
DATA ANALYTICS WITH TABLEAU

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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:-

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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.

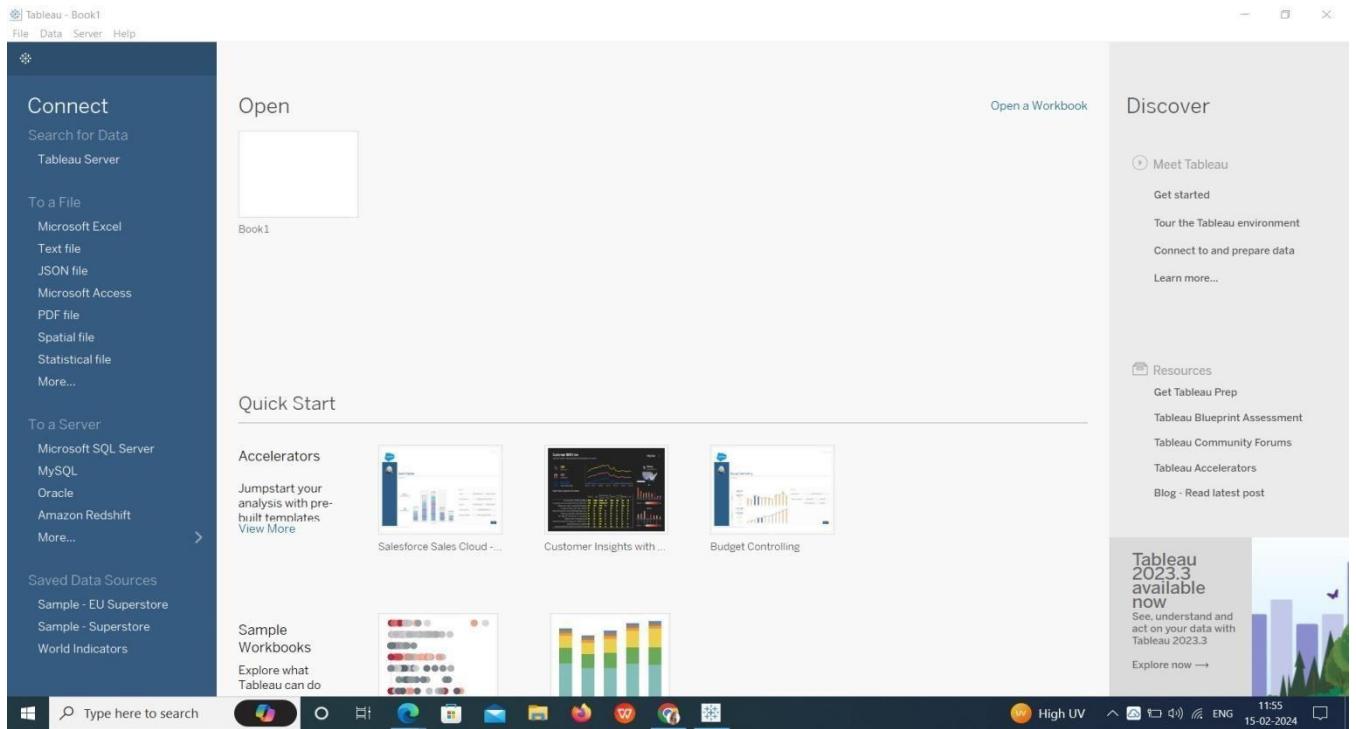
Create a Calculated field that will be used as a dimension in your worksheet. Dimension to display when a particular parameter value is selected.

Add the calculated fields to the canvas.

