
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:-

1) Fixed 2) Include

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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.

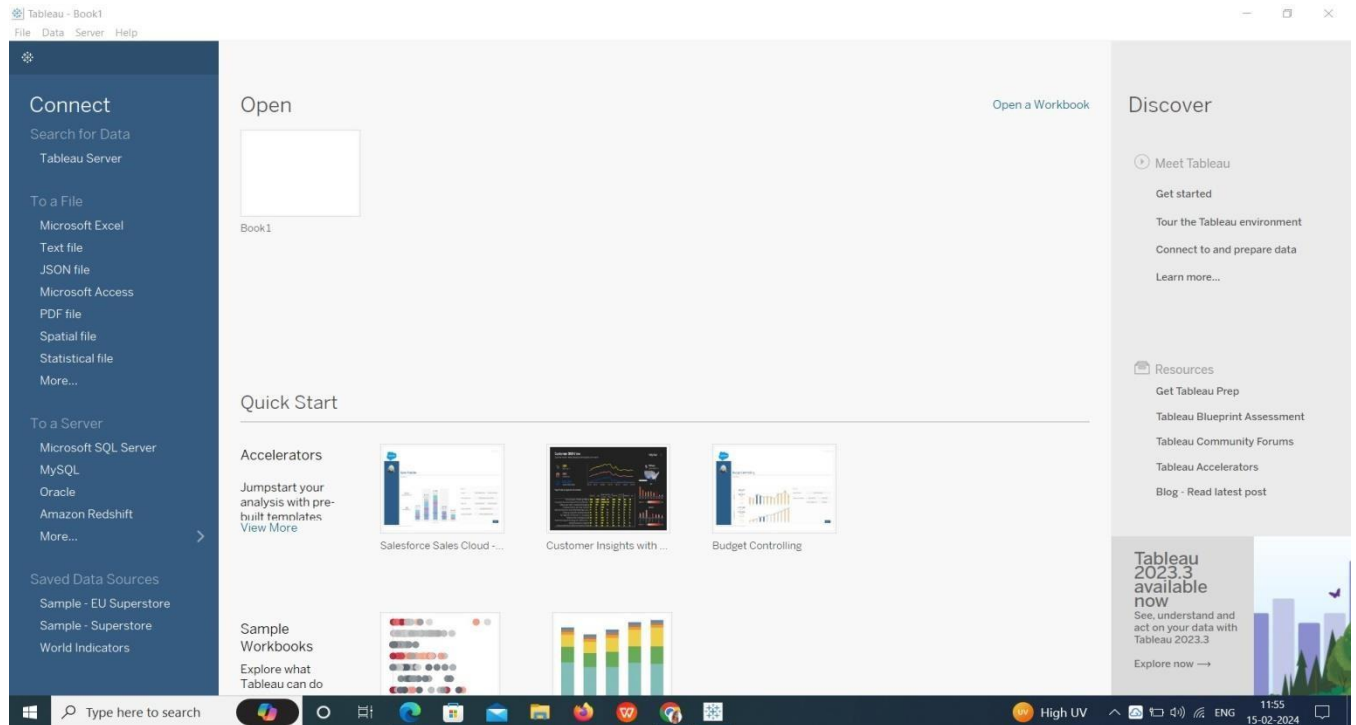
Dimension to display when a particular parameter value is selected.

Add the calculated fields to the canvas.

