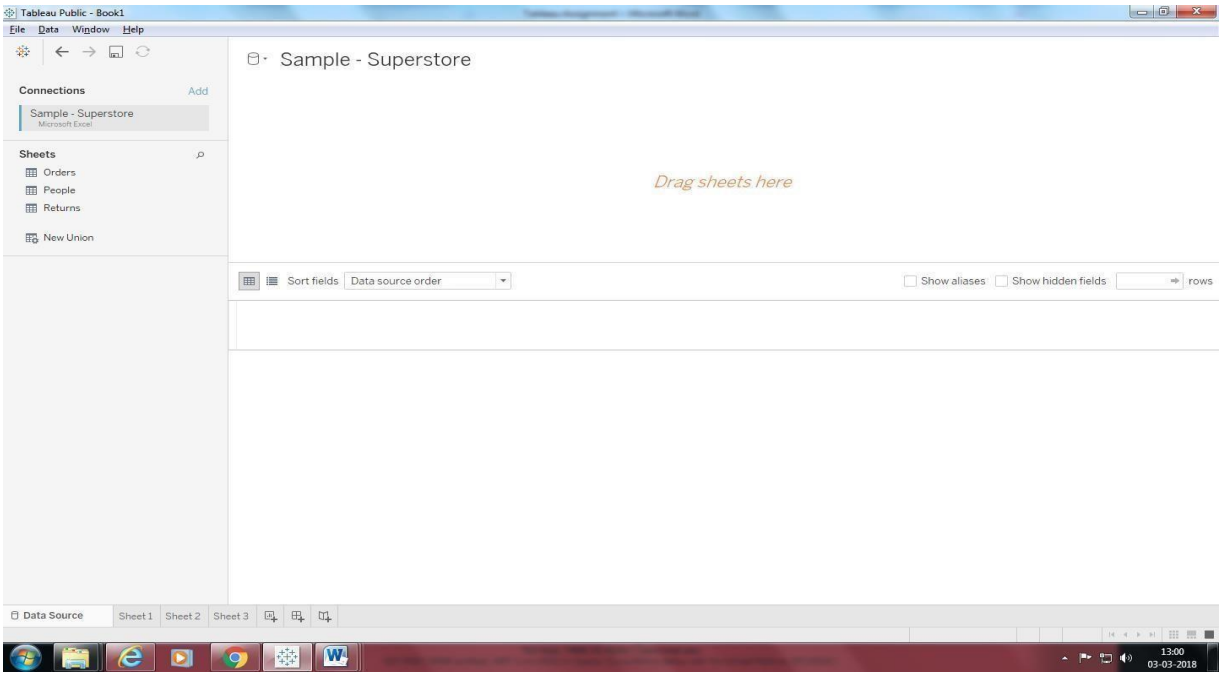
Practical No: 15
Preparation of Maps

Data Set for this Lab Sample- Superstore

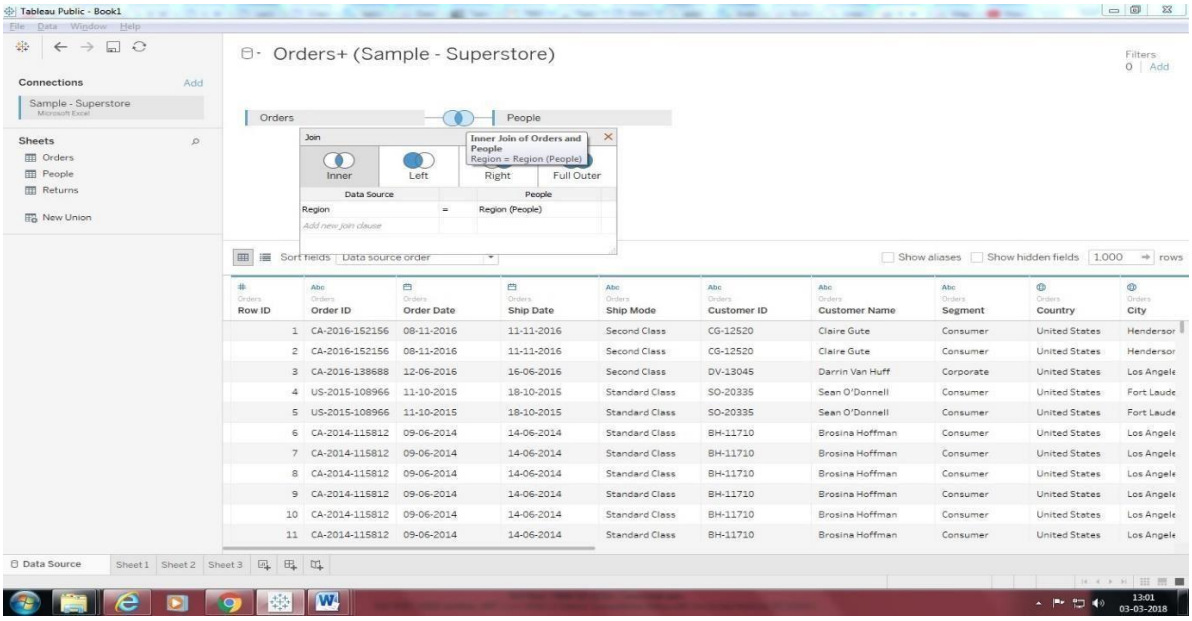
Q 1: Prepare a Geographic map to show sales in each state.

Ans:

a) *Connect to dataset*



b) *Join sheets*



c. *Create a Geographic Hierarchy*

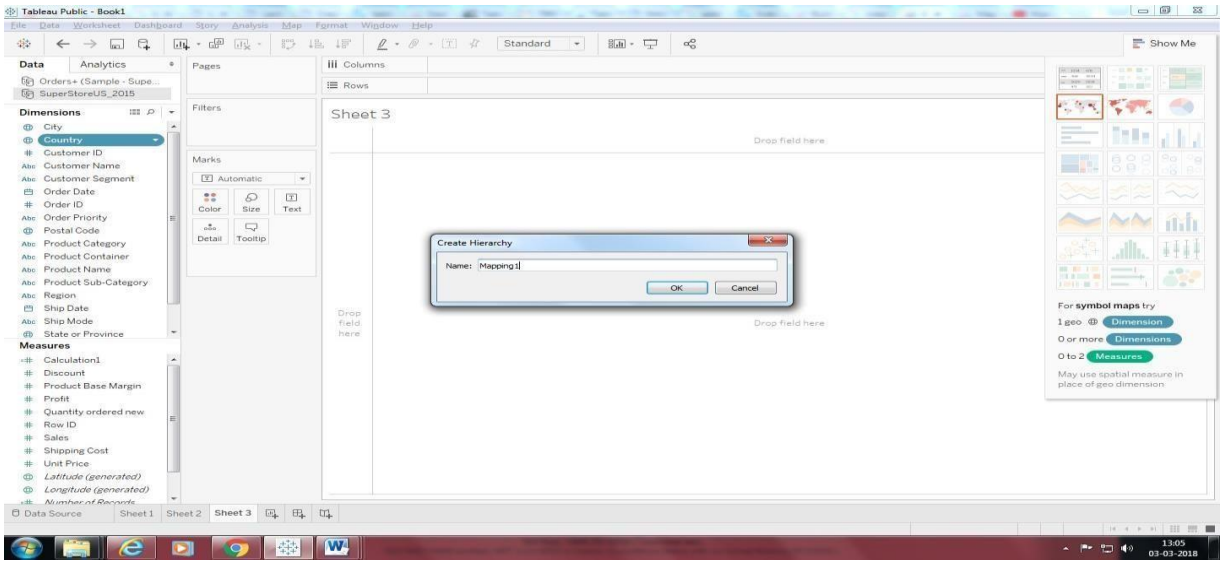
1. In the Data pane, right-click the geographic field, **Country**, and then select **Hierarchy** > **Create Hierarchy**.

