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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.

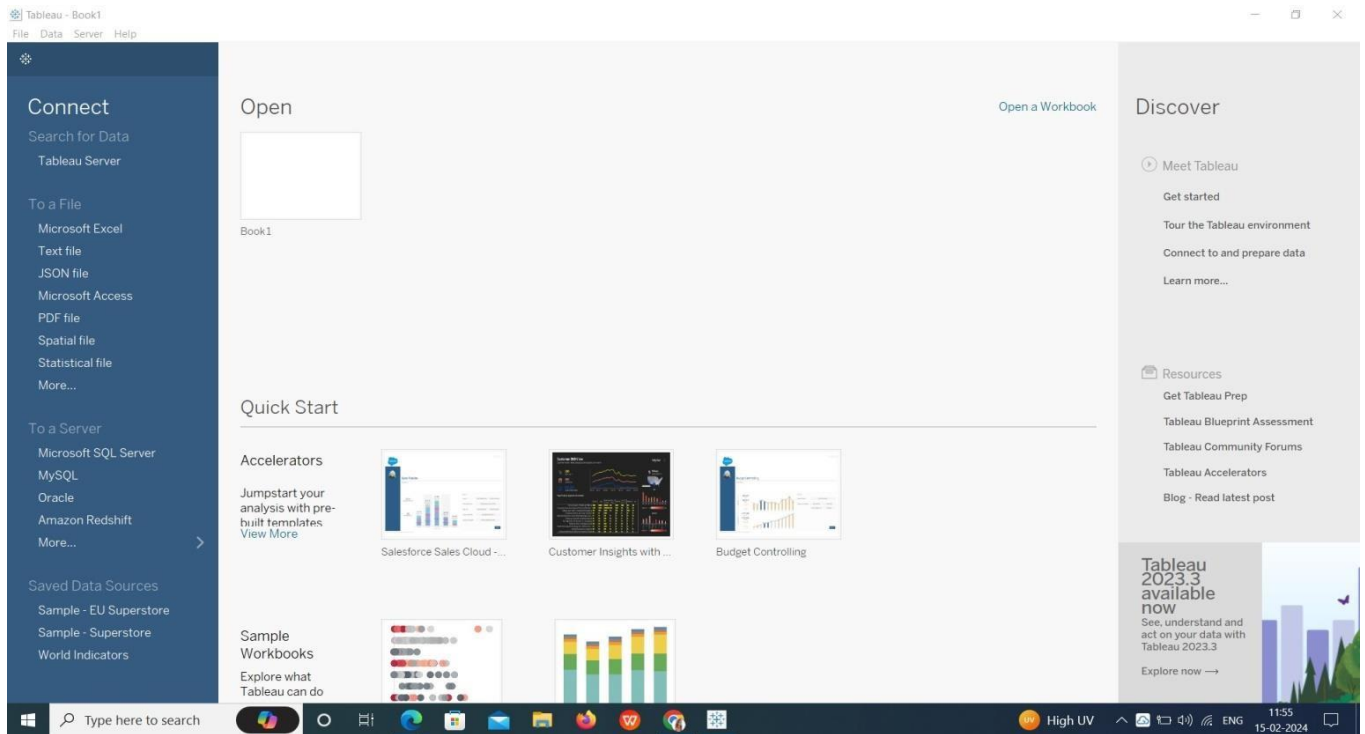
Dimension to display when a particular parameter value is selected.

Add the calculated fields to the canvas.

