

# Project-4

## Build Data Dashboards on US Census Demographic Data

### Insight: 1

[https://public.tableau.com/profile/fahad.munir#!/vizhome/Udacity-DFND-Dashboard-1USCensusData/Avg\\_IncomeandPovertyDashboard?publish=yes](https://public.tableau.com/profile/fahad.munir#!/vizhome/Udacity-DFND-Dashboard-1USCensusData/Avg_IncomeandPovertyDashboard?publish=yes)

The dashboard showing the Average Income and the average poverty rate in different states of USA. We can observe from the bar chart and the map, Puerto Rico is the state where average poverty rate is highest (49.37) and Average Income is highest in New Jersey (\$73,014).

On the other hand, Avg. Poverty is lowest in Connecticut state (10.53) and Avg. Income is lowest in Puerto Rico (\$17,920).

I used both map and bar chart in order to **design** visualization. Map was used to show Avg. Income and Avg. Poverty rate individually and bar chart was used to easily find the insights from the data and compare between both.

### Insight: 2

<https://public.tableau.com/profile/fahad.munir#!/vizhome/Udacity-DFND-Dashboard-1USCensusData/ChildPovertyRatebyState>

The bar chart showing the percentage of total child poverty rate in different states of USA. Here we can see, Texas is leading the way with 7.938% of child under poverty line followed by Georgia with 6.488%.

On the other hand, District of Columbia has the lowest poverty rate of 0.034% among all the states.

In design thinking, bar chart fits best in this regard.

### Insight: 3

<https://public.tableau.com/profile/fahad.munir#!/vizhome/Udacity-DFND-Dashboard-1USCensusData/PopulationbyEthnicity?publish=yes>

In this visualization, we can see the people of different ethnicity living inside USA and their total percentage across the states.

**Hispanic's** has the highest percentage in Texas with 24.18%, **Native Americans** have highest percentage in South Dakota with 16.27%. Highest **Asian** living region is California with percentage of 10.11%. Highest **Black** living region is Georgia with the percentage of 15.95%. 6% of **Whites** lives in Texas, which is the highest of all the regions.

I have used side by side bar chart in this visualization with different color perfectly representing different ethnicity of people around the country. Color Blind palette was used to make sure all the population have access to the insight.