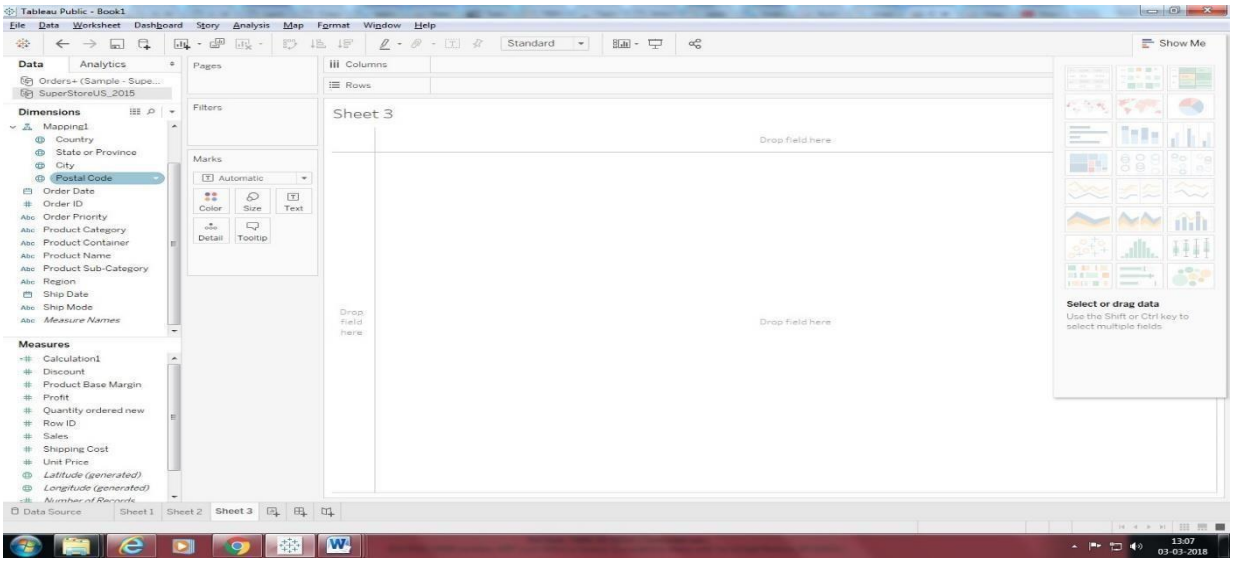
2. In the Create Hierarchy dialog box that opens, give the hierarchy a name, such as Mapping Items, and then click **OK**.

   At the bottom of the Dimensions section, the Mapping Items hierarchy is created with the Country field.

3. In the Data pane, drag the State field to the hierarchy and place it below the Country field.

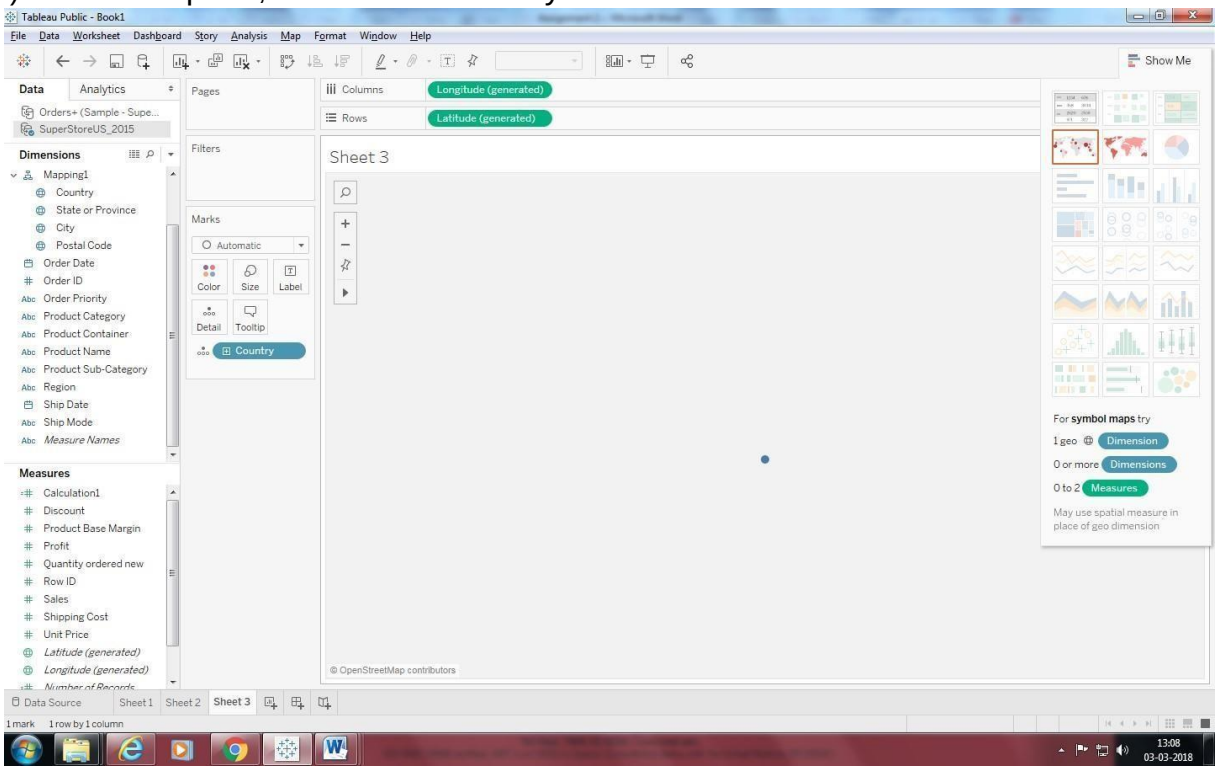
4. Repeat step 3 for the City and Postal Code fields.



