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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.

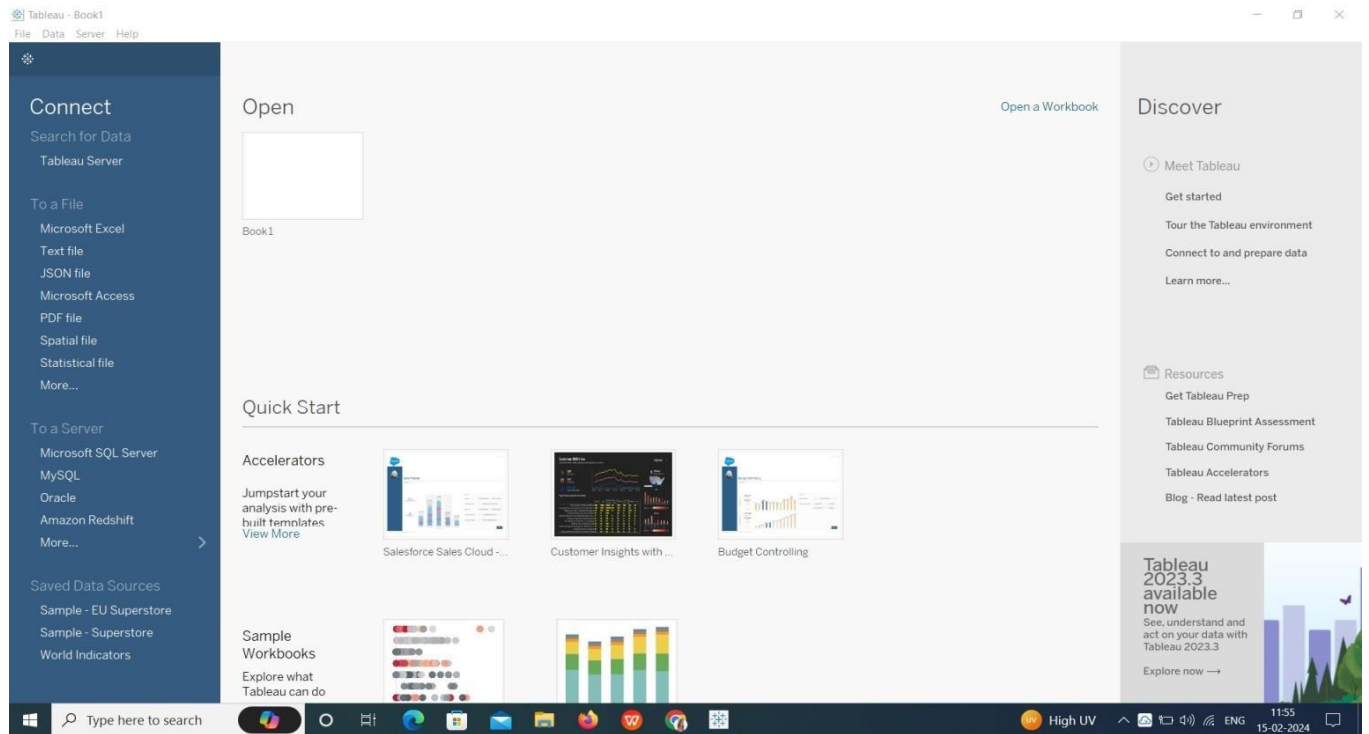
Create a Calculated field that will be used as a dimension in your worksheet. Dimension to display when a particular parameter value is selected.

Add the calculated fields to the canvas.

