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College Name:- 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 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.

#### 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.

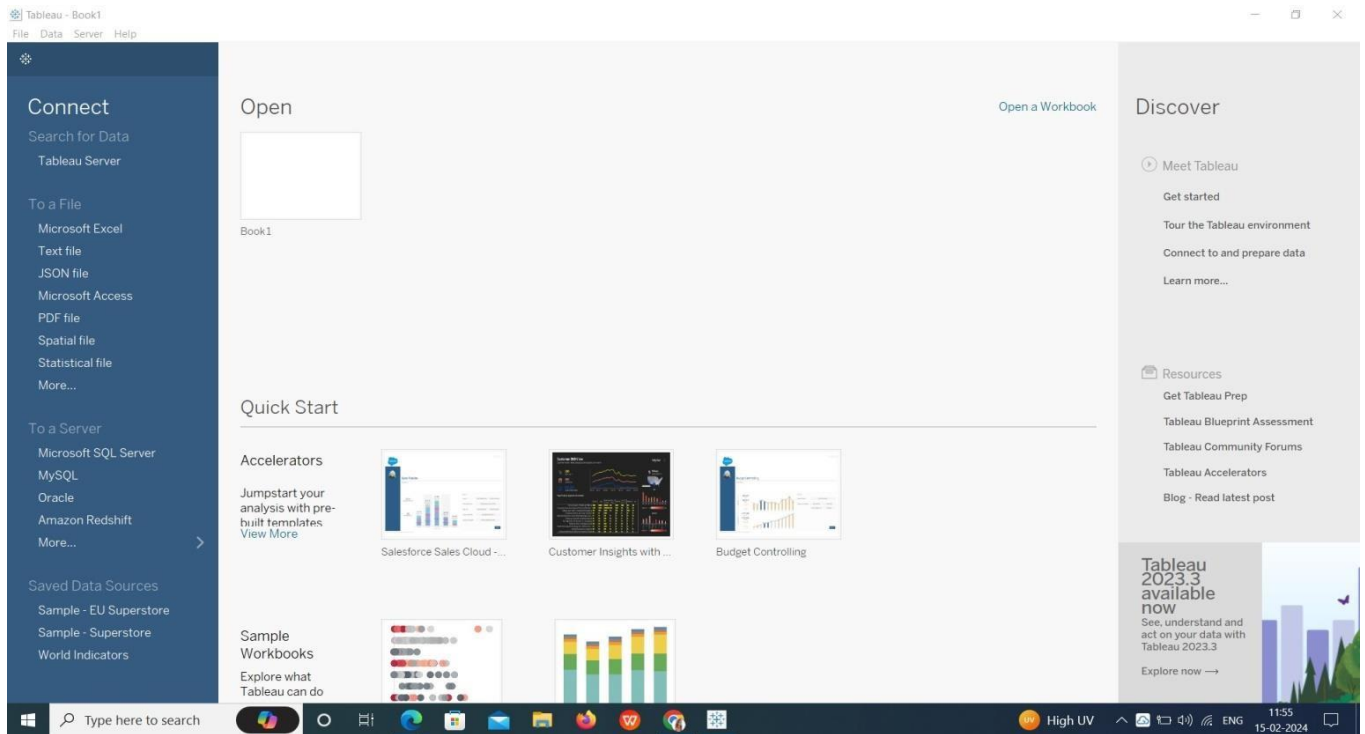
Dimension to display when a particular parameter value is selected.

Add the calculated fields to the canvas.

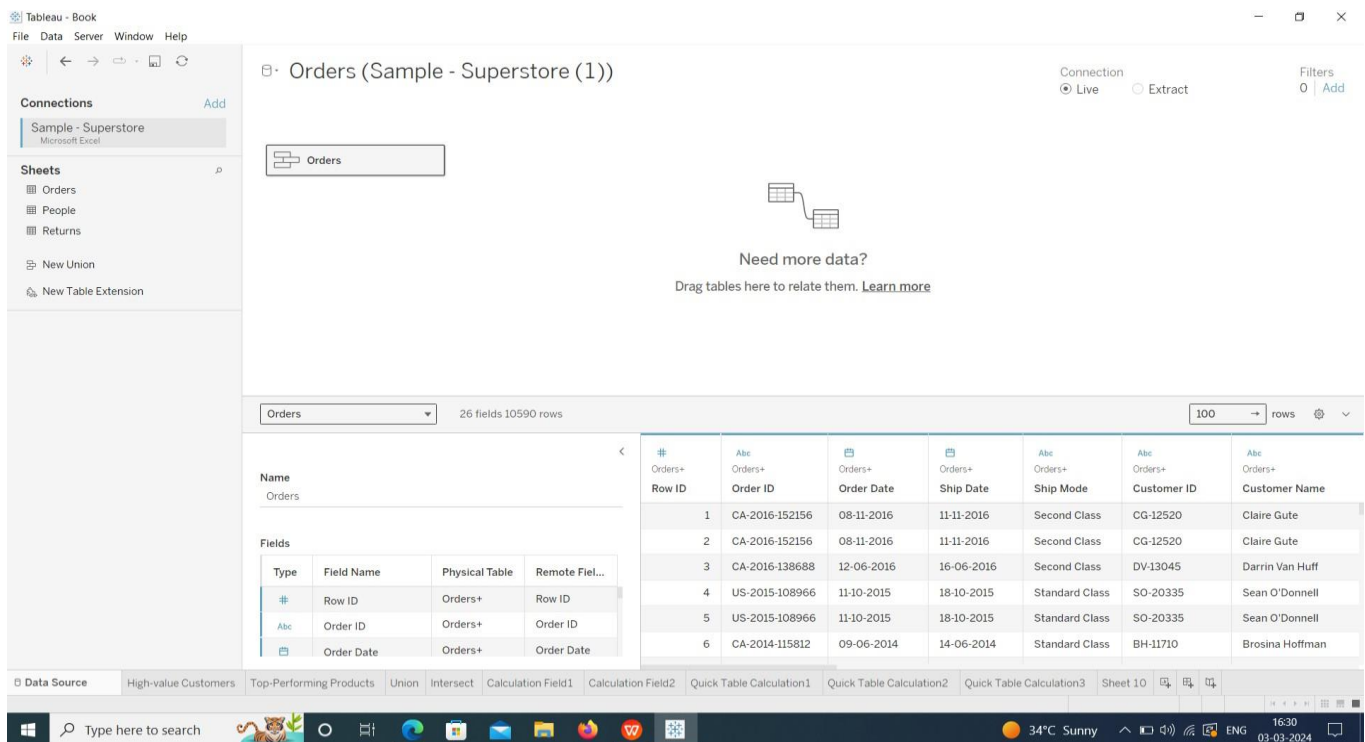
- 1) Colours
- 2) Filters
- 3) Select any ratings or price ranges.

# 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:-

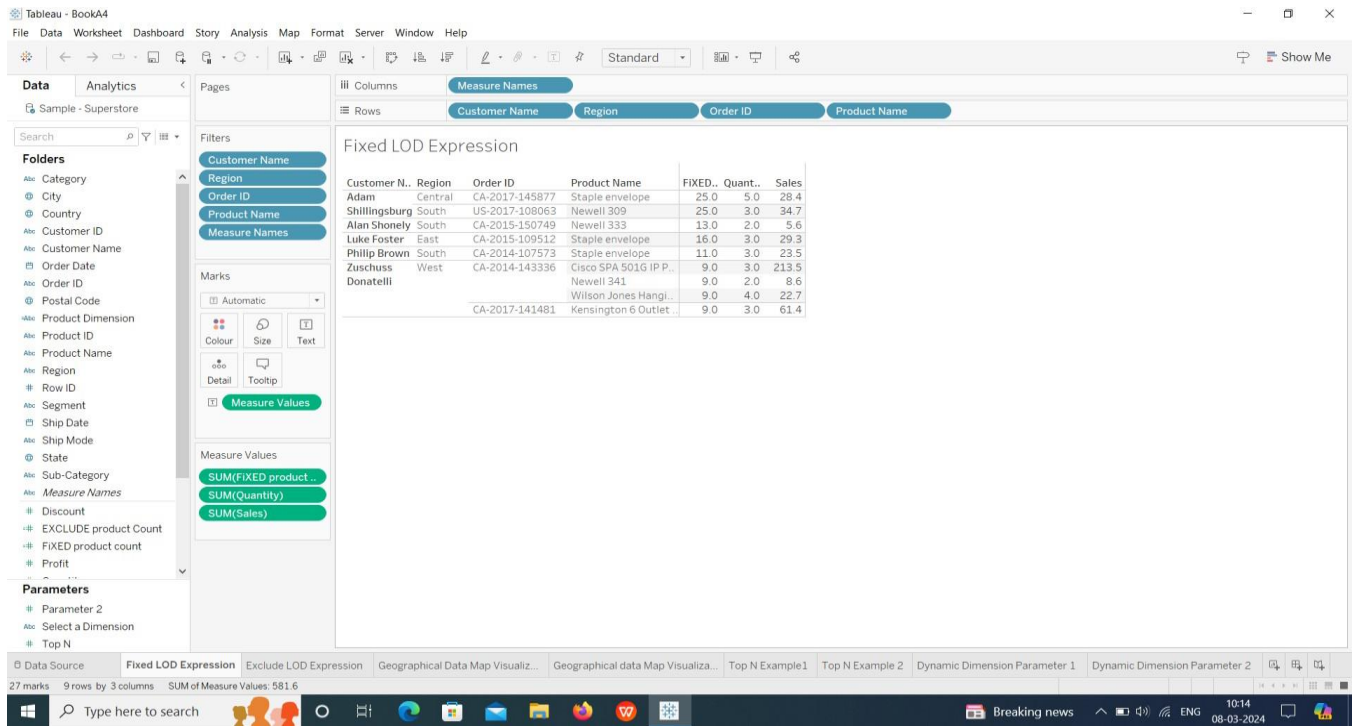


Tableau - BookA4

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Search

Filters

- Customer Name
- Region
- Order ID
- Product Name
- Measure Names

Marks

- Automatic
- Colour
- Size
- Text
- Detail
- Tooltip
- Measure Values

Measure Values

- SUM(FIXED product..)
- SUM(Quantity)
- SUM(Sales)

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 Shoneily	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 Hangl..	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:-

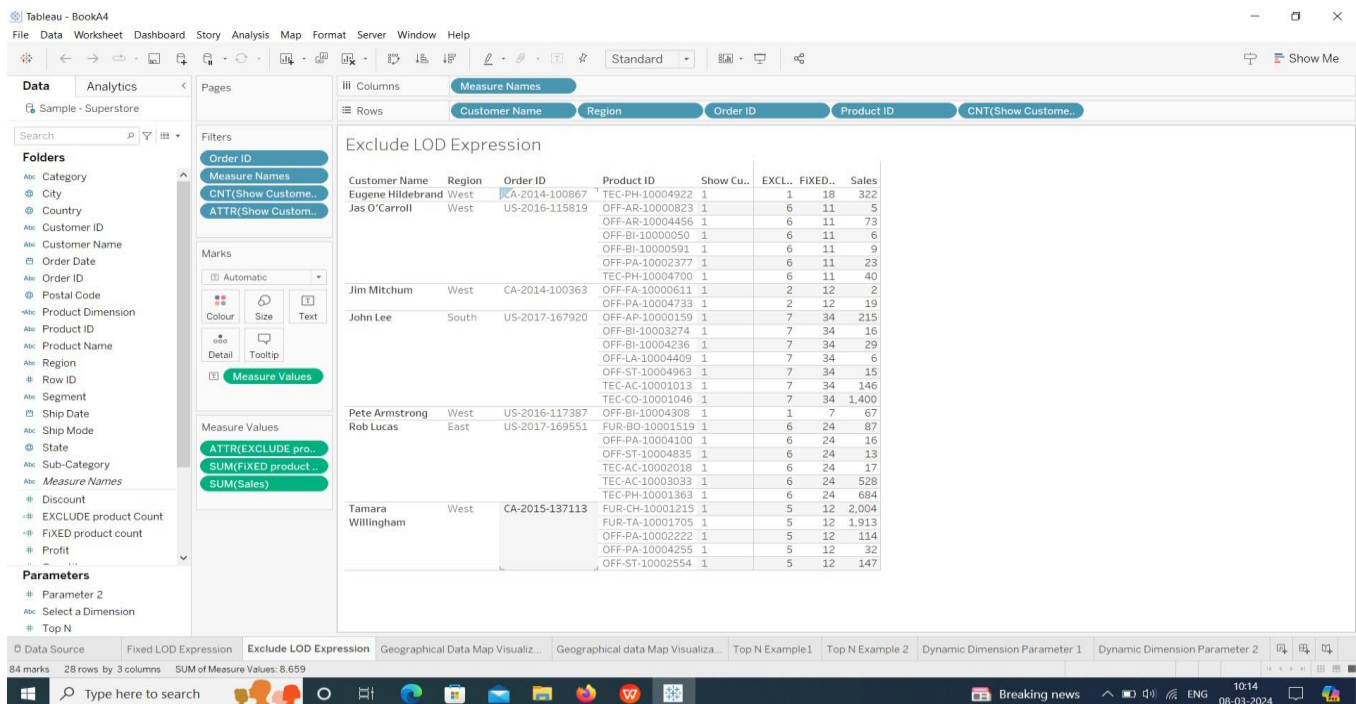


Tableau - BookA4

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Search

Filters

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

Marks

- Automatic
- Colour
- Size
- Text
- Detail
- Tooltip
- Measure Values

Measure Values

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

Exclude LOD Expression

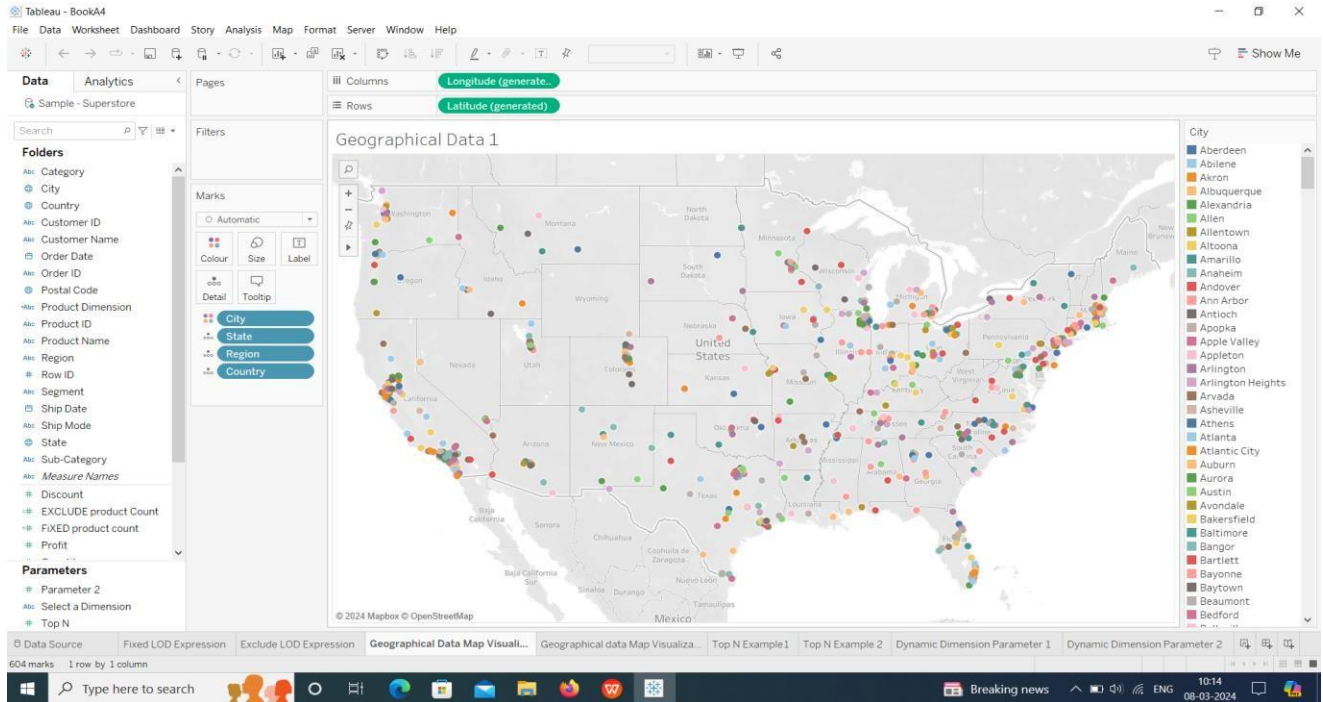
Customer Name	Region	Order ID	Product ID	Show Cu..	EXCL..	FIXED..	Sales	
Eugene Hildebrand	West	CA-2014-100867	TEC-PH-10004922	1		1	18	322
Jas O'Carroll	West	US-2016-115819	OFF-AR-10000823	1		6	11	5
			OFF-AR-100004456	1		6	11	73
			OFF-BI-10000050	1		6	11	6
			OFF-BI-10000591	1		6	11	9
			OFF-PA-10002377	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

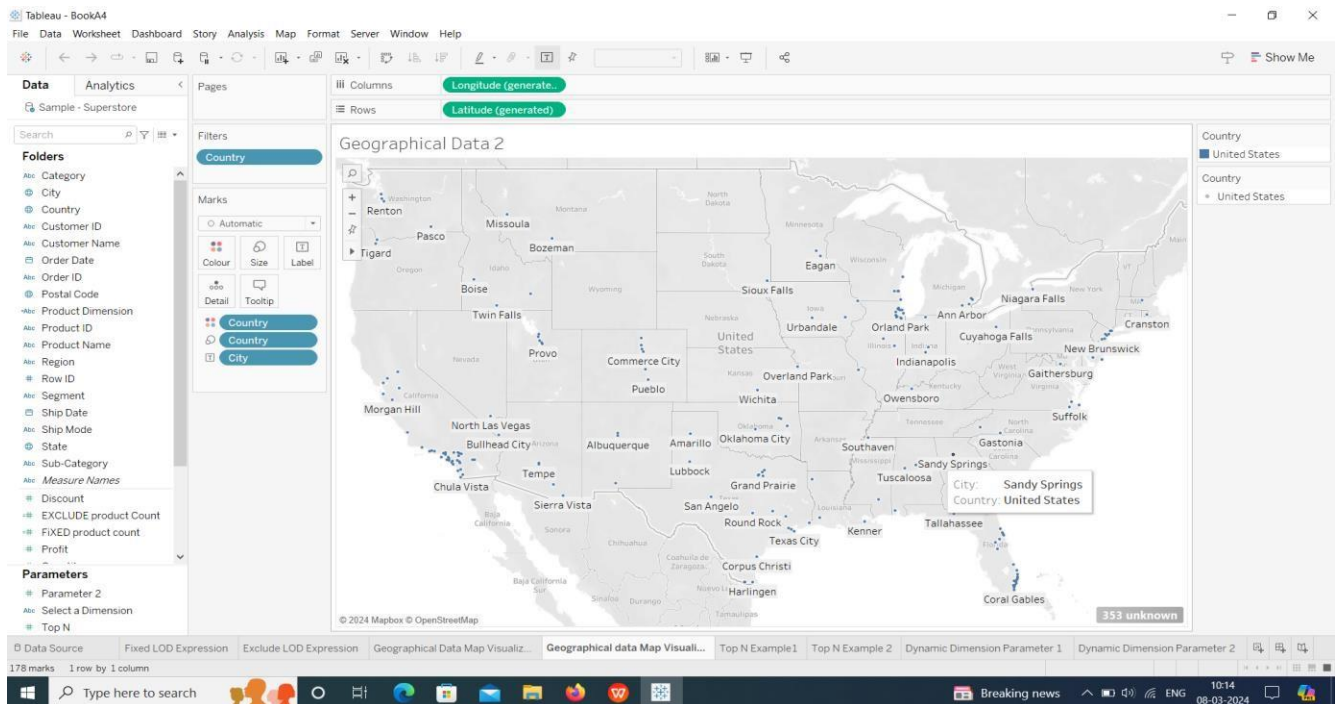
# DATA ANALYTICS WITH TABLEAU

Create any 2 map visualizations using geographical data:-

