

**Name:** Prajith DLVP

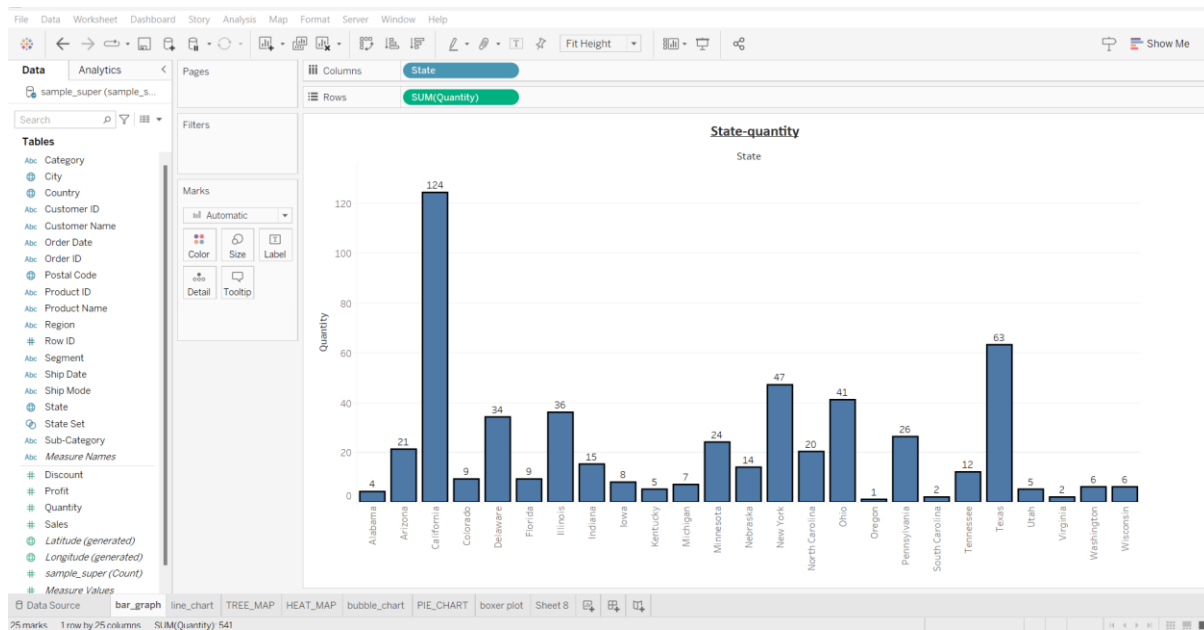
**Reg No:**20BBS0130

## Data Analytics

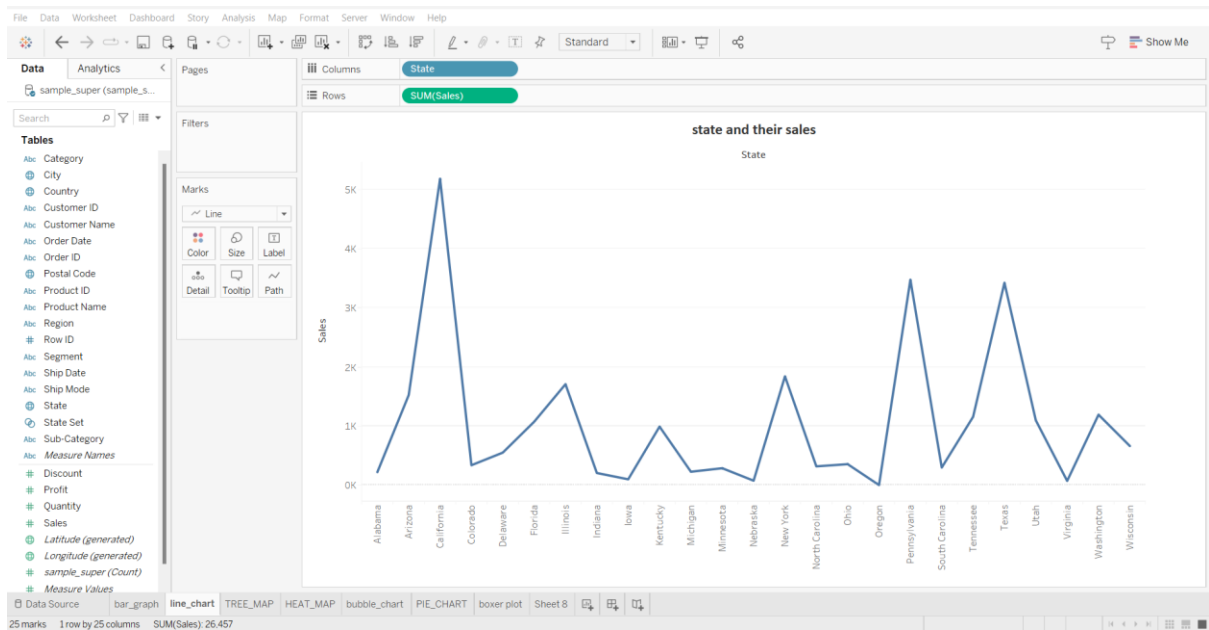
### Assignment 2

**1) Create any 7 data visualizations/charts and perform the following**

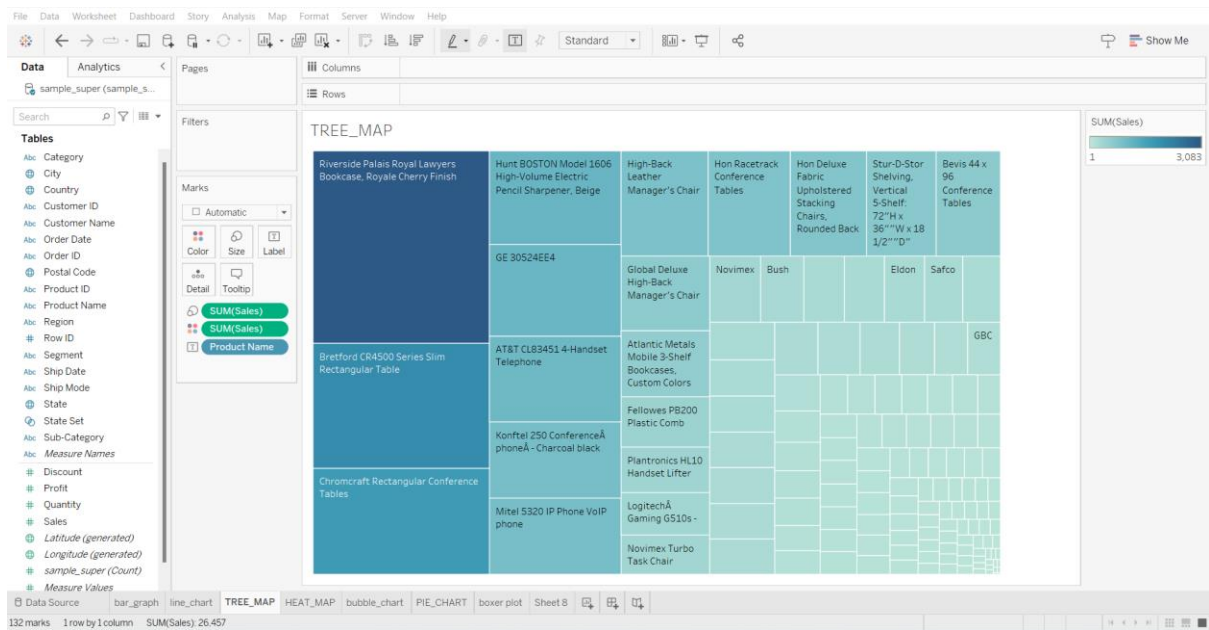
**-Bar graph on state-quantity data**



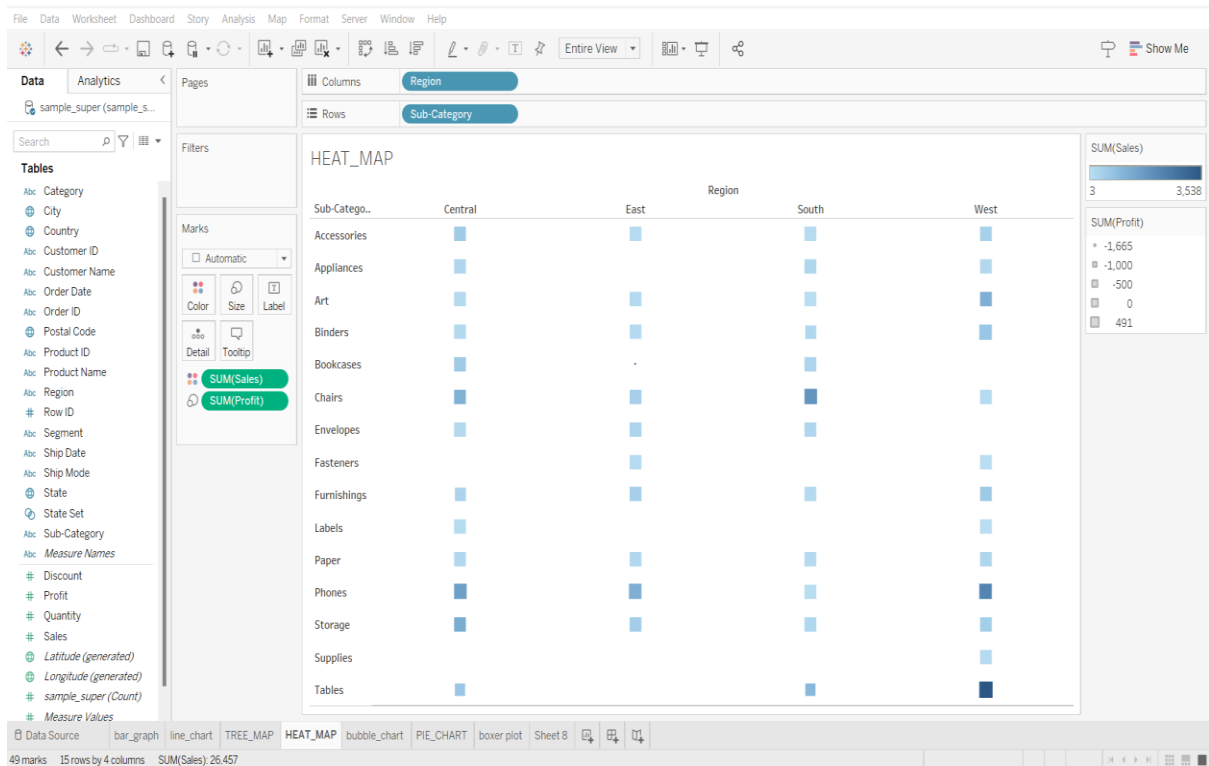
## - line chart based on state and their sales data



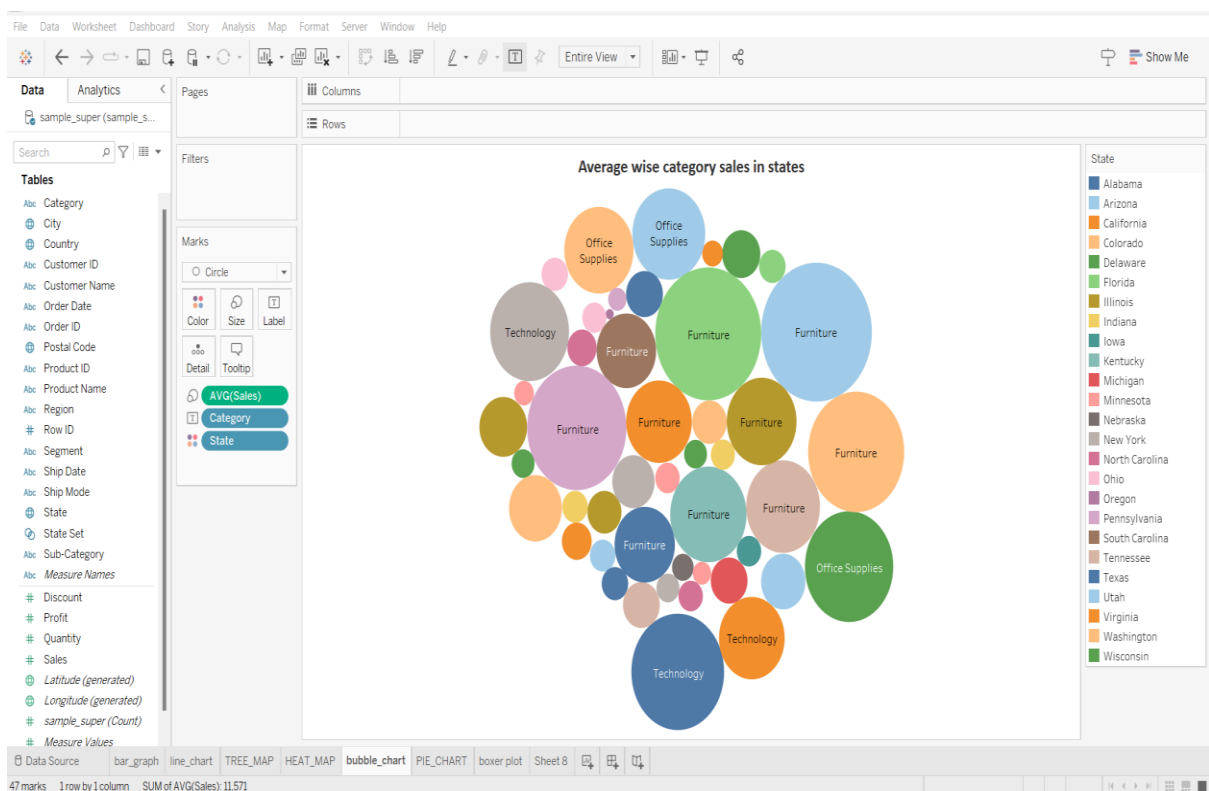
## - tree map based on products and sales data



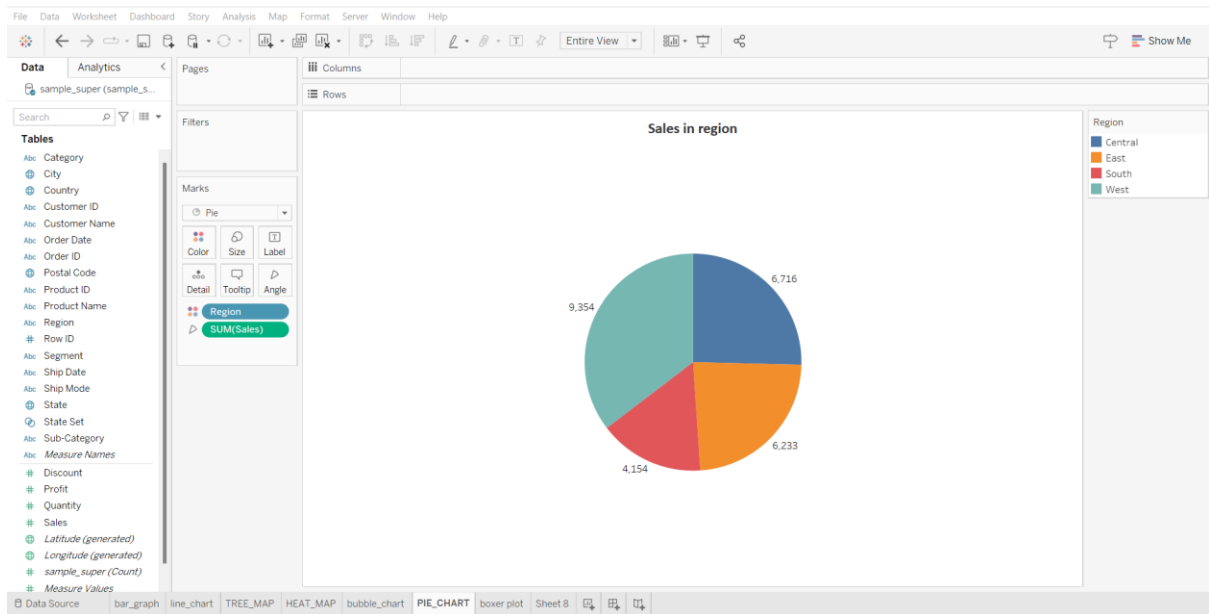
- heat map based on subcategory and region and profit,sales.



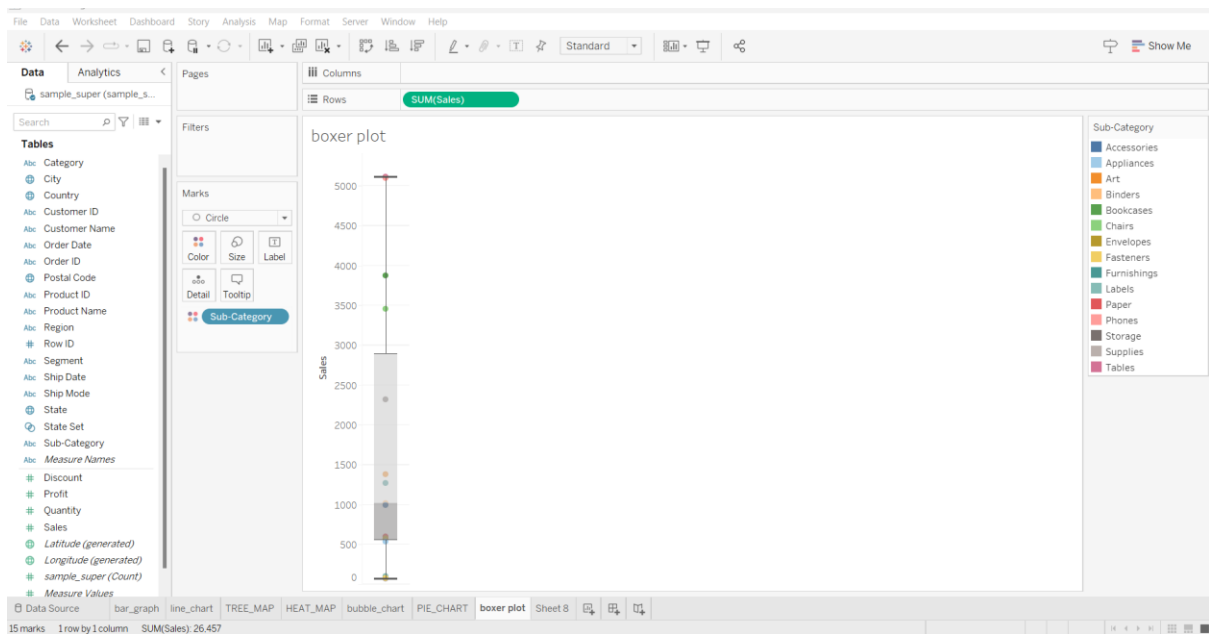
- bubble chart based on average category of sales in states



