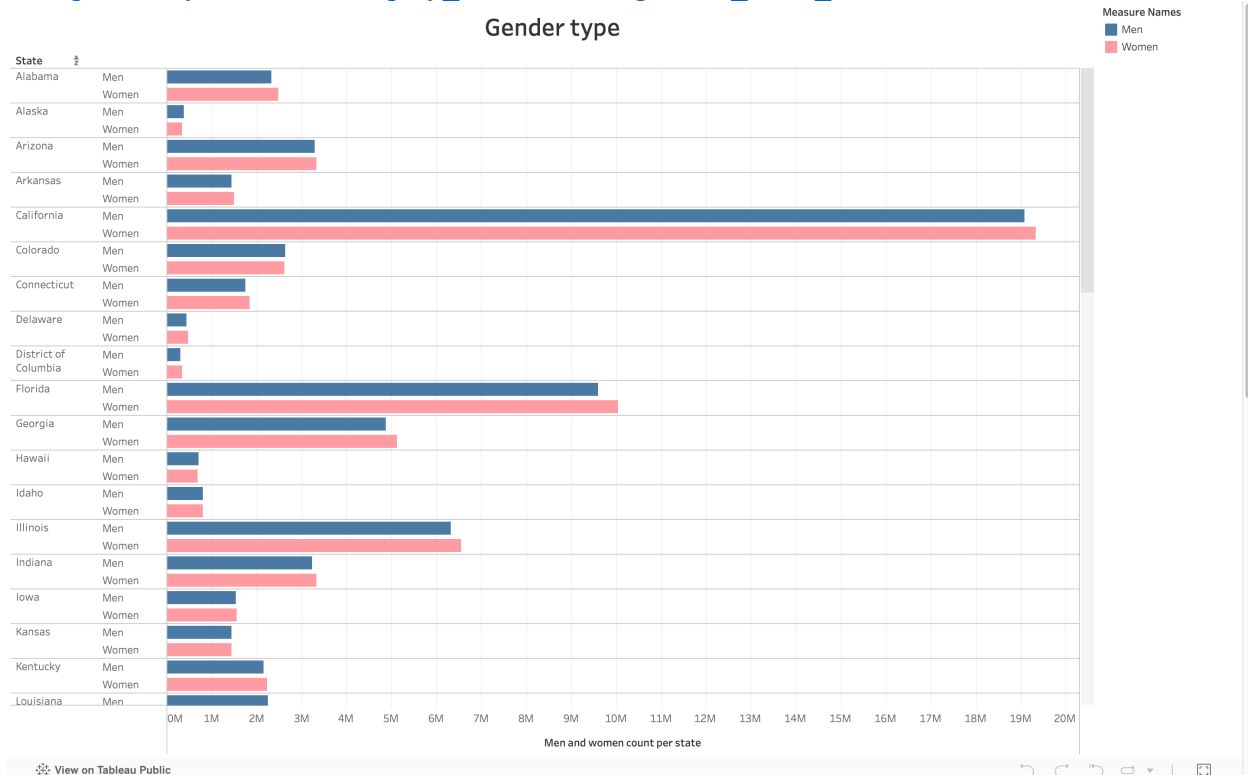


Business Analytics Tableau project

Insight 1: What Are the Gender Ratios for Each State?

Link

https://public.tableau.com/views/Gendertype/Sheet1?:language=en-US&publish=yes&:sid=&:display_count=n&:origin=viz_share_link



Summary

In this sheet, we observe the gender ratio for men and women in each state. The data indicates which gender has a higher percentage in each state.

California has the highest population, and the gender ratio is nearly equal, with women slightly outnumbering men by a small margin.

