

DATA ANALYTICS WITH TABLEAU

ASSIGNMENT – 4

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IV – BTECH(CSE)
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DATASET :  Sample - Superstore.xls

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 :-

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 datapane 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.

Create One Fixed LOD Expression and one exclude LOD expression

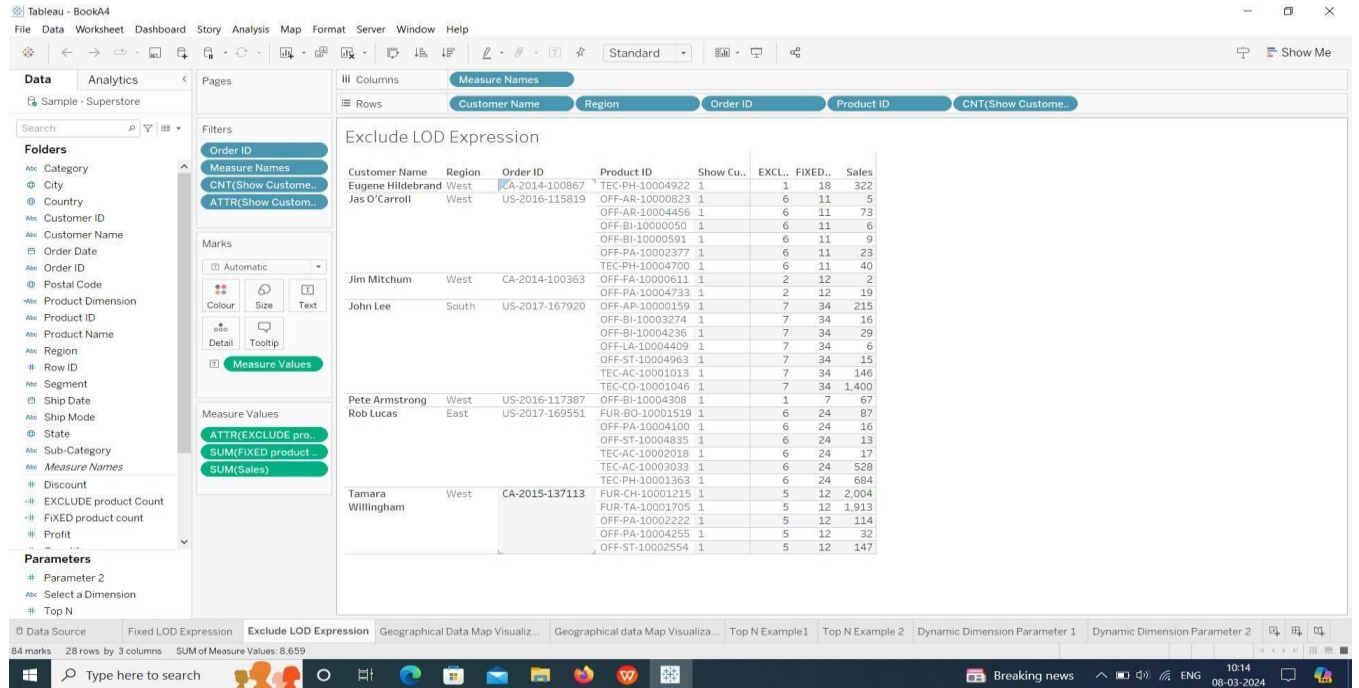
1. One Fixed LOD

The screenshot shows the Tableau Desktop interface with a worksheet titled 'Fixed LOD Expression'. The data is organized into columns: Customer N., Region, Order ID, Product Name, FIXED.., Quant., and Sales. The table displays sales data for various customers and products, with the 'FIXED..' column showing values for different product categories.