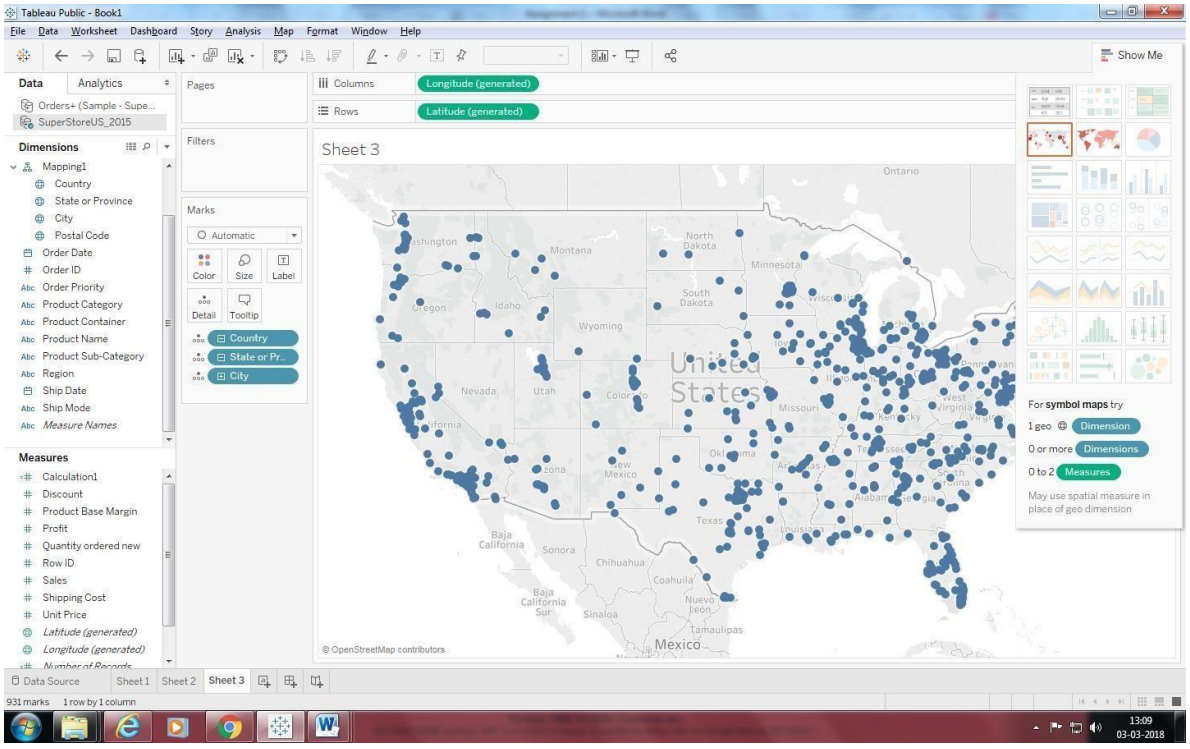


d. Build a basic map

1) In the Data pane, double-click Country.



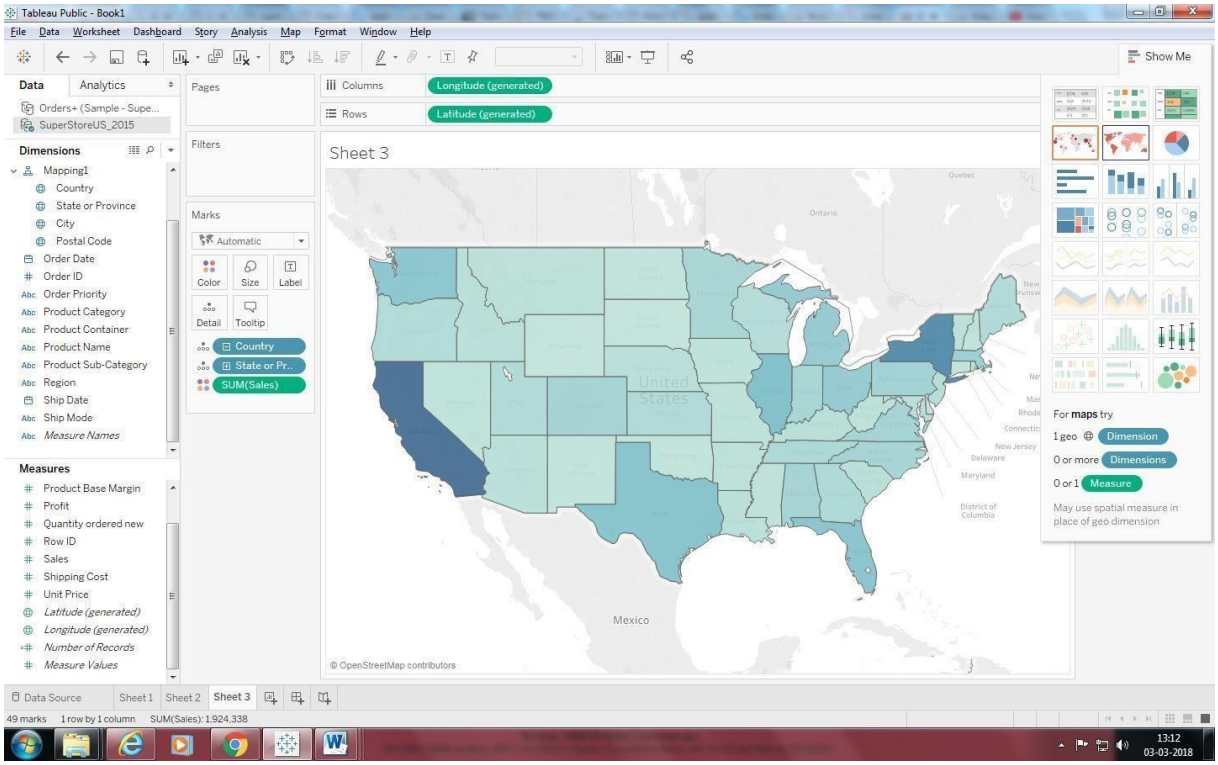
2) On the Marks card, click the + icon on the Country field.



e. Add visual detail

Add colour

From Measures, drag Sales to Colour on the Marks card.



Add labels

1. From Measures, drag Sales to Label on the Marks card.

   Each state is labelled with sum of sales. The numbers need a little bit of formatting, however.

2. In the Data pane, right-click Sales and select Default Properties > Number Format.

3. In the Default Number Format dialog box that opens, select Number (Custom), and then do the following:

   - For Decimal Places, enter 0. ○
   - For Units, select Thousands (K).
   - Click OK.

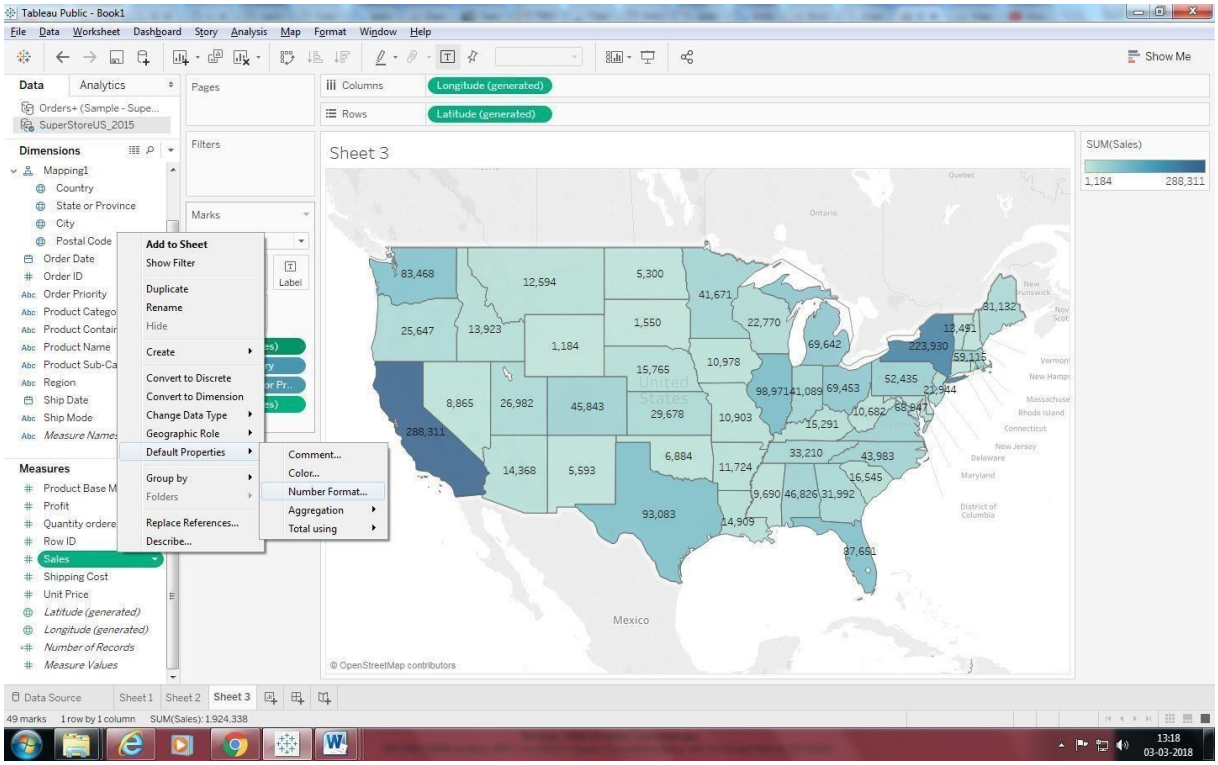


Tableau Public - Book1
File Data Worksheet Dashboard Story Analysis Map Format Window Help
Show Me
Data Analytics
Orders+ (Sample - Supe...
SuperStoreUS_2015
Dimensions
Mapping1
Country
State or Province
City
Postal Code
Order Date
Order ID
Order Priority
Product Catego
Product Contair
Product Name
Product Sub-Ca
Region
Ship Date
Ship Mode
Measure Name
Measures
Product Base M
Profit
Quantity ordere
Row ID
Sales
Shipping Cost
Unit Price
Latitude (generated)
Longitude (generated)
Number of Records
Measure Values
Pages
Filters
Marks
Label
Add to Sheet
Show Filter
Duplicate
Rename
Hide
Create
Convert to Discrete
Convert to Dimension
Change Data Type
Geographic Role
Default Properties
Group by
Folders
Replace References...
Describe...
Comment...
Color...
Number Format...
Aggregation
Total using
Columns
Longitude (generated)
Rows
Latitude (generated)
Sheet 3
SUM(Sales)
1,184
288,311
83,468
12,594
5,300
41,671
81,1321
25,647
13,923
1,550
22,770
13,491
1,184
69,642
223,930
59,115
15,765
10,978
98,971
41,089
69,453
52,435
8,865
26,982
45,843
29,678
10,903
10,682
68,947
288,311
15,291
33,210
43,983
14,368
5,593
6,884
11,724
16,545
9,690
46,826
31,992
93,083
14,909
87,691
Mexico
© OpenStreetMap contributors
Data Source
Sheet 1
Sheet 2
Sheet 3
49 marks
1 row by 1 column
SUM(Sales): 1,924,338
13:18
03-03-2018

