

Data Analytics With Tableau

Name: Muppalla Jaya Lakshmi

Collage: Vignan 's Nirula Institute of Technology
and Science for Women

Roll No: 20NN1A12A0

Data Analytics With Tableau

Assignment-4

Task

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 queriesinvolving 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.

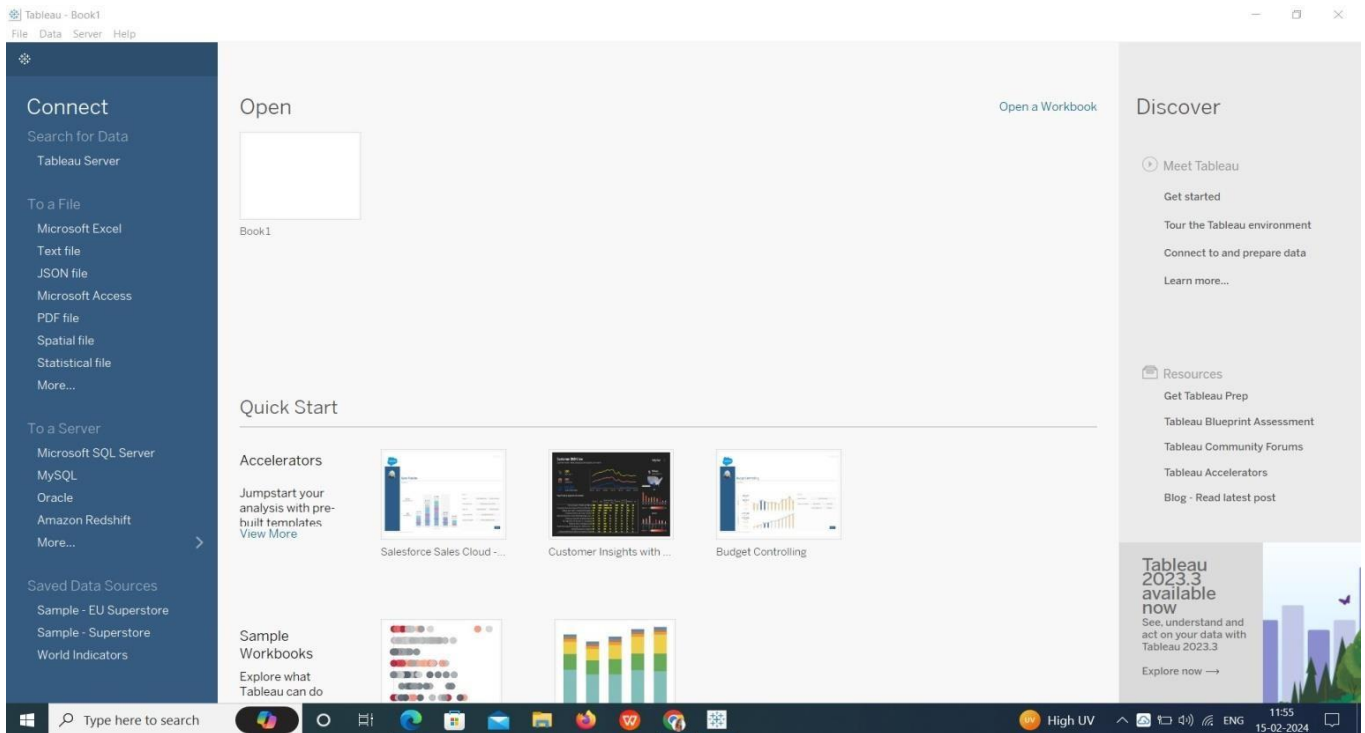
Create a Calculated field that will be used as a dimension in your worksheet. Dimension to display when a particular parameter value is selected.

Add the calculated fields to the canvas.

