**Visualization 1:**

**What is the distribution of races/ethnicities across different states?**

<https://public.tableau.com/app/profile/asazzam/viz/PopulationByState_16889277567660/Dashboard1>

This dashboard highlights the makeup of the United States population. The map shows the total population of each state. Due to the variation of the colors going from teal to dark blue, we can easily see that the most populated states (dark blue) are California, with a population of 38,421,464, and Texas with 26,538,614. New York and Florida are the next highest, with populations of 19.6 million each.

The dashboard also shows the number of women and men in each state as well as the breakdown of the different races. For the most part, there are slightly more women than men in each state, and the most prevalent race in each state is white.

I chose to keep the map teal/blue and the bar chart a blue color to avoid any unnecessary distraction, and I added orange to the pie chart to add some contrast, so it is easier to see some of the more minor differences.

**Resources:** N/A

**Visualization 2:**

**What is the relationship between income and commute time?**

<https://public.tableau.com/app/profile/asazzam/viz/AverageMeanCommutevsAverageIncomebyState/AverageMeanCommuteAverageIncome?publish=yes>

The scatter plot illustrates the relationship between the average median income per household and the average mean commute. Notable observations include Alaska, with the lowest commute time (11.23) but higher income, and Puerto Rico, which exhibits lowest income but higher commute time. New Jersey, District of Columbia, and Maryland stand out as states with both high income and high commute times. These states are clustered together with an average income of around $70,000 and about a 30-minute average commute.

I added a color filter to add some contrast between the states and used the palette for color blindness. Each individual state can be read upon hovering over a specific plot, but I have also included the state highlighter to aid in finding specific states.

**Resources:** N/A

**Visualization 3:   
  
How does the distribution of employment sectors vary across different states?**

<https://public.tableau.com/app/profile/asazzam/viz/EmploymentSectorsbyState/Dashboard1?publish=yes>  
  
This stacked bar chart shows how the distribution of the different employment sectors vary in each state. While the numbers differ due to population, there is a common theme among the states: The professional sector (people employed in management, business, science, and arts) has the highest number of workers, while construction (people employed in natural resources, construction, and maintenance) has the lowest. The Office, Service, and Production sectors also seem to keep that respective order in each state.

The inclusion of a total population map enhances interactivity and filtering, allowing users to explore employment sector distributions based on population size. The color palette was selected to ensure accessibility for individuals with color blindness.

**Resources:** N/A