

US Census Demographic Data

Insight 1

- **Q: Which states have the best transportation? Are there outlier counties affecting the data?**
- **Link:**
https://public.tableau.com/views/USCensusDemographic2015_16587849244180/Transportation?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link
- **Summary:** From this dashboard, we can find that **District of Columbia** is the highest state having avg. % commuting on Transportation after that it's **New Jersey** and **New York**. In the same dashboard it's appeared that the distribution of counties with the % trans. in same state highly different which appeared at most in New York which has around 4 counties having the most % of trans. but other countries had low percent so this affected the avg. % of New York as a state to be in the third place.
- Using of bar charts made each state clearly described and countries distributions too across America declared the total population through and the color grades defined the largest population with the highest color intensity and the less with low color intensity.

Insight 2

- **Q: Do the percentages of Unemployment and avg. Income per Capita in a state relate with the Poverty percentage?**
- **Link:**
https://public.tableau.com/views/Insight2_16594242860130/Income-Unemp - Pov?:language=en-US&:display_count=n&:origin=viz_share_link
- **Summary:** Attached worksheet has declared two of the most important reasons that affected the poverty percentage, first graph at the top of worksheet for the distribution of poverty percentage in all states and the second below graph for the avg. income per capita and the avg. unemployment percentage.

From both graphs we can clearly see that the state had the **highest poverty** percentage is **Puerto Rico** for 49.37% which also had the highest unemployment percentage 19.37% and the **lowest avg. income** per capita 47,675\$.
- Line charts here helped in viewing data over the states, upper graph described the poverty percentage by red color as alert and the lower one for unemployment by a blue line while the avg. income in a green line.

Insight 3

- **Q: How does income and poverty look across America?**
- **Link:**
https://public.tableau.com/views/Insight3_16594246869930/PovertyinStates?:language=en-US&:display_count=n&:origin=viz_share_link
- **Summary:** To conclude the poverty percentage across America, we can build a story as shown to discover different points, starting from the total population for each state by the bar chart to find the **max.** is for **California** after that it's **Texas**, then using map the distribution of the average poverty percentage looked lowest at **Connecticut** 9.40% and the highest at **Puerto Rico** 49.37%, third part in the story for popular reasons which may affect the poverty percentage as discussed before at **Insight 2** next chart is a pie to describe the job categories in Puerto Rico to find that **top** % job is the **Professional** 28.3% which has employees in management, business, science, and arts and the lowest job is **Construction** 11.52% employed in natural resources, construction, and maintenance.
- Each worksheet in the story described the data in a different graph type to keep the steps sequential and answering the question, the bar chart showed the categorical data by viewing the total population in each state with blue color grades then using map was useful for distribution of the poverty level in states by color intensity showing from the max. to min. percent. The third as discussed before while the last worksheet in story is a pie chart about the job categories percentage and color palette to show the categories separated and differences.

Resources:

https://www.kaggle.com/datasets/muonneutrino/us-census-demographic-data?select=acs2015_census_tract_data.csv