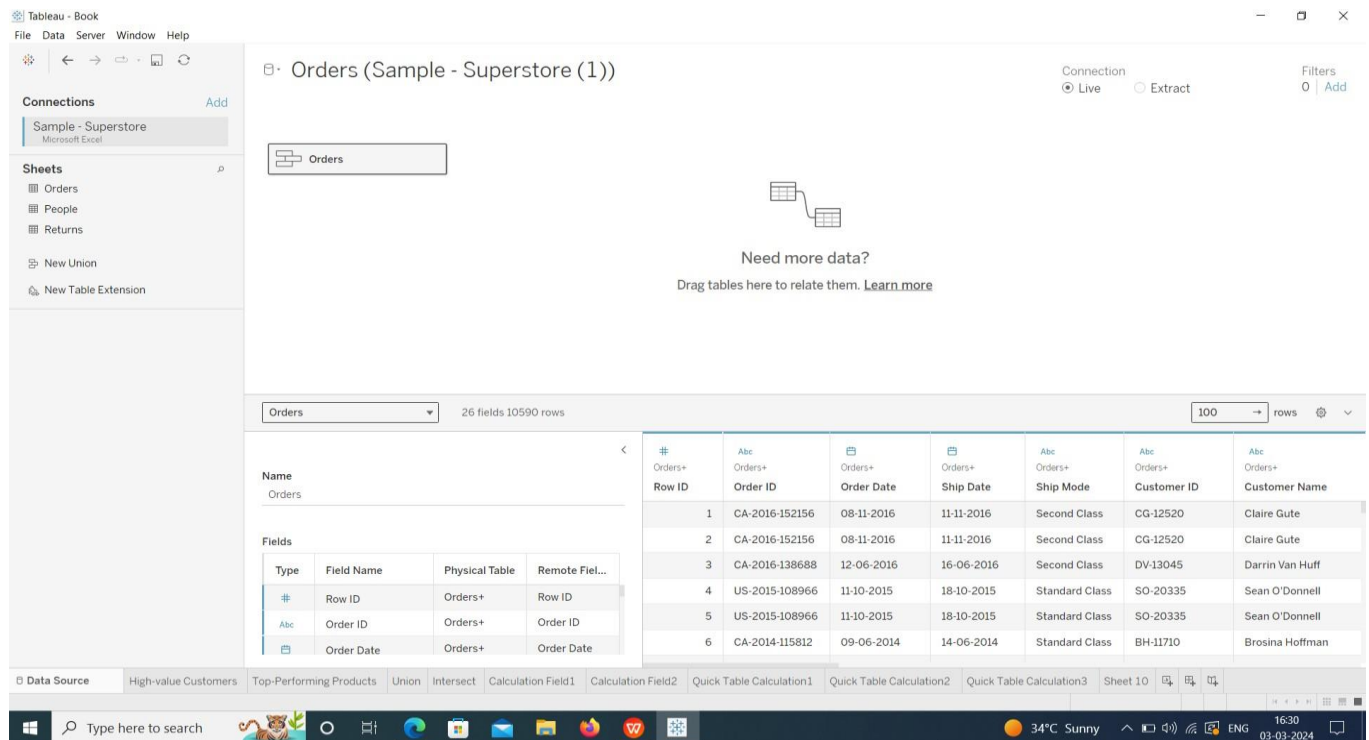
- 1) Colours
- 2) Filters
- 3) Select any ratings or price ranges.

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

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 Name | 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 |