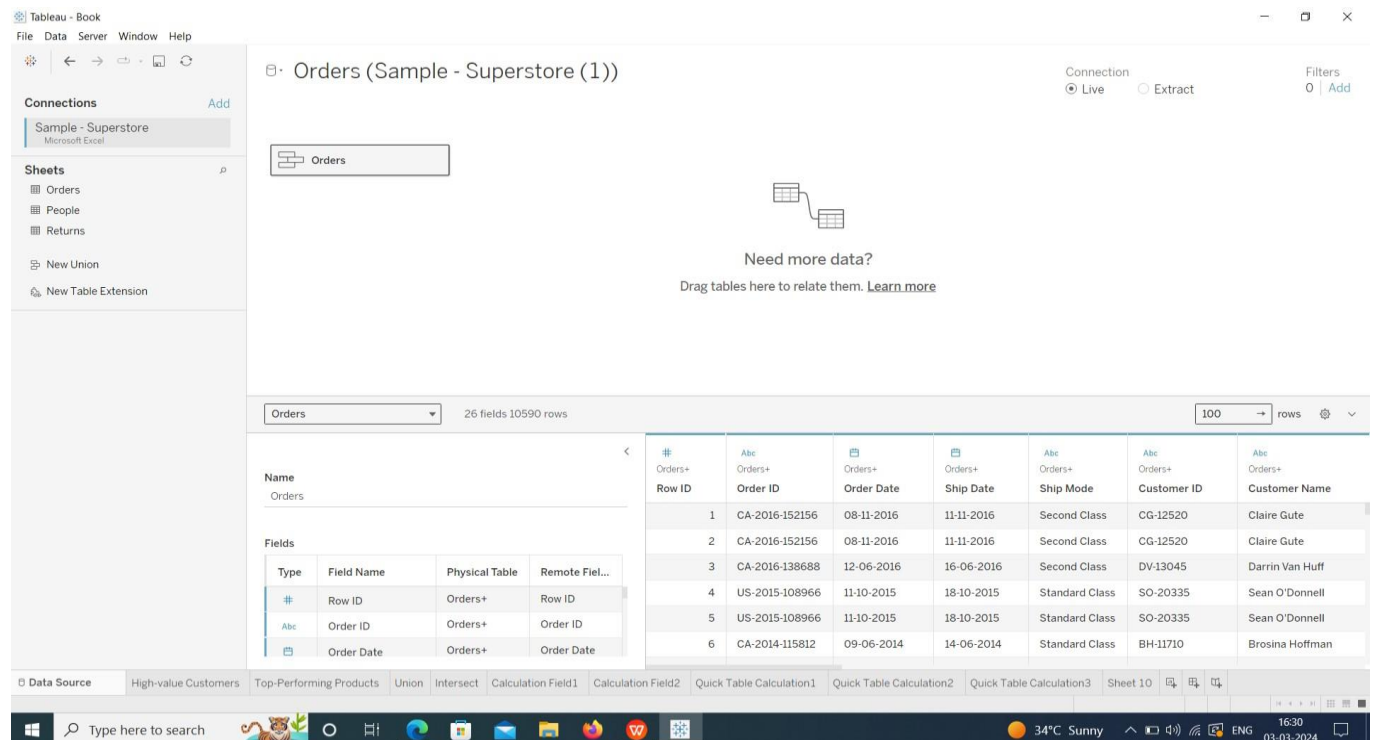
- 1) Colours
- 2) Filters
- 3) Select any ratings or price ranges.

Tableau Starting:-

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Upload the DataSet in Tableau:-



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

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One Fixed LOD:-

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File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Search

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

Columns: Measure Names

Rows: Customer Name, Region, Order ID, Product Name

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 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

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

One Exclude LOD Expression:-

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- 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

Columns: Measure Names

Rows: Customer Name, Region, Order ID, Product ID, CNT(Show Custom..)

