

Insight 1:

<https://public.tableau.com/app/profile/moustafa.khalid/viz/CitizensDashboard/Dashboard1?publish=yes>

A map and a bar chart are best suited here as I would like to show the population of citizens for each state along with the subset of counties within that state. We notice that California has the highest number of citizens with 24,280,349 citizens followed by Texas with 16,864,962 citizens while Wyoming has the lowest number of citizens with 430,026 citizens. I added a **state filter** where you click on the state on the map to show the population of counties by this state. Also a brown gradient is used where the darker the colour, the higher the number of citizens in the state.

Insight 2:

https://public.tableau.com/app/profile/moustafa.khalid/viz/IncomebyState_16456473849510/Sheet2?publish=yes

A Bar chart is used here as I would like to show the income status for each state. I ordered the states by income in descending order to show states with the highest income first. We can see that Texas has the highest income with 11,826,682 while the District of Columbia has the lowest income with 70,848. I used a single colour for all the states except Texas where I used red to draw attention to the possible relation between number of citizens on one side, and income, poverty, and unemployment on the other side.

Insight 3:

<https://public.tableau.com/app/profile/moustafa.khalid/viz/CorrelationbetweenPovertyandUnemploymentbyState/Sheet3?publish=yes>

A scatterplot is best suited here as I would like to investigate the relationship between Poverty and unemployment. I added a trendline so that it is easy to see the direction and magnitude of the correlation. I added a state filter so that readers can investigate the relationship between these variables in a specific state to see whether it differs from the national trend. I used a single colour as using different colours for different counties would not serve any purpose as there are hundreds of counties.

Resources:

https://help.tableau.com/current/pro/desktop/en-us/viz_in_tooltip.htm