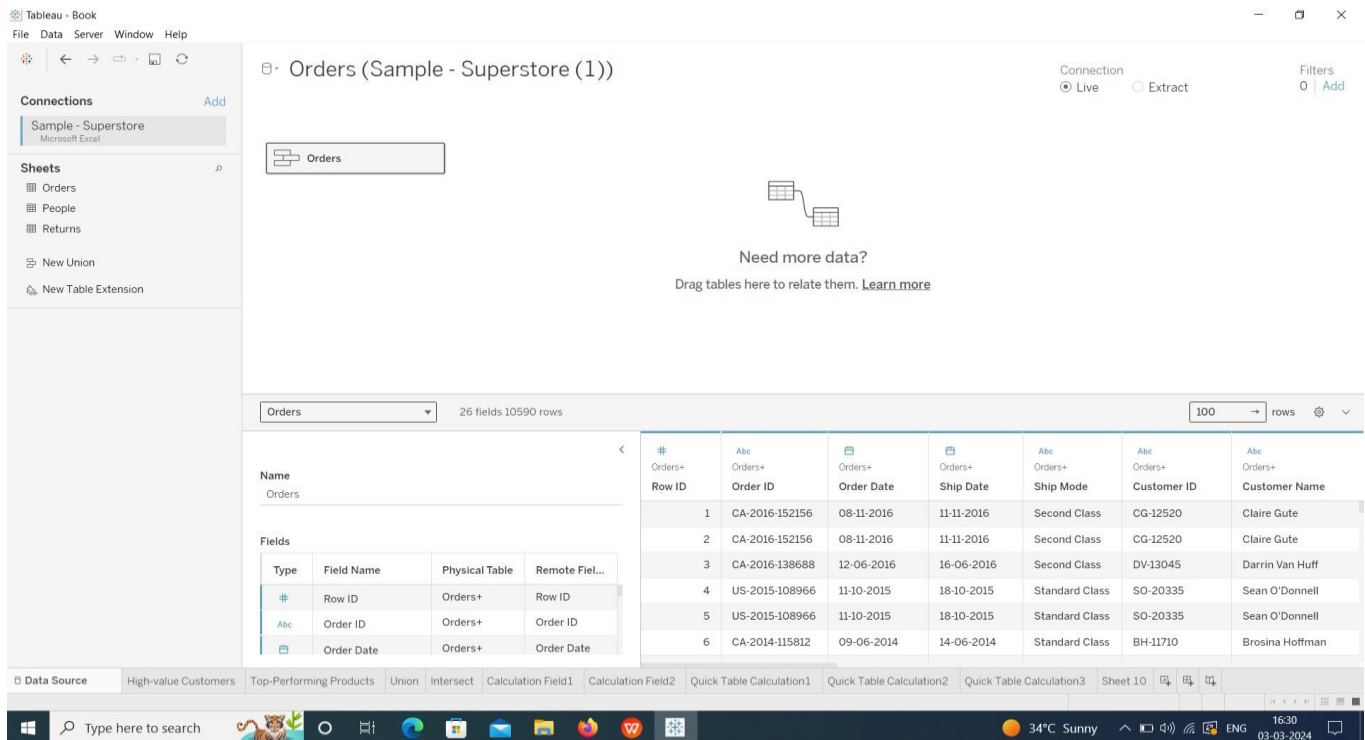
- 1) Colours
- 2) Filters
- 3) Select any ratings or price ranges.

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

Search

Filters

- Customer Name
- Region
- Order ID
- Product Name
- Measure Names

Marks

- Automatic
- Colour
- Size
- Text
- Detail
- Tooltip
- Measure Values

Measure Values

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

Fixed LOD Expression

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 Hangl..	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:-

Tableau - BookA4

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Search

Filters

- Order ID
- Measure Names
- CNT(Show Custom..)
- ATTR(Show Custom..)

Marks

- Automatic
- Colour
- Size
- Text
- Detail
- Tooltip
- Measure Values

Measure Values

- ATTR(EXCLUDE pro...)
- SUM(FIXED product...)
- SUM(Sales)

