DATA ANALYTICS WITH TABLEAU

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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:-

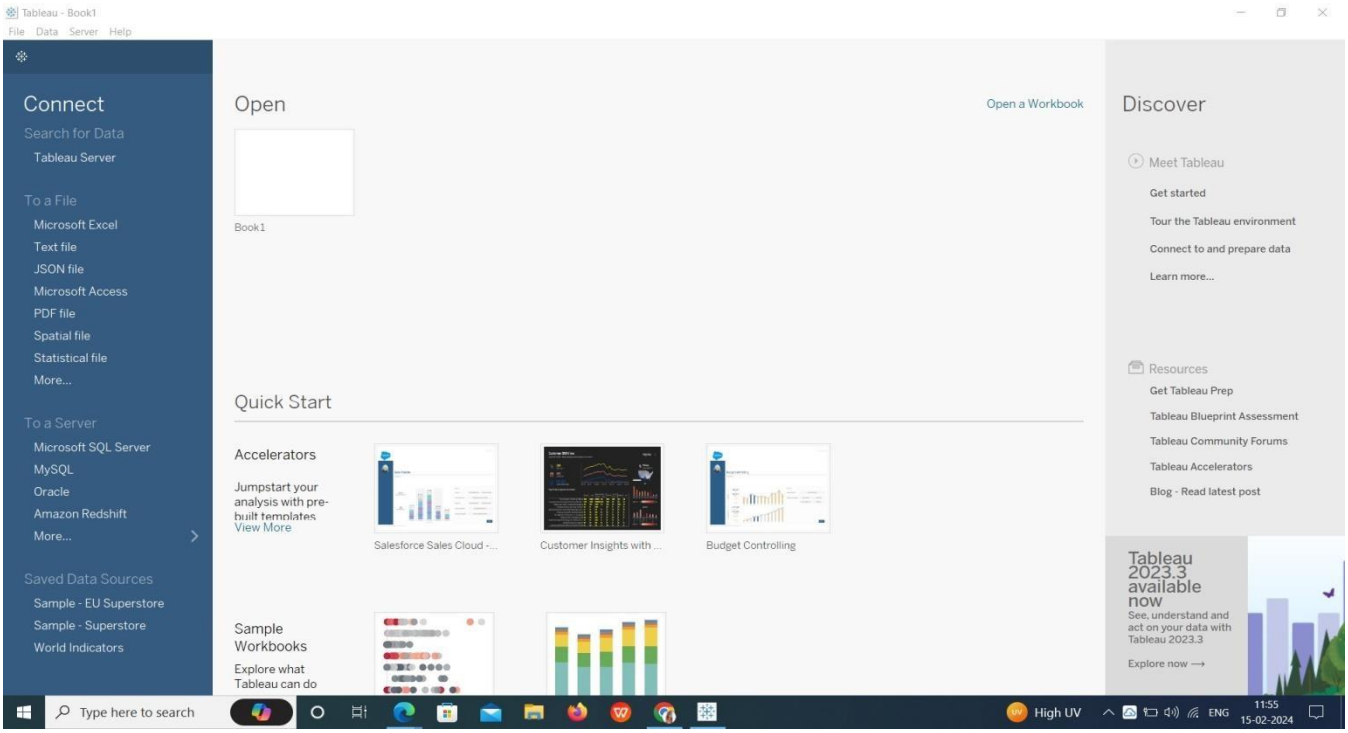
Create a Parameter. Create a new Parameter that lists your dimensions.

