

DATA ANALYTICS WITH TABLEAU ASSIGNMENT

— 4

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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 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.

Create One Fixed LOD Expression and one exclude LOD expression

1.One Fixed LOD

Tableau - Book44

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Standard

Show Me

Data Analytics

Sample - Superstore

Search

Folders

- Alt Category
- City
- Country
- Alt Customer ID
- Alt Customer Name
- Order Date
- Alt Order ID
- Postal Code
- Alt Product Dimension
- Alt Product ID
- Alt Product Name
- Alt Region
- Row ID
- Alt Segment
- Ship Date
- Alt Ship Mode
- State
- Alt Sub-Category
- Alt Measure Names
- Discount
- EXCLUDE product Count
- FIXED product count
- Profit

Parameters

- Parameter 2
- Select a Dimension
- Top N

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)

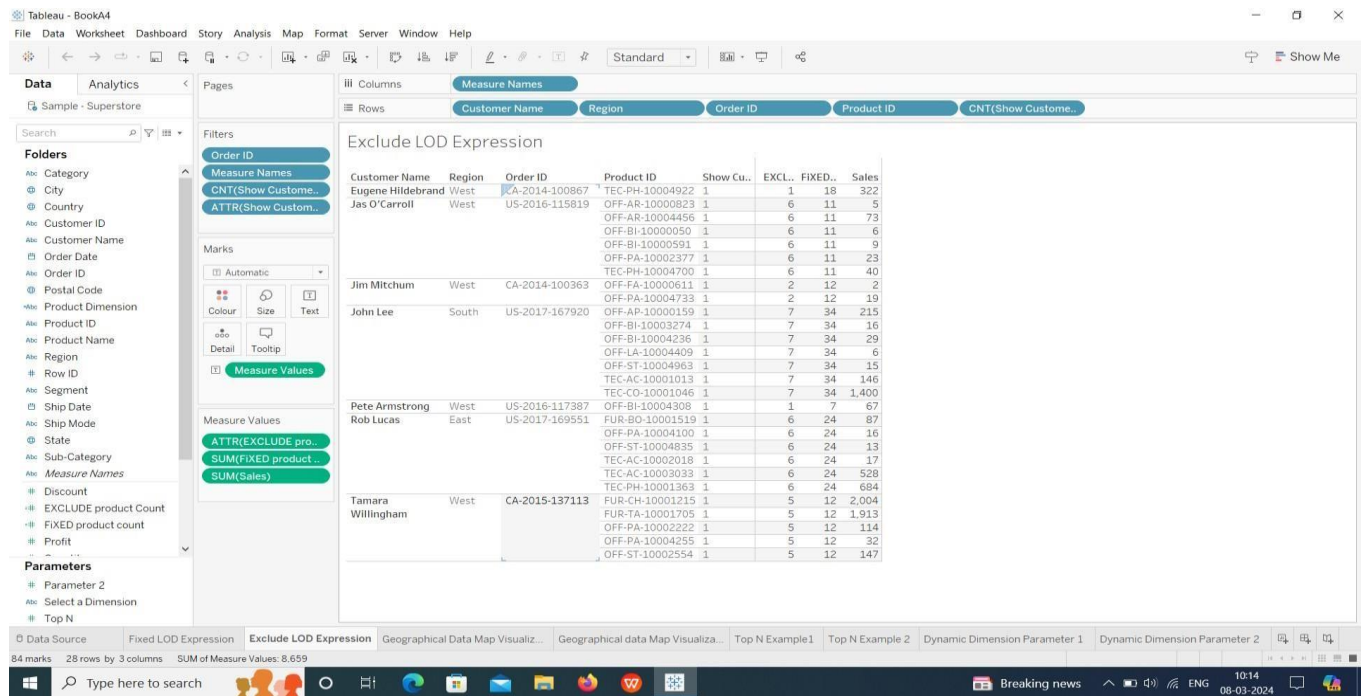
Fixed LOD Expression

| 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 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 5016 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