Exclude LOD Expression

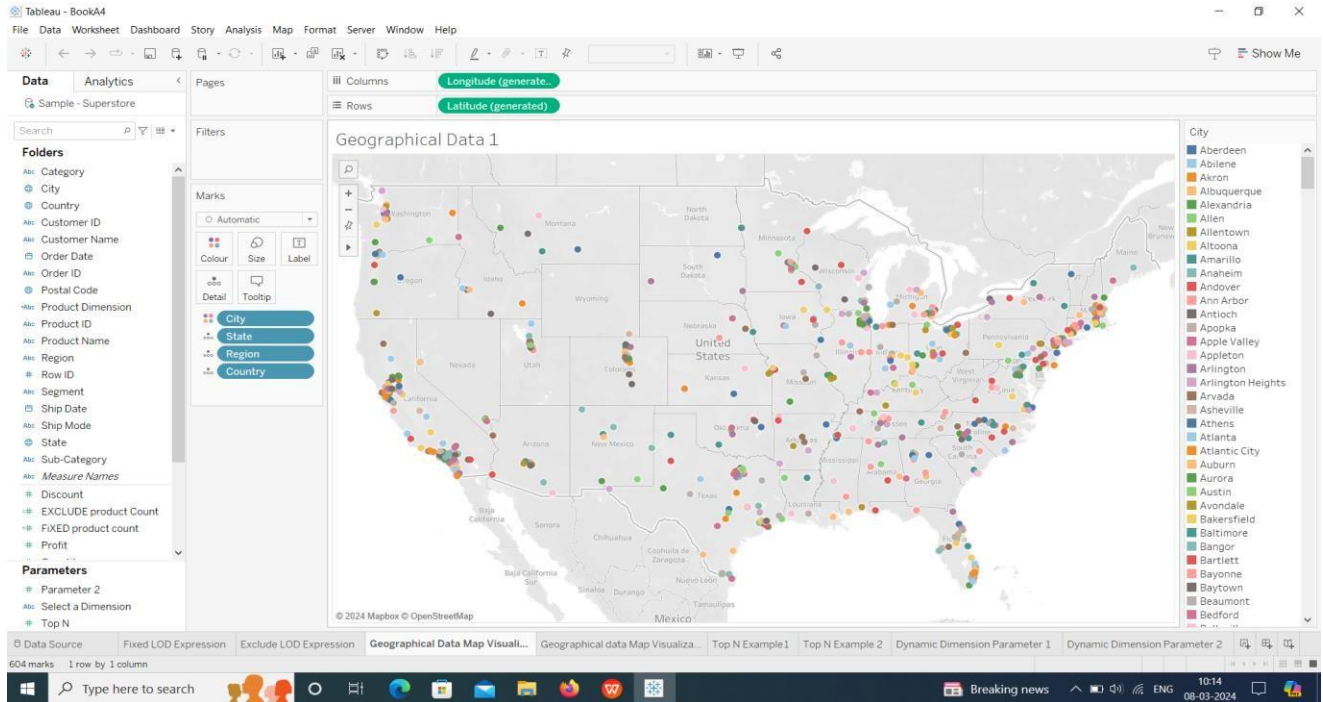
Customer Name	Region	Order ID	Product ID	Show Cu..	EXCL..	FIXED..	Sales
Eugene Hildebrand	West	CA-2014-100867	TEC-PH-10004922	1		1	18 322
Jas O'Carroll	West	US-2016-115819	OFF-AR-10000823	1		6	11 5
			OFF-AR-10004456	1		6	11 73
			OFF-BI-10000050	1		6	11 6
			OFF-BI-10000591	1		6	11 9
			OFF-PA-10002377	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 1400
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
			FUR-CH-10001215	1		5	12 2,004
Tamara Willingham	West	CA-2015-137113	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