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

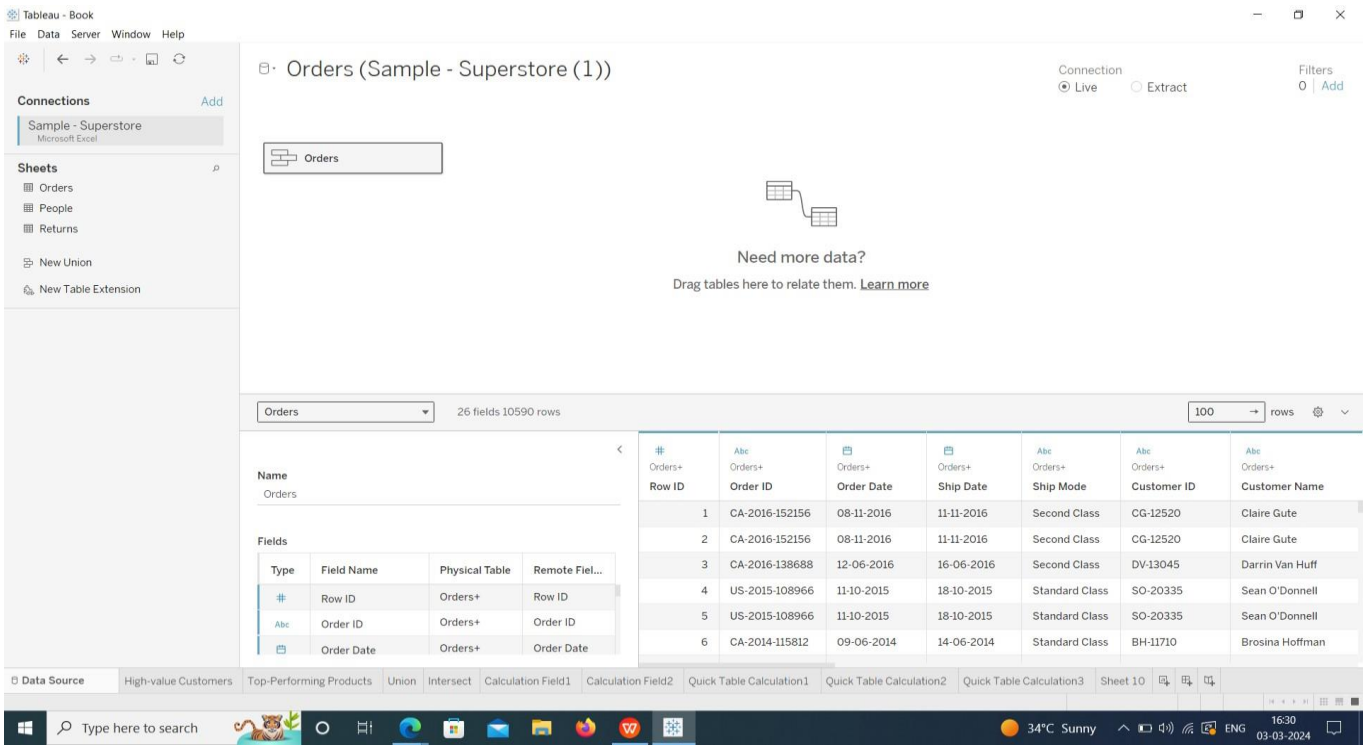
Add the calculated fields to the canvas.