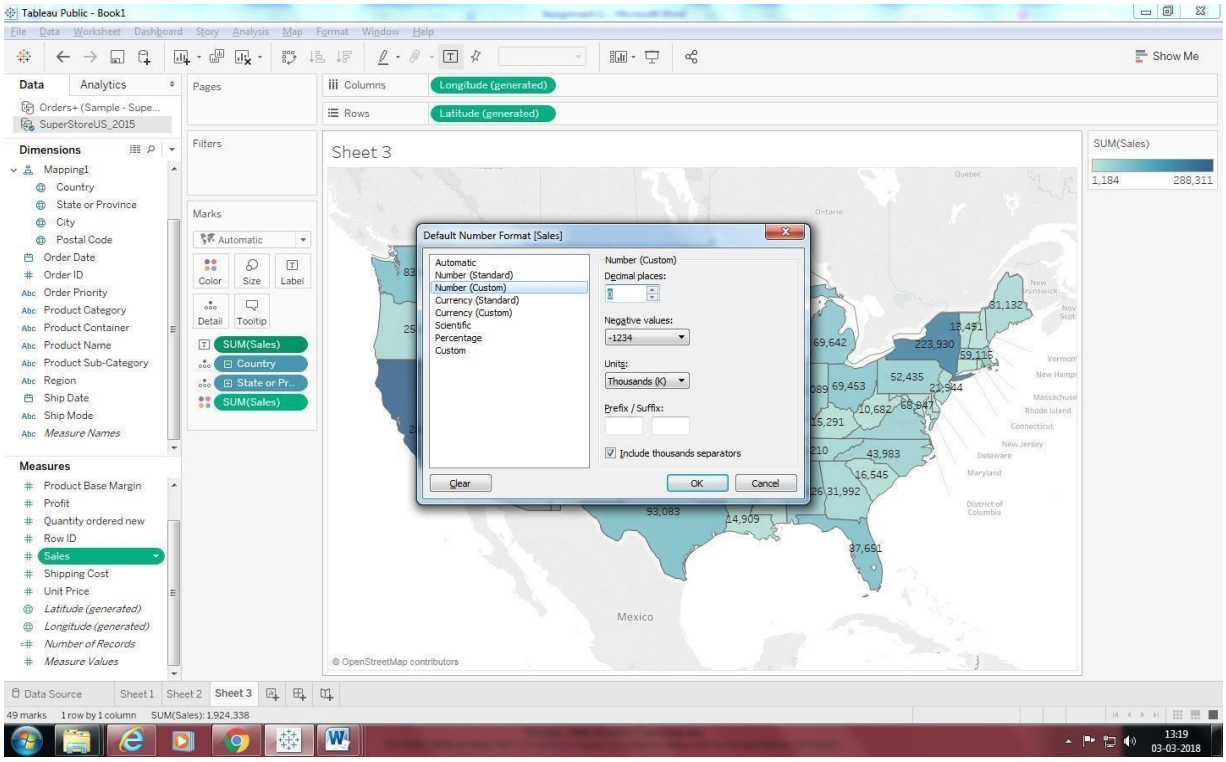
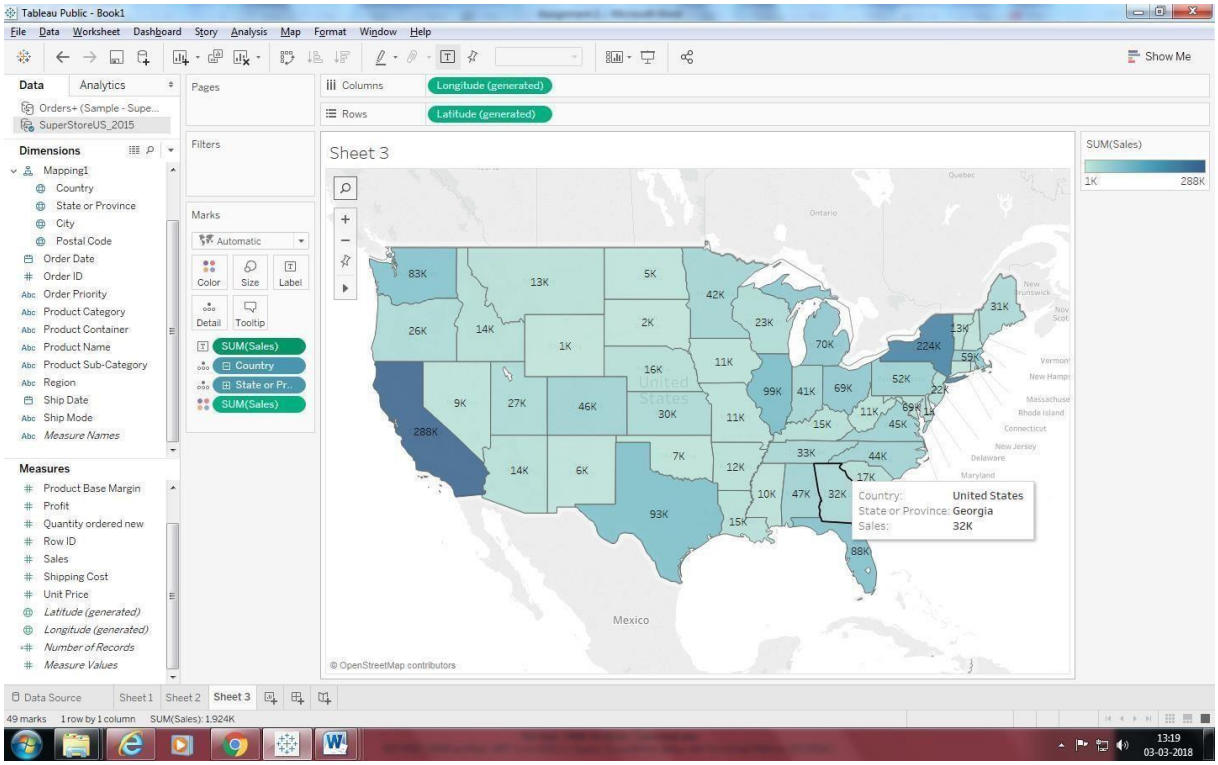
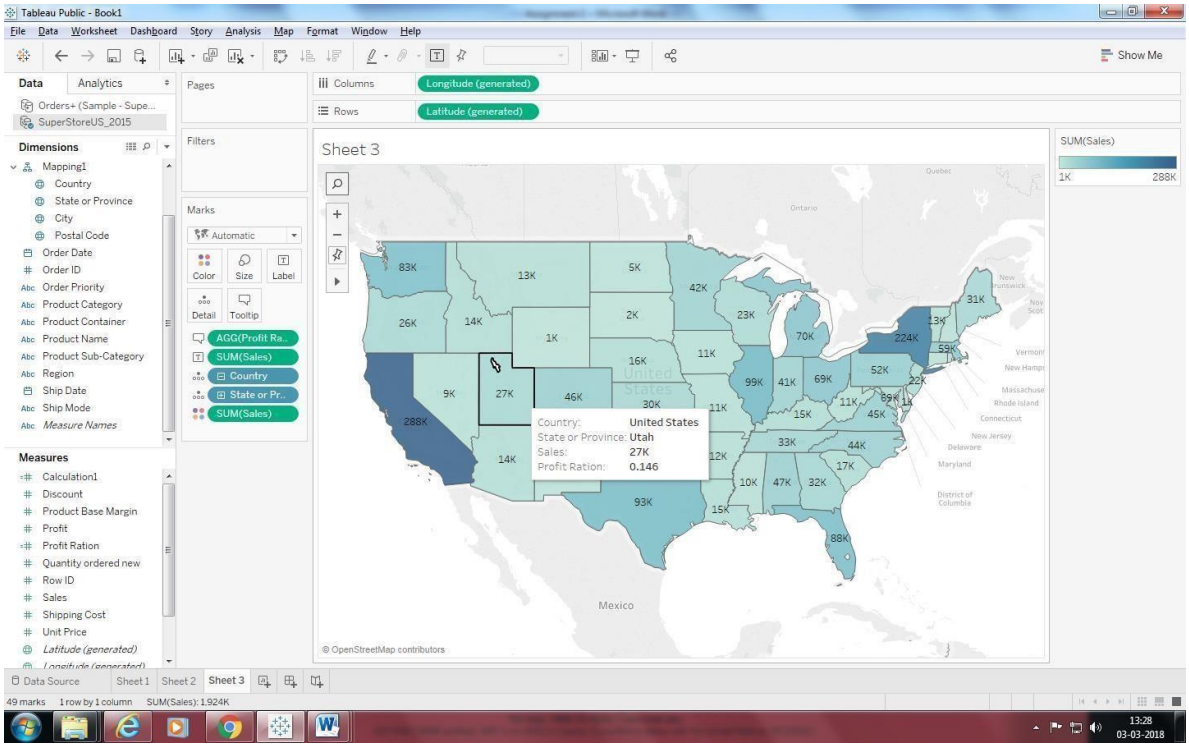