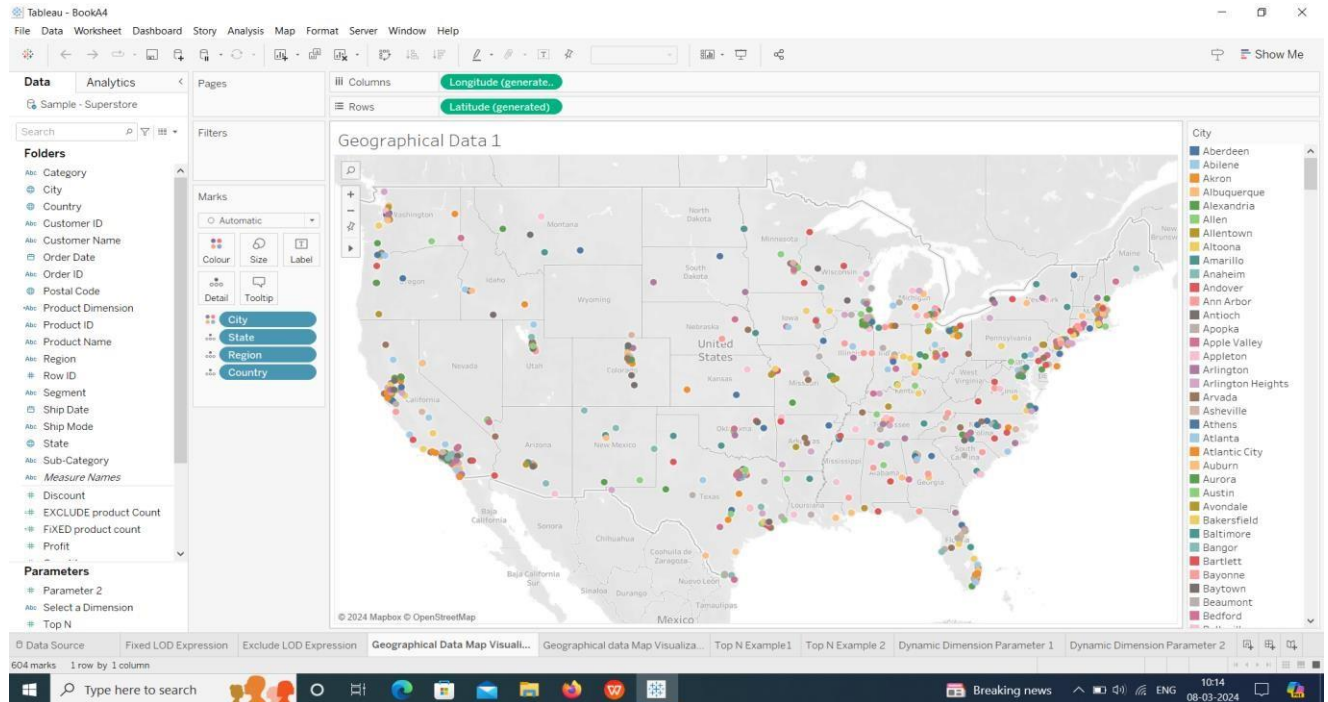
Exclude LOD Expression

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-PA-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-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-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

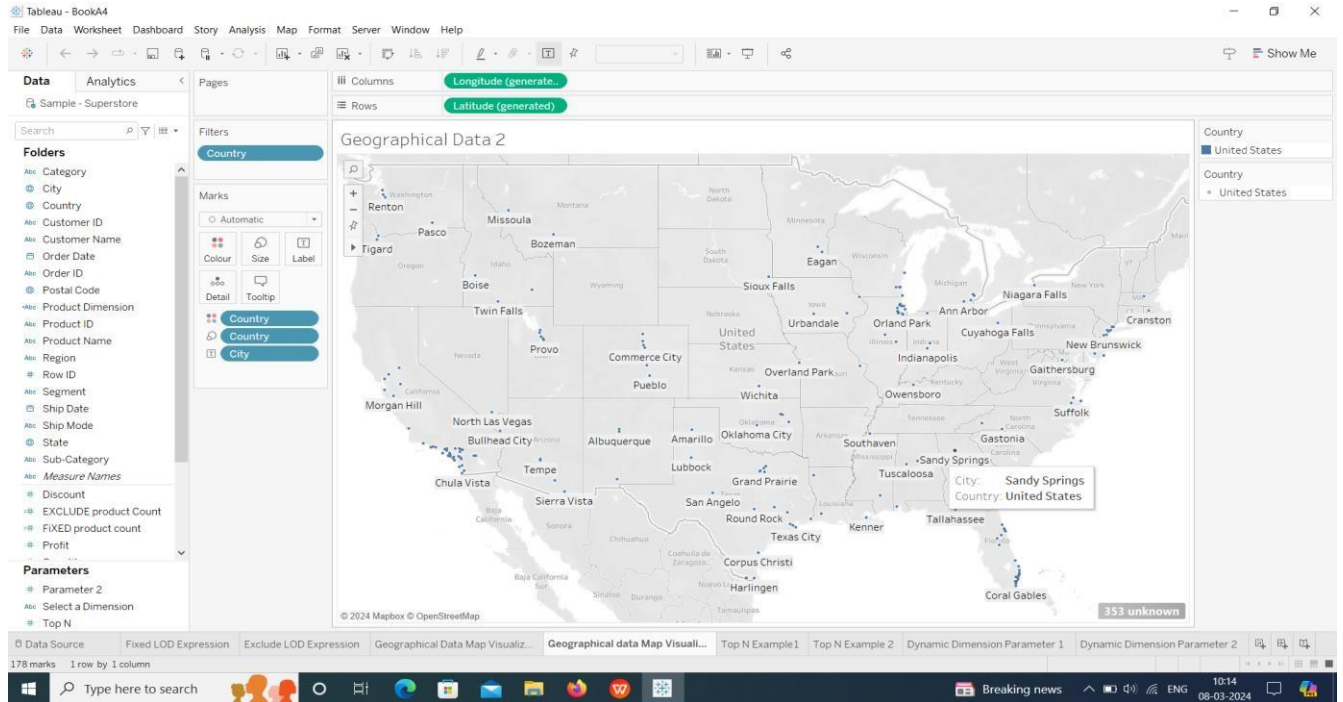
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Create any 2 map visualizations using geographical data:- Map visualization 1:-