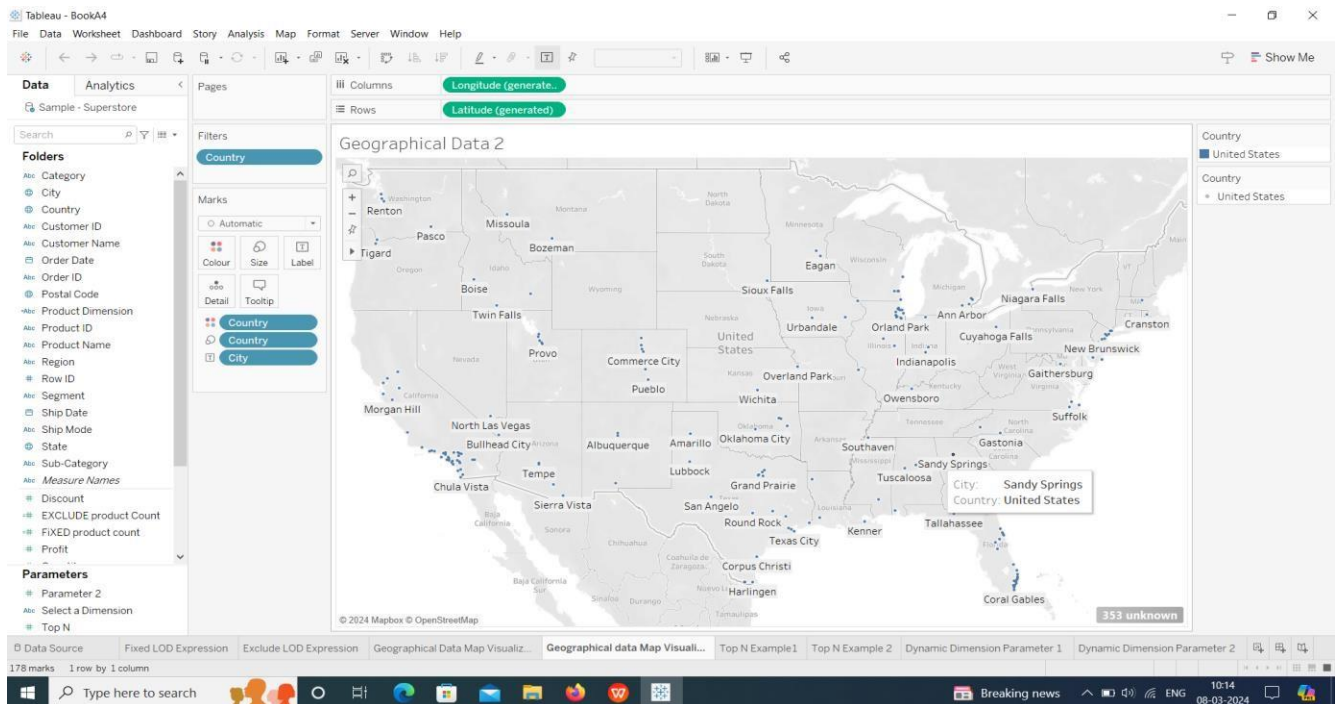
DATA ANALYTICS WITH TABLEAU

Create any 2 map visualizations using geographical data:-