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

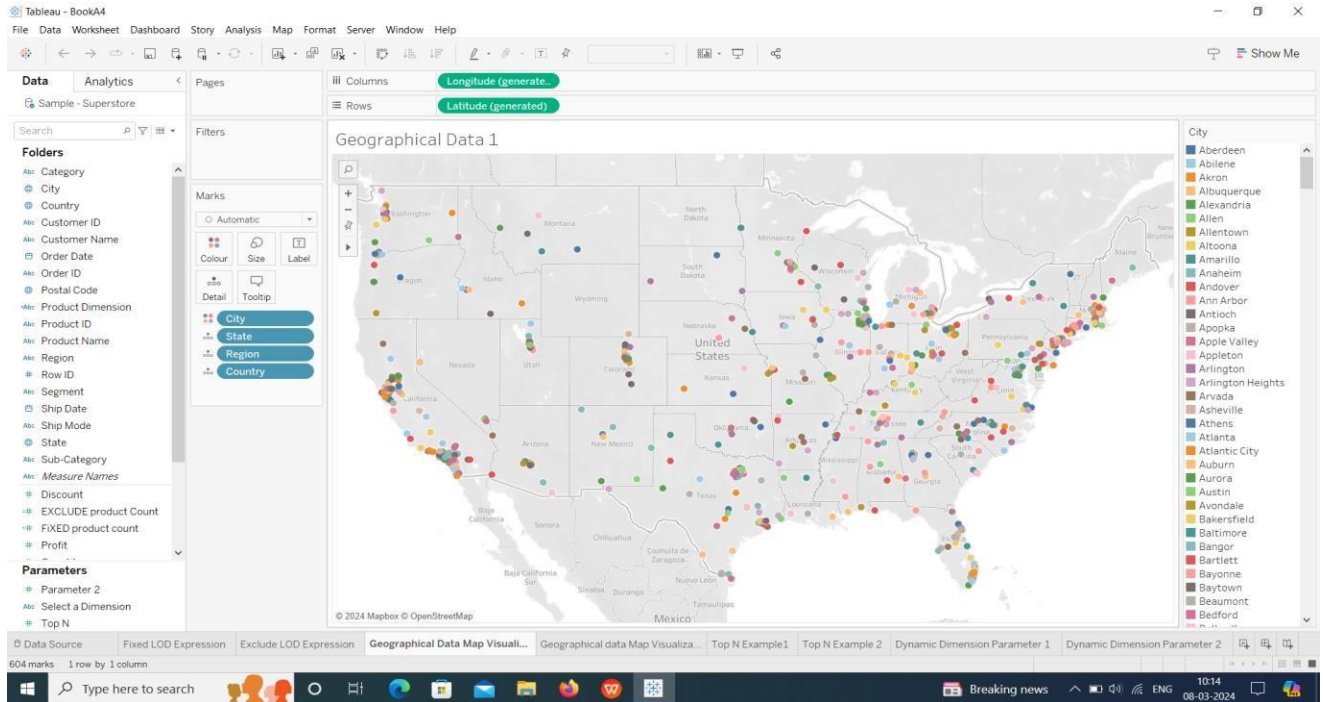
Measure Values: ATTR(EXCLUDE pro...), SUM(FIXED product...), SUM(Sales)

| 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-10004456 | 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 |
| Jim Mitchum | West | CA-2014-100363 | TEC-PH-10004700 | 1 | 6 | 11 | 40 |
| John Lee | South | US-2017-167920 | OFF-FA-10000611 | 1 | 2 | 12 | 2 |
| | | | OFF-PA-10004733 | 1 | 2 | 12 | 19 |
| | | | 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 |
| | | | TEC-CO-10001046 | 1 | 7 | 34 | 1,400 |
| Pete Armstrong | West | US-2016-117387 | OFF-BI-10004308 | 1 | 1 | 7 | 67 |
| Rob Lucas | East | US-2017-169551 | FUR-BO-10001519 | 1 | 6 | 24 | 87 |
| | | | OFF-PA-10004100 | 1 | 6 | 24 | 16 |
| | | | OFF-ST-10004835 | 1 | 6 | 24 | 13 |
| | | | TEC-AC-10002019 | 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 |

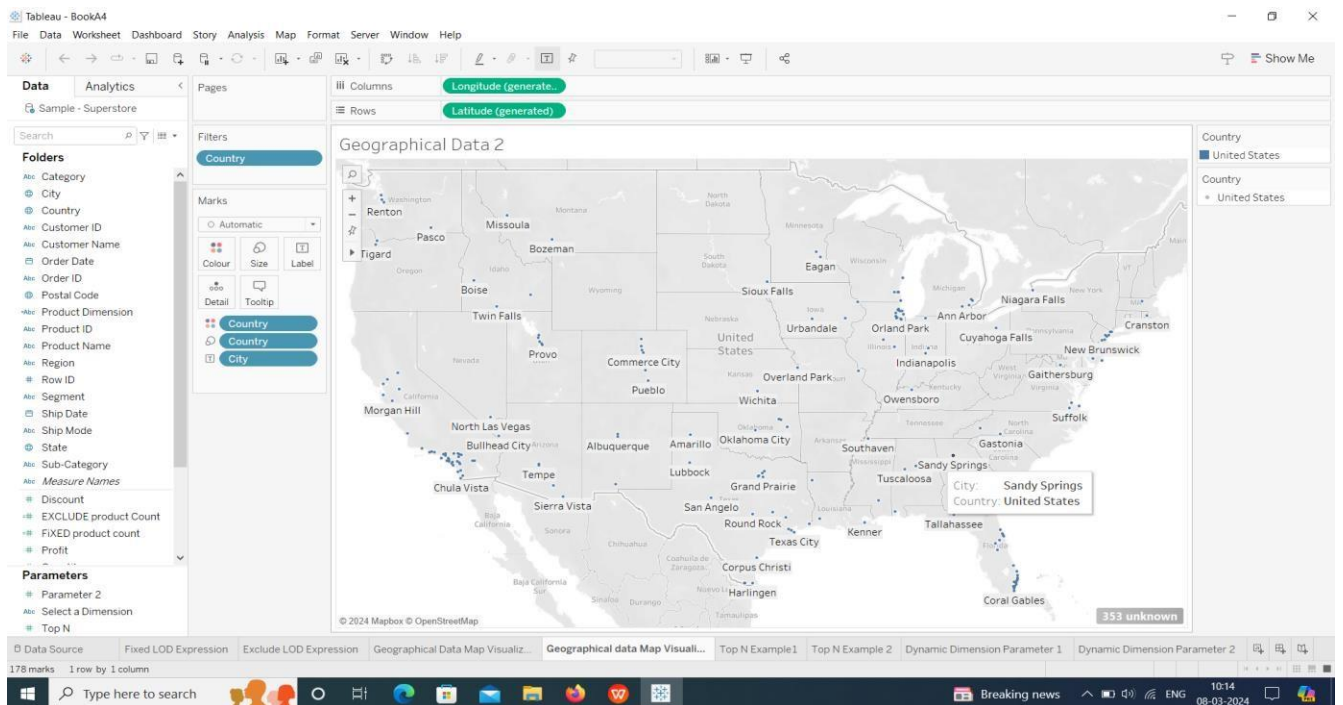
DATA ANALYTICS WITH TABLEAU

Create any 2 map visualizations using geographical data:-