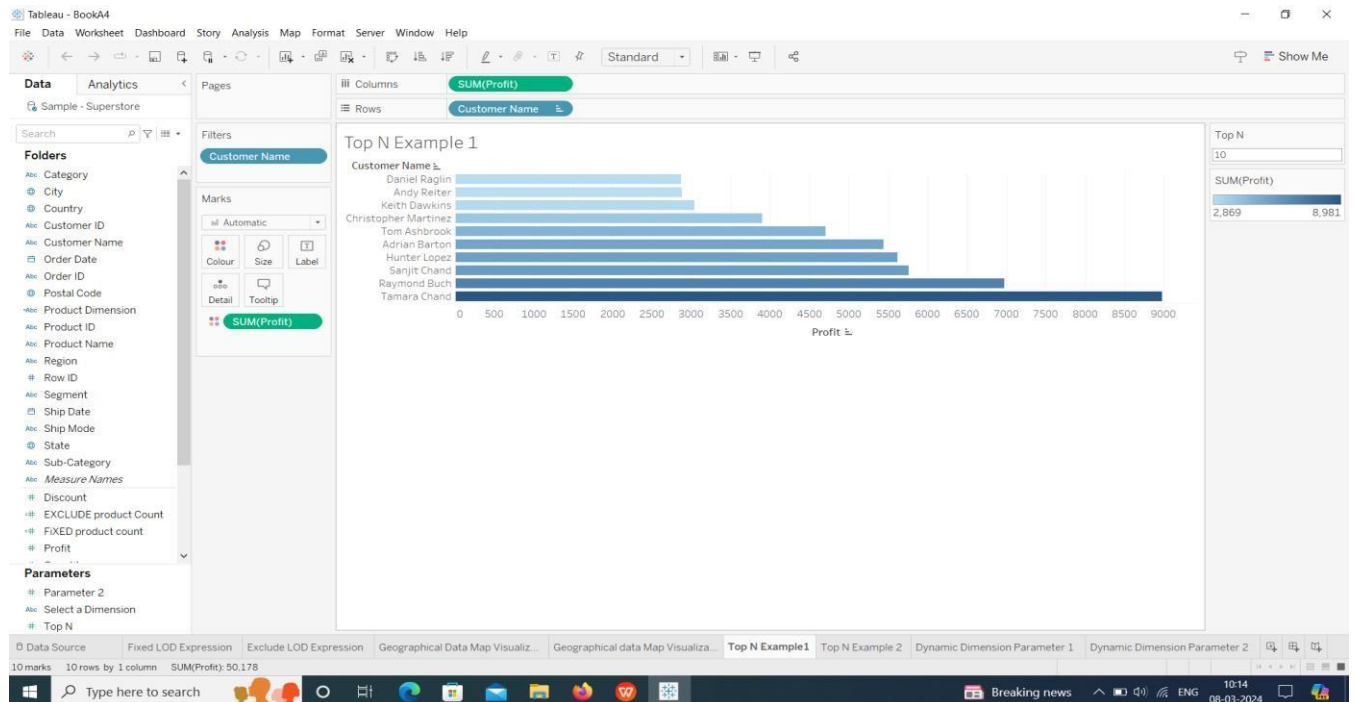
Map visualization 2:-

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