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

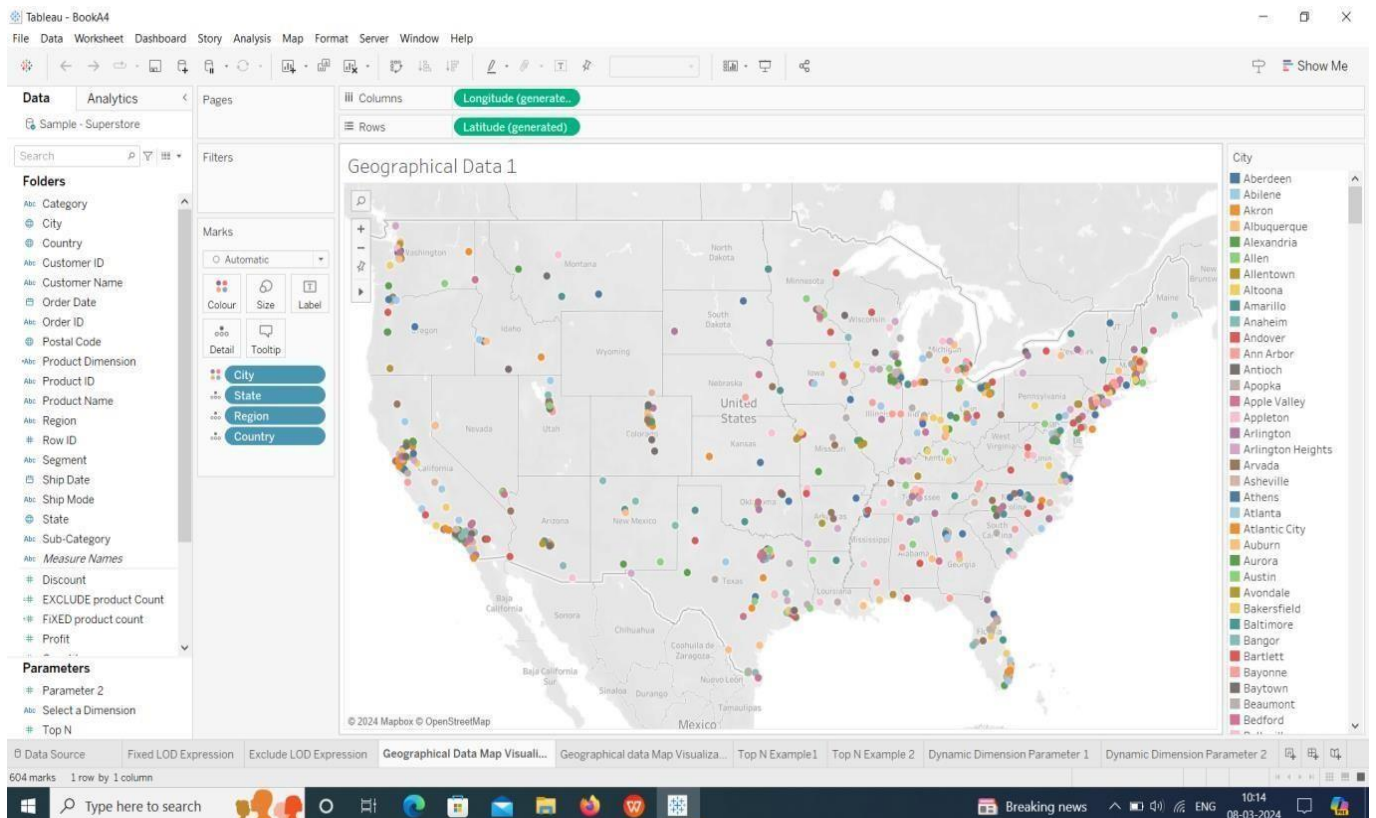
The interface also shows the 'Columns' shelf with 'Measure Names' and the 'Rows' shelf with 'Customer Name', 'Region', 'Order ID', and 'Product Name'. The 'Marks' shelf is set to 'Automatic'. The 'Filters' shelf contains 'Customer Name', 'Region', 'Order ID', 'Product Name', and 'Measure Names'. The 'Measure Values' shelf contains 'SUM(FIXED product..)', 'SUM(Quantity)', and 'SUM(Sales)'. The status bar at the bottom indicates '27 marks, 9 rows by 3 columns, SUM of Measure Values: 581.6'.

