

Project 4 – Data Visualization

Insight 1:

<https://public.tableau.com/profile/khalid.shamim#!/vizhome/USCensusDemographics/StateUnemployment?publish=yes>

The unemployment in each state is shown as a bar chart. From the chart it is seen that Texas has the highest unemployment in the country at 1712, followed by Georgia (1586) and Puerto Rico (1511); whereas District of Columbia had the lowest unemployment at 10.

Insight 2:

<https://public.tableau.com/profile/khalid.shamim#!/vizhome/USCensusDemographics/WorkfromHomeState?publish=yes>

The map shows the distribution of people working from home in each of the states in the country. A filter by each state has also been provided. Sum of women in each state is also shown in the map. Texas has the highest number of people working from home (1007), whereas Delaware has the lowest number of people working from home (13)

Insight 3:

<https://public.tableau.com/profile/khalid.shamim#!/vizhome/USCensusDemographics/IncomeDashboard?publish=yes>

The dashboard shows the income distribution in each of the states, and two scatter plots which show the correlation between average income vs poverty and mean commute time vs carpool users for every state with filter on states.

The income vs poverty plot shows that states which had a higher income had a lower poverty number. Puerto Rico has a lower average income than all the states and a higher poverty rate. Only Texas and Georgia have an average income in the 40-50k bracket with a high poverty rate.

The mean commute time vs carpool users plot shows that most of the states within the average commute time between 20-30 minutes had the number of carpool users ranging till 1000. Texas has the largest number of carpool users with an average commute time of 21.4 minutes, while DC has the lowest number of users at 6 with a higher commute time of ~30 minutes. In some states, a trend can be seen that with the increase in the number of carpool users, the mean commute time decreases which is a positive outcome.