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

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Tableau Starting:-



Upload the DataSet in Tableau:-

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The screenshot shows the Tableau Data Source interface. On the left, the 'Connections' pane displays 'Sample - Superstore' (Microsoft Excel). The 'Sheets' pane lists 'Orders', 'People', and 'Returns'. A 'New Union' and 'New Table Extension' option are also present. The main workspace shows the 'Orders' sheet with a title 'Orders (Sample - Superstore (1))'. It includes a small icon of a grid with a line pointing to it, a 'Need more data?' message, and a note to 'Drag tables here to relate them. Learn more'. Below this is a preview of the data with 26 fields and 10590 rows. The preview table has columns: Row ID, Order ID, Order Date, Ship Date, Ship Mode, Customer ID, and Customer Name. The first six rows of data are listed. At the bottom, there's a toolbar with various icons and a status bar showing weather, time, and date.

| Row ID | Order ID | Order Date | Ship Date | Ship Mode | Customer ID | Customer Name |
|--------|----------------|------------|------------|----------------|-------------|-----------------|
| 1 | CA-2016-152156 | 08-11-2016 | 11-11-2016 | Second Class | CG-12520 | Claire Gute |
| 2 | CA-2016-152156 | 08-11-2016 | 11-11-2016 | Second Class | CG-12520 | Claire Gute |
| 3 | CA-2016-158688 | 12-06-2016 | 16-06-2016 | Second Class | DV-13045 | Darrin Van Huff |
| 4 | US-2015-108966 | 11-10-2015 | 18-10-2015 | Standard Class | SO-20335 | Sean O'Donnell |
| 5 | US-2015-108966 | 11-10-2015 | 18-10-2015 | Standard Class | SO-20335 | Sean O'Donnell |
| 6 | CA-2014-115812 | 09-06-2014 | 14-06-2014 | Standard Class | BH-11710 | Brosina Hoffman |

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

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One Fixed LOD:-

Tableau - BookA

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Show Me

Data Analytics < Pages Standard Rows Customer Name Region Order ID Product Name

Search Folders Filters Customer Name Region Order ID Product Name Measure Names

Marks Automatic Color Size Text Detail Tooltip Measure Values

Customer N.. Region Order ID Product Name FIXED.. Quant.. Sales

| 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 Shoney | South | CA-2019-150749 | Newell 333 | 15.0 | 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 Hang... | 9.0 | 4.0 | 22.7 |
| | | CA-2017-141481 | Kensington 6 Outlet | 9.0 | 3.0 | 61.4 |

Measure Values

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

Parameters

Parameter 2
Select a Dimension
Top N

Data Source Fixed LOD Expression Exclude LOD Expression Geographical Data Map Visualiz... Geographical data Map Visualiz... Top N Example1 Top N Example2 Dynamic Dimension Parameter 1 Dynamic Dimension Parameter 2

27 marks 9 rows by 3 columns SUM of Measure Values: 581.6

Type here to search

Breaking news ENG 10:14 08-03-2024

One Exclude LOD Expression:-

Tableau - BookA

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Standard

Data Analytics < Pages Measure Names Customer Name Region Order ID Product ID CNT>Show Custome..

Sample - Superstore

Search

Filters

Folders

- Order ID
- Measure Names
- CNT>Show Custome..
- ATTR>Show Custom..

Marks

Automatic

- Colour
- Size
- Text
- Detail
- Tooltip

Measure Values

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 |
| | | | TEC-PH-10004700 | 1 | 6 | 11 | 40 |
| Jim Mitchum | West | CA-2014-100363 | OFF-FA-10000611 | 1 | 2 | 12 | 2 |
| | | | OFF-FA-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-LL-10004409 | 1 | 7 | 34 | 6 |
| | | | OFF-ST-10004963 | 1 | 7 | 34 | 15 |
| | | | TEC-AC-10001013 | 1 | 7 | 34 | 145 |
| | | | TEC-PH-10004446 | 1 | 7 | 34 | 1,406 |
| Pete Armstrong | West | US-2016-117387 | OFF-BI-10004300 | 1 | 1 | 7 | 67 |
| Rob Lucas | East | US-2017-169551 | FUR-BD-10001510 | 1 | 6 | 24 | 87 |
| | | | OFF-PA-10004100 | 1 | 6 | 24 | 16 |
| | | | OFF-ST-10004836 | 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 |

