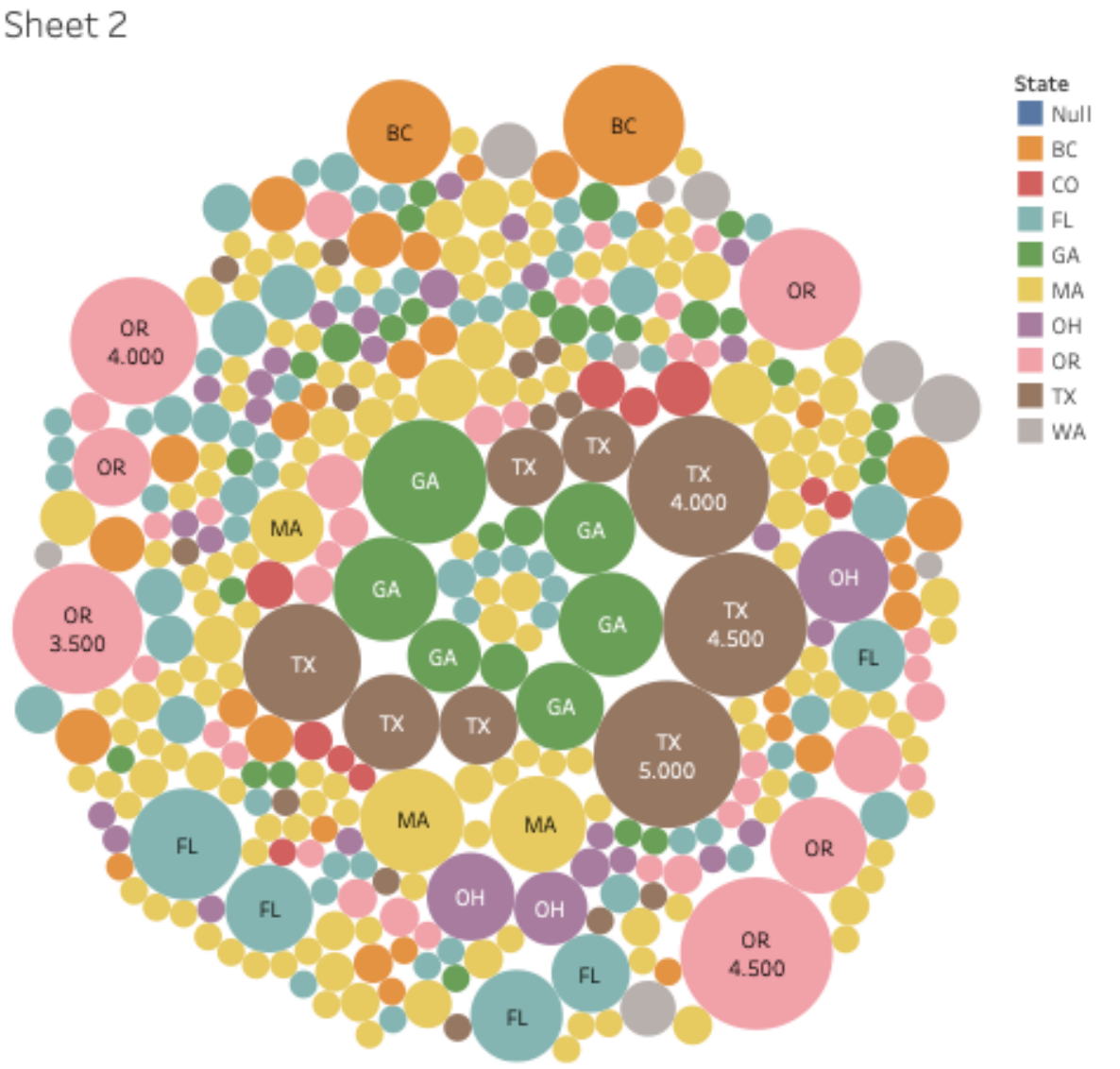
Tableau:

Drag and drop of the data is one of the major advantage of tableauAutomatically taking the sum, count and various of the data when dragged into the rows or columns to fit is makes a difference when compared with matplotlib.Predefined graphs makes more easier which graph to choose and not making it more easier.Automatically detecting the data types and supporting all kinds of data is a feature of Tableau and can be able to map to other data set with union is another more quality of TableauI have seen a lot of the bar graph, line graphs, scatter and maps but not the remaining We can't customize the graph and we need to mold according to the graphs available.It is easy to use and understand the graph as the graph are present just beside it is easy to judge which graph will be better for the data.I feel It is not a friendly tool for the customization it has a set of graphs and the customizing of the other graph are hard.Customizing of the data is one of the plus points in the tableau.

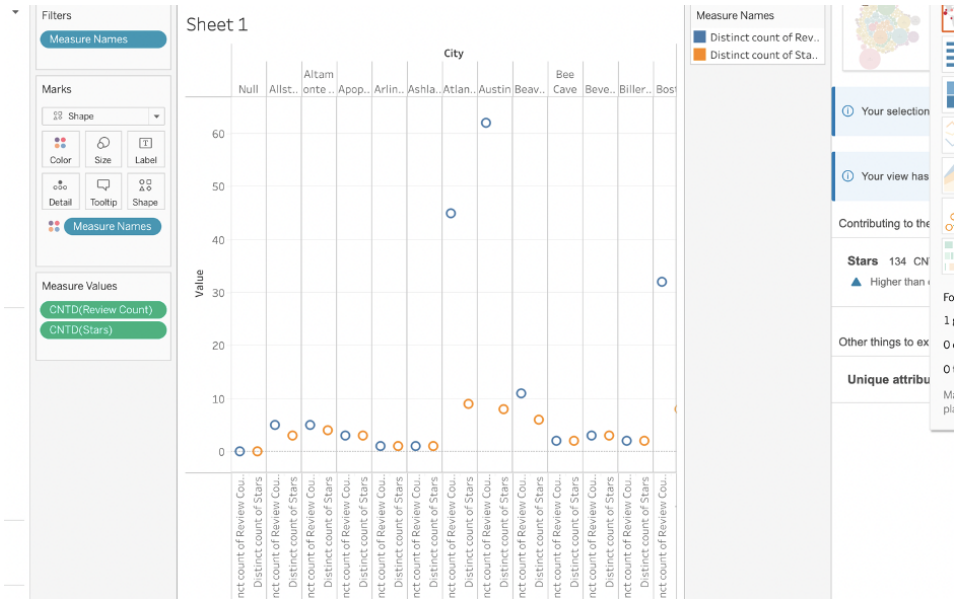
Matplotlib

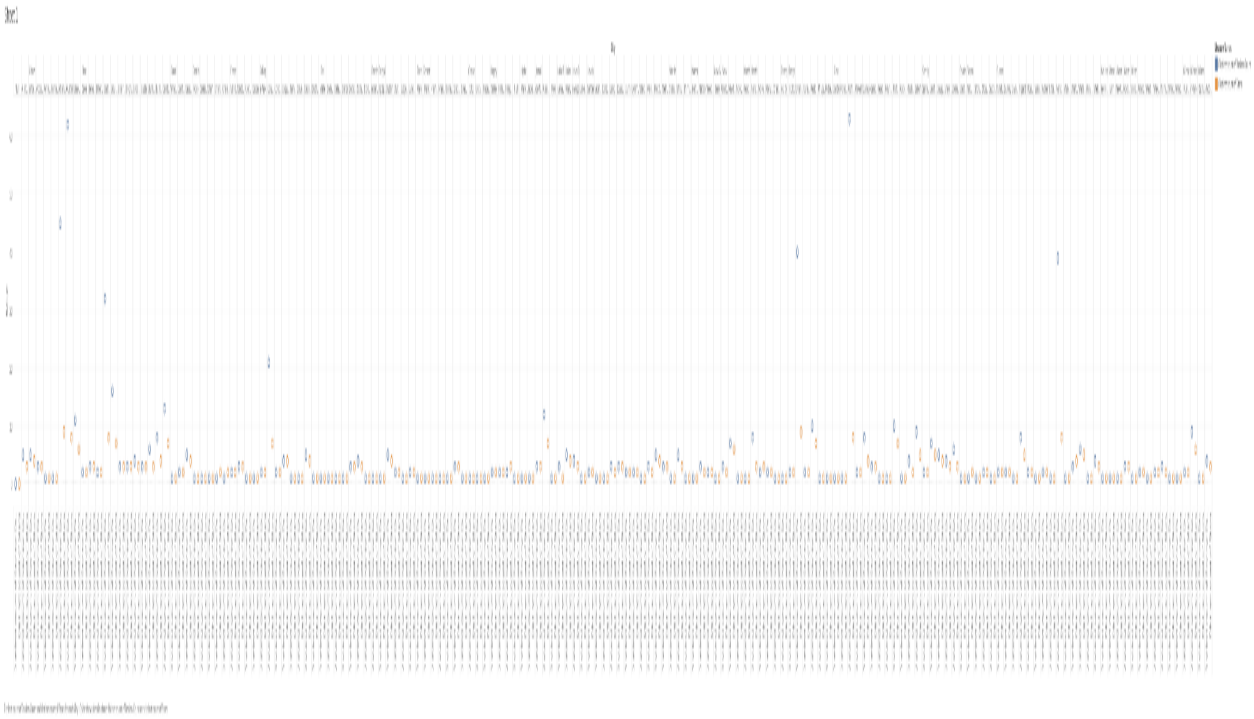
One of the major advantages of matplotlib is it is one of the python libraries where we can connect to any data type we would like.One of the disadvantages regarding this is we have to use visibility or usability with respect to tableau it is a bit harder to find. One can find or make any graph with the help of matplotlib.Not able to detect the data types we have to specify which data type we are using and with the help of the python we can be able to extract the data. I feel matplotlib has more graphs than Tableau as I feel Tableau is restrained with only few plots whereas Matplotlib has various graphs within it. The interface of the graph depends on the graph if it has a lot of elements or the columns the graph that we got might get congested. I feel customization is one of the major positive aspects in matplotlib as there are no restrictions on graphs and charts. We don't have to worry much about the data modelling the adjusts for the graph. As we take the python for the data customization it is a bit hard for the naive programmers to clean the data.

Each has its own advantages and disadvantages with the matplotlib we have more number graphs that can be customizable where as the tableau makes it easier for the huge data modification and easy simple graph with in its range.