Map visualization 1:-



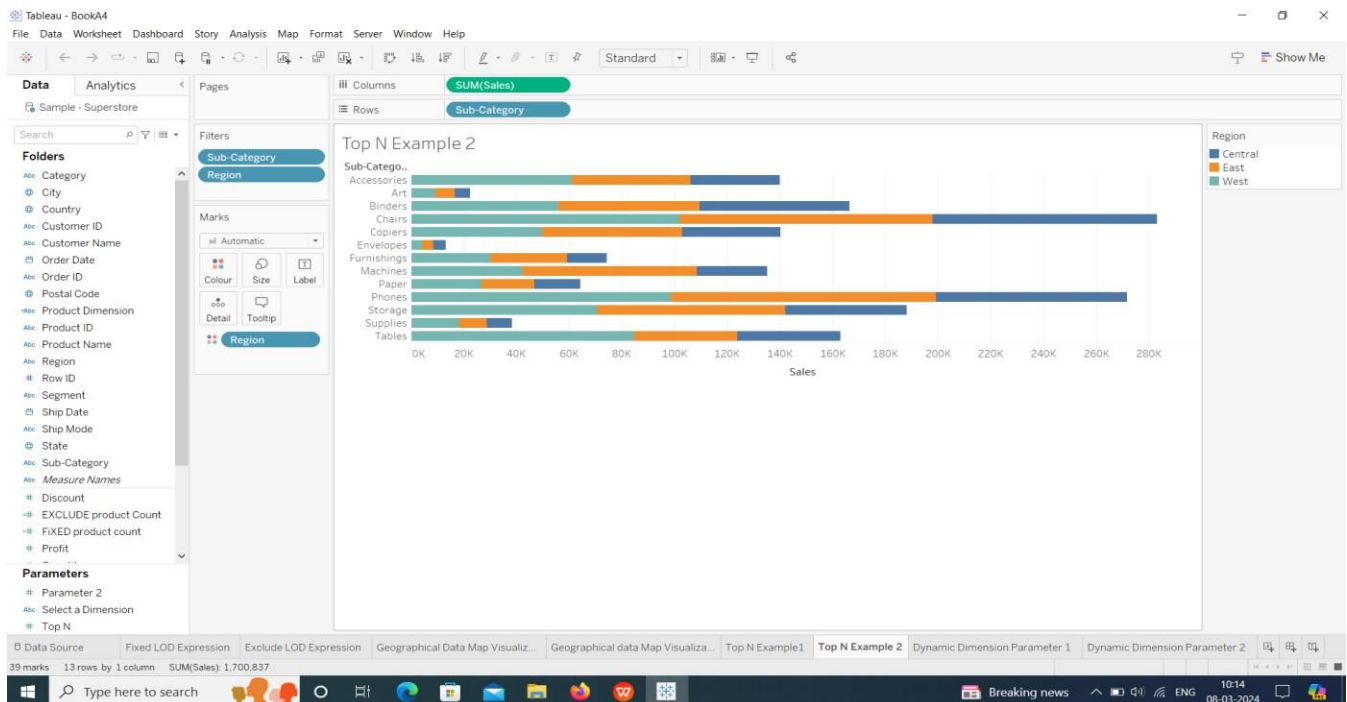
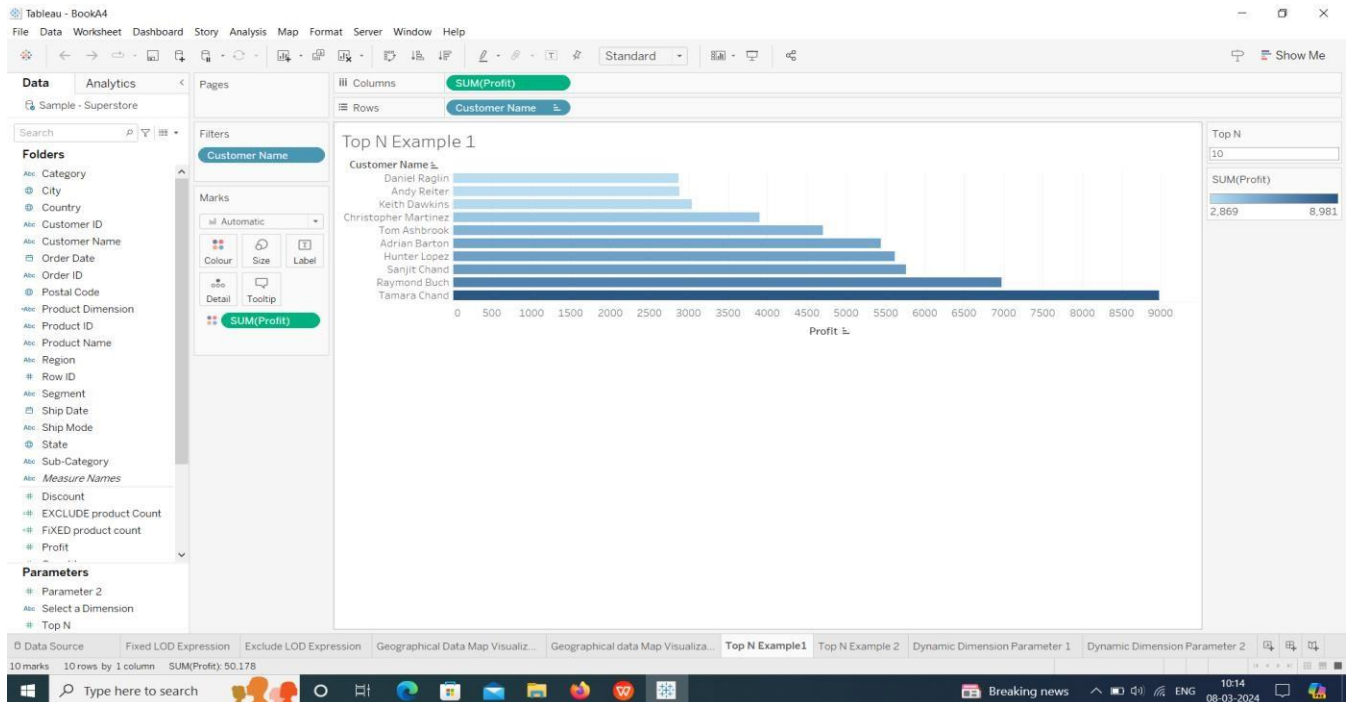
Map visualization 2:-