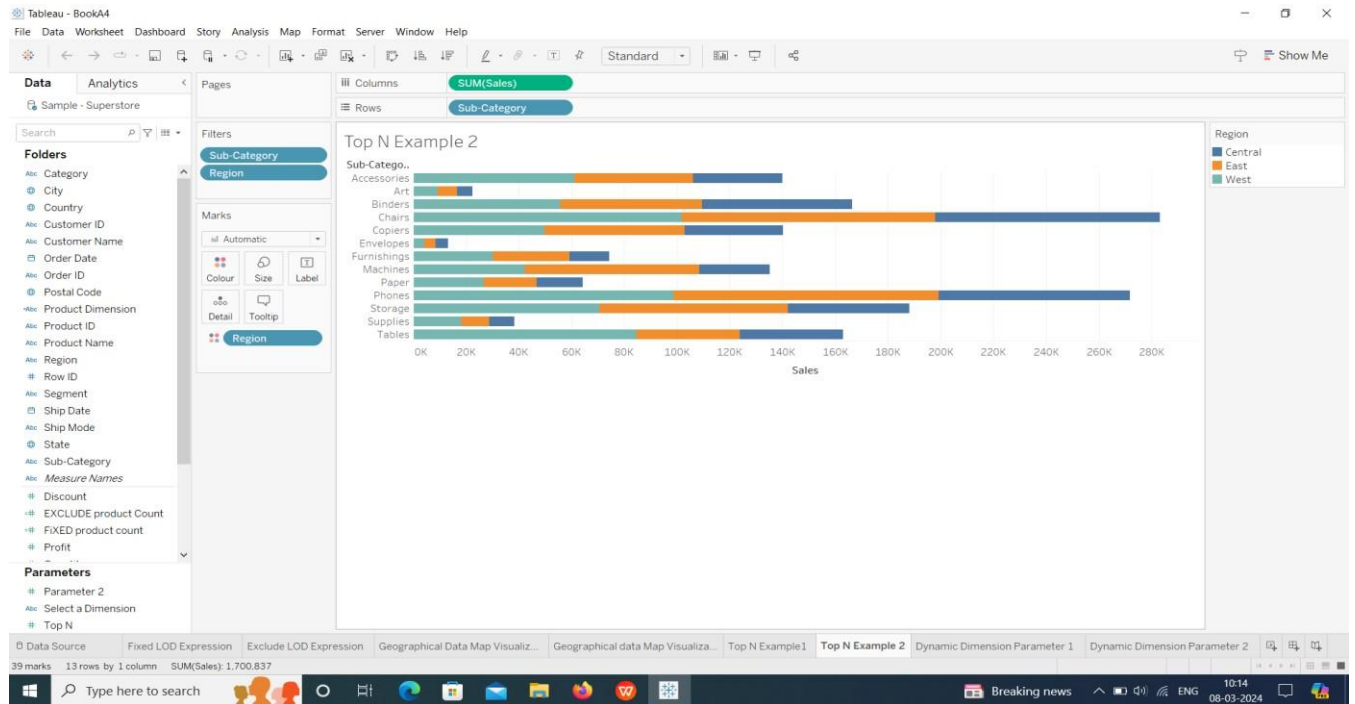


Create Top N and/or Dynamic dimension parameters and utilize those in your workbook:-