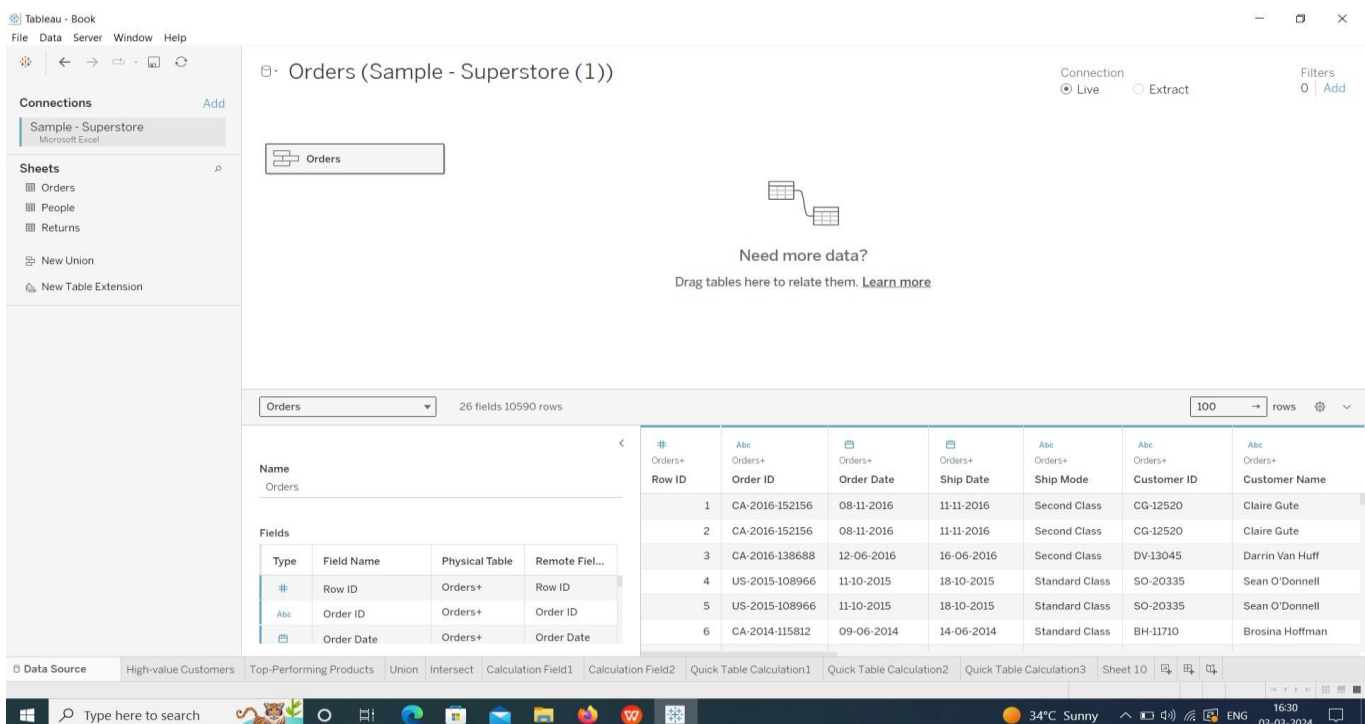
1) Colours

2) Filters

3) Select any ratings or price ranges.



Upload the DataSet in Tableau:-



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

One Fixed LOD:-

Fixed LOD Expression

Customer Name	Region	Order ID	Product Name	FIXED Sales	Quantity	Sales
Adam	Central	CA-2017-345877	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
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 Hangl.	9.0	4.0	22.7
		CA-2017-141481	Kensington 6 Outlet	9.0	3.0	61.4

