Project 4:

US Census Demographic Data

Insight 1

https://public.tableau.com/views/BestTransportation_16638547148230/BestTransportation?:language=en-GB&:display_count=n&:origin=viz_share_link

Summary

From the map, we can see that the state of Texas can be called the best transportation because it has the highest average number of drivers compared to the state's estimated population (4,386), followed by Nebraska (2,645). Count_transportation is obtained from the sum of Mean Commute, Drive, Other Transport, Transit, then subtracted by Walk. Then Population_estimate is obtained from the sum of Total Pop with Public Work, then subtracted by Family Work and Work At Home.

Design

The bubble chart used here is more suitable to compensate for the existing bubble shape on the map. Then calculate the division between transportation and population using a horizontal bar to see the order from the largest to the smallest. The map uses a variety of colors which indicate that it consists of many states.

Resources

https://www.census.gov/topics/employment/commuting/guidance/calculations.html

https://data.austintexas.gov/stories/s/M-A-1-Percent-split-of-modes-based-on-commute-to-w/hm3r-8jfy/

https://www.urban.org/features/unequal-commute

Insight 2

https://public.tableau.com/views/IncomePoverty_16638527315180/IncomePoverty?:language=en-GB&:display_count=n&:origin=viz_share_link

Summary

From the map, it can be seen that Texas is the state that has the most income (11 million) with a total poverty of 4,330. The second place is Virginia with an income of 7 million with a total poverty of 1,991. In the last ranking, the District of Columbia has an income of 70 thousand with a poverty number of 18.

Design

Box and Whisker plots are used here because they show details in the lower and upper quartiles of each income. This is considered to show each country of the state. Then the map here is used to show the poverty of each state. For the map use a mix of gold and purple to look elegant.

Resources

N/A

Insight 3

https://public.tableau.com/views/GDPbasedonTotalPopulationUnemploymentRate/GDPbasedonTotalPopulationUnemploymentRate?:language=en-GB&:display_count=n&:origin=viz_share_link

Summary

From the map, it can be seen that California has the largest population compared to other states (38 million). But California did not have the highest GDP (1 million), while the unemployment rate was 5.74. For the highest GDP is occupied by the state of Texas (5 million) with a total population of 26 million, but has the highest unemployment rate (73.6). For the lowest GDP in the District of Columbia with 47 thousand figures. Then the population is 647 thousand, while the unemployment rate is 0.

Design

A map and a few horizontal bars are combined here to provide easy-to-understand insights. The blue gradation shows the state the more GDP it is in.

Resources

https://www.rba.gov.au/education/resources/explainers/unemployment-its-measurement-and-types.html

https://opened.cuny.edu/courseware/module/522/student/?task=3