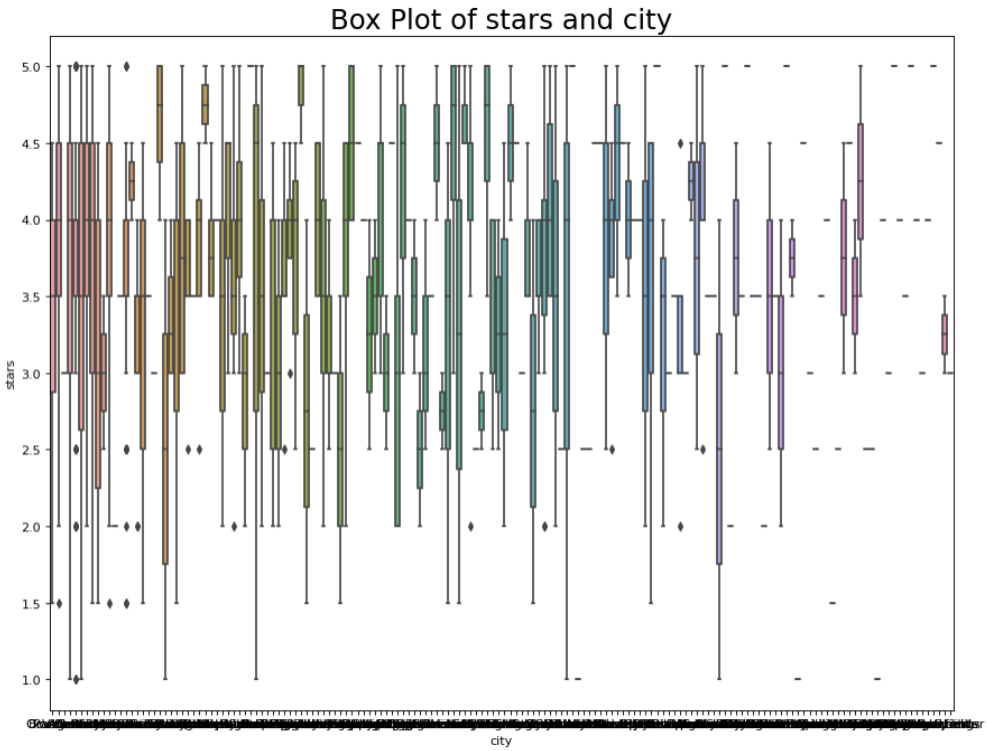


This is the Bubble graph I have visualized using Tableau where I have taken each city and count of the star reviews in each city. The given bubble graph is a part of the Tableau.