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

# Tableau Starting:-

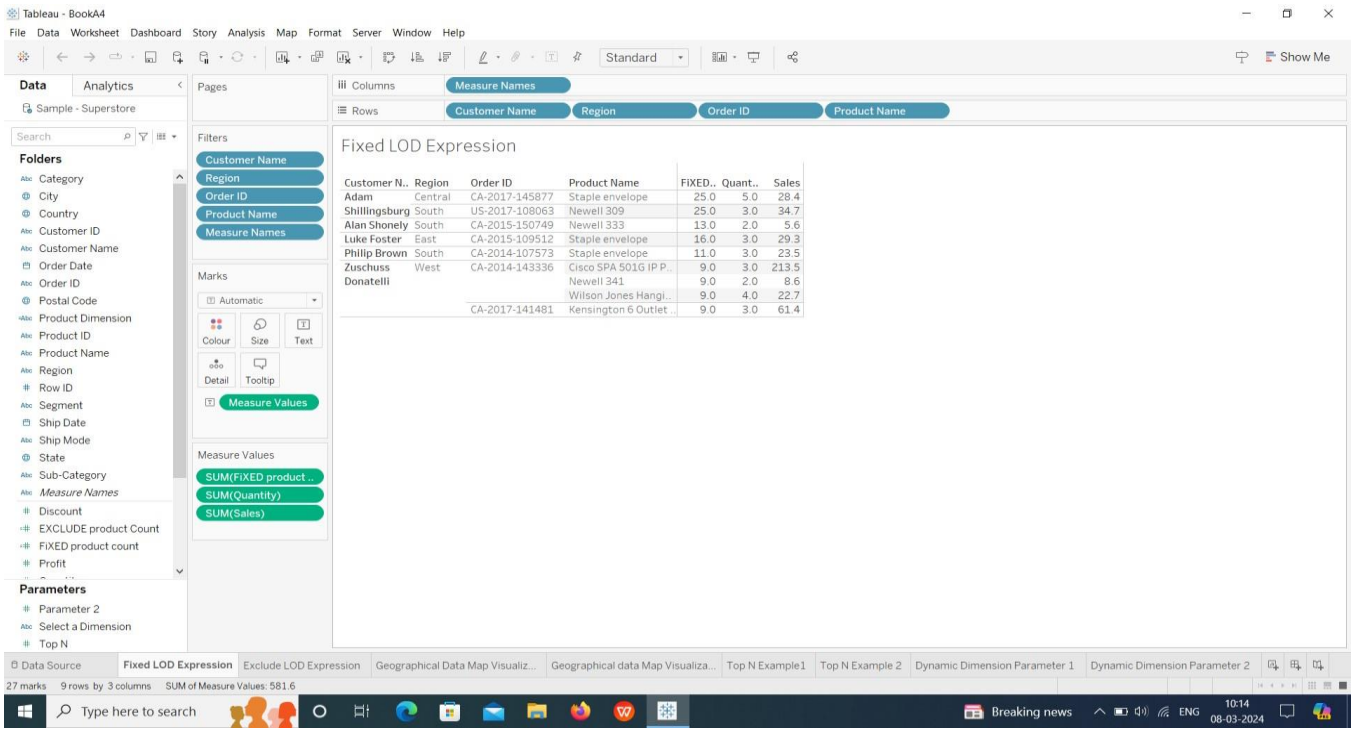