Map visualization 1:-



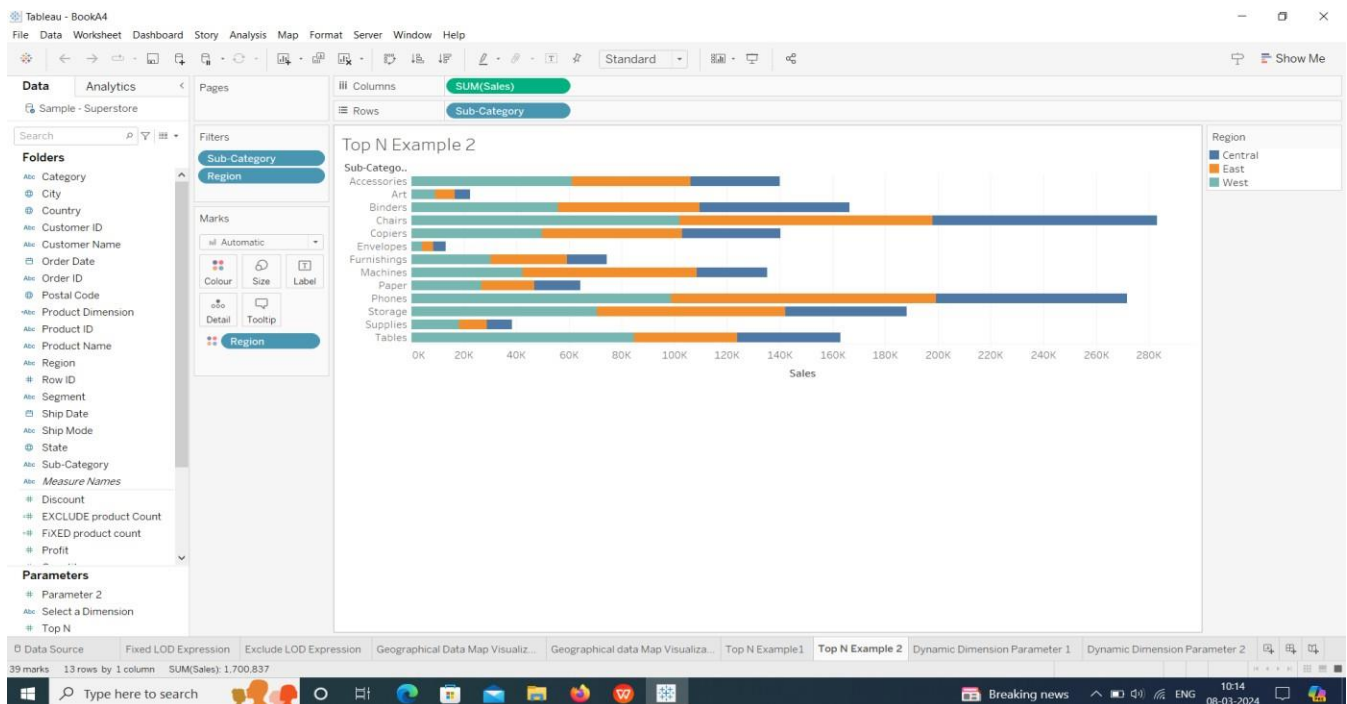
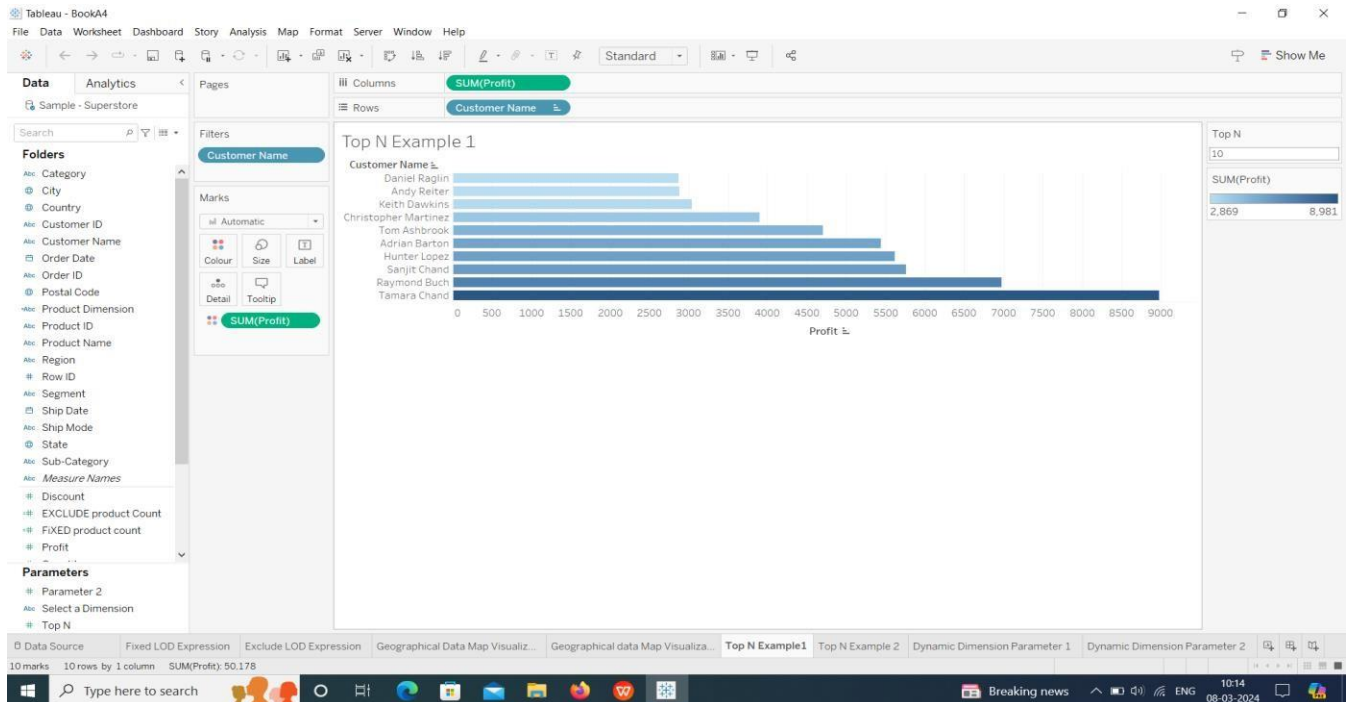
Map visualization 2:-