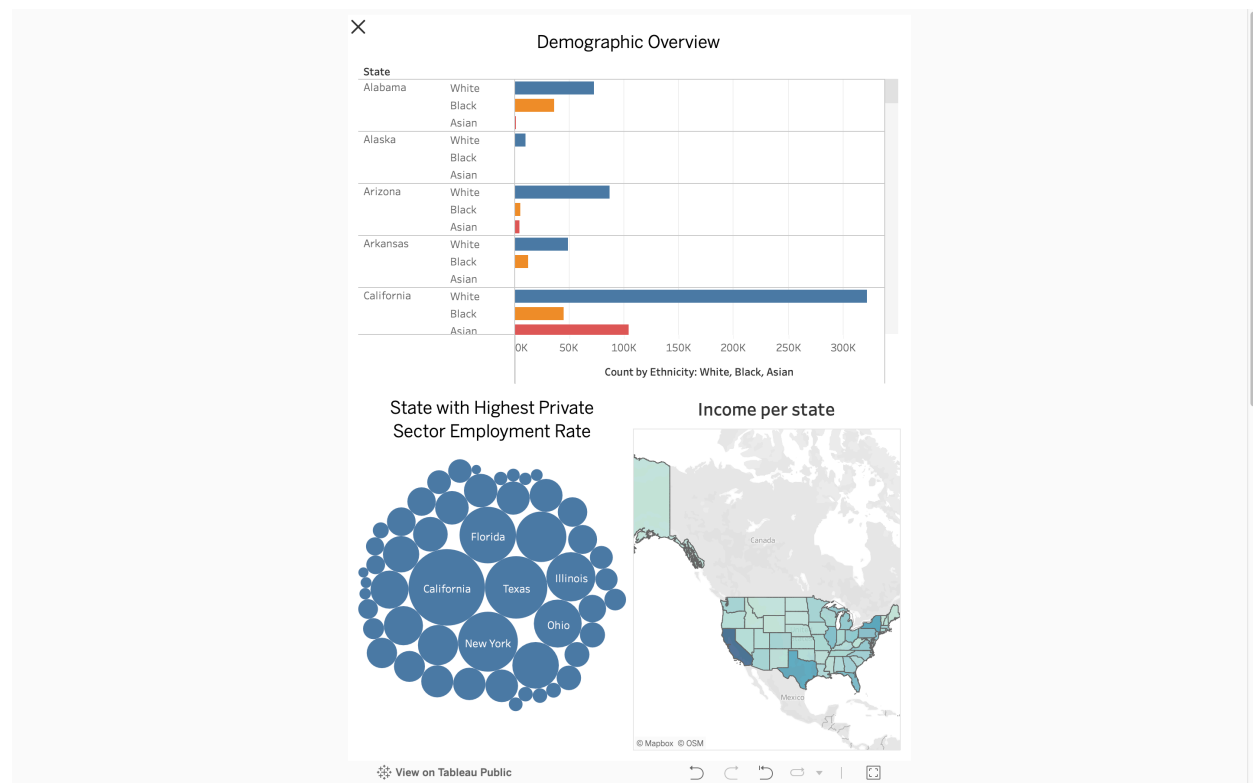
Design

I chose the bar chart format because it is ideal for comparing two sides. In this case, we are comparing the gender ratios of men and women across different states. The bar chart allows for a clear and straightforward comparison of the number of men and women in each state, making it easy to see which gender has a higher percentage in each state. Additionally, bar charts are effective in visualizing categorical data, such as the gender distribution in different states, providing an intuitive understanding of the data at a glance. This format also allows us to easily spot trends and differences in gender distribution across all states.

Insight 2: What is the Demographic Range, and Which State Has the Highest Income and Private Sector Employment?

Link

https://public.tableau.com/shared/FJY8FFPMN?:display_count=n&:origin=viz_share_link



Summary

Upon examining this graph, we observe the demographic breakdown for each state into three classifications: White, Black, and Asian. The percentages for each demographic per state are as follows:

- Highest White Percentage: CA, FL, NY
- Highest Black Percentage: FL, GA, NY
- Highest Asian Percentage: CA, NY, TX

Additionally, we see two more graphs below: one showing income per state and another illustrating the percentage of private work employment. It is well known that private work jobs significantly boost a state's economy. Consequently, we see that CA, TX, and NY have the highest incomes.

Regarding private work employment, the states with the highest percentages are:

- CA - TX - NY - FL - IL - OH

Design

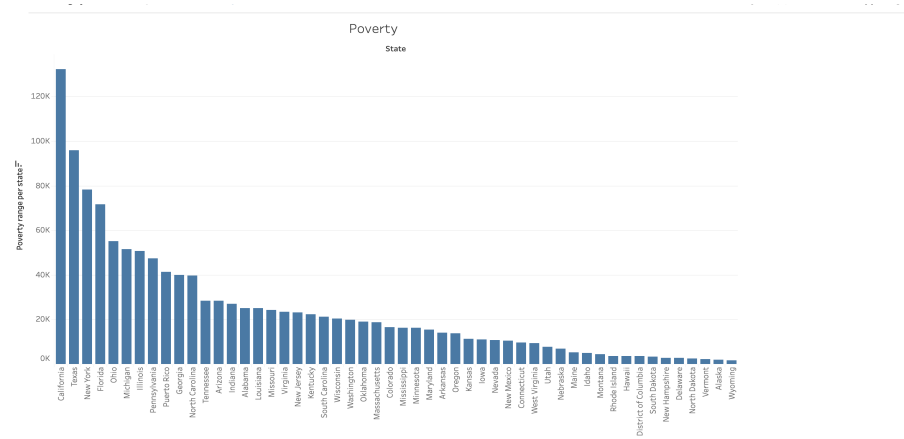
A map chart was selected to display all the states, using darker shades to represent higher income levels for each state. For instance, California appears in a very dark color, indicating that it is one of the states with the highest income levels in the United States.

Additionally, a bubble graph was used to identify the states with the most private work. The size of the bubbles indicates the extent of private work, highlighting the five states with the highest levels of private employment in America.

Insight 3: what happen with poverty for each state and county?

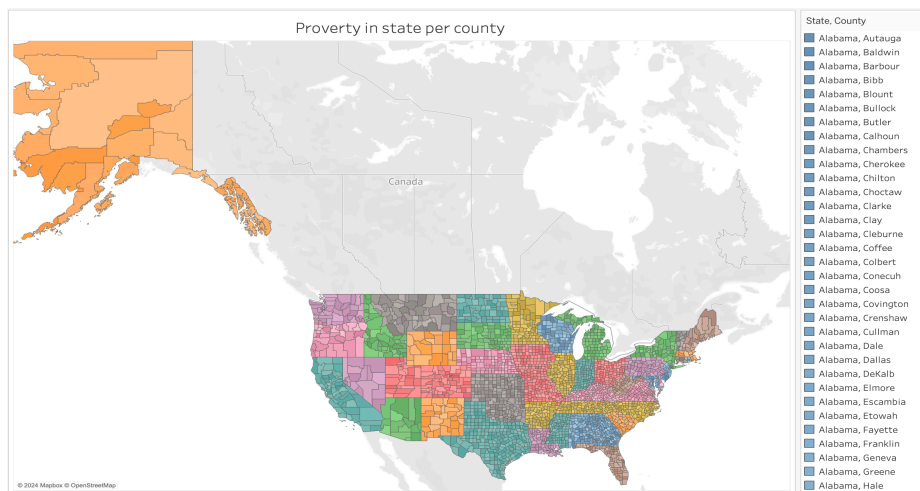
Link 1:

https://public.tableau.com/views/Povertyperstate_17198424982660/Sheet8?:language=en-US&publish=yes&:sid=&:display_count=n&:origin=viz_share_link



Link 2:

<https://public.tableau.com/views/ProvertyperCounty/Sheet5?:language=en-US&publish=yes&:sid=&:display count=n&:origin=viz share link>



Summary

In this graphical representation, poverty rates across the United States are depicted on a state-by-state basis. It is evident that some states, such as Wyoming, North Dakota, and South Dakota, exhibit lower poverty rates, while larger states like California, Texas, and New York show increasing trends in poverty rates.