DATA ANALYTICS WITH TABLEAU

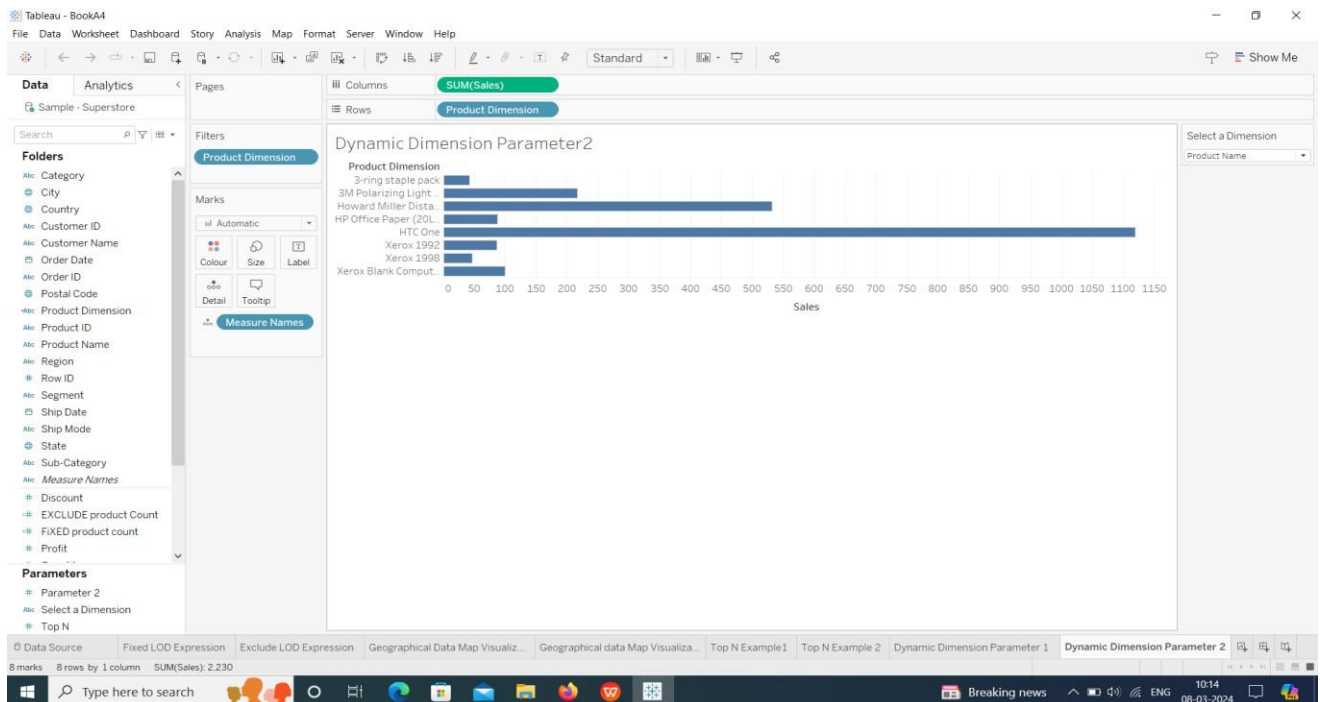
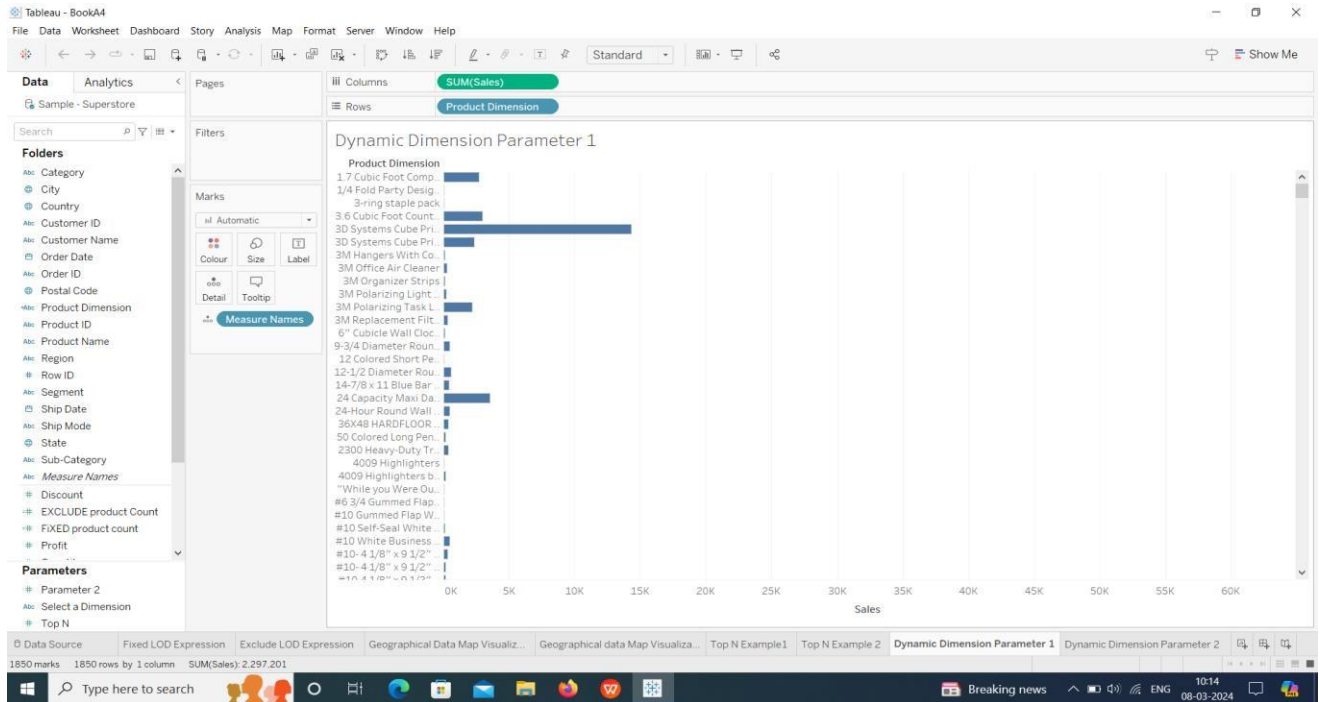
Create Top N and/or Dynamic dimension parameters and utilize those in your workbook:-

Top N Parameters:-



DATA ANALYTICS WITH TABLEAU

Dynamic Dimension Parameter 1:-



THANK YOU!

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