2. One Exclude LOD

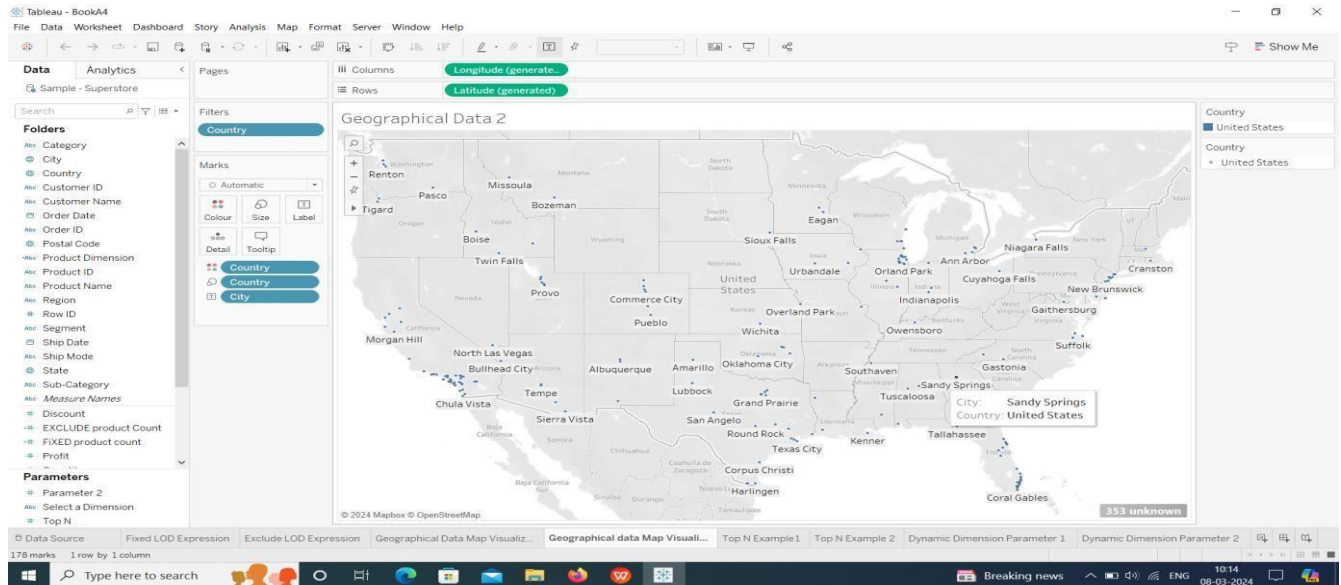


Create any 2 map visualizations using geographical data :-

Map visualization 1:

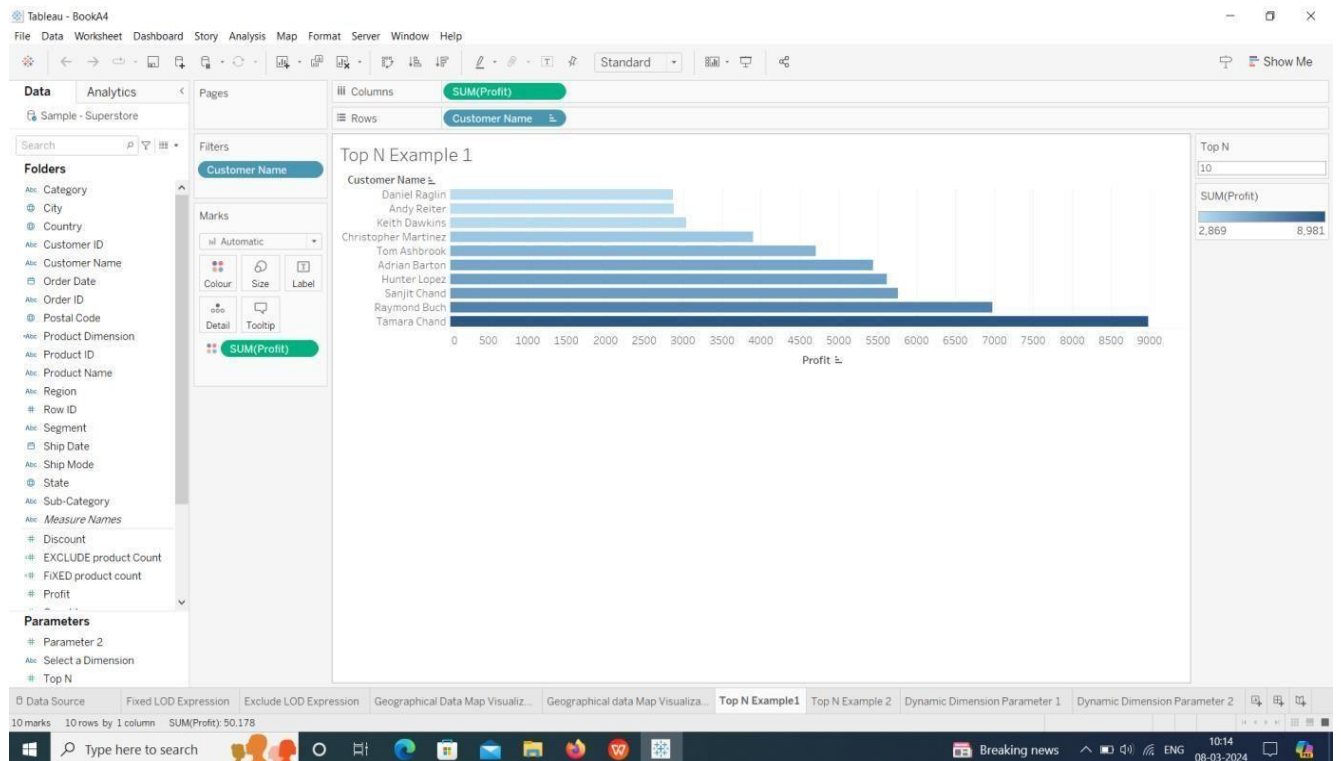


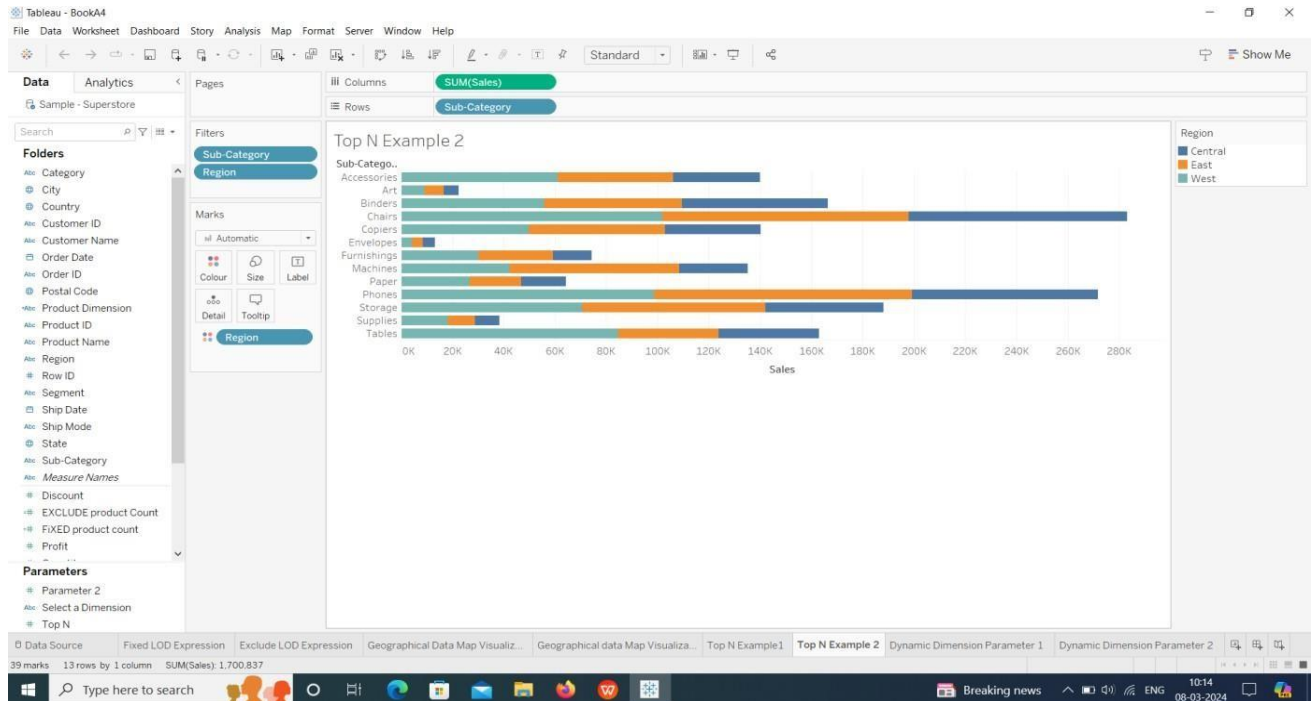
Map Visualization 2:



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

Top N Parameters:





Dynamic Dimension Parameter:

