroll	West	US-2016-115819	OFF-AR-10000823	1	6	11	5
			OFF-AR-100004456	1	6	11	73
			OFF-BI-10000050	1	6	11	6
			OFF-BI-10000591	1	6	11	9
			OFF-PA-10002377	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
Pete Armstrong	West	US-2016-117387	TEC-CO-10001046	1	7	34	1,400
Rob Lucas	East	US-2017-169551	OFF-BI-10004308	1	1	7	67
			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

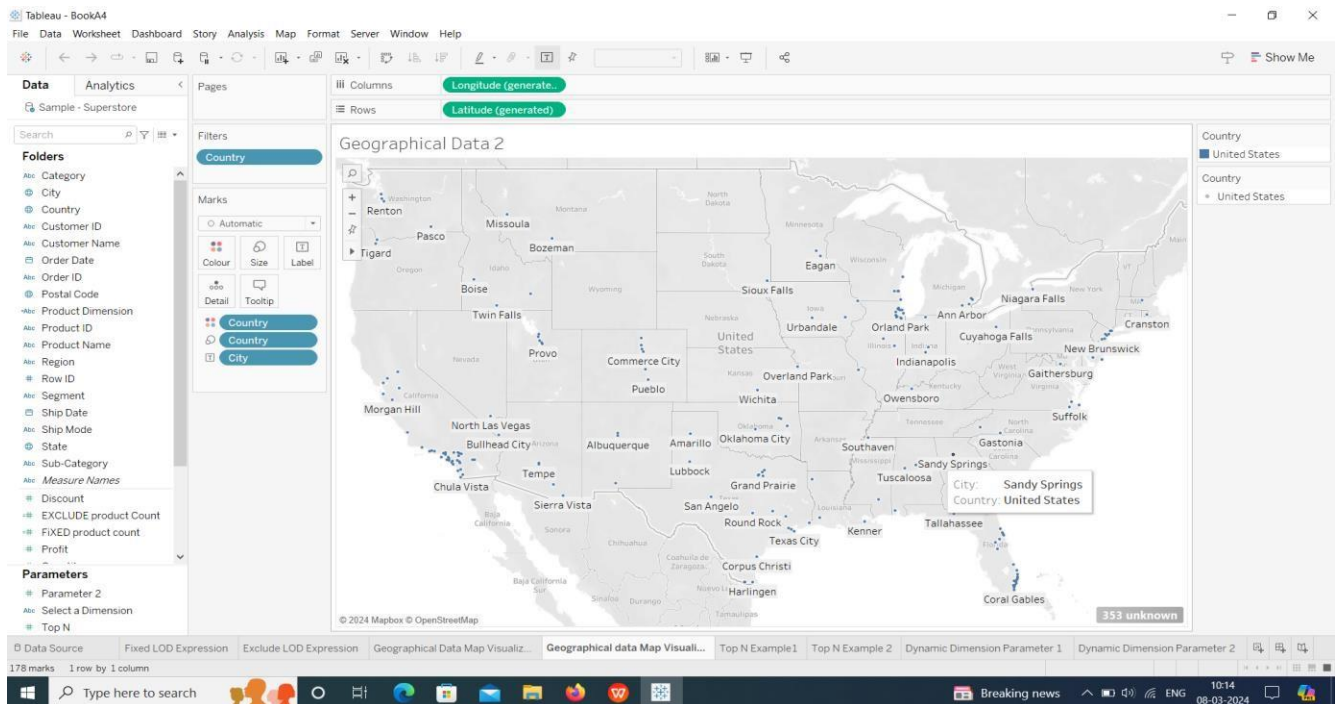
# DATA ANALYTICS WITH TABLEAU

Create any 2 map visualizations using geographical data:-

## Map visualization 1:-



## Map visualization 2:-

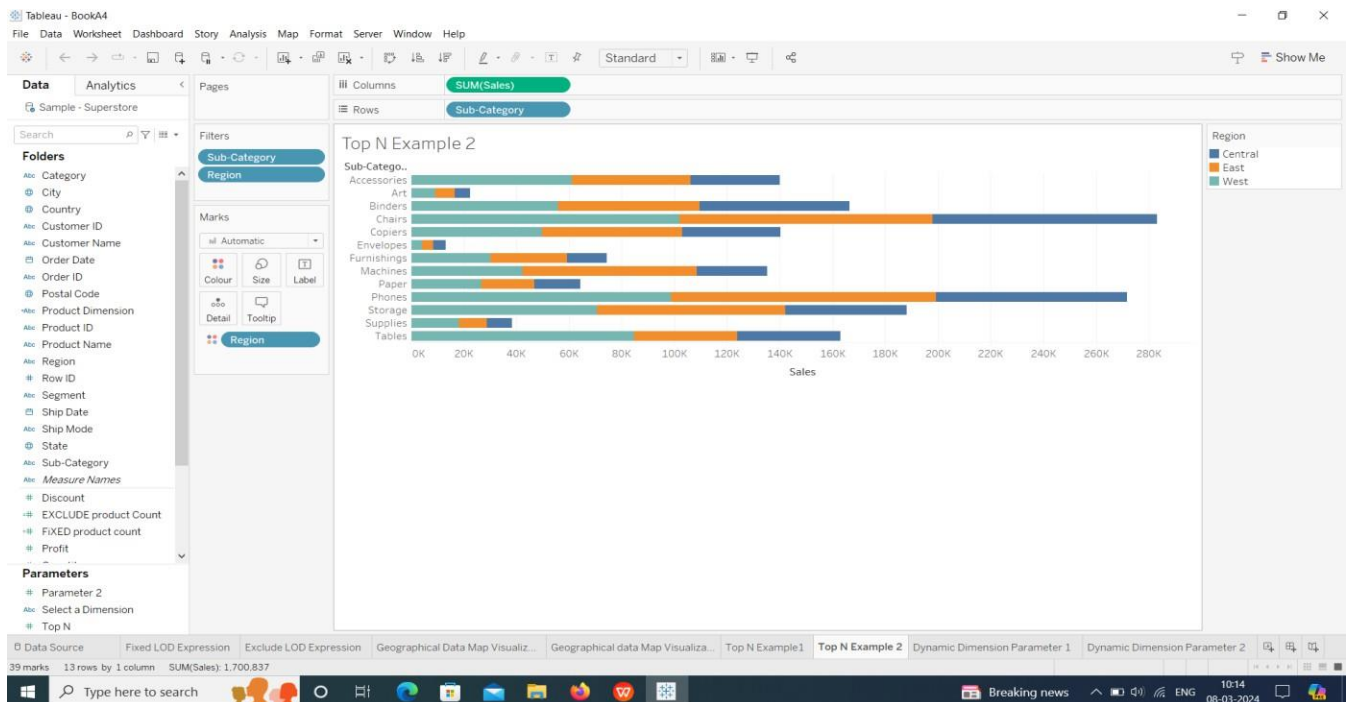
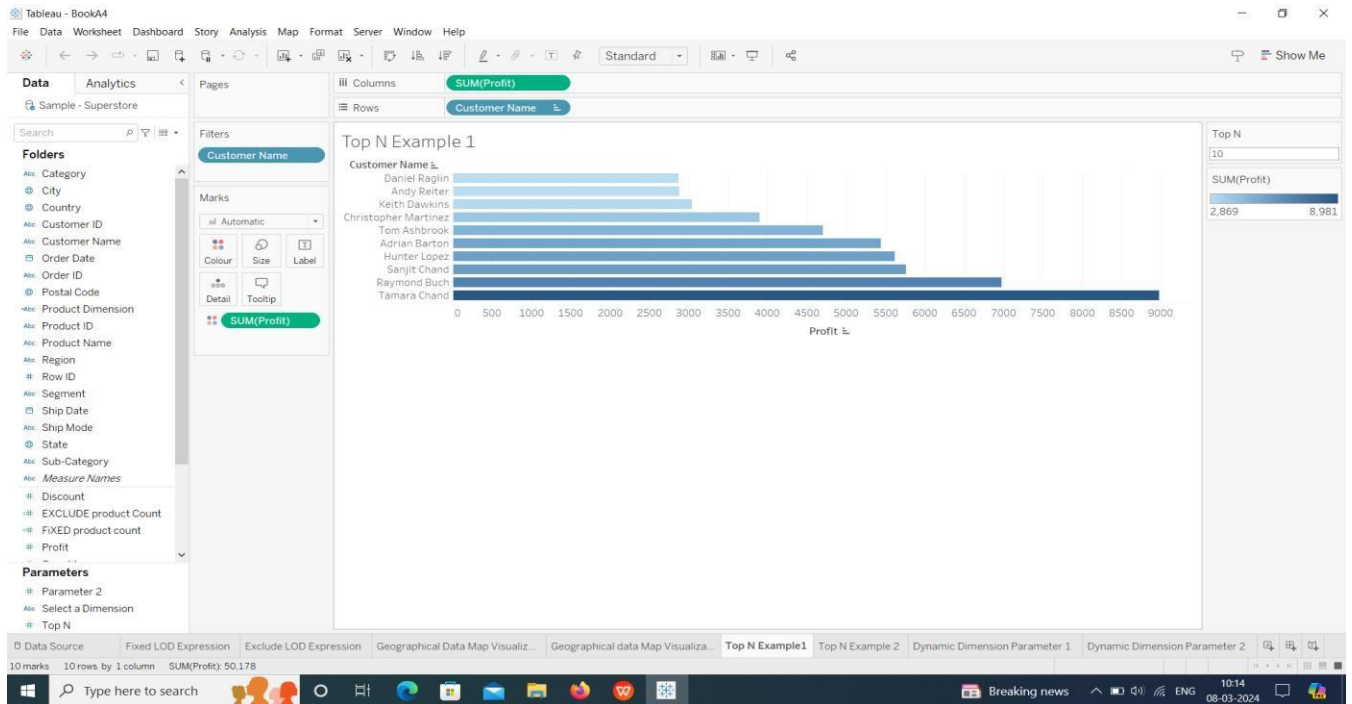