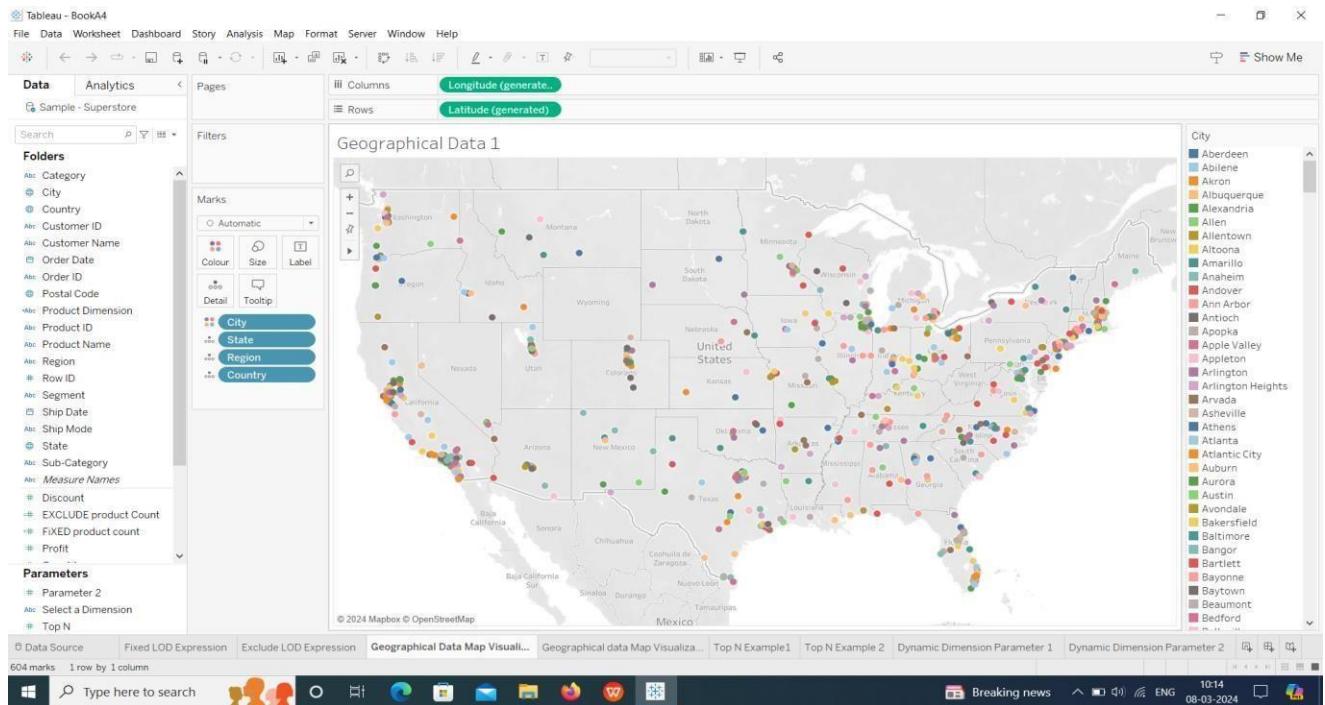
84 marks 28 rows by 3 columns SUM of Measure Values: 8,659