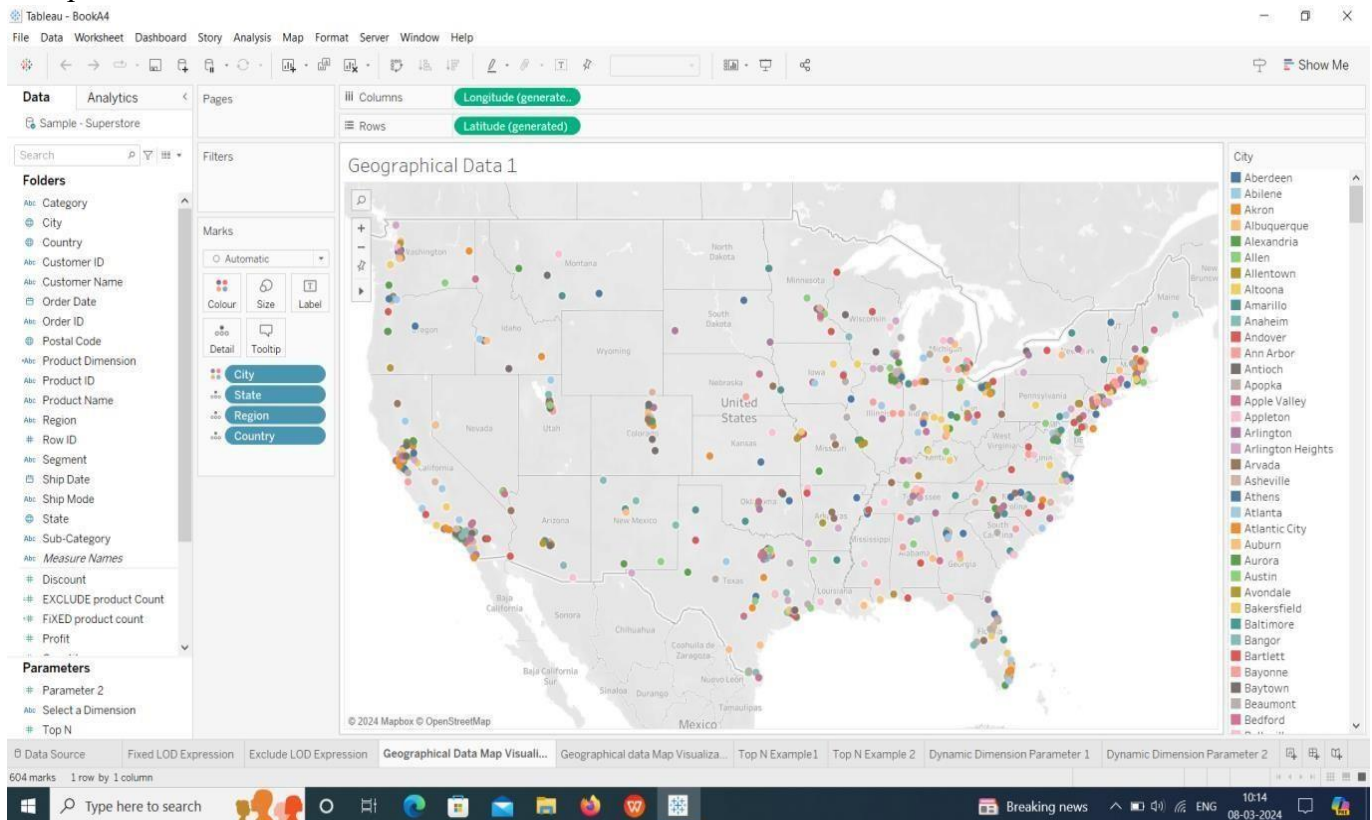
Breaking news 10:14 08-03-2024

2.One Exclude LOD

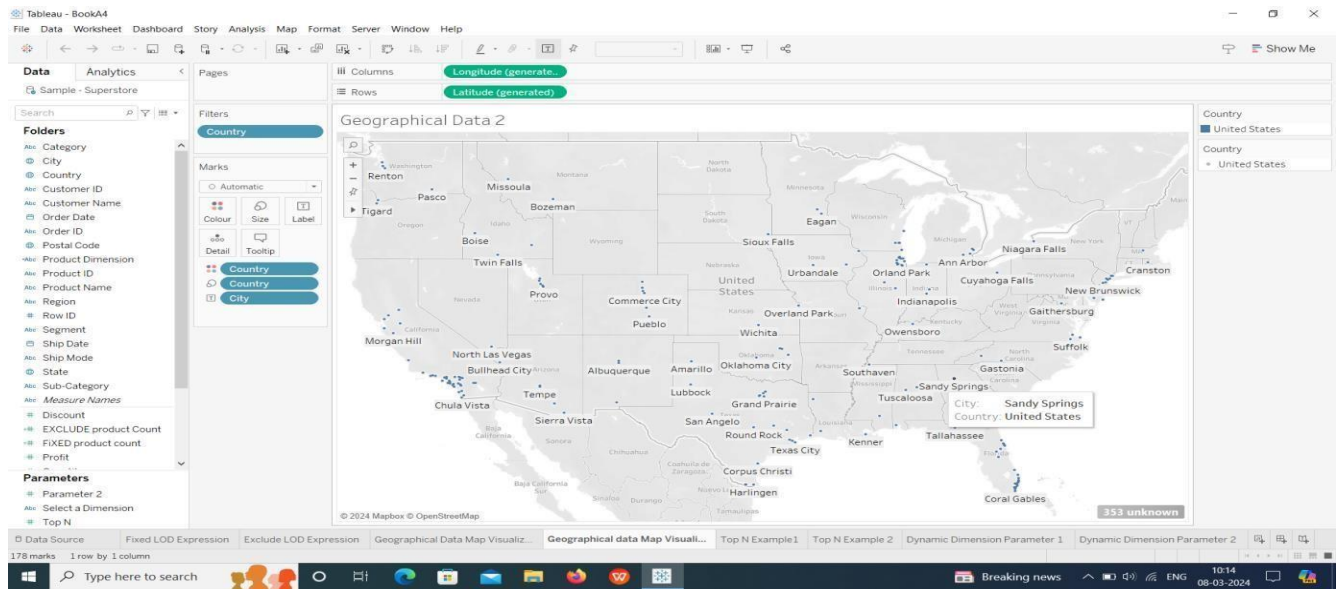


Create any 2 map visualizations using geographical data :-

Map visualization 1:

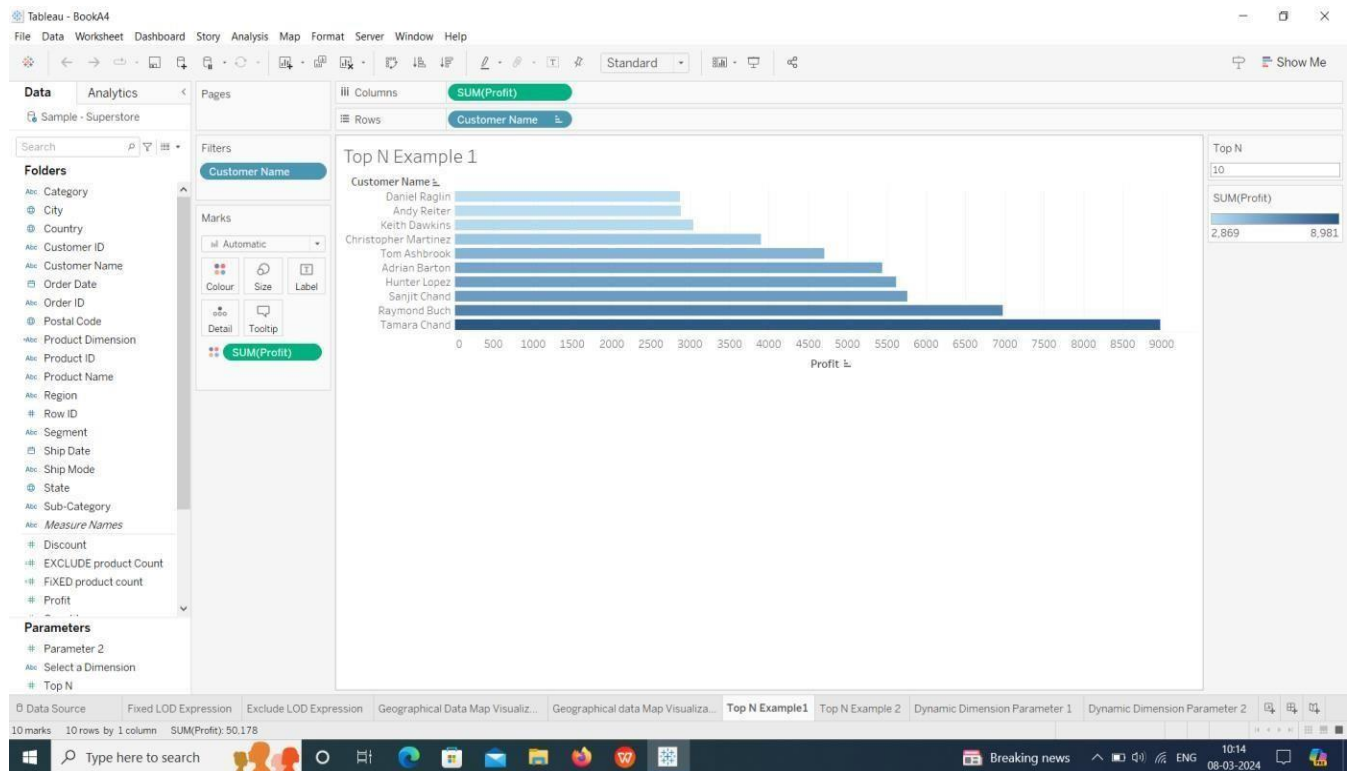


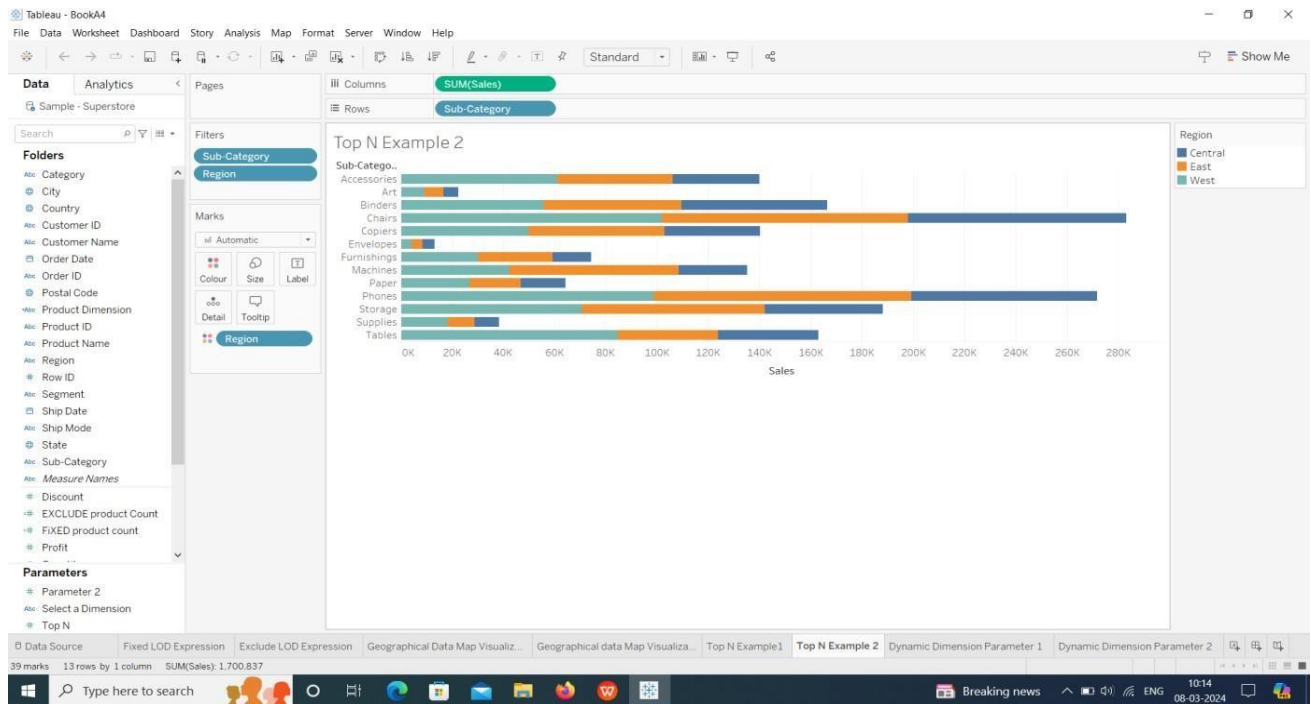
Map Visualization 2:



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

Top N Parameters:





Dynamic Dimension Parameter:

