The housing market has always been in a constant state of change and hard to predict. Using housing data from Zillow, an analysis on sales over the last 10 years can be conducted to see if there can be any identification of states that are More importantly, the analysis can include the trends over time. The problem this analysis will solve is to research the trends of sales throughout time in different cities and states, to see where properties are the highest valued over time and how time has affected the sale prices.

Here we can see a sample of the data and what it looks like.

The first graph shown will be a pie chart. This chart can give an overview of the distribution of States to see which have the most density (sales).

When analyzing this chart, we can see that there are a few states that stick out in terms of size. These are California, Florida, and Michigan.

The next graph that will be created, will be the sales of the first data point, March of 2008. This can be a good starting point to being to understand the changes of price over time.

This graph confirms some of the assumptions seen in the previous plot. This shows that in the month of March in 2008, the sum of total sales are the highest in California, Florida, New Jersey, and Massachusetts.

The next graph will show sales of a more recent year, march of 2020

As expected, we see a rise in almost all states that are reporting data. Now, there are more states that share a similar amount in sales. Next, an stack plot can be created to see the two data sets overlayed