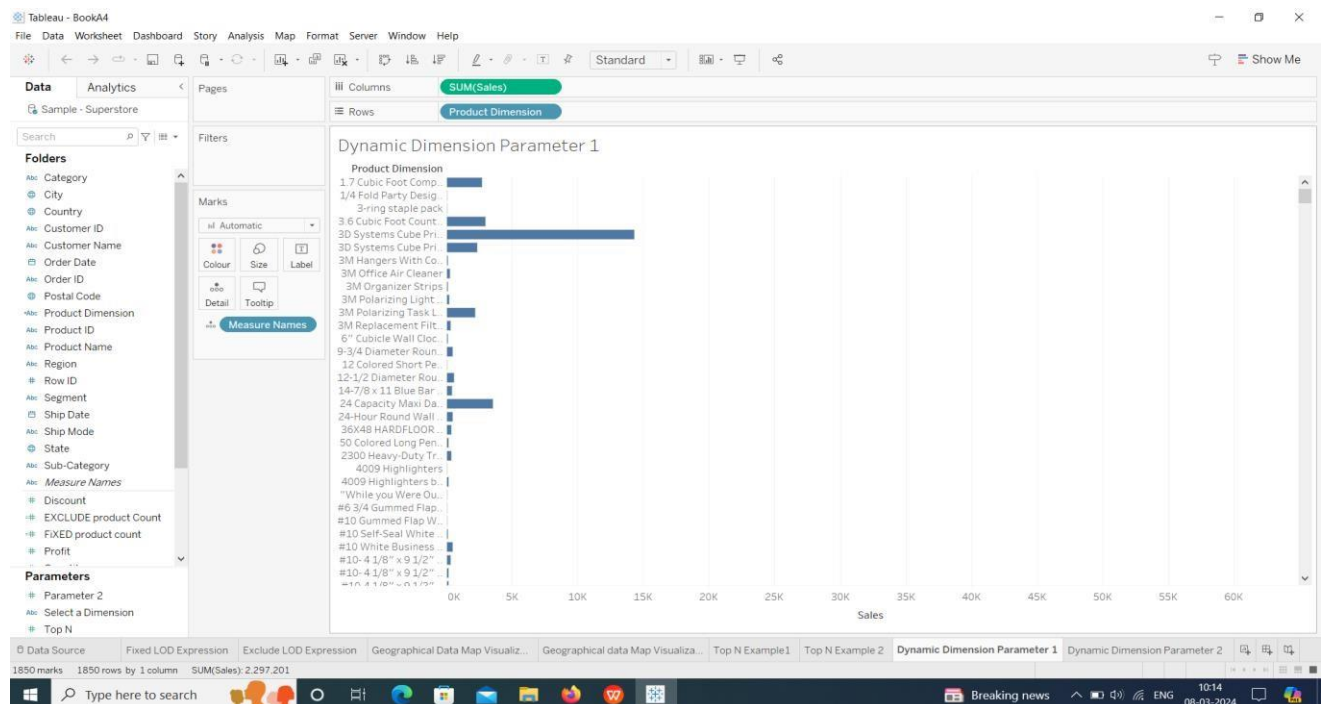
Top N Parameters:-



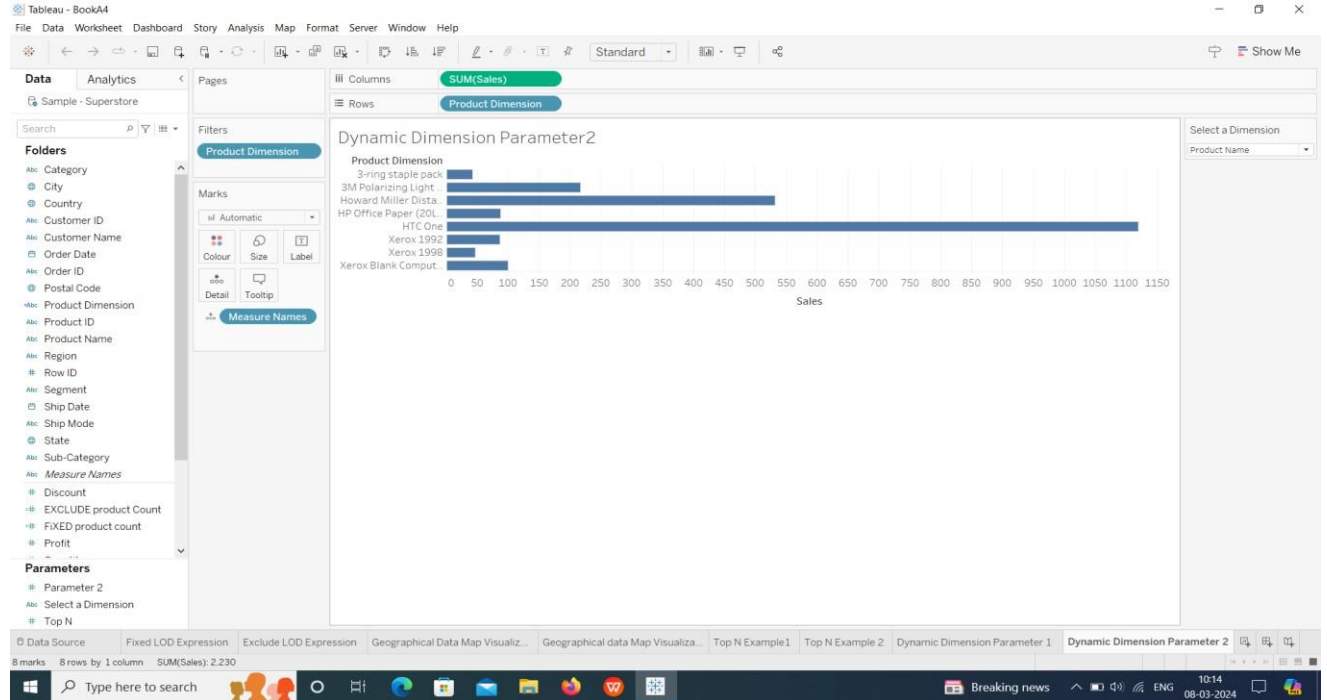
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Dynamic Dimension Parameter 1:-



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THANK YOU!

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