Upload the DataSet in Tableau:-

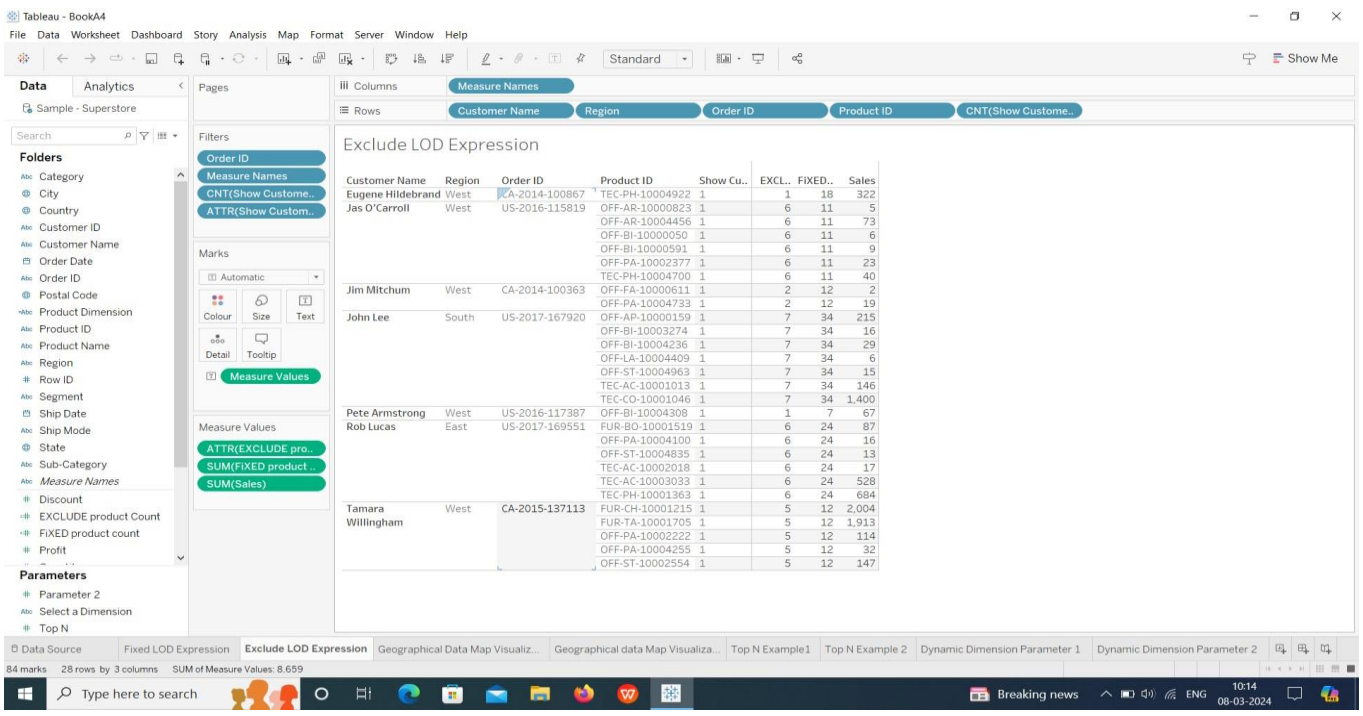



Create One Fixed LOD Expression and one exclude LOD expression:-

