

# BUILD DATA DASBOARDS PROJECT

## US Census Demographic Data

This data came from Kaggle database, it contains US census data from year 2015. For this project acs2015-county-data file provided by Udacity was used no additional sources were used in this project.

### Which state has the highest income?

[https://public.tableau.com/app/profile/marketa6721/viz/Averageincomeperstate\\_16285805640060/Dashboard2?publish=yes](https://public.tableau.com/app/profile/marketa6721/viz/Averageincomeperstate_16285805640060/Dashboard2?publish=yes)

As it can be seen District of Columbia has the highest income per capita which correlate with the fact that this state houses the capital of USA, therefore higher paying jobs are found there. The lowest income is in the state of Puerto Rico which also correlate with complicated political situations in which USA is having Puerto Rico as its member state. The second dashboard is showing map of the member state to show if there is geographical correlation with income and position of the state in USA. There was no direct correlation with states geographical location to average income per capita.

In this dashboard there can be found two sheets showing the average income per capita per state, in first one it can be seen which state has the highest income per capita and it can be easily visible the state which has the lowest. The graphical representation was chosen to first easily determine which state has the highest income and then being able to refer to geographical location of this state on the map.

### Is there correlation with number of people with citizenship to number of minority people?

<https://public.tableau.com/app/profile/marketa6721/viz/Populationscomparison/Dashboard1>

In the first sheet it can be visible that state of California has the most people however it doesn't have the most people with citizenship. Throughout the graph there is visible no trend which dictates that higher population has higher number of citizens. It can be said that overall US population has at least sixty percent of people with citizenship. The second sheet is map where it can be seen geographical distribution of minorities, it is visible that state of California has the greatest number of minorities in the whole USA. It can be seen from previous sheet that California has the second highest population in US and its citizenship percentage is not as high, in case of California there is correlation between citizenship and minorities, the second state with highest number of minorities in Texas and has similar trend as California, higher population with lower number of citizenships with higher number of minorities presented. However, this trend is not presented in all states.

This dashboard has two sheets showing number of citizens compared to the total population of the whole state and second sheet showing number of minorities residing in each state. First graph was chosen as good representation where it can be seen states with great number of people and color coded to amount of people with citizenship, the second map was chosen as good geographical representation of minorities which might be more relevant considering migration of different minorities groups.

### **Is there correlation between median income and child poverty?**

<https://public.tableau.com/app/profile/marketa6721/viz/Childrenpovertycomparedtoincome/Childreninpoverty?publish=yes>

The graph can show us that there is visible correlation between child poverty and income, with lowest income and high child poverty there is visible state of Puerto Rico and with least number of children in poverty and medium median income North Dakota. However, after median income goes over value of 60K there is no visible improvement of child poverty numbers. Interestingly District of Columbia is acting as outlier with one of the highest median income the child poverty numbers are higher compared to for example New Jersey.

In this dashboard correlation between child poverty and income was investigated. Size of the marker also shows income per capita, with higher income bigger marker of the state. This graph design was chosen to easily see relationship between children in poverty and median income.