US Census Demographic Data Project

Insight 1

Dashboard 1

https://public.tableau.com/authoring/Dashboard_USCensusDemographicData/Dashboard1#1

In this dashboard I answer 2 questions talking about transportation and income that we have filter to change between coastal states and others, and another filter for states, I start to discuss these questions as follow:

Which states have the best transportation?

From this map we can see New York state has the best transportation that has the most number of transit (402 transits), Virginia (203 transits), after that California (162 transits). We found the worst transportation in Delaware (6 transits).

My indication here to determine the best transportation is transit that I consider it the best expression of it, when mean commute may affect by population and the area of the state.

We have here outlier counties affecting the data that we find most of the values are low, but because of few counties have high values like kings, Queens, Bronx, Richmond, and New York counties.

How does income and poverty look across America?

In the second sheet we can see the relation between income and poverty, at the same time I put more factor like construction, child poverty, and coast states.

We notes Texas state has the most income 11826682 $, construction 4069 employee, poverty 4358 men under poverty, and child poverty 6179 children under poverty. Texas is one of coastal states,

We note here coastal states have the most income.

The least income is District of Colombia that its income 70848 $, poverty 18 men under poverty, child poverty 27 children under poverty, where not belong to coastal states.

Insight 2

https://public.tableau.com/authoring/USCensusDemographicData_USprofessions/Sheet3#1

What is the distribution of professions in US?

This is the distribution of population professions in US that indicate the number of the different types of professions that we find private work is number one by 238986 men, and the last one is family work by 928 families.

Insight 3

https://public.tableau.com/authoring/USCensusDemographicData_menwomen/Sheet4#1

What the distribution of men and women over US in each state?

Here we can correlate the number of men versus women in each state. I put here filter for all variables that I want correlate, I can use filter to correlate the origin of US citizen in each state. In California the number of men 19087135 men and number of women 19334329 women that notes the number of women is slightly increasing more than men. If we check all states we find the number of women is more than number of men but by slightly increasing.

Design

About dashboard I use 2 sheets and fit available space to be clear while displaying and getting all possible data.

Here I used colors between blue and light blue that we can see this one clearly in first **map I used a Map because I had to plot geographical data --- "States". So I thought a Map would be the best visual for this purpose**. in dashboard that high values with dark blue and decrease gradually to get light blue where I get the state that has the best transportation by dark blue, in second sheet in **dashboard I used scatter plot with colorblind-friendly to distinguish states that the best mark here is color mark, I used scatter plot because of I found relation between one dimension variable and more than 3 measure variables that found scatter plot is the best way to display all information by good way,** when I used shape for coastal states group (circle) and (square) for other states.

About color in the first before first review I used scale color between blue and orange for map that recommended but when I got review found a lot of brown colors in the map, so I changed to blue scale.

For scatter plot also I used a lot of green, brown, and red that I worked with default colors, but when I got review to change I searched for good marine palette.

In third sheet in insight 2 **I used horizontal bars to display all professions to appear bar beside bar to be easy for eyes to compare and get the information, also this type of plot good for one dimension variable and more than one measure variable** I used blue color.

In fourth sheet in insight 3 I used stacked bars by light blue and blue, the purpose of this plot to compare between men and women in each state, **so I used one dimensional variable with 2 measured variable, so I found this plot is easy for comparing, where I did filter for the rest measure variable to let readers able to change variable for comparing any more information like origin of population…etc. So found stack bar is the best plot for this purpose.**

In the first also used pale brown and brown. After getting review I changed into good blue palette.

Resources: N/A