# DATA ANALYTICS WITH TABLEAU

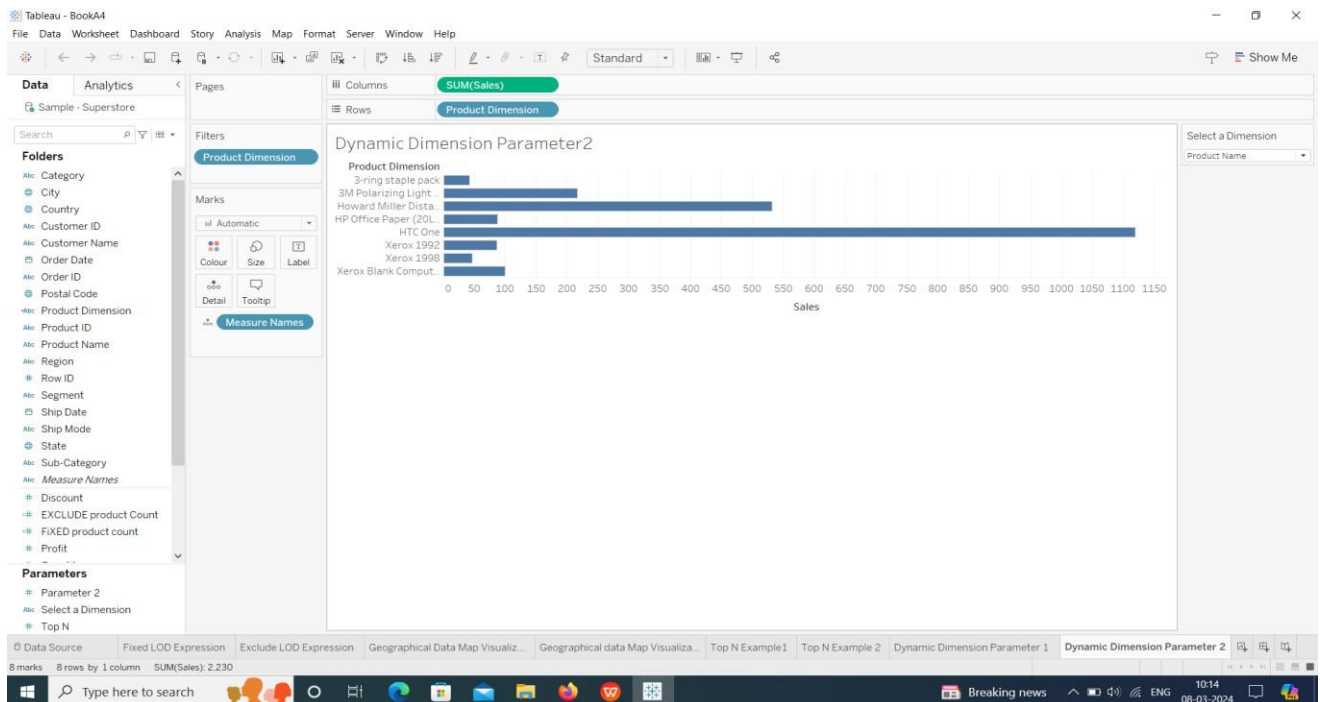
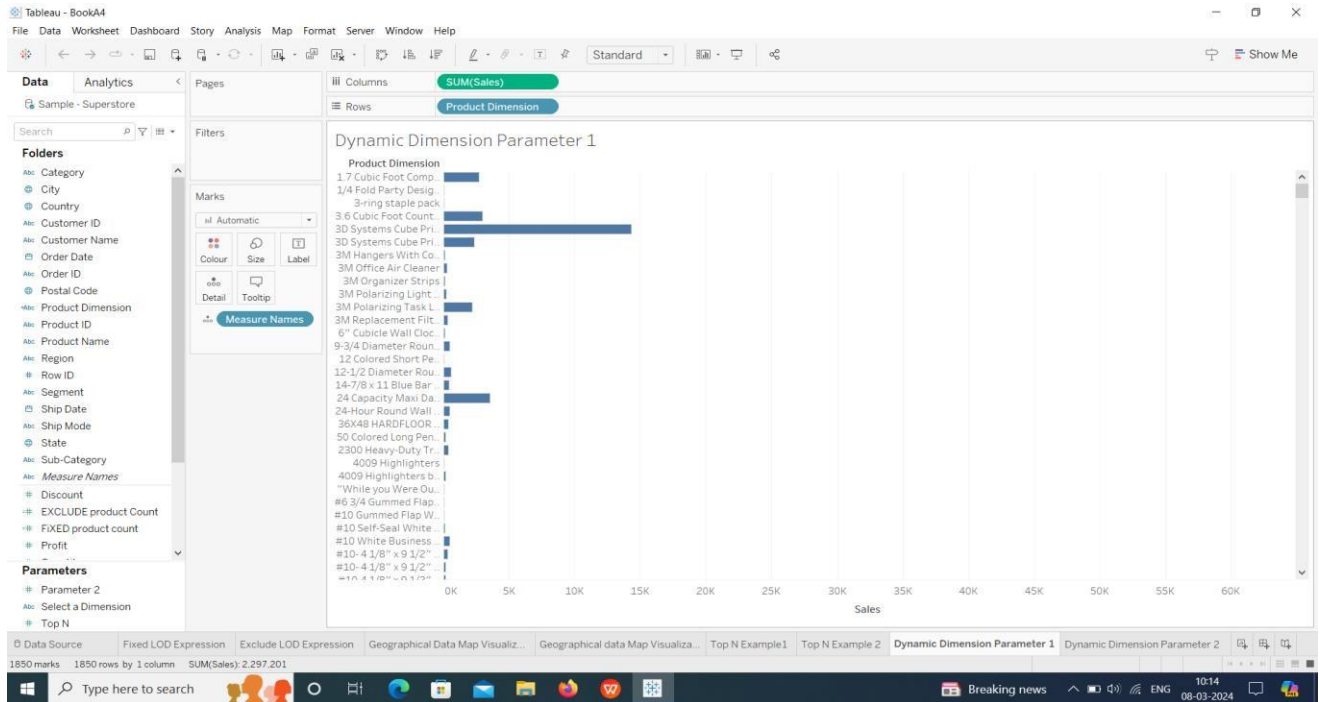
Create Top N and/or Dynamic dimension parameters and utilize those in your workbook:-

## Top N Parameters:-



# DATA ANALYTICS WITH TABLEAU

## Dynamic Dimension Parameter 1:-



THANK YOU!

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