Type here to search

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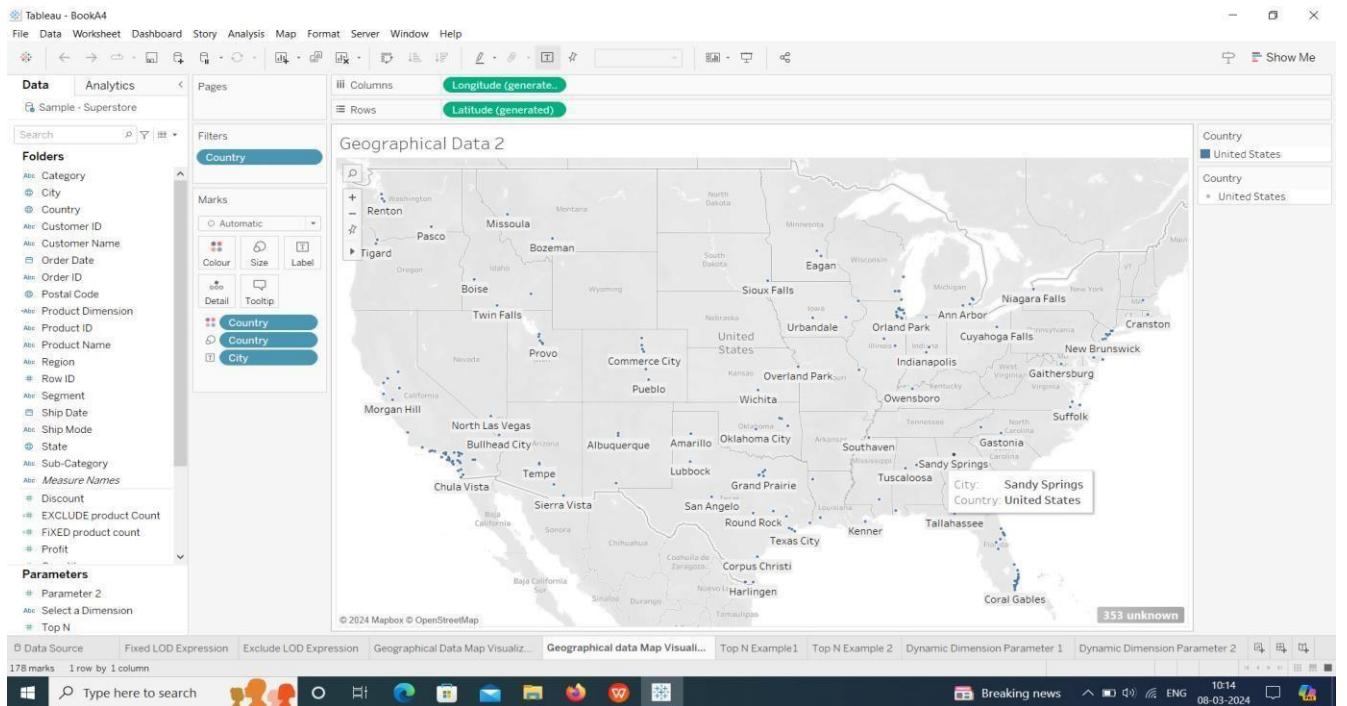
Create any 2 map visualizations using geographical data:- Map visualization

1:-