DATA ANALYTICS WITH TABLEAU

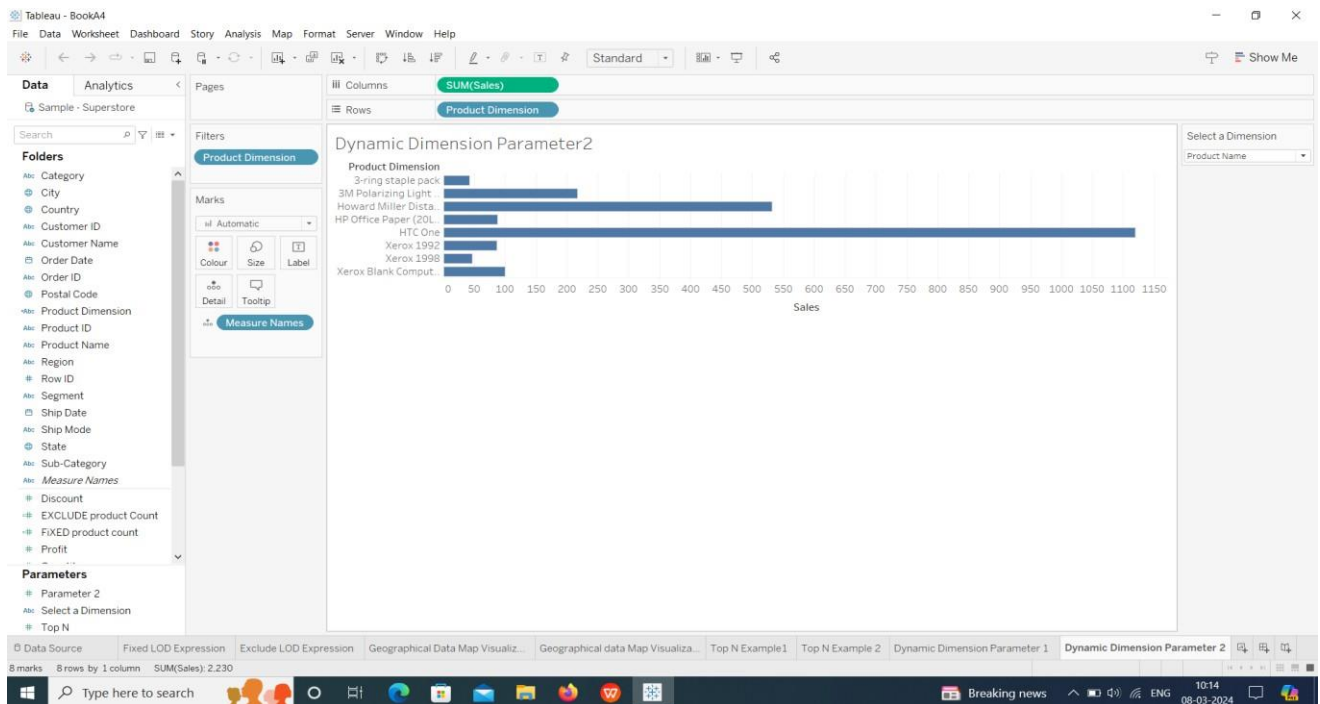
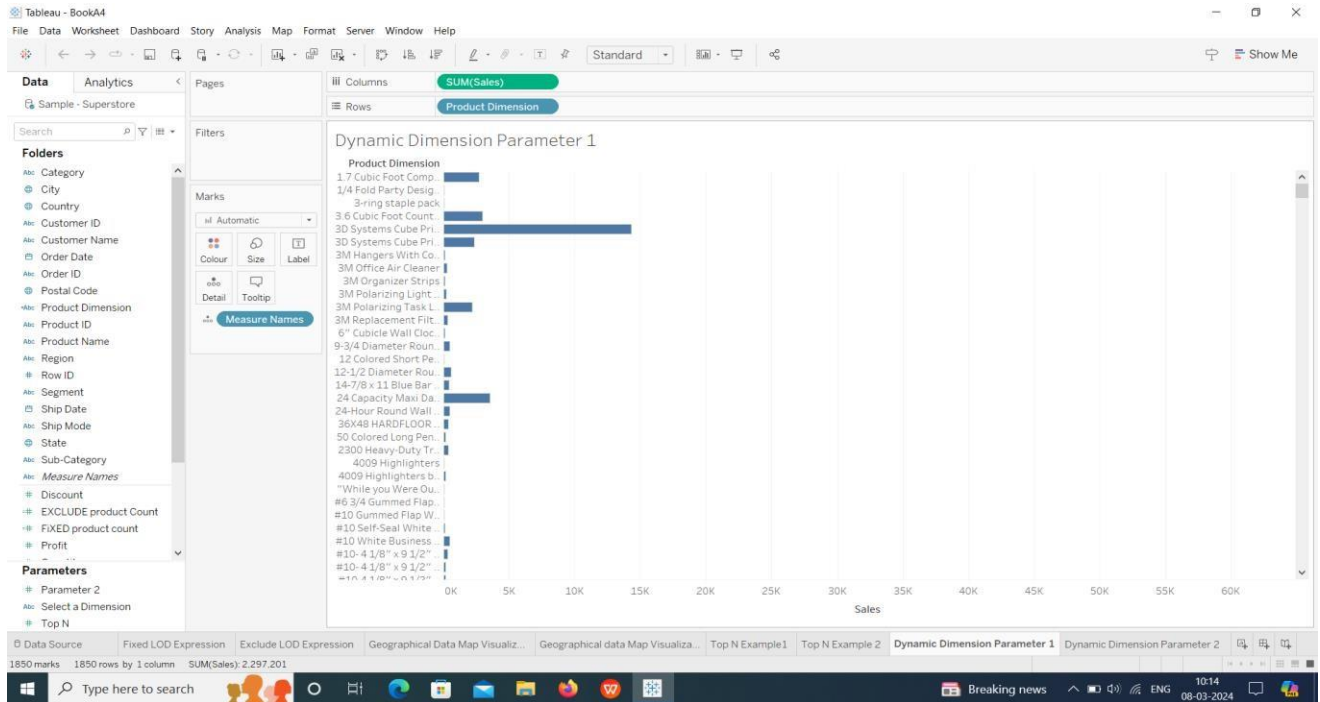
Create Top N and/or Dynamic dimension parameters and utilize those in your workbook:-

Top N Parameters:-



DATA ANALYTICS WITH TABLEAU

Dynamic Dimension Parameter 1:-



THANK YOU!