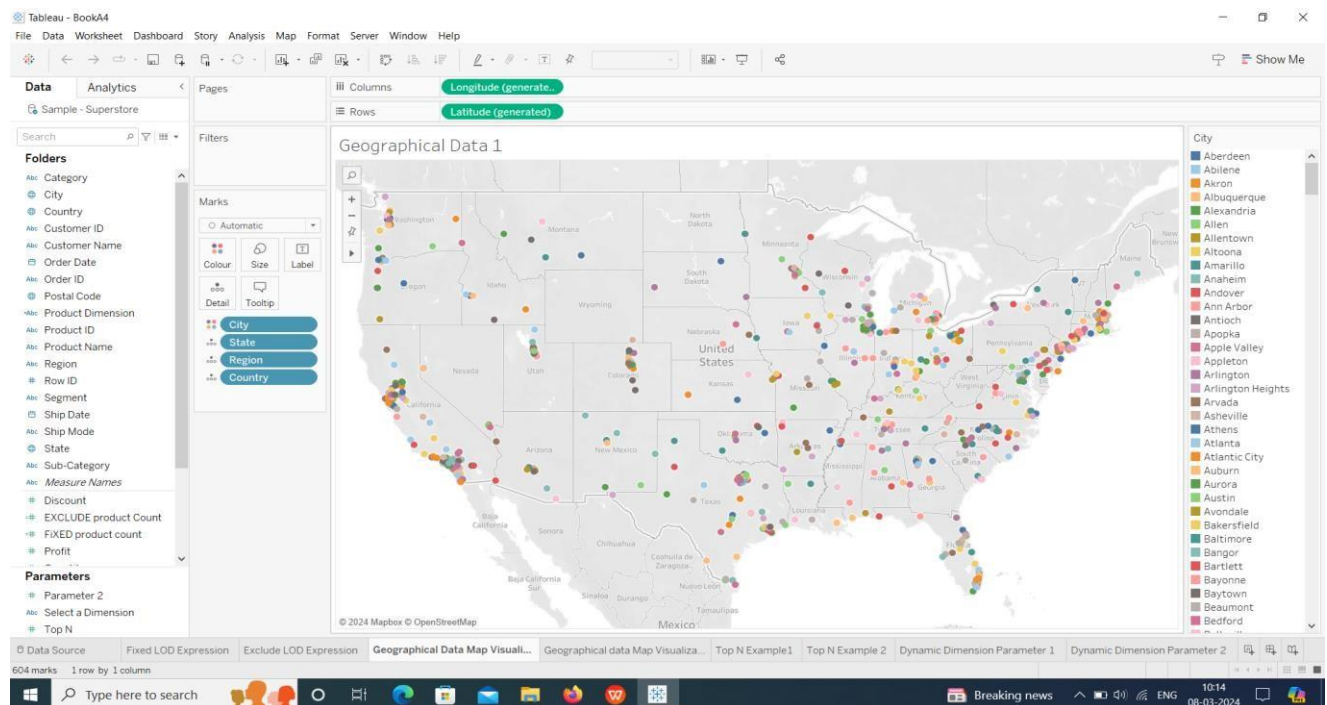
One Exclude LOD Expression:-

Exclude LOD Expression

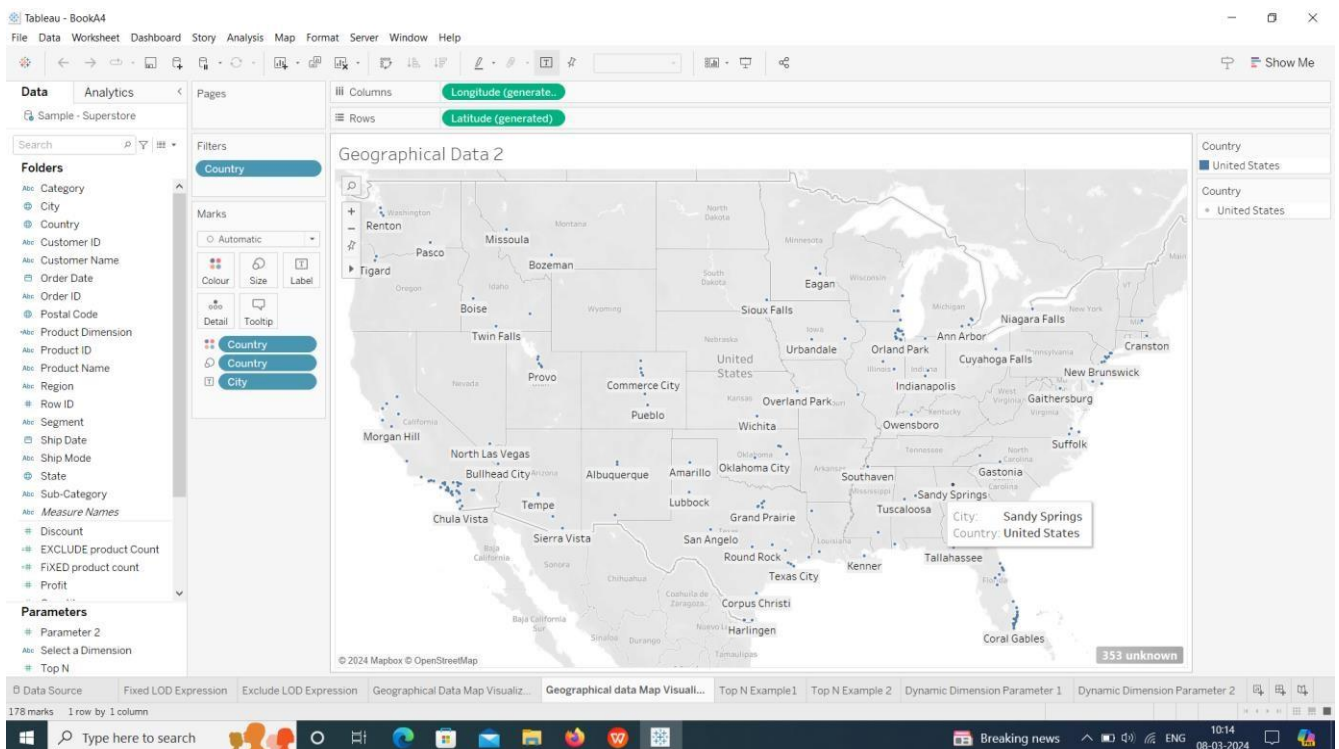
Customer Name	Region	Order ID	Product ID	Show Cu.	EXCL. FIXED Sales	Sales
Eugene Hildebrand	West	CA-2014-100867	TEC-PH-10004922	1	1	18
Jas O'Carroll	West	US-2016-115819	OFF-AR-10000823	1	6	11
			OFF-AR-10004956	1	6	11
			OFF-BI-10000050	1	6	11
			OFF-BI-10000591	1	6	11
			OFF-PA-10002377	1	6	11
			TEC-PH-10004700	1	6	11
Jim Mitchum	West	CA-2014-100363	OFF-FA-10000611	1	2	12
			OFF-PA-10004733	1	2	12
John Lee	South	US-2017-167920	OFF-AP-10000159	1	7	34
			OFF-BI-10003274	1	7	34
			OFF-BI-10004236	1	7	34
			OFF-LA-10004409	1	7	34
			OFF-ST-10004963	1	7	34
			TEC-AC-10001013	1	7	34
			TEC-CO-10001046	1	7	34
Pete Armstrong	West	US-2016-117387	OFF-BI-10004308	1	1	7
Rob Lucas	East	US-2017-169551	FUR-BG-10001519	1	6	24
			OFF-PA-10004100	1	6	24
			OFF-ST-10004835	1	6	24
			TEC-AC-10002018	1	6	24
			TEC-AC-10003033	1	6	24
			TEC-PH-10001363	1	6	24
Tamara Willingham	West	CA-2015-137113	FUR-CH-10001215	1	5	12
			FUR-TA-10001705	1	5	12
			OFF-PA-10002222	1	5	12
			OFF-PA-10004255	1	5	12
			OFF-ST-10002554	1	5	12

Create any 2 map visualizations using geographical data:-

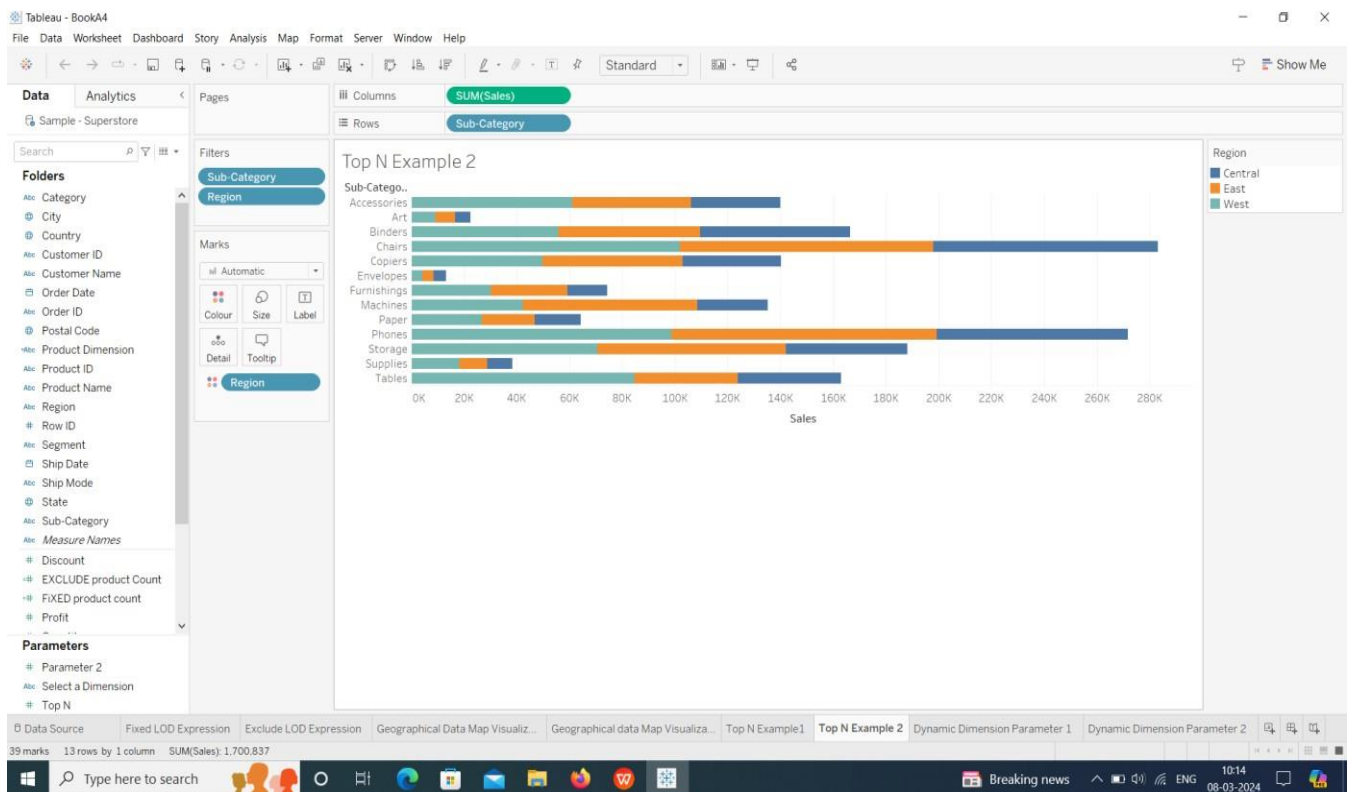
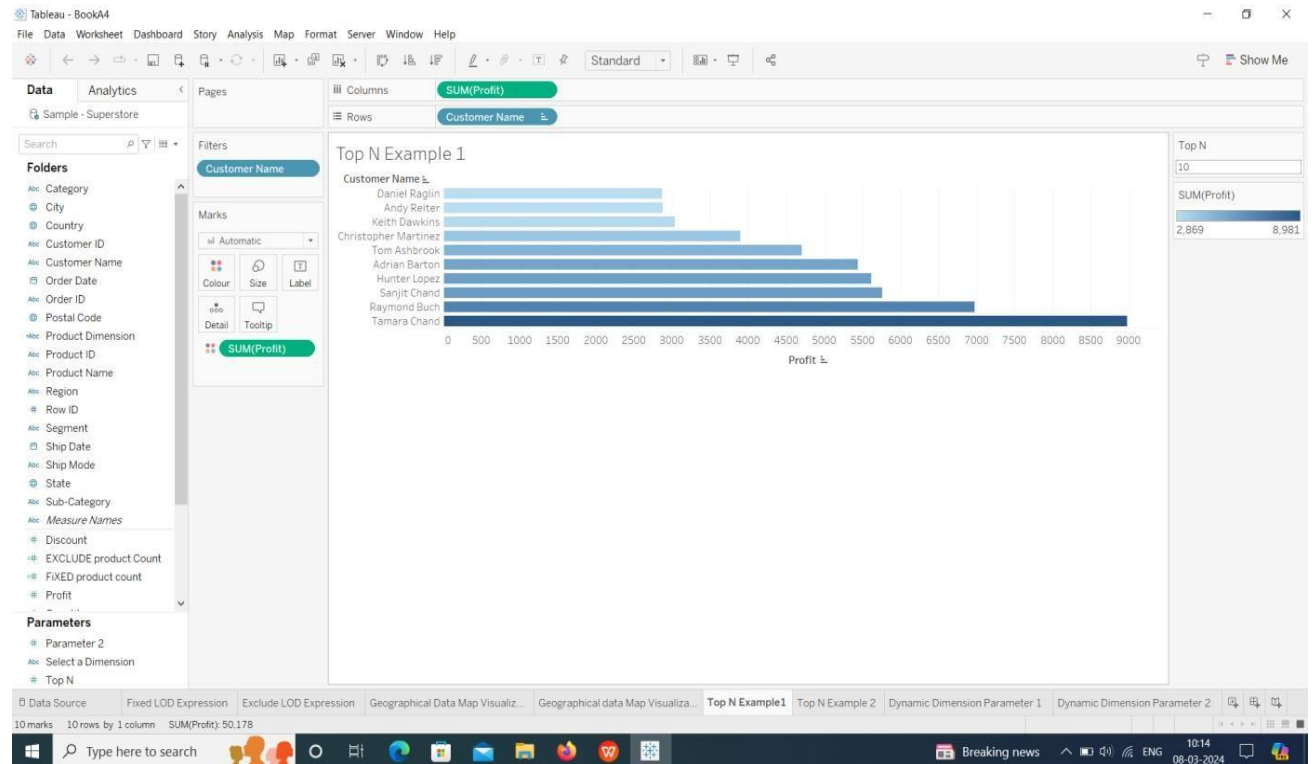
Map visualization 1:-



Map visualization 2:-



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



Dynamic Dimension Parameter 1

