

## Tableau project:

<https://public.tableau.com/app/profile/bassant4481/viz/UScensusdemographicdatadashboard/Censusdemographicdashboard>

### Insight 1:

Which states has the highest production in average, and how the poverty spreading?

From the bar chart, we can see that **Indiana** is the top state in production, with minimal average of poverty, almost 13.5

Resources: N/A

Design: I chose the bar chart to determine easily the values of production and poverty indicated by the length and color of bars, the darker the color, the higher is the poverty in state, the longer the bar, the greater is the production, taking into the consideration the colorblind people and used Orange to Blue diverging.

### Insight 2:

What is the relation between the income and poverty among the states?

It's noticeable that **Puerto Rico** is oddly enough to shape an outlier in comparison with the data in our visual, and if we look closely, it's becoming logical because it has the highest avg. of poverty comparing to its income among the other states.

"Reference lines" resource: [https://help.tableau.com/current/pro/desktop/en-us/reference\\_lines.htm](https://help.tableau.com/current/pro/desktop/en-us/reference_lines.htm)

Design: I used scatter plot to see where the most population of each state falls based on average of poverty and avg. of income, and if there is an odd point to this reference lines. Using only blue is the perfect fit for colorblind people.

### Insight 3:

How does level of poverty among the states shape on the map?

On Map, it's obviously that **Mexico** has the highest poverty among the states without regard of the income.

Resources: N/A

Design: I used the map to see widely the state along with its percentage of poverty compared to others, with the shades of blue to determine, the darker the blue color, the more is the percentage of poverty. This type of coloring makes it easier to spot which states have high/low percent.

## Insight 4:

### Which state has highest poverty in general and child poverty in specific?

Again, **Puerto Rico** has the highest for both poverty and child poverty.

Resources: N/A

Design: I used the map to see widely the state along with both factors of poverty and child poverty for more clarification as complementary step of the previous map, with the shades of Orange to Red to determine, the darker the red color, the more is the average of poverty, and the larger is the plot, the higher is the child poverty average.

## Insight 5:

### Is there any relationship between the poverty and the race (Black, White, Asian)?

Here, we can notice that poverty range has strong positive relationship with Black people, while the Asian and White people have almost negative relationship with poverty.

Resources: N/A

Design: I used scatter plot to see where the most (Asian/ Black/ White) population of each state falls based on average of poverty and the trendline to defined the relation between each race and the poverty of the state. Difference in color for each chart would make it easier for the reader for each Dual Axis.

## Insight 6:

### What is the correlation between the unemployment and poverty?

**Puerto Rico**, has the highest strong positive relationship between the unemployment and poverty. With avg in unemployment almost 19.

Resources: N/A

Design: I used scatter plot with the trendline of spread data, to state clearly the odds - if any - and relationships between both poverty and unemployment.

## Insight 7:

### In general, which state shall we concern in poverty?

This dashboard actually gives us the answer without any doubt that **Puerto Rico** deserves our concern for study and taking action against poverty.

Resources: N/A

Design: Dashboard chosen based on an emphasized answer of charts that proves that **Puerto Rico** is always odd.