## - pie chart based on sales in regions

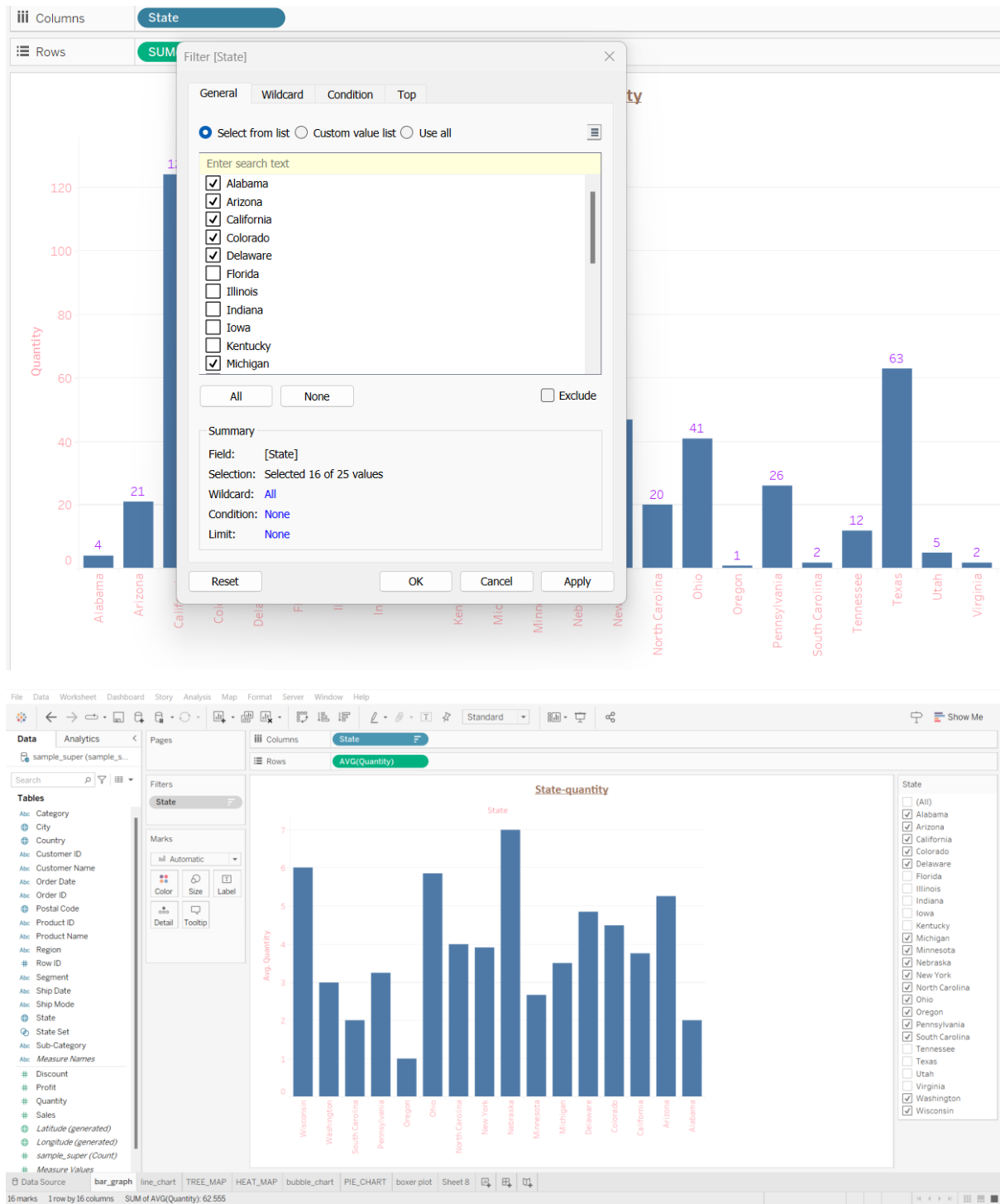


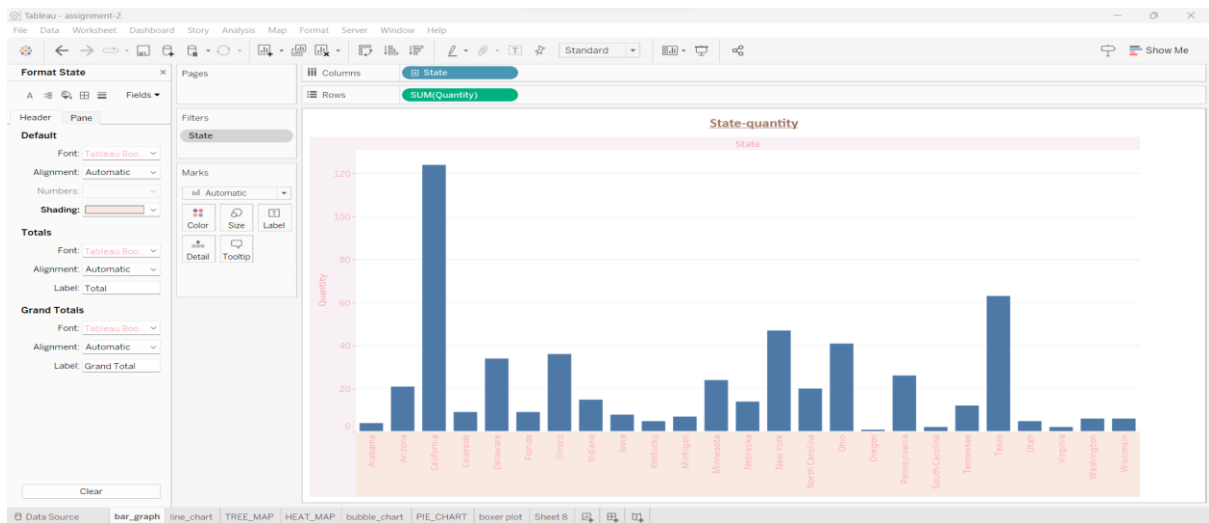
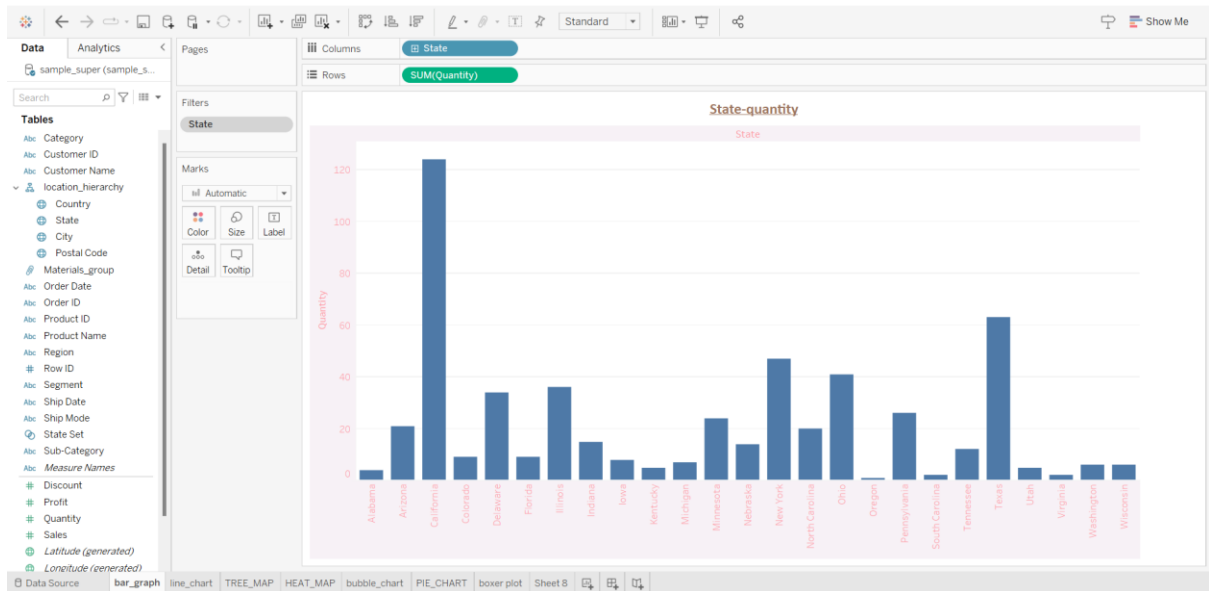
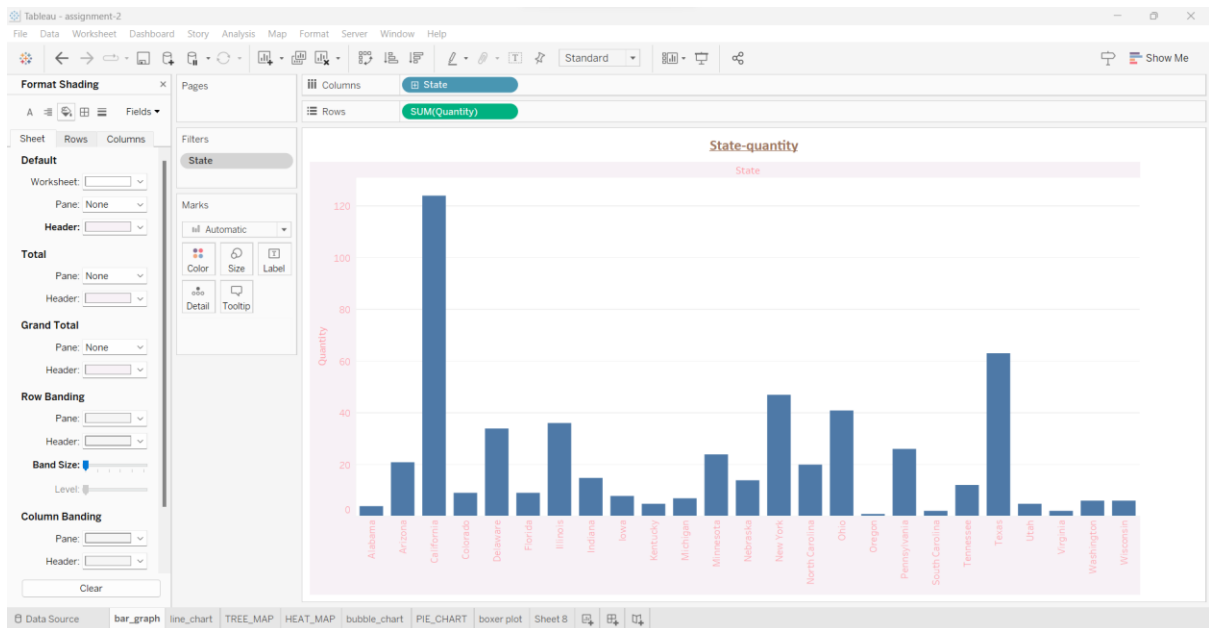
## - boxer and whisper plot based on sub-category and their sales.