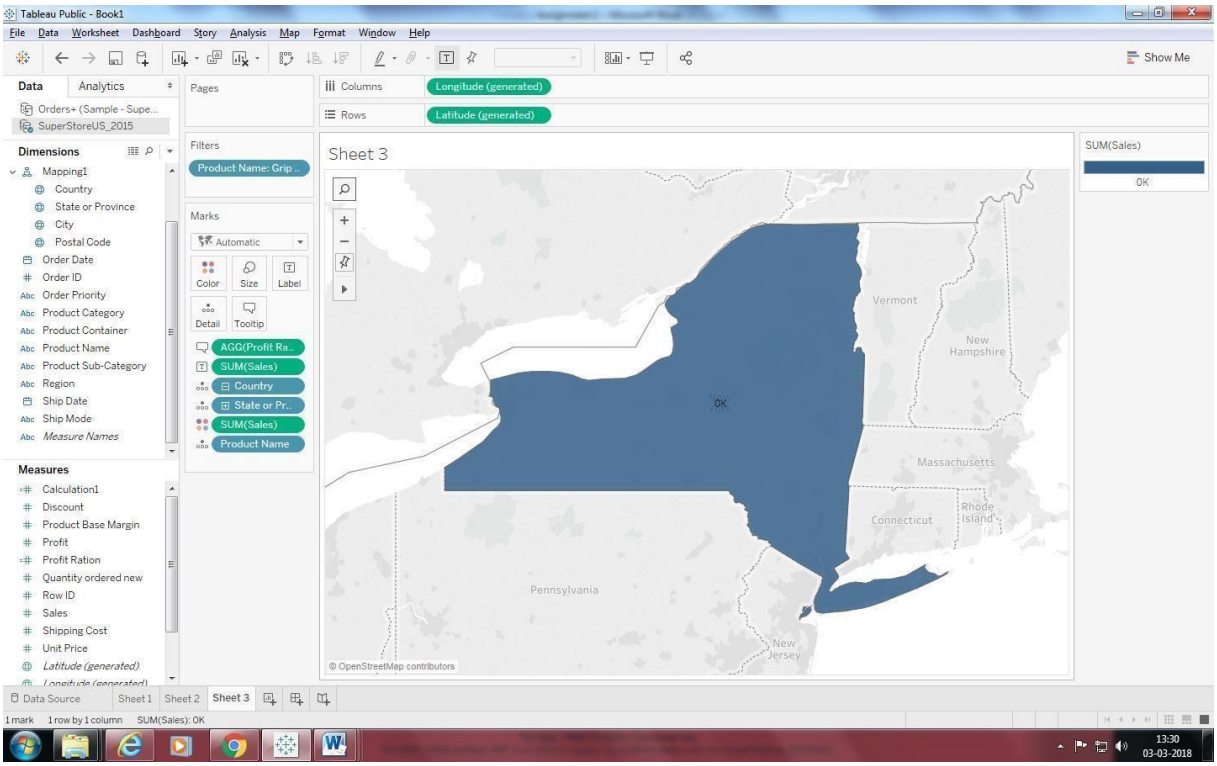
Tableau Public - Book1
Show Me
Data Analytics
Orders+ (Sample - Supe...
SuperStoreUS_2015
Dimensions
Mapping1
Country
State or Province
City
Postal Code
Order Date
Order ID
Order Priority
Product Category
Product Container
Product Name
Product Sub-Category
Region
Ship Date
Ship Mode
Measure Names
Measures
Product Base Margin
Profit
Quantity ordered new
Row ID
Sales
Shipping Cost
Unit Price
Latitude (generated)
Longitude (generated)
Number of Records
Measure Values
Pages
Filters
Marks
Automatic
Color
Size
Label
Detail
Tooltip
SUM(Sales)
Country
State or Pr...
SUM(Sales)
Columns
Longitude (generated)
Rows
Latitude (generated)
Sheet 3
SUM(Sales)
1,184
288,311
Default Number Format [Sales]
Automatic
Number (Standard)
Number (Custom)
Currency (Standard)
Currency (Custom)
Scientific
Percentage
Custom
Number (Custom)
Decimal places:
0
Negative values:
-1234
Units:
Thousands (K)
Prefix / Suffix:
Include thousands separators
Clear
OK
Cancel
Mexico
© OpenStreetMap contributors
Data Source
Sheet 1
Sheet 2
Sheet 3
49 marks
1 row by 1 column
SUM(Sales): 1,924,338
13:19
03-03-2018



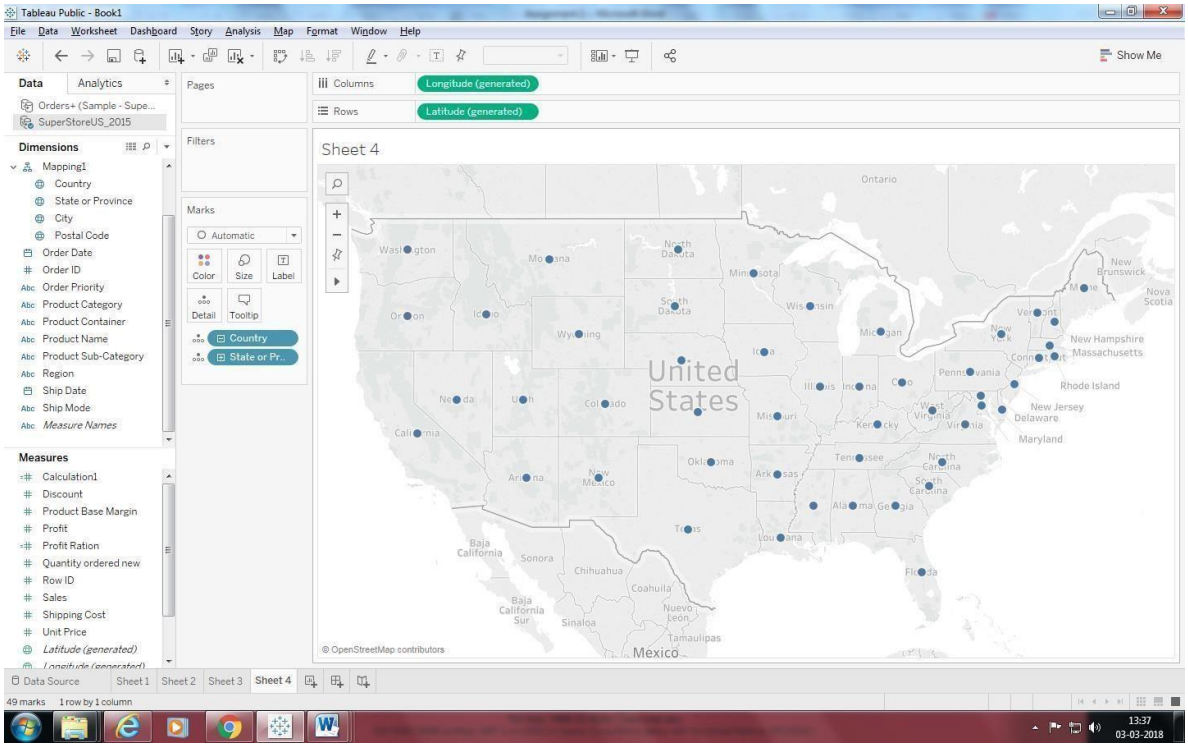
Q 2: Show Profit Ratio of each state as tooltip on map