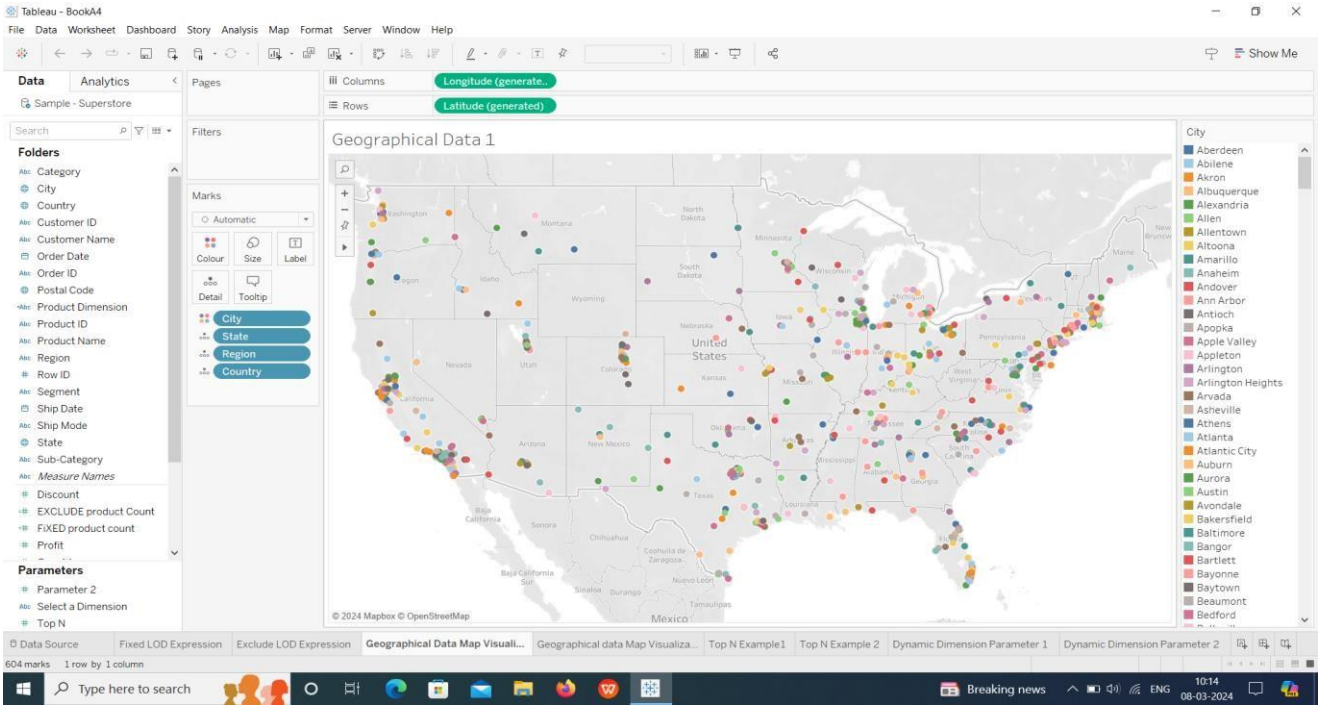
## One Fixed LOD:-



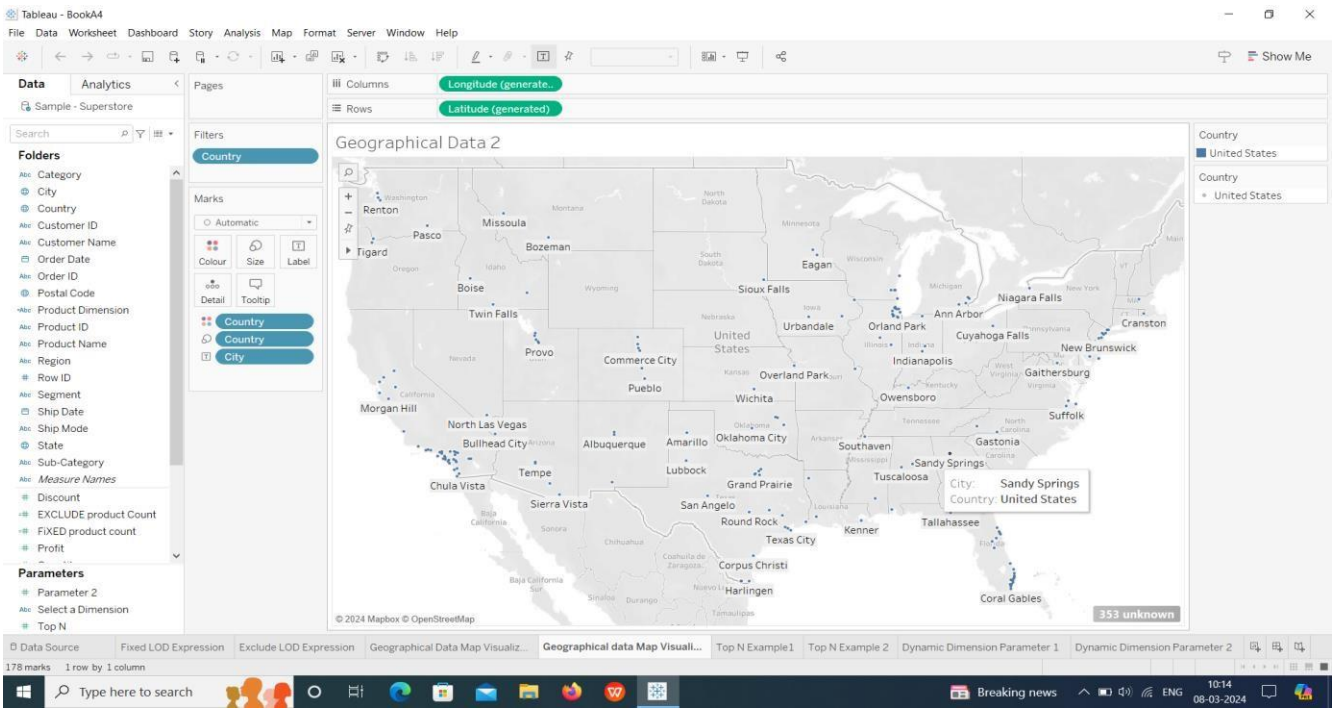

## One Exclude LOD Expression:-



