DATA ANALYTICS WITH TABLEAU

ASSIGNMENT-4

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20NN1A05B4

VNITSW

DATASET : Sample - Superstore.xls

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. They are:-

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.

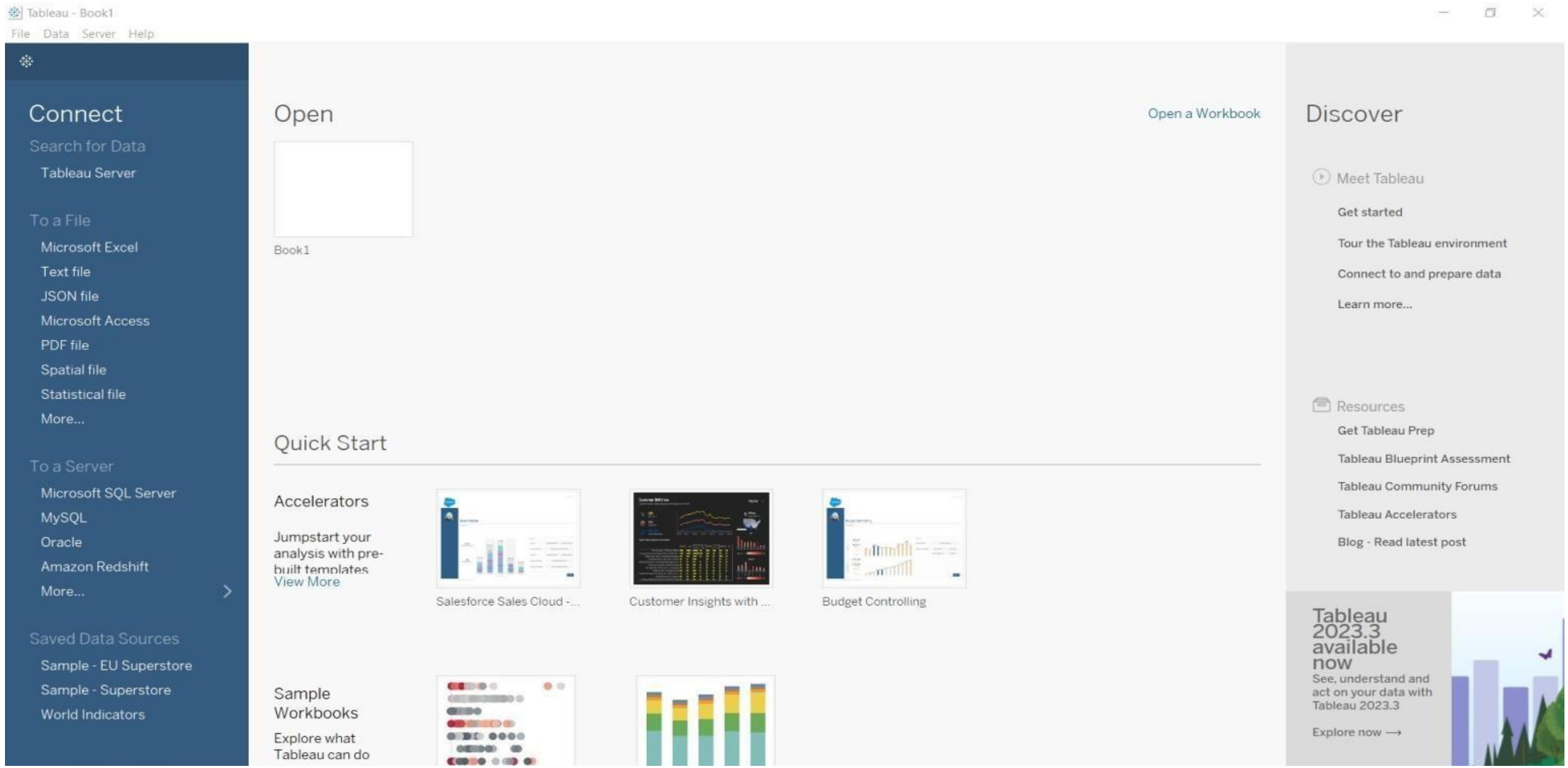
Top N Parameter:-

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.

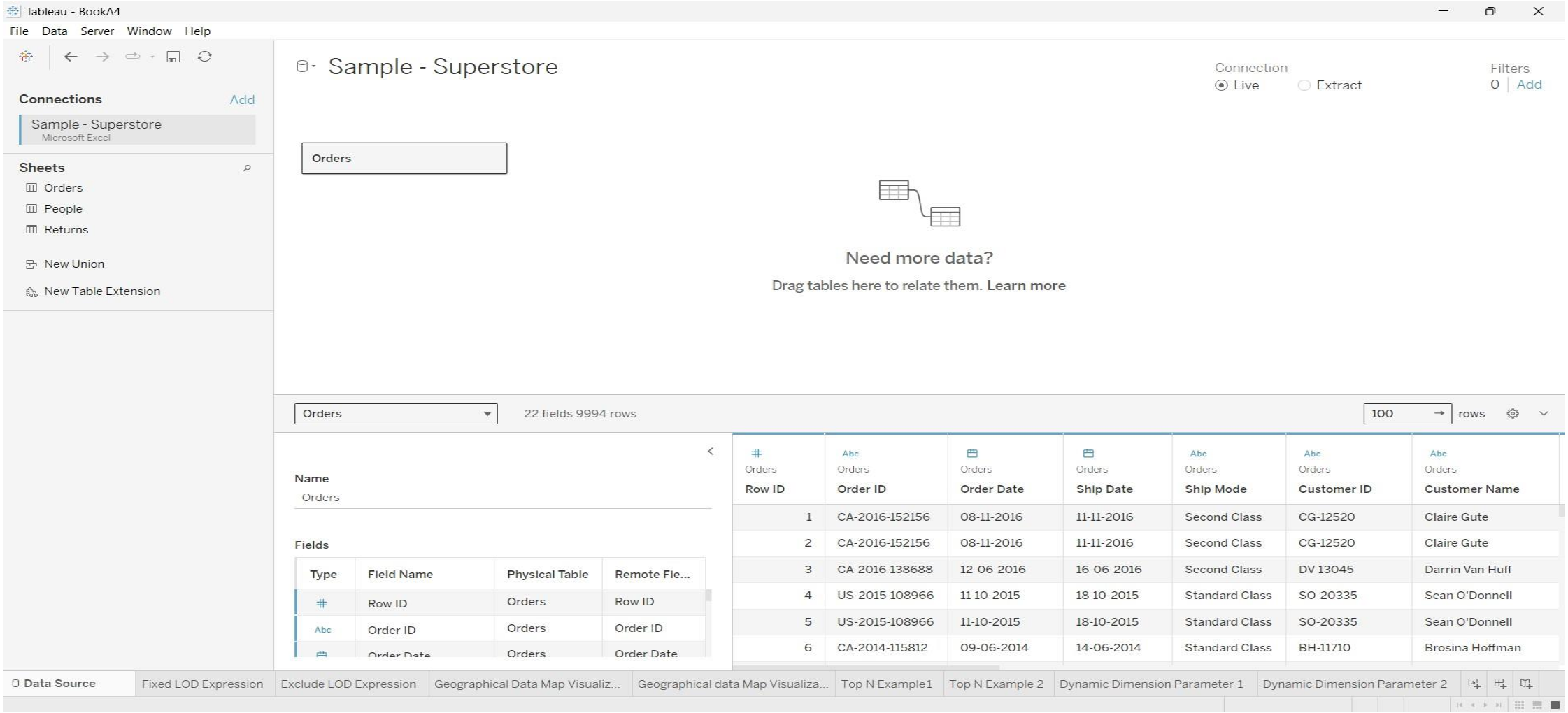
Dynamic Dimension Parameters:-

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) Colors 2) Filters 3) Select any ratings or price ranges.

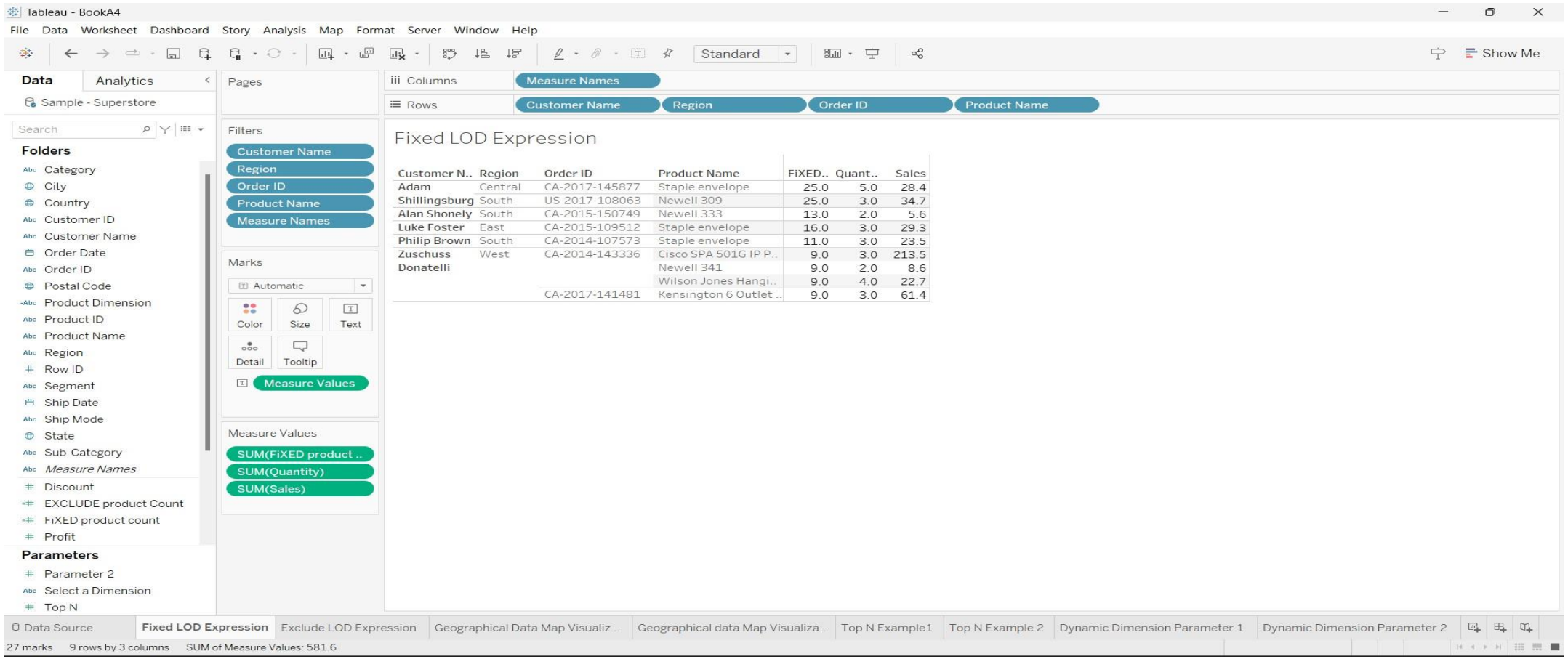
Tableau Starting



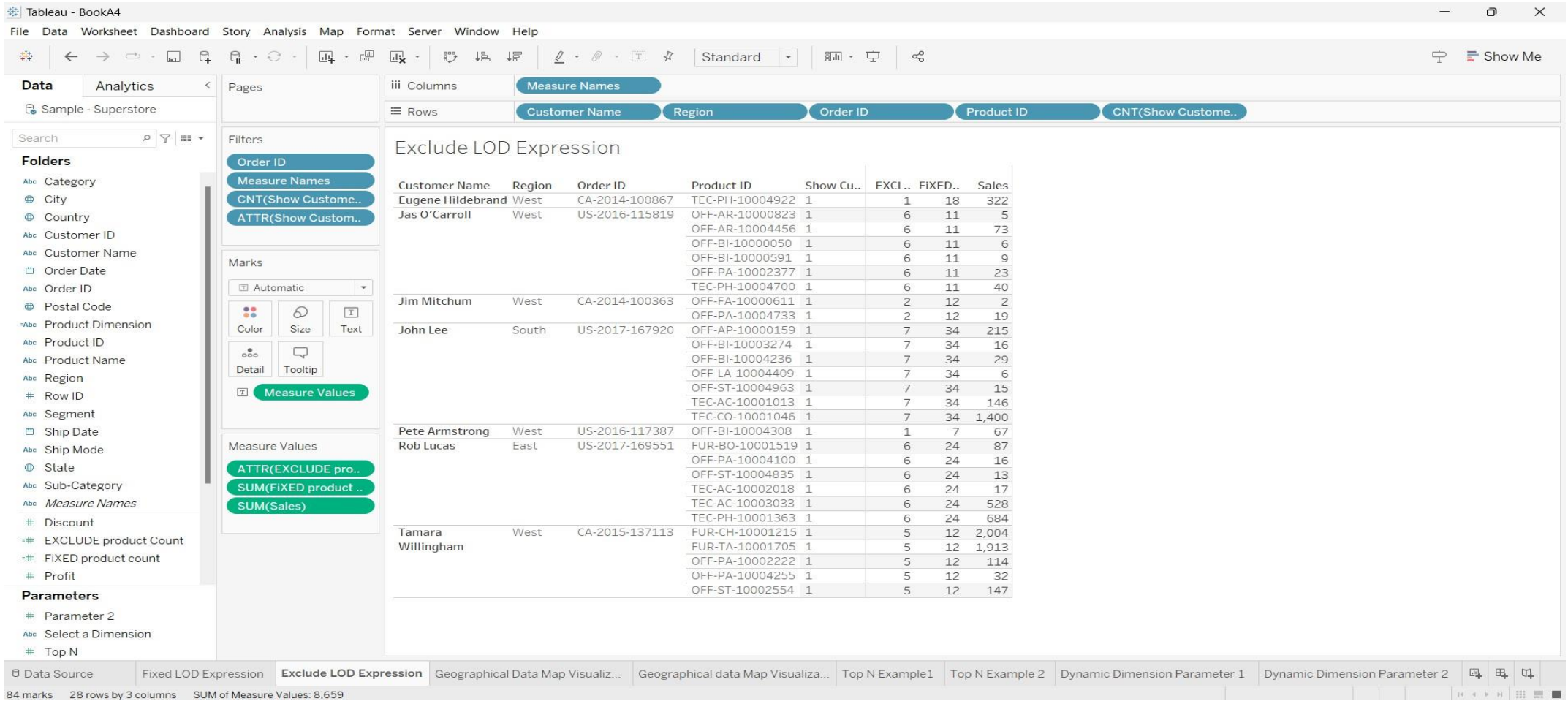
Upload The Dataset in Tableau



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

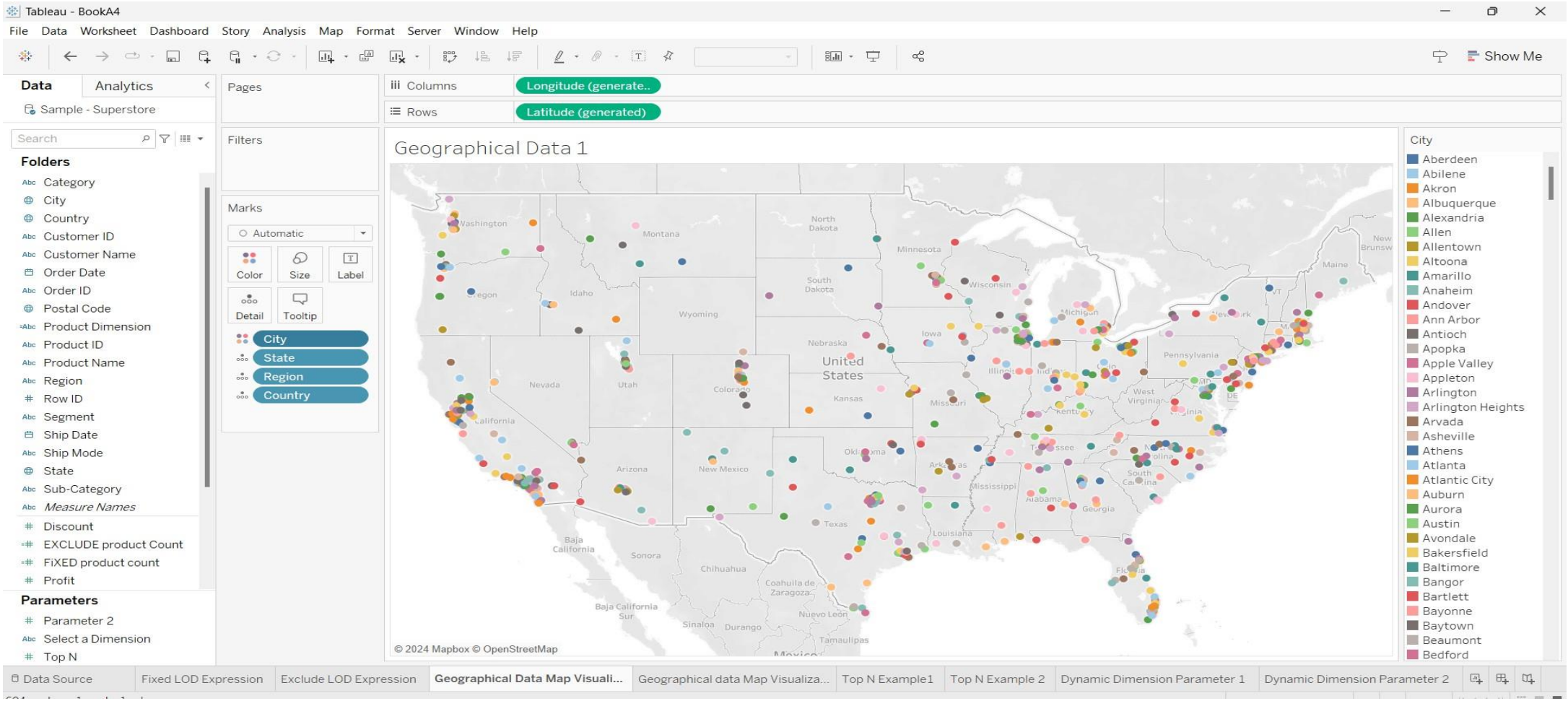


One Exclude LOD Expression

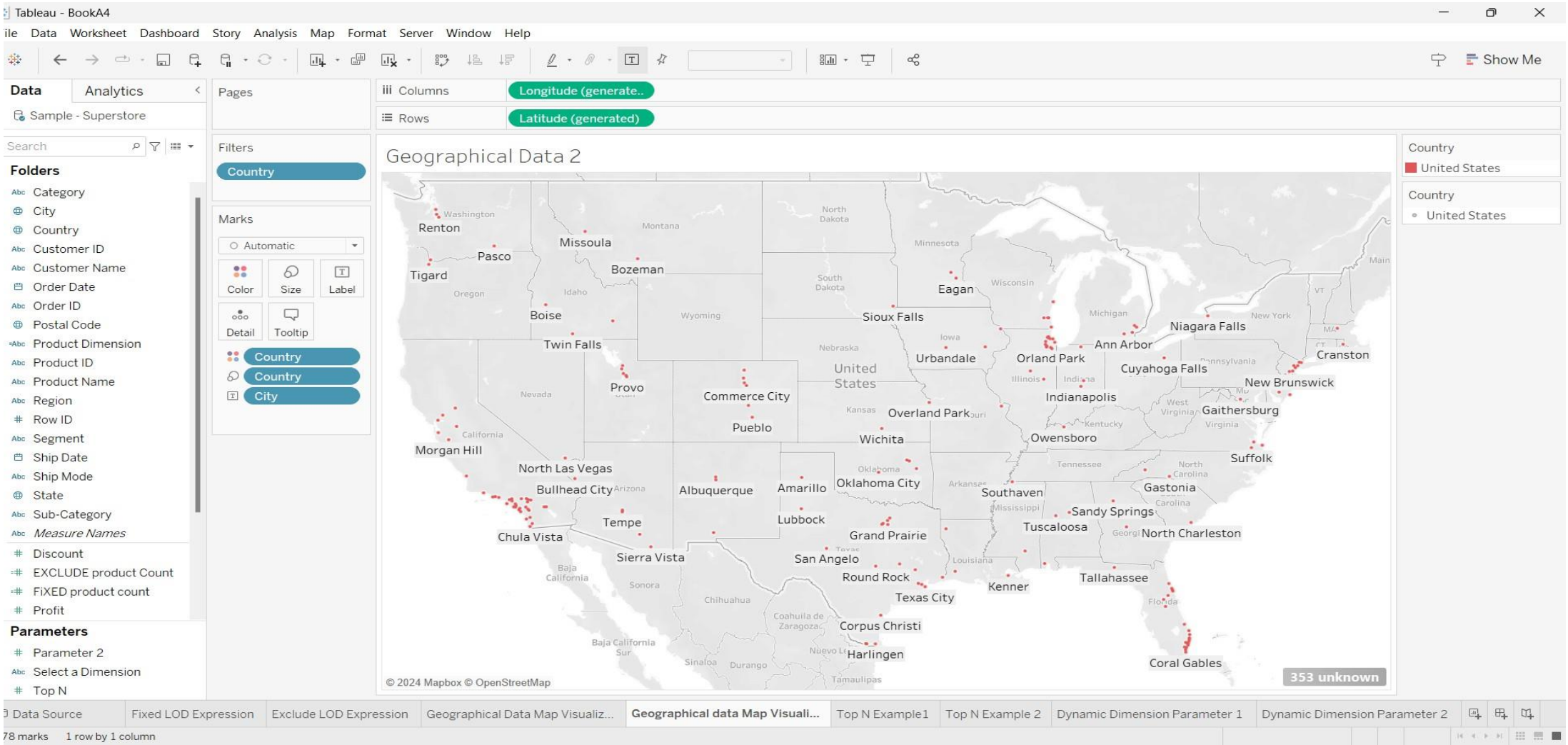


Customer Name	Region	Order ID	Product ID	Show Cu..	EXCL..	FiXED..	Sales
Eugene Hildebrand	West	CA-2014-100867	TEC-PH-10004922	1	1	18	322
Jas O'Carroll	West	US-2016-115819	OFF-AR-10000823	1	6	11	5
			OFF-AR-10004456	1	6	11	73
			OFF-BI-10000050	1	6	11	6
			OFF-BI-10000591	1	6	11	9
			OFF-PA-10002377	1	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

Create any 2 map visualizations using geographical data
Map visualization 1

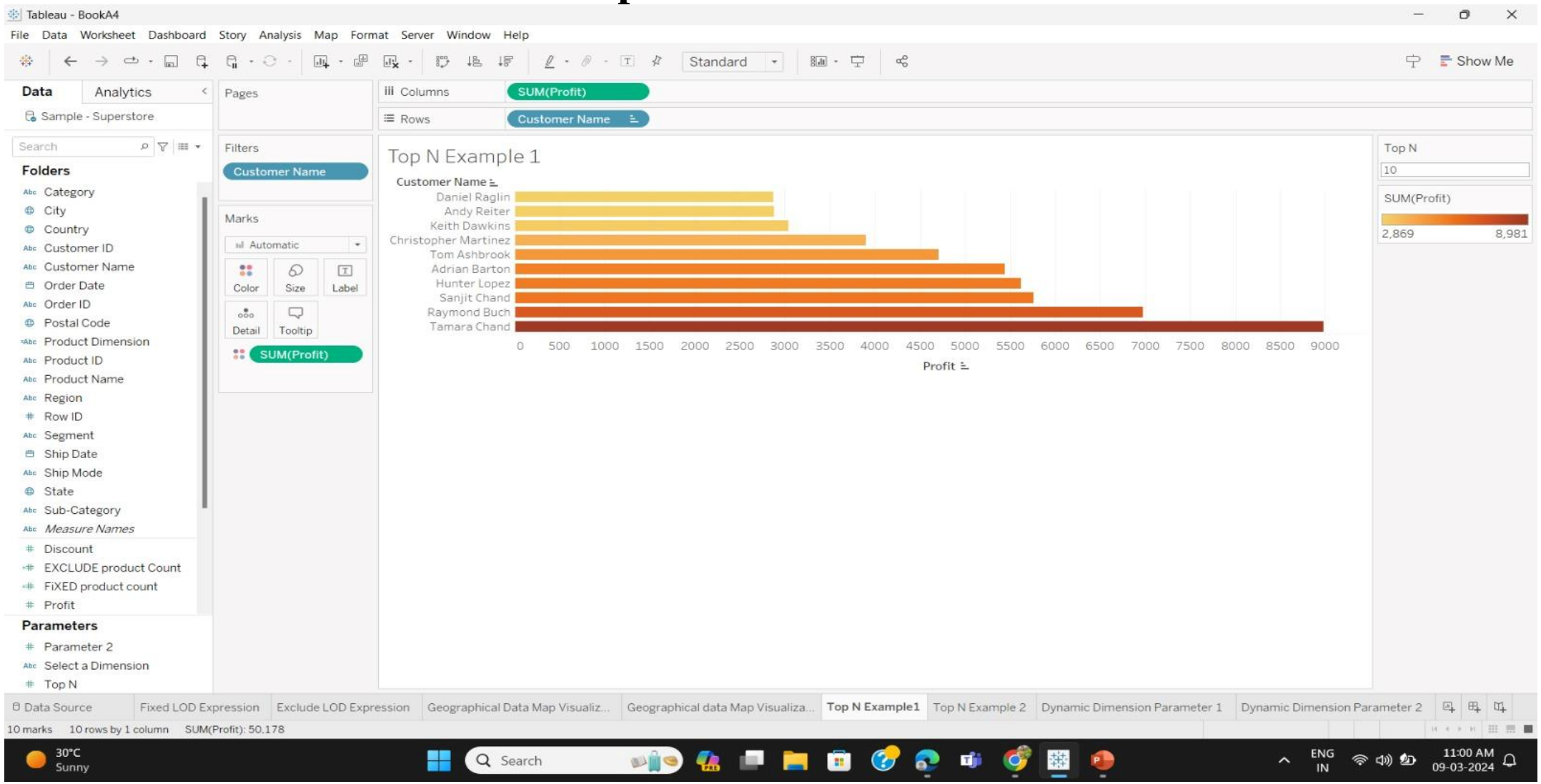


Map visualization 2



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

Top N Parameters



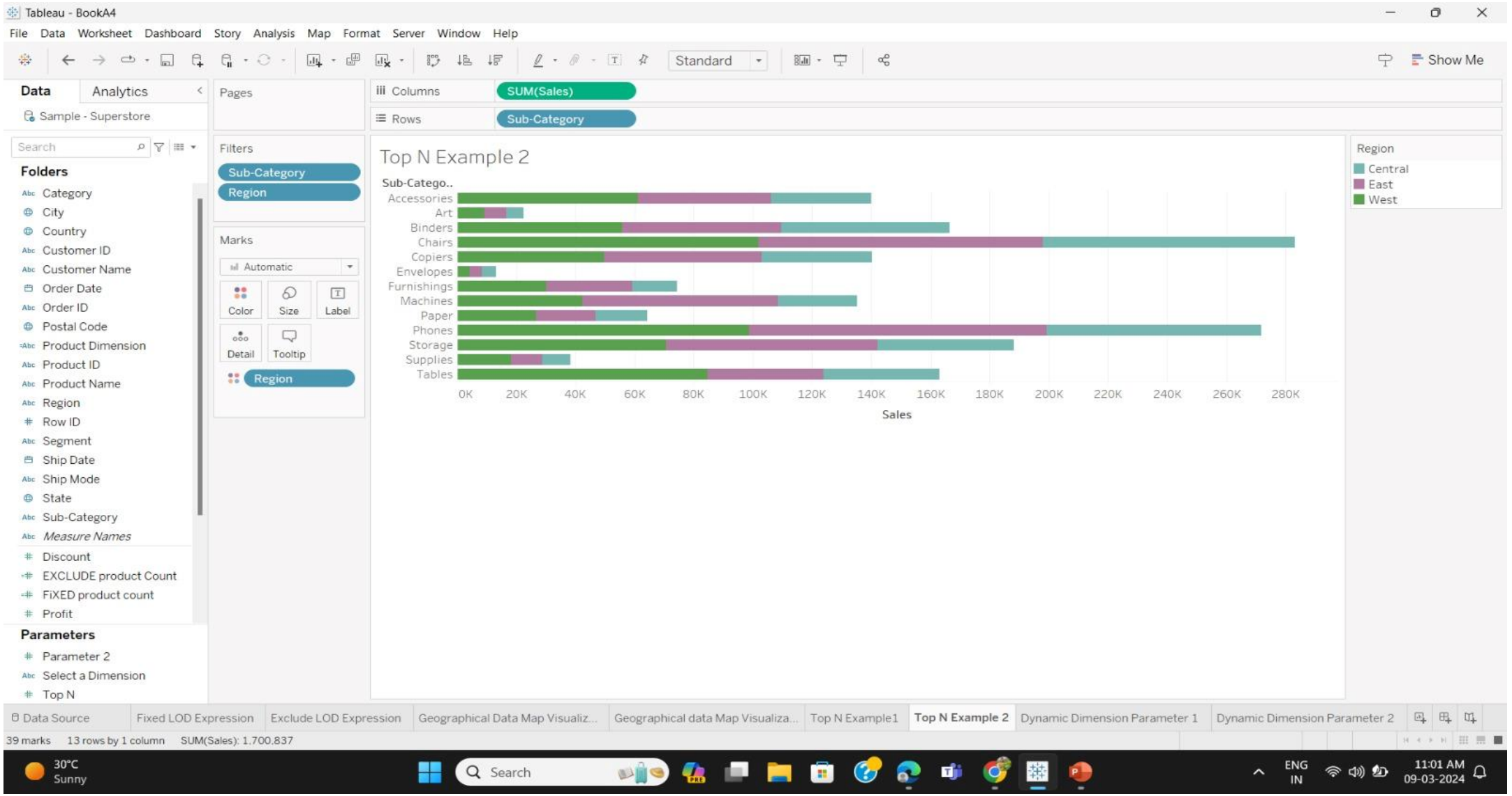
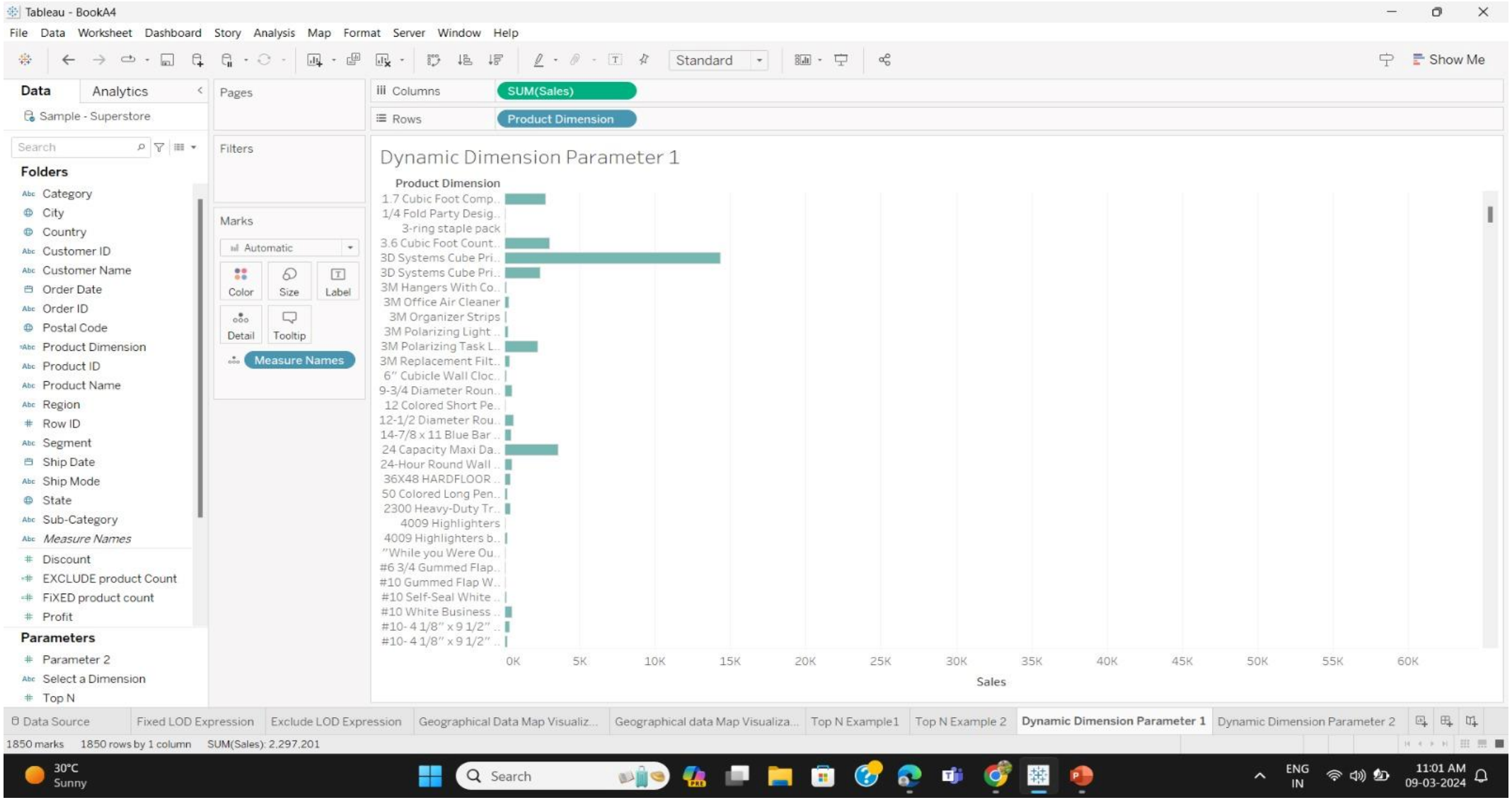
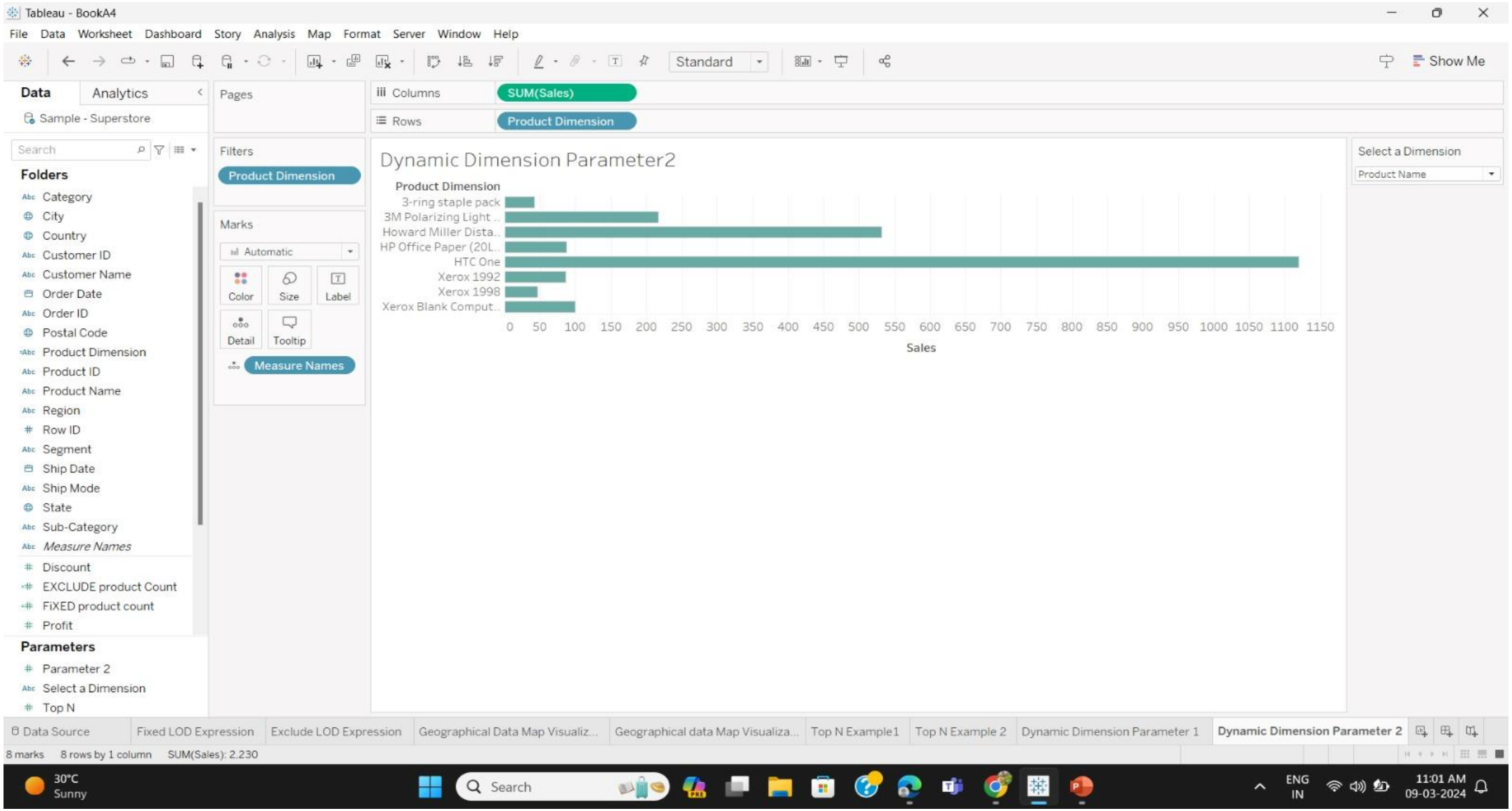


Tableau - BookA4
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data
Analytics
Sample - Superstore
Search
Folders
Category
City
Country
Customer ID
Customer Name
Order Date
Order ID
Postal Code
Product Dimension
Product ID
Product Name
Region
Row ID
Segment
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
Pages
Filters
Sub-Category
Region
Marks
Automatic
Color
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
30°C
Sunny
Search
ENG
IN
11:01 AM
09-03-2024

Dynamic Dimension Parameter 1

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Standard
Show Me
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Search
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Customer ID
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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
Product Dimension
Marks
Automatic
Color
Size
Label
Detail
Tooltip
Measure Names
Columns
SUM(Sales)
Rows
Product Dimension
Dynamic Dimension Parameter2
Product Dimension
3-ring staple pack
3M Polarizing Light ..
Howard Miller Dista..
HP Office Paper (20L..
HTC One
Xerox 1992
Xerox 1998
Xerox Blank Comput..
0 50 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000 1050 1100 1150
Sales
Select a Dimension
Product Name
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
8 marks
8 rows by 1 column
SUM(Sales): 2,230
30°C
Sunny
Search
ENG
IN
11:01 AM
09-03-2024