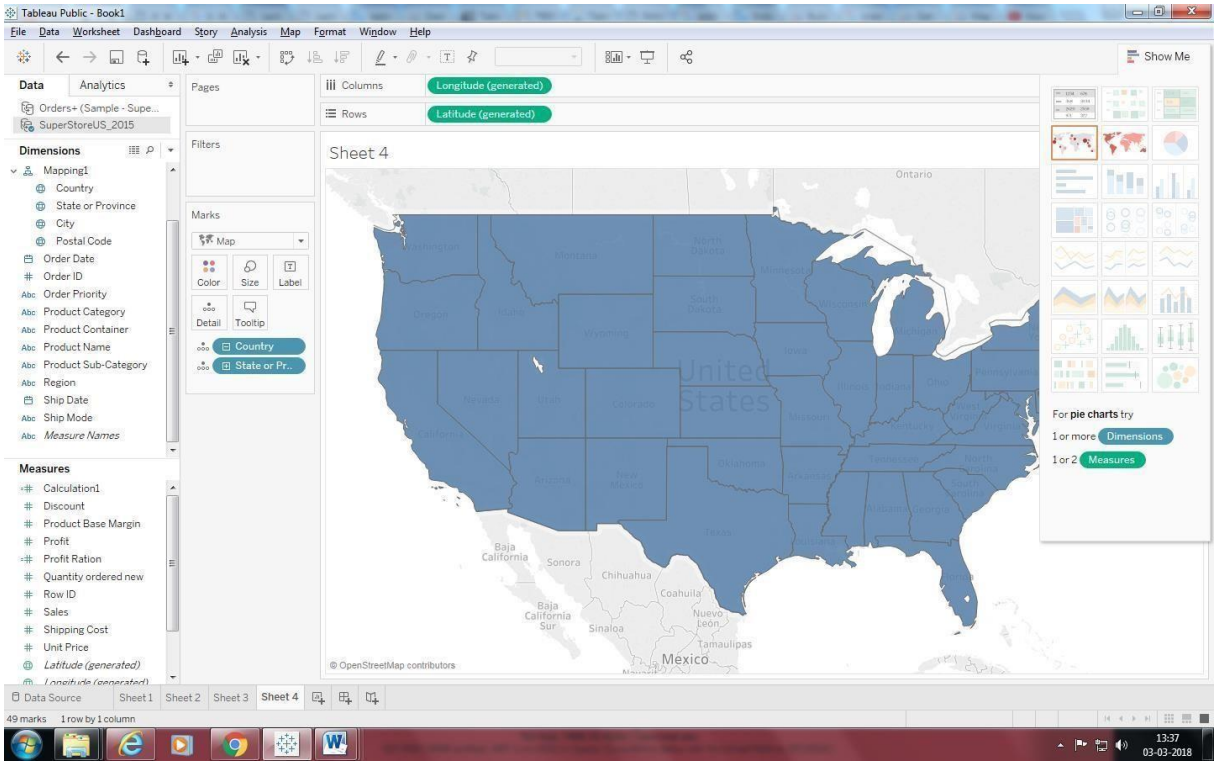


Q 3: Show Profit ratio for Grip Envelop products

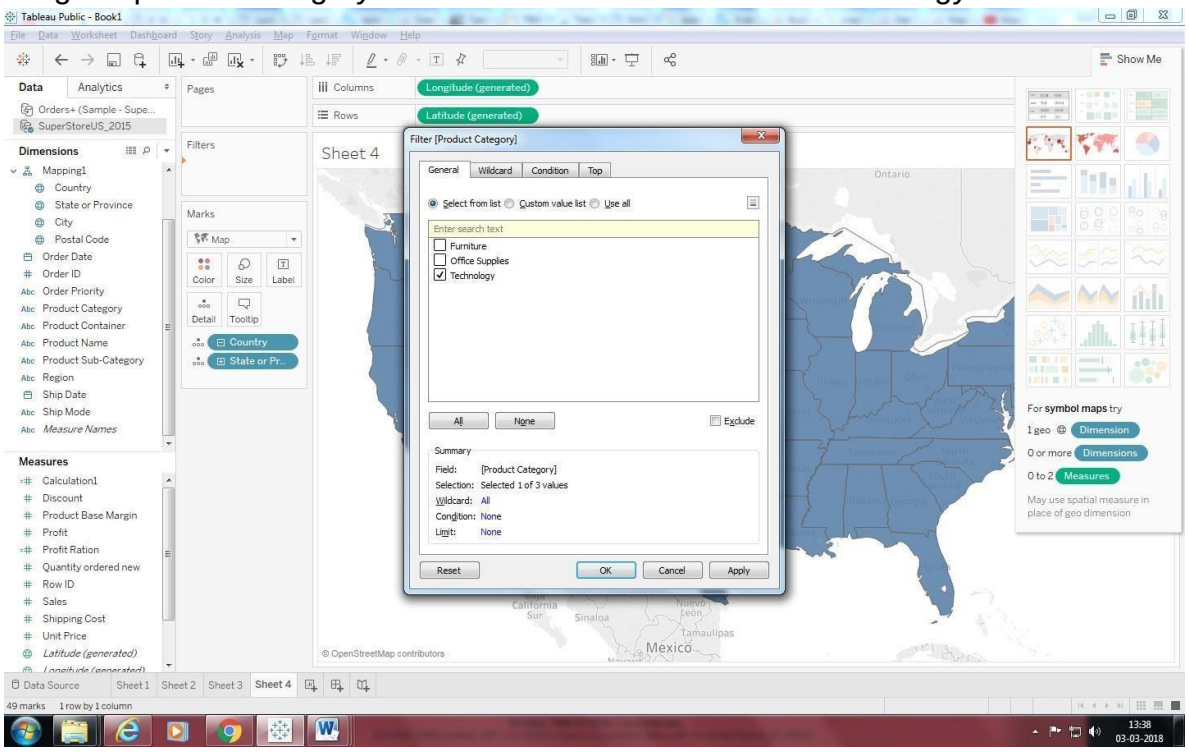


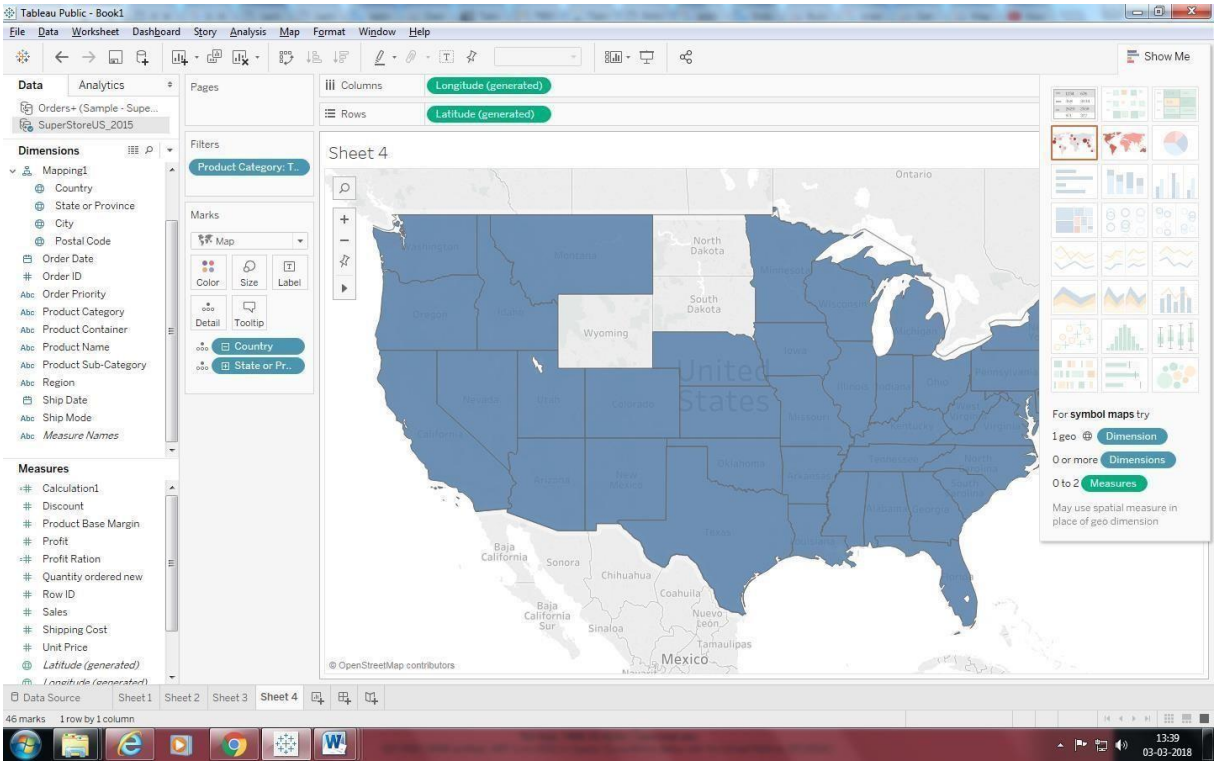
Q 4: In the technology product category which unprofitable state is surrounded by only profitable states.