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:-

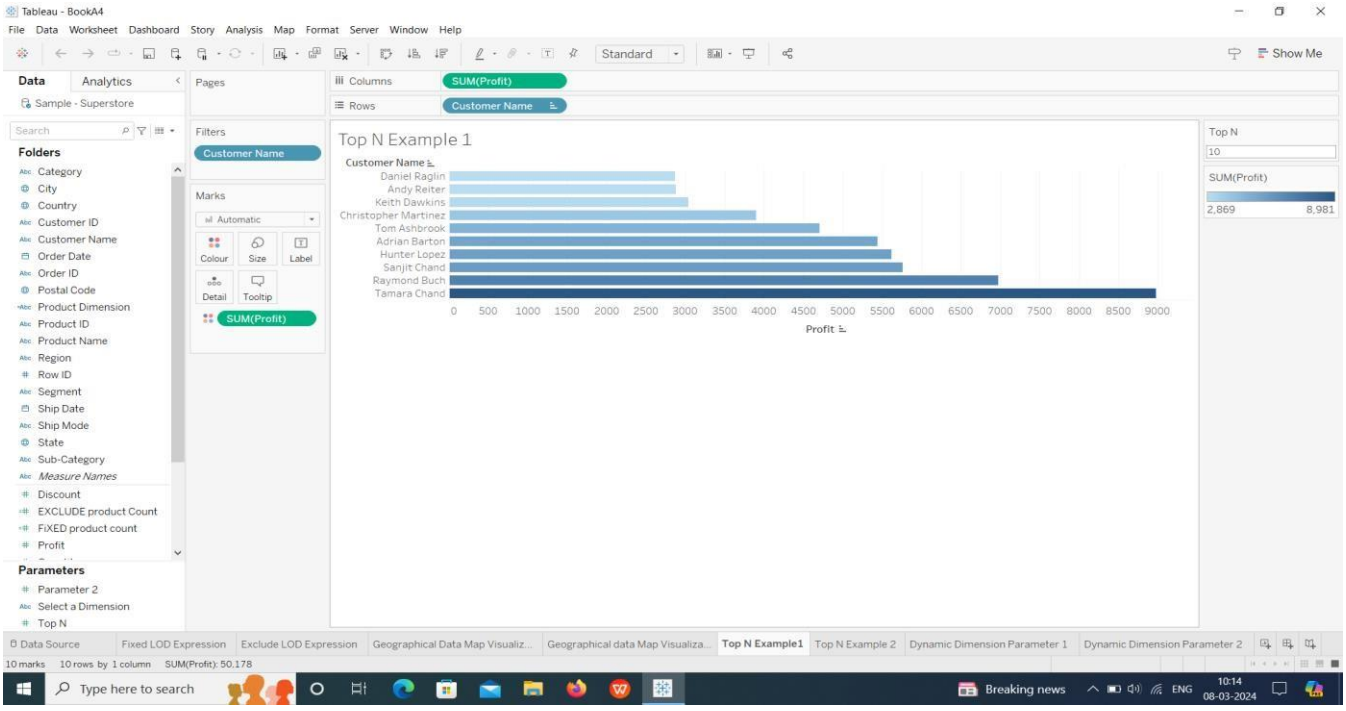
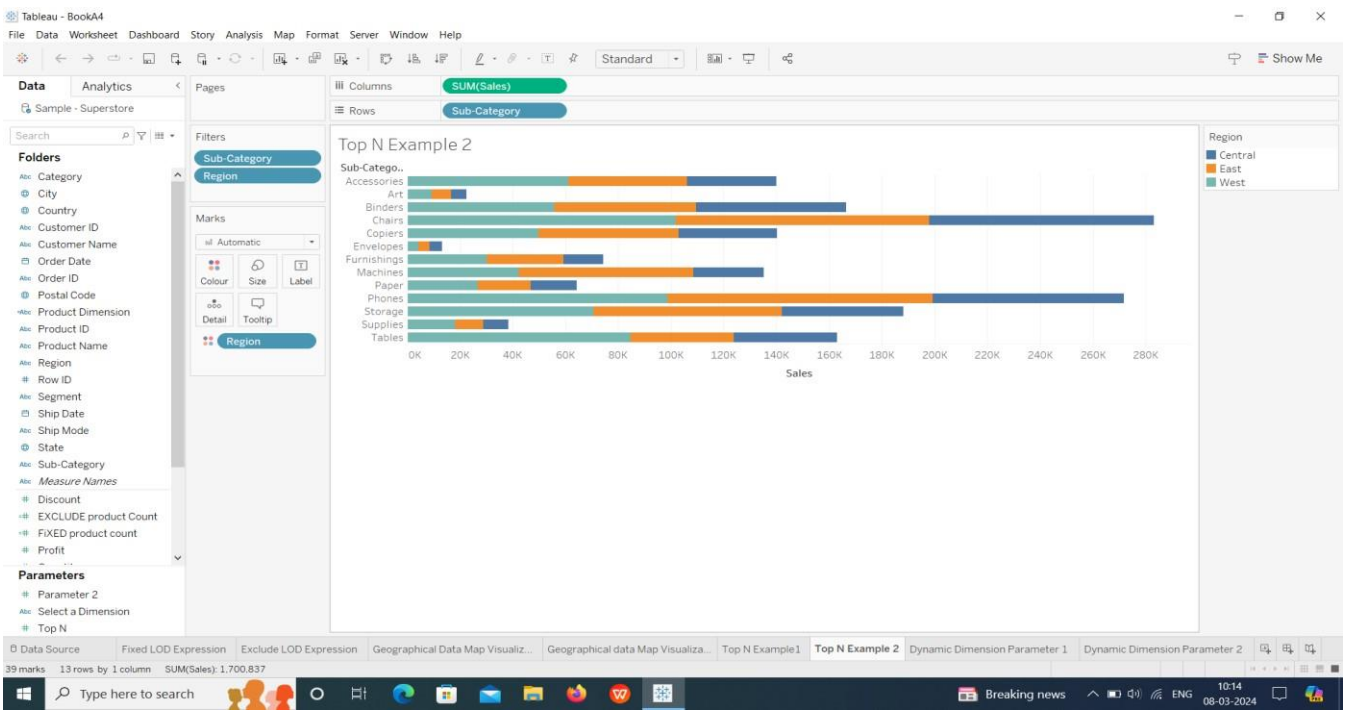