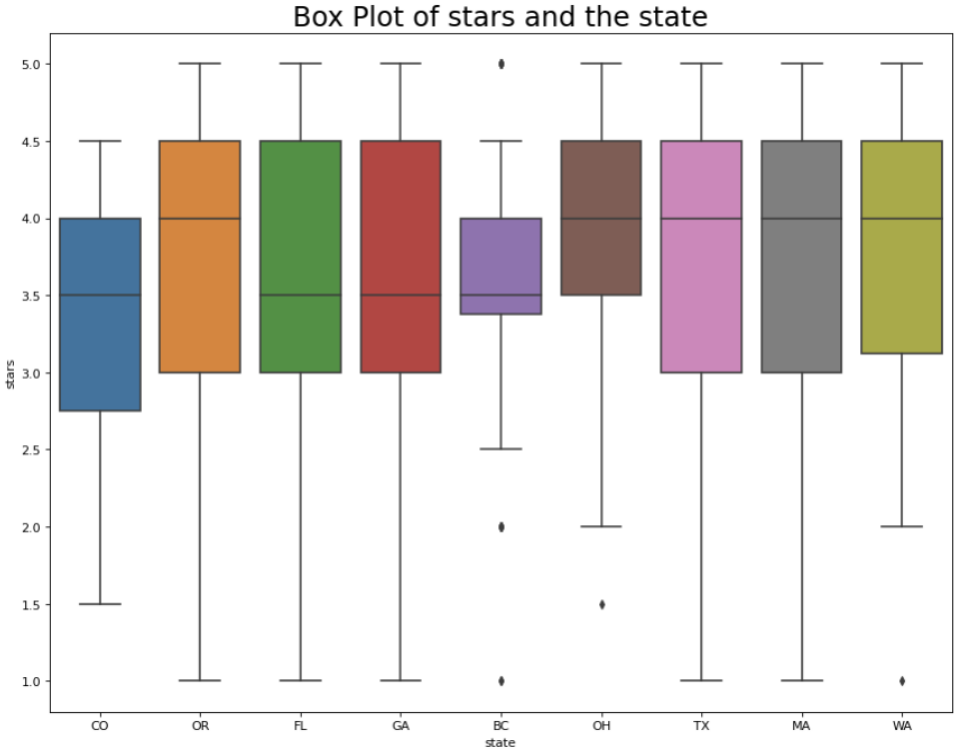


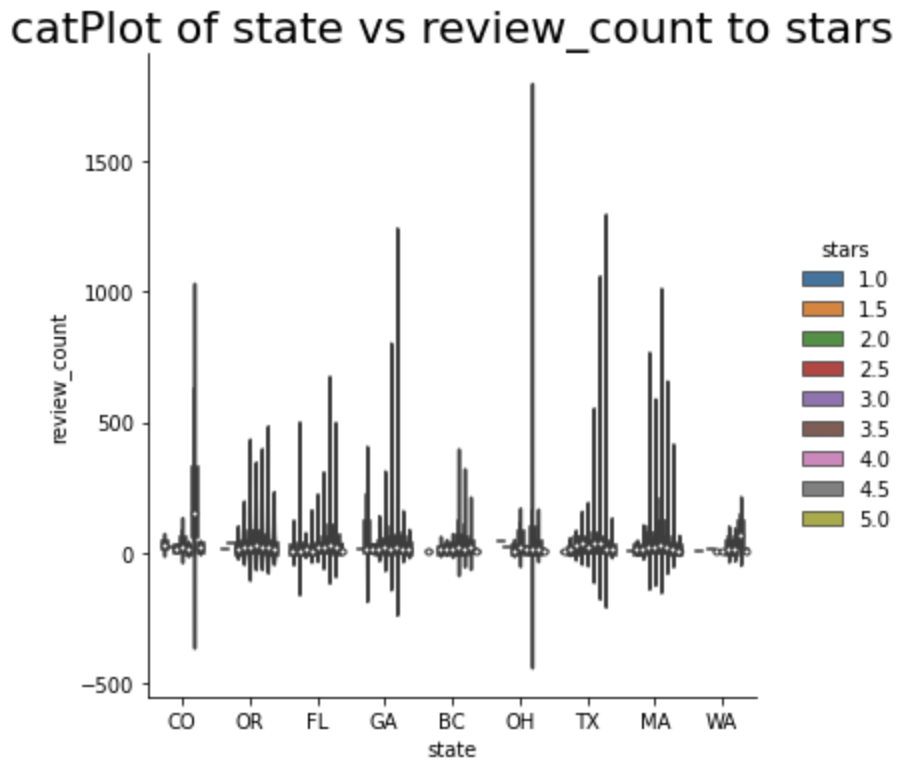


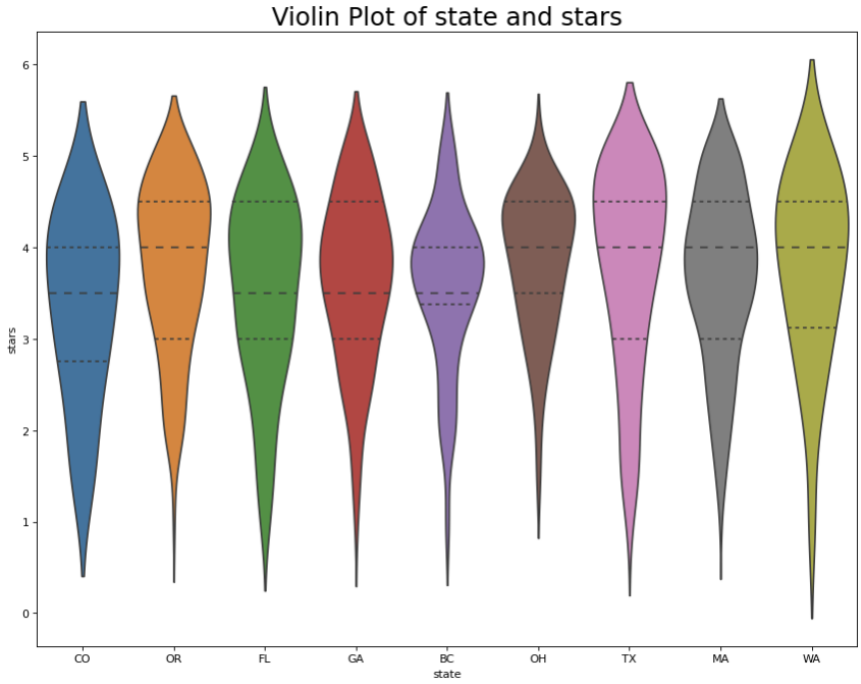
This is the side by side circle graph for the city vs count(stars) and counts(review_count). As the data is huge the when copied the imaged it got compressed.



This is box plot of the stars and city as the city are of the huge number the it got clustered where as when taken for the state to the city the image will be





This is catplot of taken for the state to the review_count to the star according to them. It is checking for both stars. As it is a catplot it take all the violin plot

Where as if you take only with state and stars the violin plot