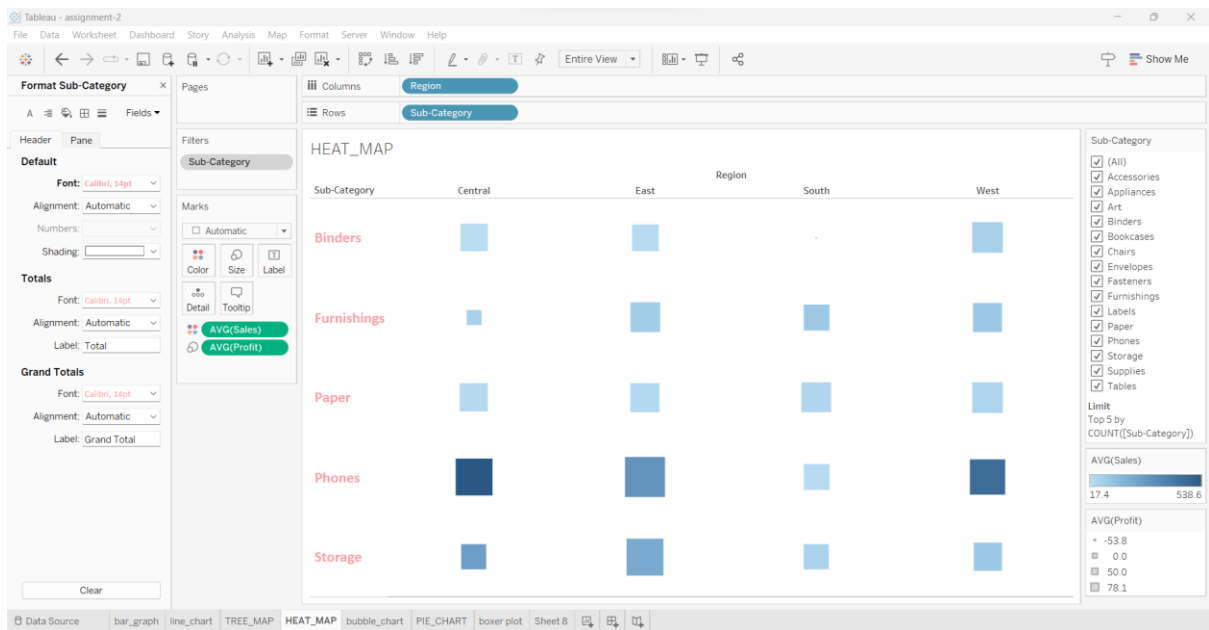
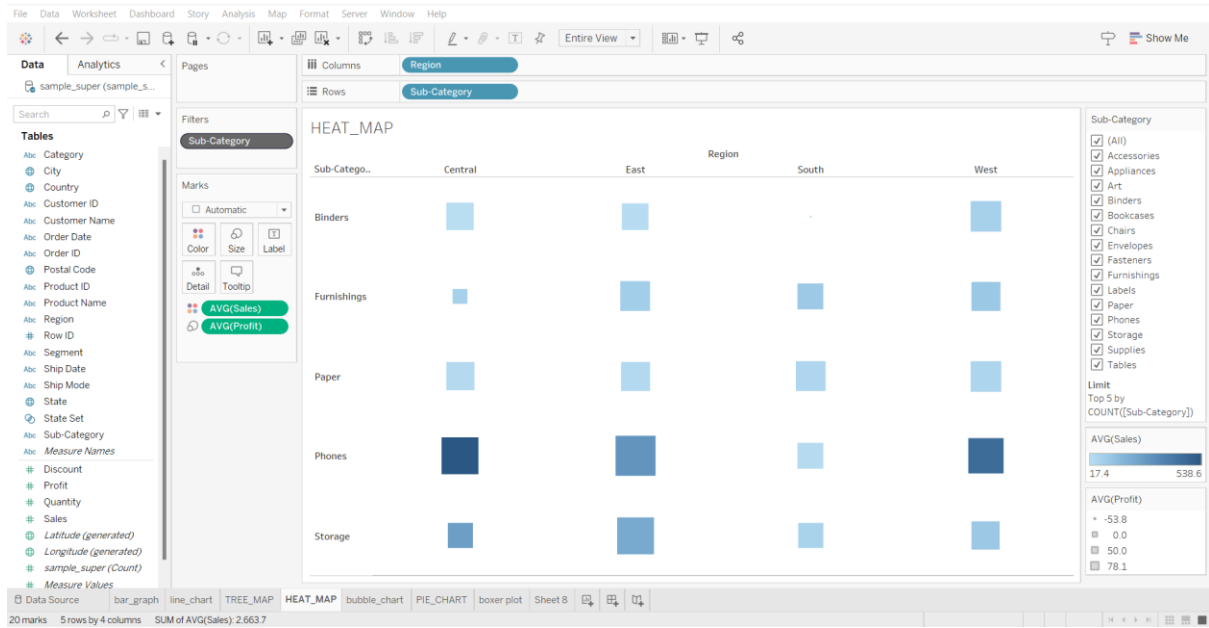
## 2) Apply dimension filter, context and measure filter on any of the three Visualizations

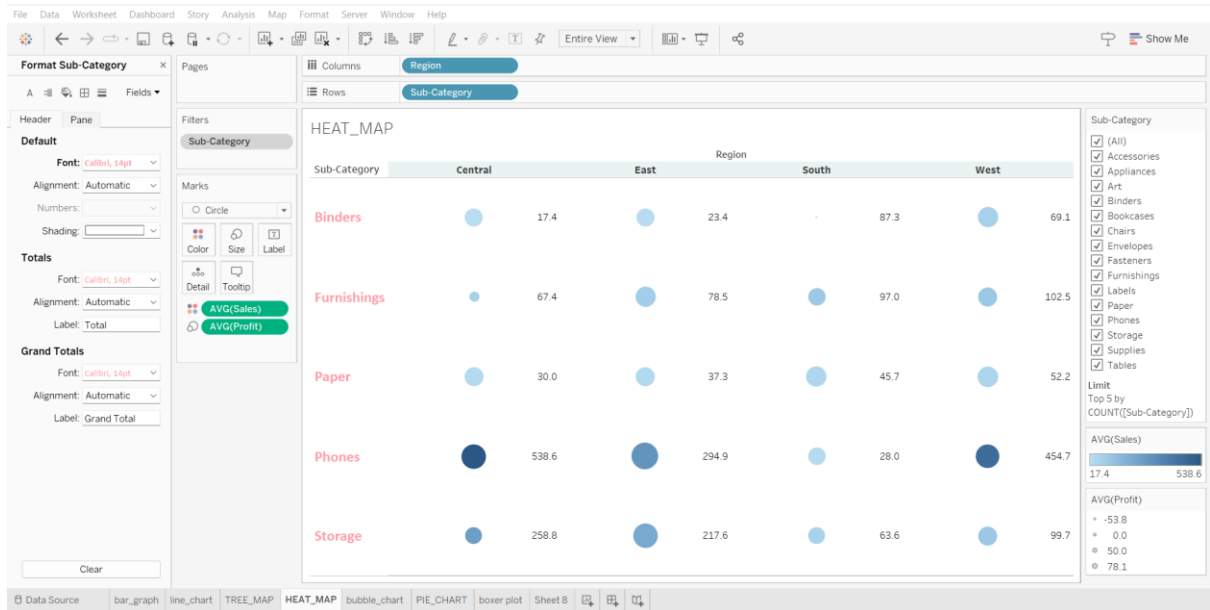
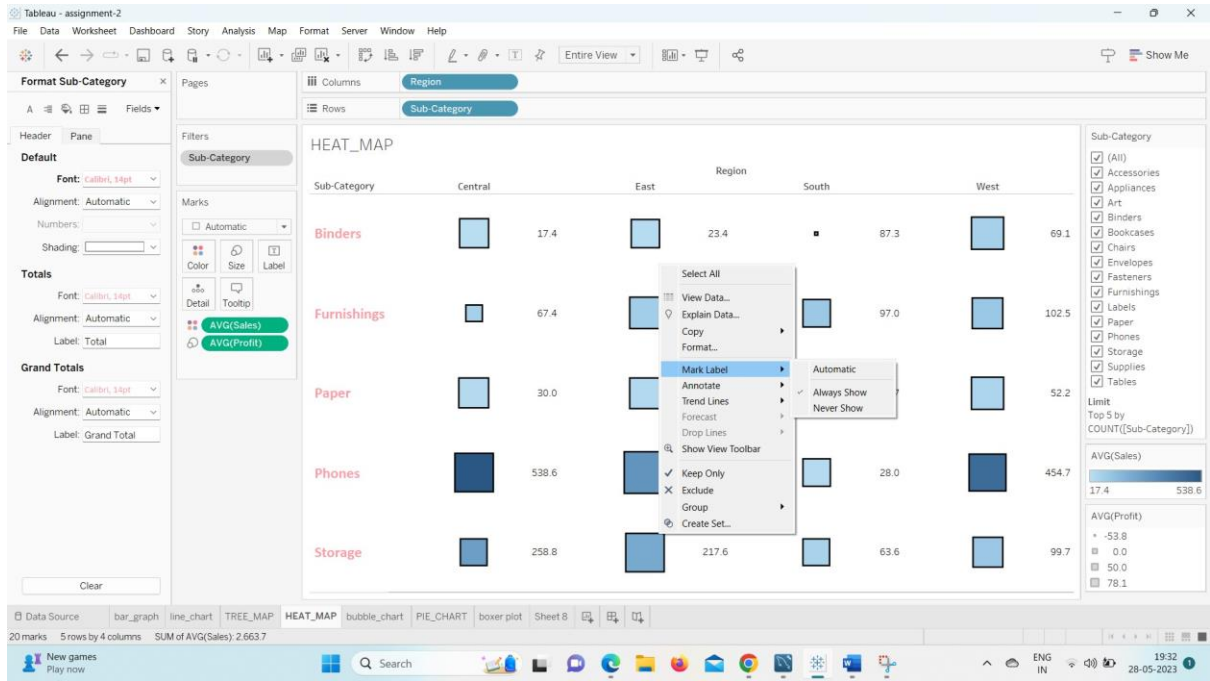
i) applying all above filters to the bar graph as shown below





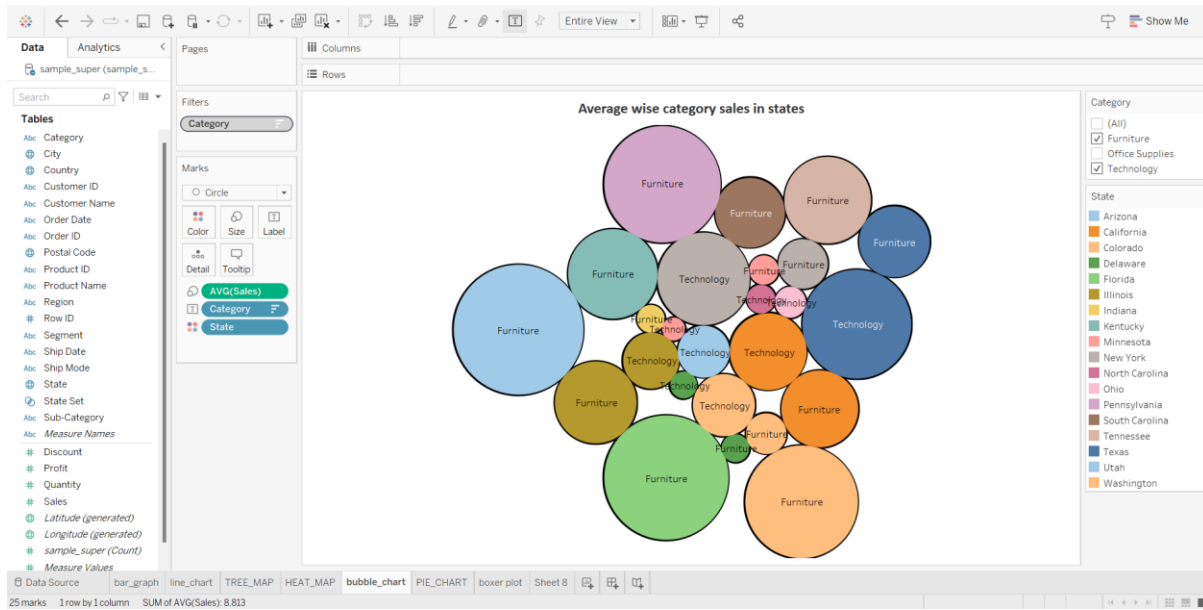
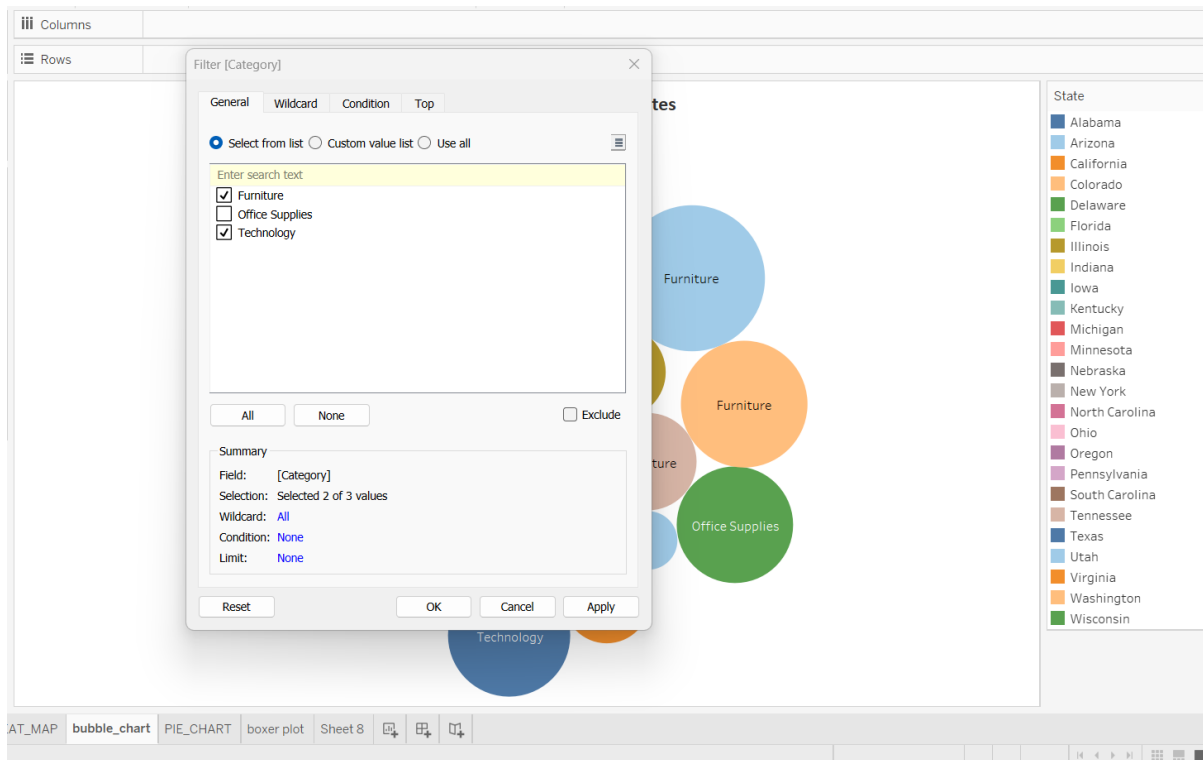
ii) applying all above filters to the heat\_map as shown below