Map visualization 2:-

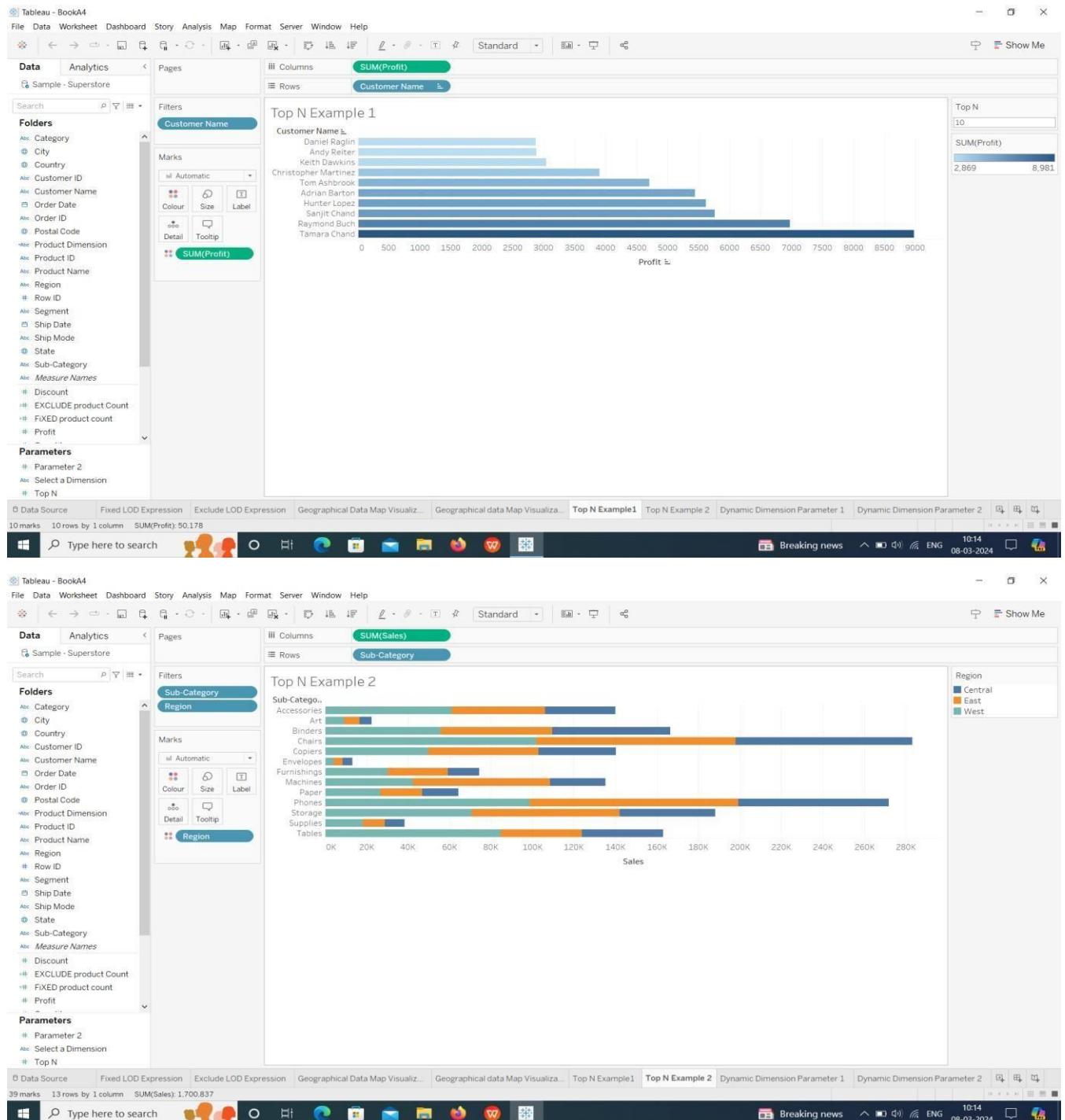
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Create Top N and/or Dynamic dimension parameters and utilize those in your workbook:-