Map visualization 1:-



Map visualization 2:-

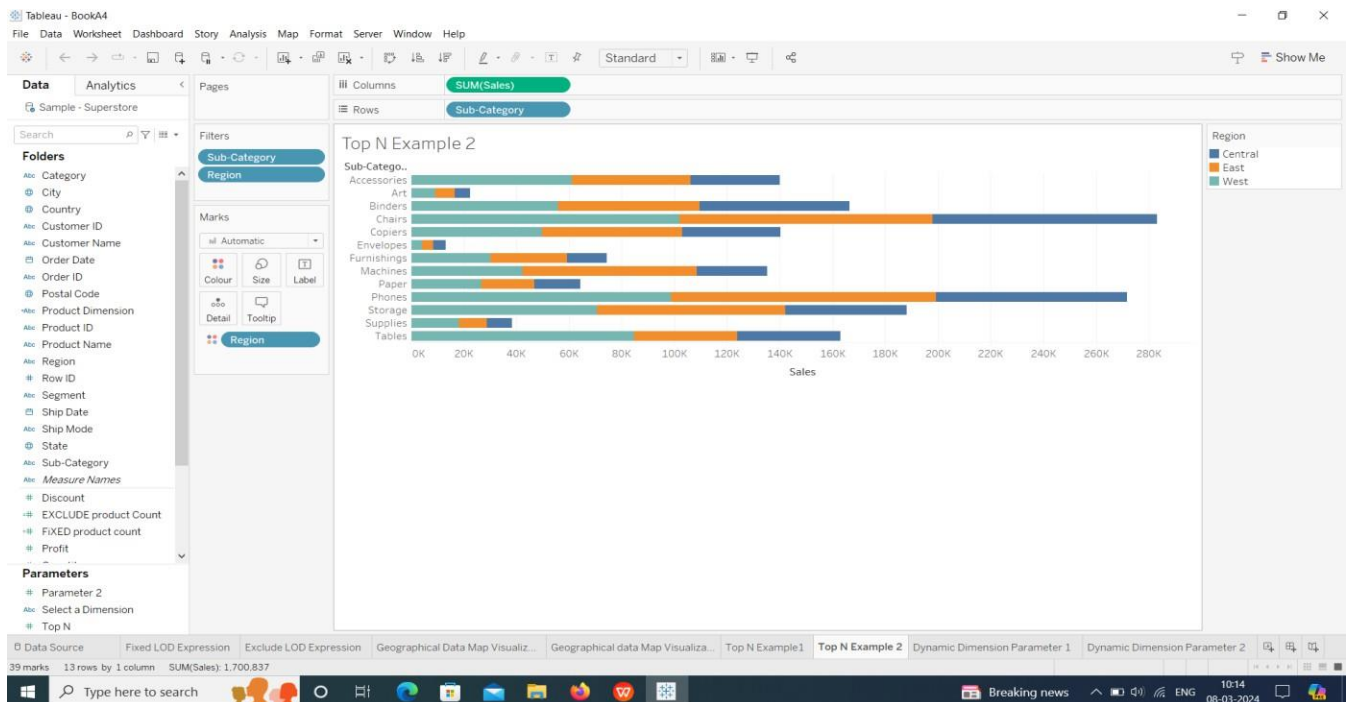
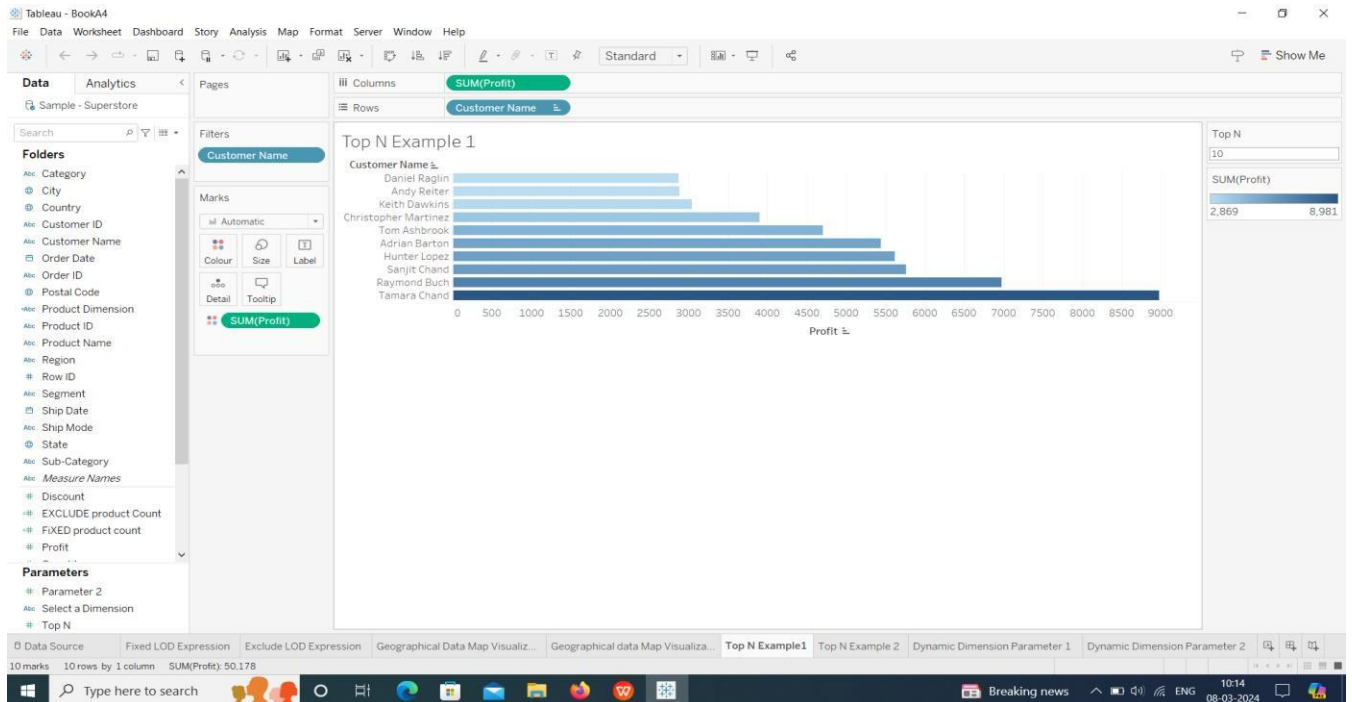




