

## BAND Project 4 Data Visualization

### Visualization 1: Total Population by States

URL: [Total Population by State | Tableau Public](#)

Chart type: I chose maps with filter on the counties, to show population by state to provide a visual representation of the distribution of population across the United States.

Design: The maps help to highlight geographic patterns and trends in population density and demographic characteristics of different regions.

Finding: California has the largest population (38421454 as total population) among all the US states, while Wyoming (579679 as total population) has the smallest population.

### Visualization 2: Median Income in US by States

URL: [Median Income By States | Tableau Public](#)

Charts type: Packed bubbles, the median income of each state is used to create the visualization.

Design: the objective is to find the US states that has the highest median income. The packed bubbles are more convenient for the visualization.

Finding: The district of Columbia has the highest median income compared to the other states and Puerto Rico with the lowest median income.

### Visualization 3: States most Affected by Child Poverty in the US

URL: [US States Most Affected by Child Poverty | Tableau Public](#)

Chart type and design: The Symbol maps chart is an effective way to visualize data on child poverty rates in each state. It allows viewers to quickly compare the child poverty rates of different states and identify which states are most affected by this issue.

Summary: The sum of total count of child poverty by percentage was used to compare which state was most affected by child poverty. Texas state is the most affected by 7.891% of child poverty and the District of Columbia the least with 0.031% affected.

References: N/A