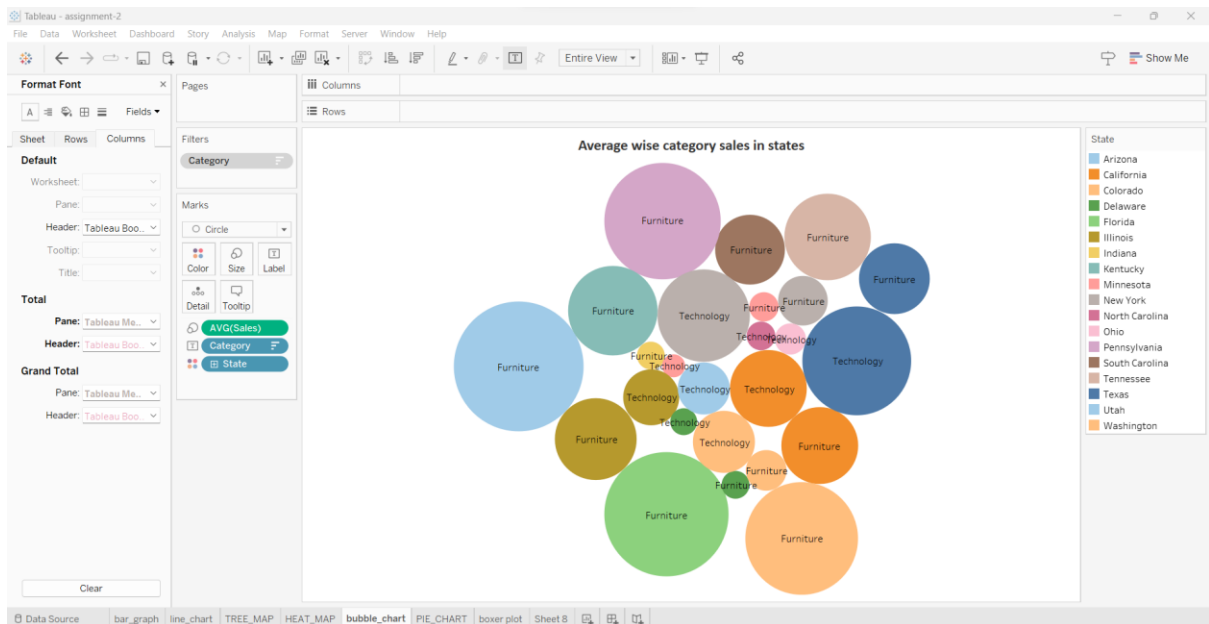






iii) applying all above filters to bubble chart as shown below



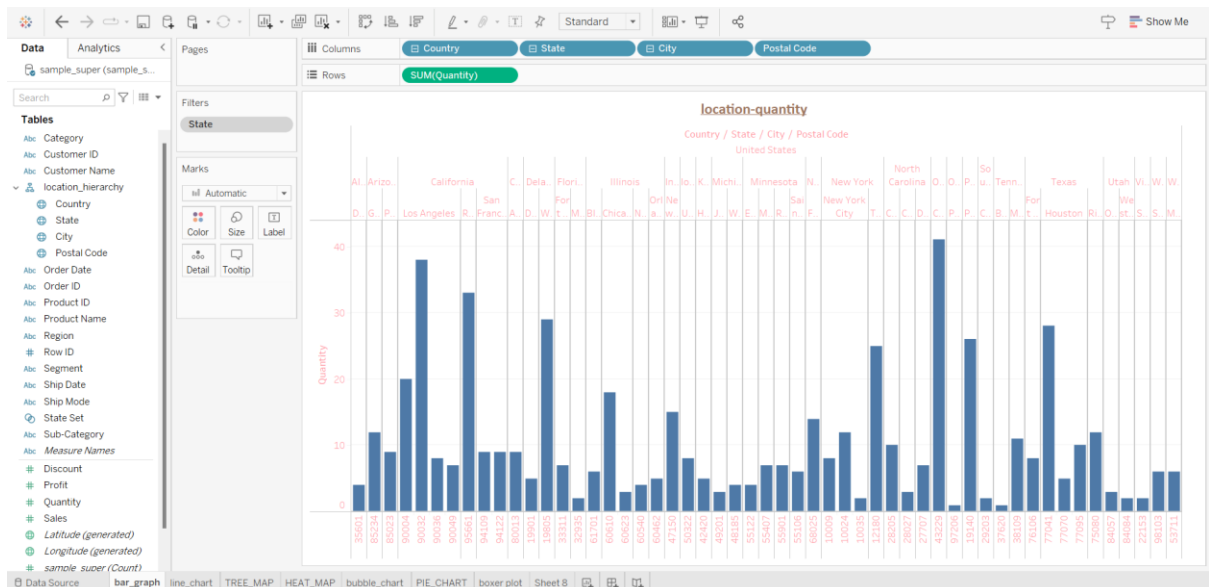


### 3) Perform the following data manipulations on your dataset

- create a Hierarchy
- create a set
- create a group

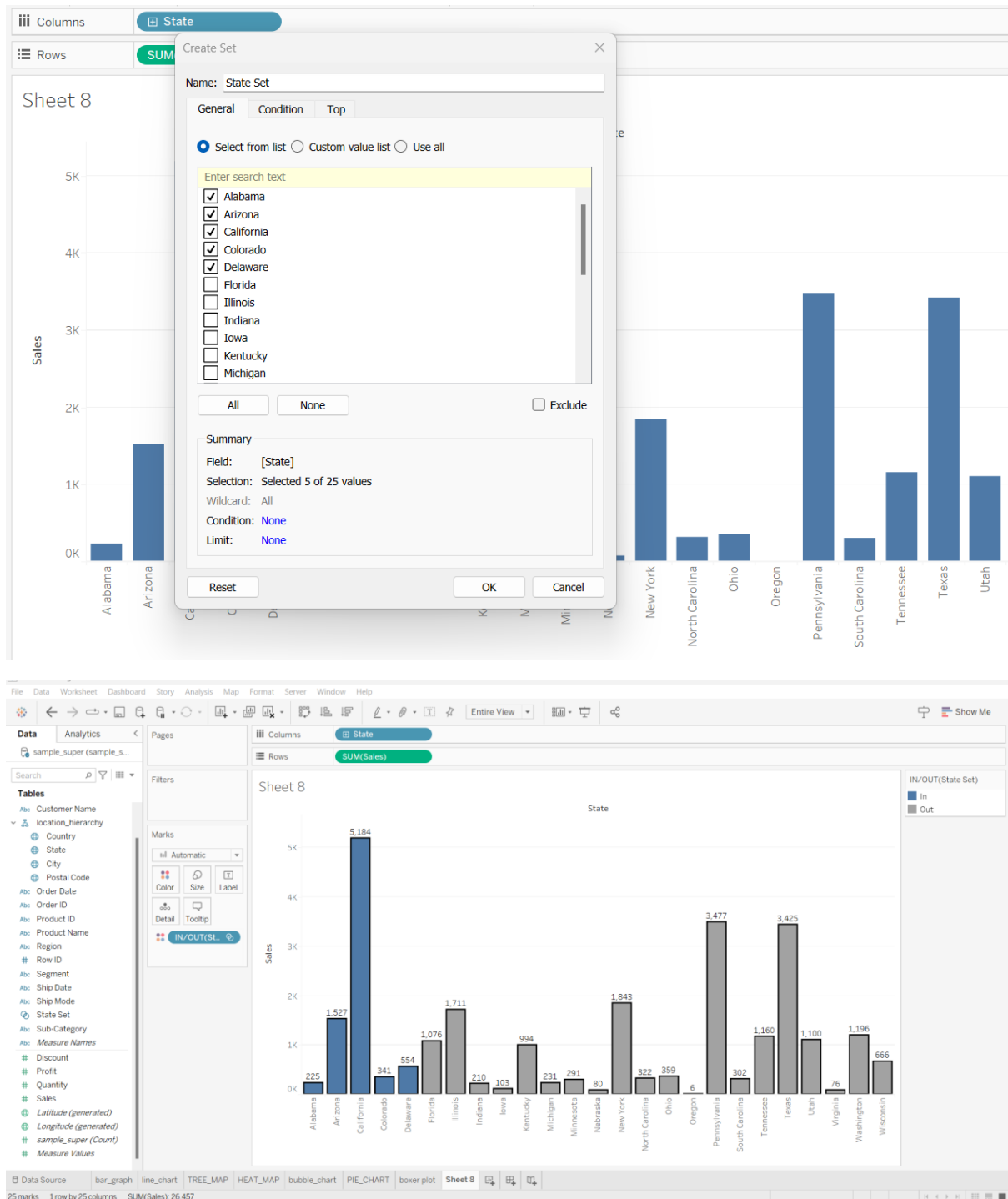
#### Create hierarchy:

I have created a location hierarchy and it consists of country, state, city and postal code as shown below and displayed the bar graph of quantity based on location hierarchy:



## Create a set

I have created a set on first five states and I have displayed those states sales are included and remaining states are out of set as shown below:



## Create a group

here I have created material group and I have included envelopes, paper etc in that group and I displayed the boxier plot based on subcategory sales.