# DATA ANALYTICS WITH TABLEAU

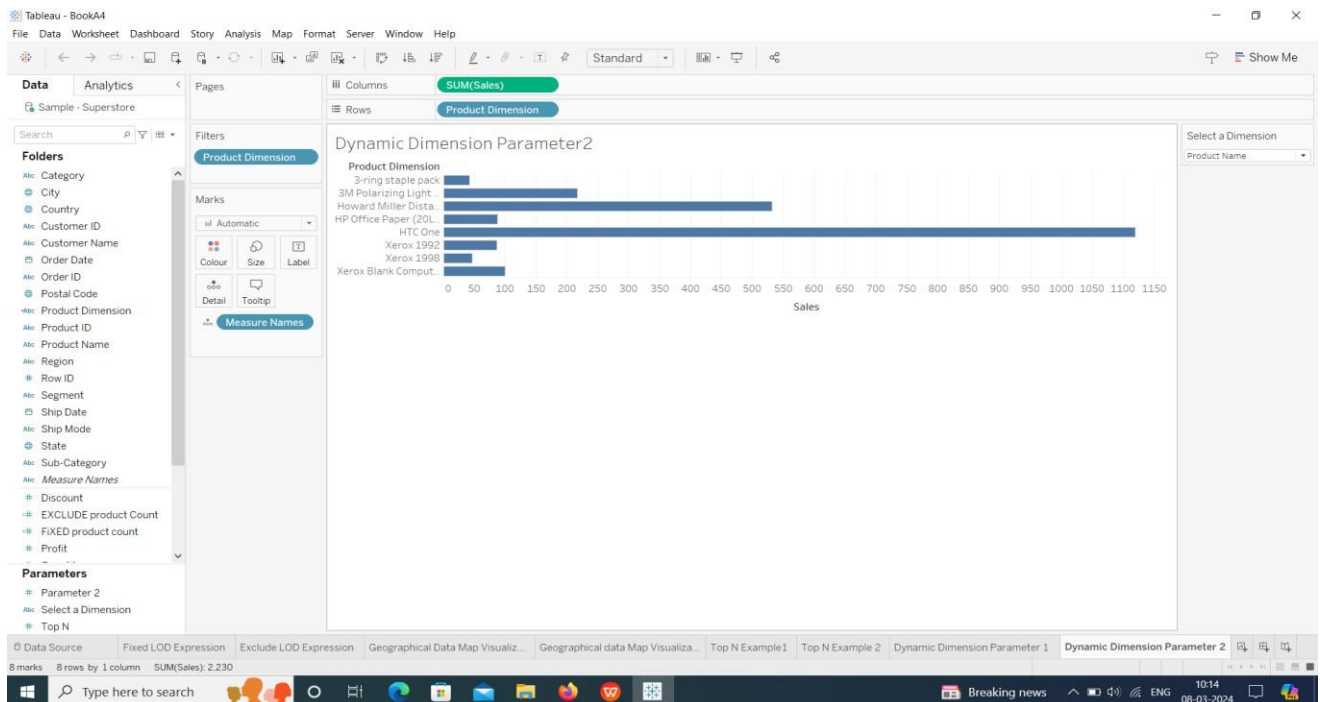
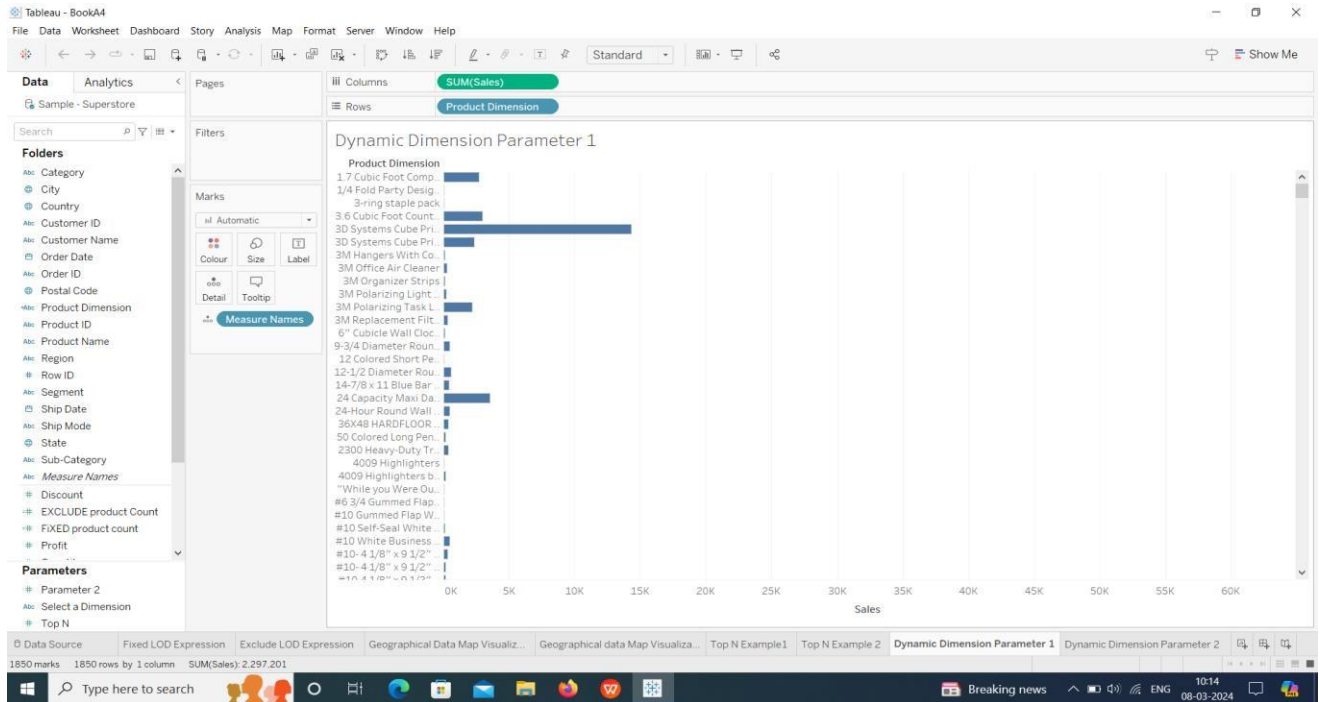
Create Top N and/or Dynamic dimension parameters and utilize those in your workbook:-

## Top N Parameters:-



# DATA ANALYTICS WITH TABLEAU

## Dynamic Dimension Parameter 1:-



THANK YOU!

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