

Insight 1: Total population in each state and their income, The state that has the best transportation, and the relationship between poverty and unemployment

Tableau link:

<https://public.tableau.com/app/profile/mohamed1153/viz/USCensusDemographicDataproject-story/TotalpopulationandstatesincomeandTransportation>

Summary:

Map visualization shows us an average for the population across the states, as we can see lots of different information when we hover over certain states we can see the name of the state, the avg population, and the percentage of total income.

for instance, California has the highest average total population among the states (662,439), however, it does not have the highest average total income (2.188%).

And Texas does not have the highest average total population it comes with (104,483) and its income is the highest which comes with almost (8%).

And also we can see the best transportation among the states and for better visibility, I chose a bar chart that being said we found that the District of Columbia is the best transportation among the states which comes with a (37.40) average transportation.

And we found the worst state among states from the transportation perspective in Kansas which it's average is (0.22).

Also, we made a visualization to show the relationship between poverty and unemployment and we found the relationship is positive and which means when the unemployment rates increase the poverty rates increase as well.

Design:

I used a map because it needs to represent a "state". Therefore, I thought that the map would be the best image for this purpose. I used a continuous blue color for the state. The darker the blue color, the more population this state has. This type of coloring makes it easy to see if the state has a high/low population density.

Bar chart helps people see and compare differences in values or amounts, so they are perfect for analyzing and explaining the best/worst transportation among the states.

Bubble Charts also help us to compare numbers I used Blue and Red to compare the numbers the darker the red color, the more unemployment this state has, and the darker the blue color the less employment this state has. This type of coloring makes it easy to see if the state has a high/low unemployment rate.

Resources: N/A

Insight 2: Comparison between the highest density of population and the average poverty

Tableau link:

https://public.tableau.com/app/profile/mohamed1153/viz/HighestPopulationDensityAvg_Poverty-Dashboard/Dashboard3?publish=yes

Summary:

For better visibility, I chose a bar chart so we can see which states have the Highest Population Density and which states have the highest average poverty to compare the numbers so that being said we found that California has the Highest Population which comes with (38,421,464) people however we found that the highest average of poverty is Texas which comes with (7.854%) of Total population in taxes

And we found California in poverty average to be (1.654%)

So we found the state that has the highest population numbers doesn't have the highest average poverty, however, we found the second highest population numbers to be the highest in average poverty

Design:

Bar chart helps people see and compare differences in values or amounts, so they are perfect for analyzing and explaining the highest and least population density among the states.

And we used a bar chart again so we can compare differences in values between states in terms of poverty.

Resources: N/A

Insight 3: Highest ethnicity among the highest and least states with a population

Tableau link:

<https://public.tableau.com/app/profile/mohamed1153/viz/HighestPopandLeastpeopleEthnicity-Dashboard/Dashboard2>

Summary:

Map visualization shows us the highest state that has density is California which comes with (38,421,464) and the lowest state that has density is Wyoming which comes with (579,679) And we found that White Ethnicity is the highest in both of the states comes with (55.56) in California and (an Avg. of 87) in Wyoming and Pacific Ethnicity is the least among the two states.

Design:

I used a map because it needs to represent a "state". Therefore, I thought that the map would be the best image for this purpose. I used a continuous blue color for the state. The darker the blue color, the more population this state has. This type of coloring makes it easy to see if the state has a high/low population density.

we used a bar chart again so we can compare differences in values between the highest/lowest population density in terms of Ethnicity which ethnicity has the most people among the two states.

Resources: N/A