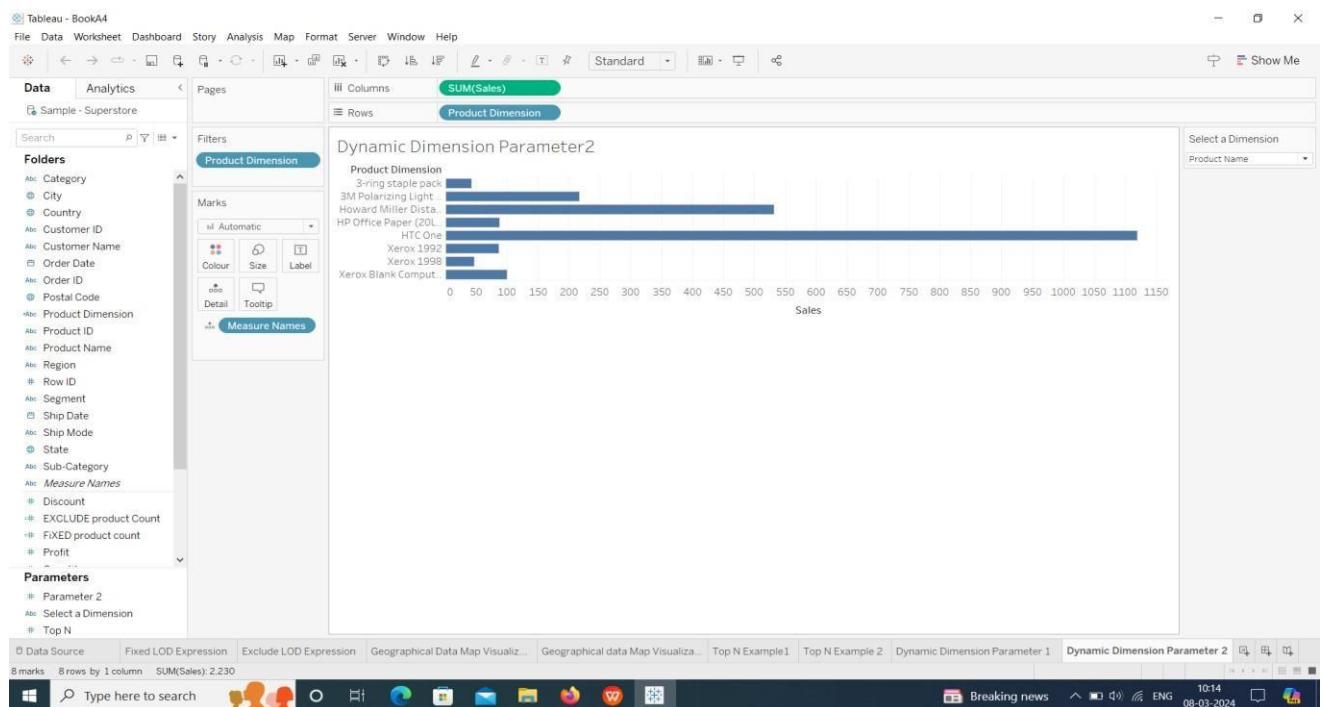
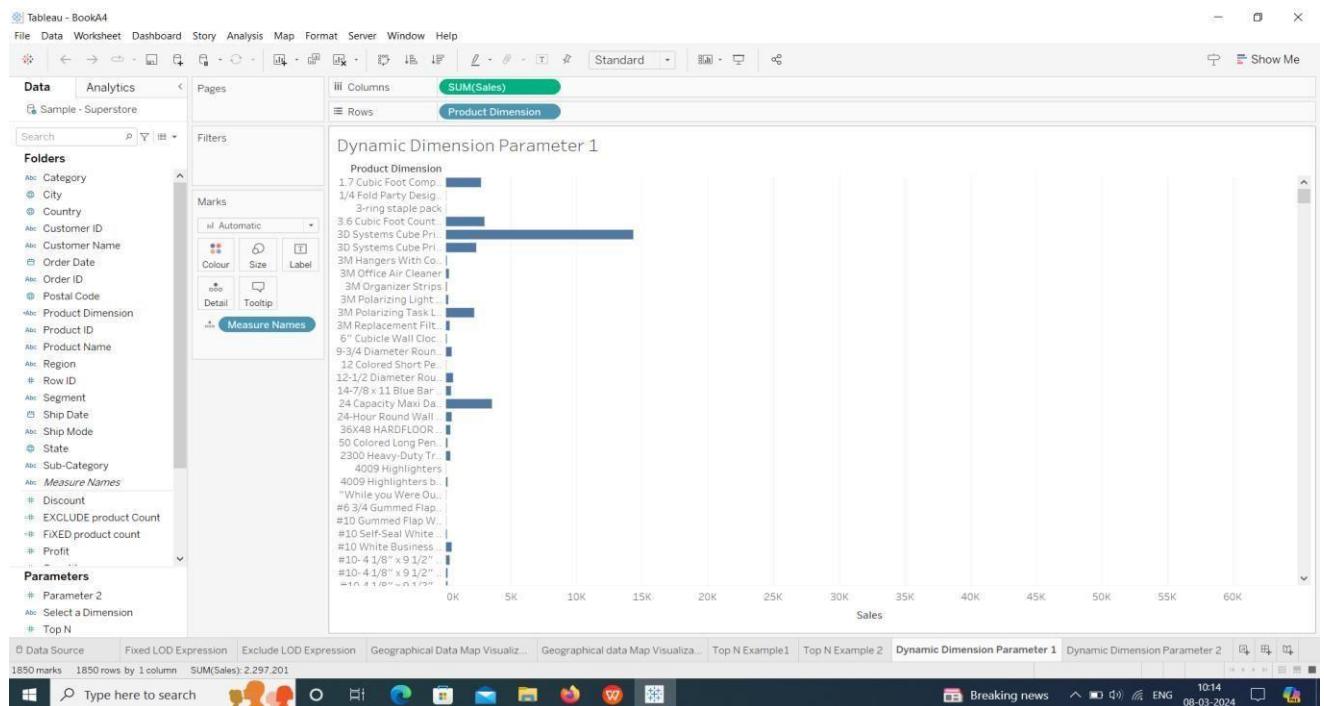
Top N Parameters:-

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Dynamic Dimension Parameter 1:-

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THANK YOU!

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