Tableau - BookA4
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Data Analytics
Sample - Superstore
Folders
Category
City
Country
Customer ID
Customer Name
Order Date
Order ID
Postal Code
Product Dimension
Product ID
Product Name
Region
Row ID
Segment
Ship Date
Ship Mode
State
Sub-Category
Measure Names
Discount
EXCLUDE product Count
FIXED product count
Profit
Parameters
Parameter 2
Select a Dimension
Top N
Pages
Filters
Customer Name
Marks
Automatic
Colour
Size
Label
Detail
Tooltip
SUM(Profit)
Columns
SUM(Profit)
Rows
Customer Name
Top N Example 1
Customer Name
Daniel Raglin
Andy Reiter
Keith Dawkins
Christopher Martinez
Tom Ashbrook
Adrian Barton
Hunter Lopez
Sanjit Chand
Raymond Buch
Tamara Chand
0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500 8000 8500 9000
Profit
Top N
10
SUM(Profit)
2,869
8,981
Data Source
Fixed LOD Expression
Exclude LOD Expression
Geographical Data Map Visualiz...
Geographical data Map Visualiza...
Top N Example1
Top N Example 2
Dynamic Dimension Parameter 1
Dynamic Dimension Parameter 2
10 marks
10 rows by 1 column
SUM(Profit): 50,178
Type here to search
Breaking news
ENG
10:14
08-03-2024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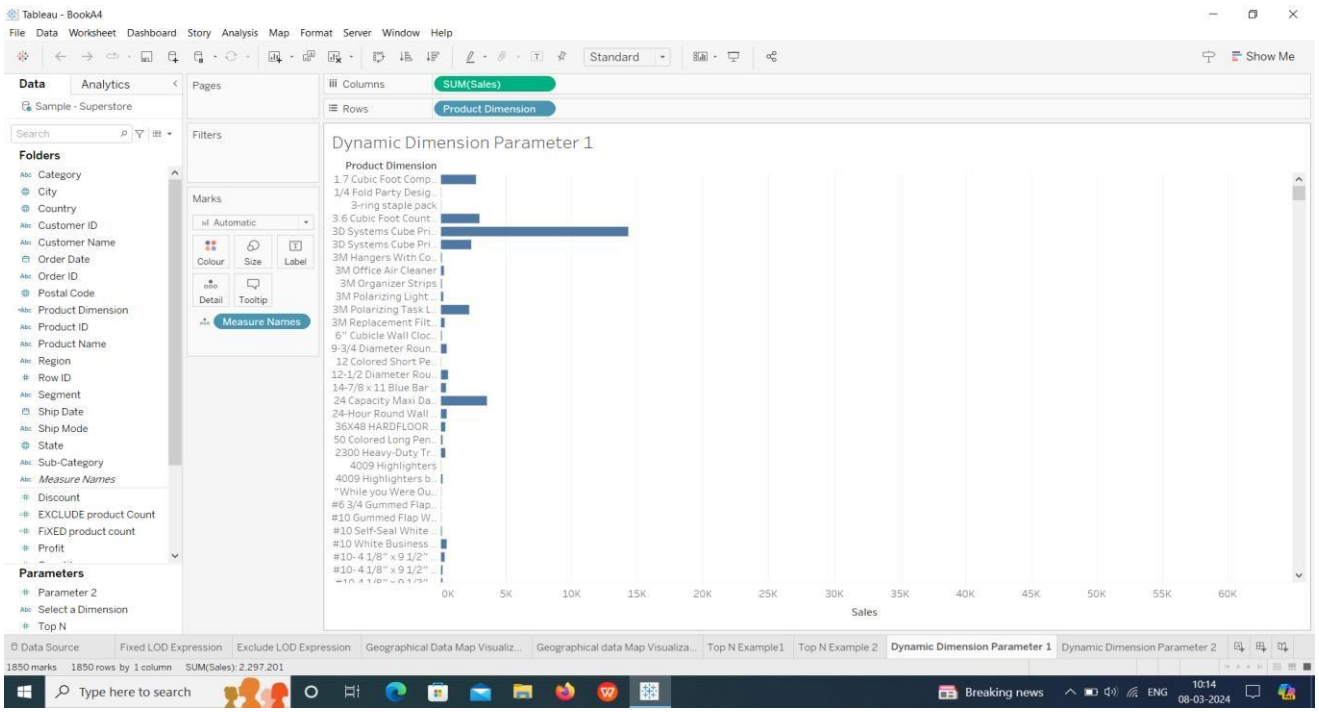