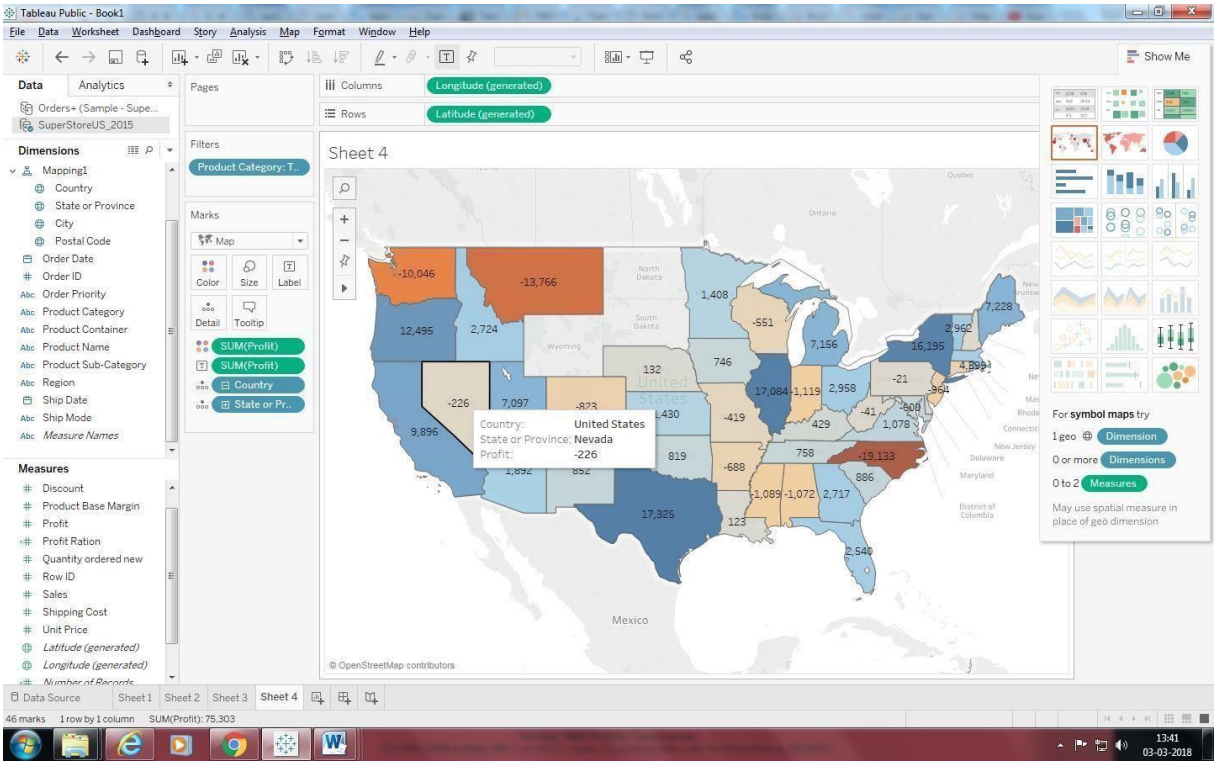


Drag the product category on the filter shelf and select in technology.

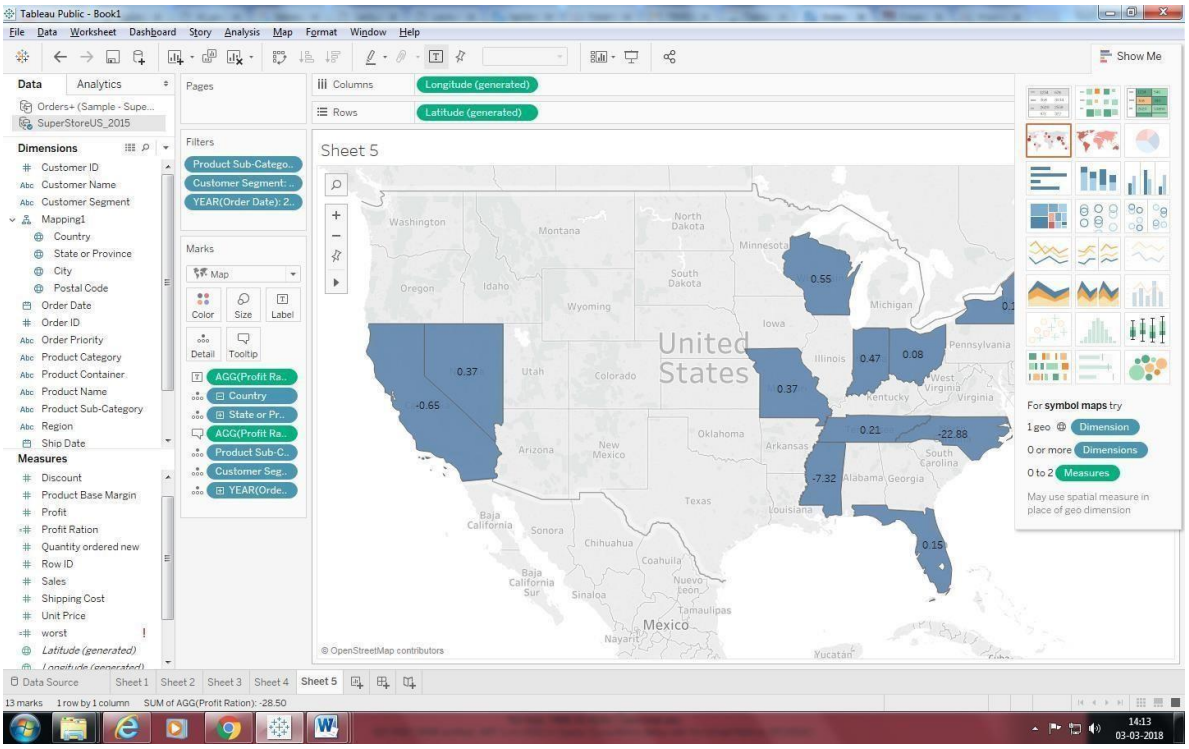




Now Drag the profit measure to colour mark



Add profit Label.

Now we can see Nevada State is surrounded by profitable states.

Q 5: Which state has the worst Gross Profit Ratio on Envelopes in the Corporate Customer Segment that were Shipped in 2015?