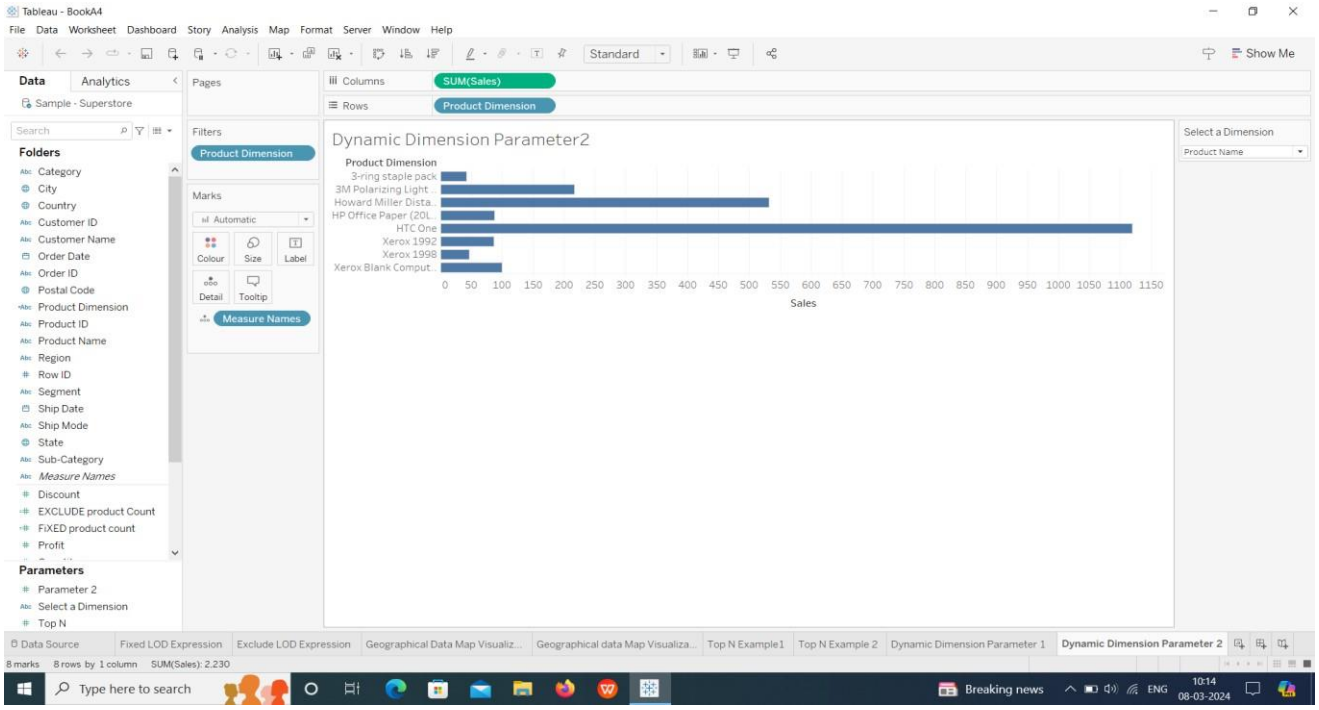
Data Analytics
Sample - Superstore
Folders
Category
City
Country
Customer ID
Customer Name
Order Date
Order ID
Postal Code
Product Dimension
Product ID
Product Name
Region
Row ID
Segment
Ship Date
Ship Mode
State
Sub-Category
Measure Names
Discount
EXCLUDE product Count
FIXED product count
Profit
Parameters
Parameter 2
Select a Dimension
Top N
Pages
Filters
Sub-Category
Region
Marks
Automatic
Colour
Size
Label
Detail
Tooltip
Region
Columns
SUM(Sales)
Rows
Sub-Category
Top N Example 2
Sub-Catego..
Accessories
Art
Binders
Chairs
Copiers
Envelopes
Furnishings
Machines
Paper
Phones
Storage
Supplies
Tables
0K 20K 40K 60K 80K 100K 120K 140K 160K 180K 200K 220K 240K 260K 280K
Sales
Region
Central
East
West
Data Source
Fixed LOD Expression
Exclude LOD Expression
Geographical Data Map Visualiz...
Geographical data Map Visualiza...
Top N Example1
Top N Example 2
Dynamic Dimension Parameter 1
Dynamic Dimension Parameter 2
39 marks
13 rows by 1 column
SUM(Sales): 1,700,837
Type here to search
Breaking news
ENG
10:14
08-03-2024

# Dynamic Dimension Parameter 1:-



THANK YOU!

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