Furthermore, the detailed mapping provided in another chart offers precise data, illustrating poverty rates for each city within every state. These datasets and graphical representations are crucial in efforts to mitigate and combat poverty levels, facilitating community efforts to support those in need within local societies.

Design

The two visualizations, a map and a bar chart, were chosen for their distinct capabilities.

The map provides a localized view of poverty levels within each state, highlighting the cities or regions with the highest poverty rates. This can aid local communities in directing assistance and initiating community-driven initiatives to alleviate poverty within those areas.

In contrast, the bar chart offers a comparative analysis of poverty rates across states, presenting a clear ranking from highest to lowest or vice versa. This visualization enhances understanding of the states most affected by poverty, facilitating targeted interventions and policy decisions aimed at reducing poverty levels nationwide.

Additional sheets were also created

1. <https://public.tableau.com/app/profile/mohammed.alqarni1194/viz/TransitOverview/Sheet3>
2. <https://public.tableau.com/app/profile/mohammed.alqarni1194/viz/DriveOverview/Sheet3>
3. <https://public.tableau.com/app/profile/mohammed.alqarni1194/viz/WalkOverview/Sheet3>
4. <https://public.tableau.com/app/profile/mohammed.alqarni1194/viz/CommonTransportationModesOverview/Sheet3>
5. <https://public.tableau.com/app/profile/mohammed.alqarni1194/viz/StateCitizensandEmploymentStatus/Sheet4>
6. https://public.tableau.com/app/profile/mohammed.alqarni1194/viz/Story1_17197881624300/Story1

Resource

N/A

Link

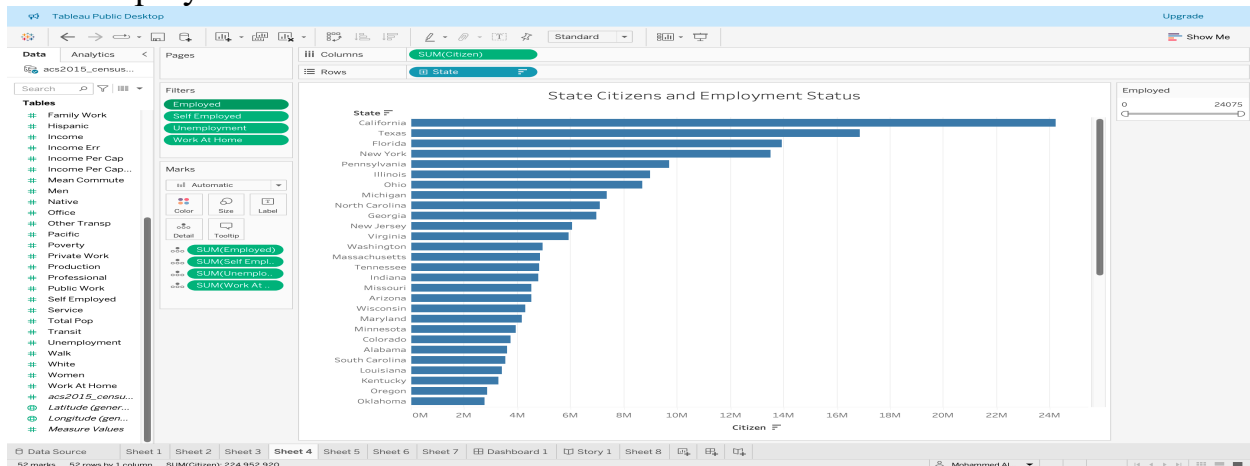
https://public.tableau.com/views/statecitizensandEmploymentstatuswithfilterforeac_hstatus/Sheet4?:language=en-US&:sid=&:display_count=n&:origin=viz_share_link

This a sheet I worked on before and I applied the filter on it

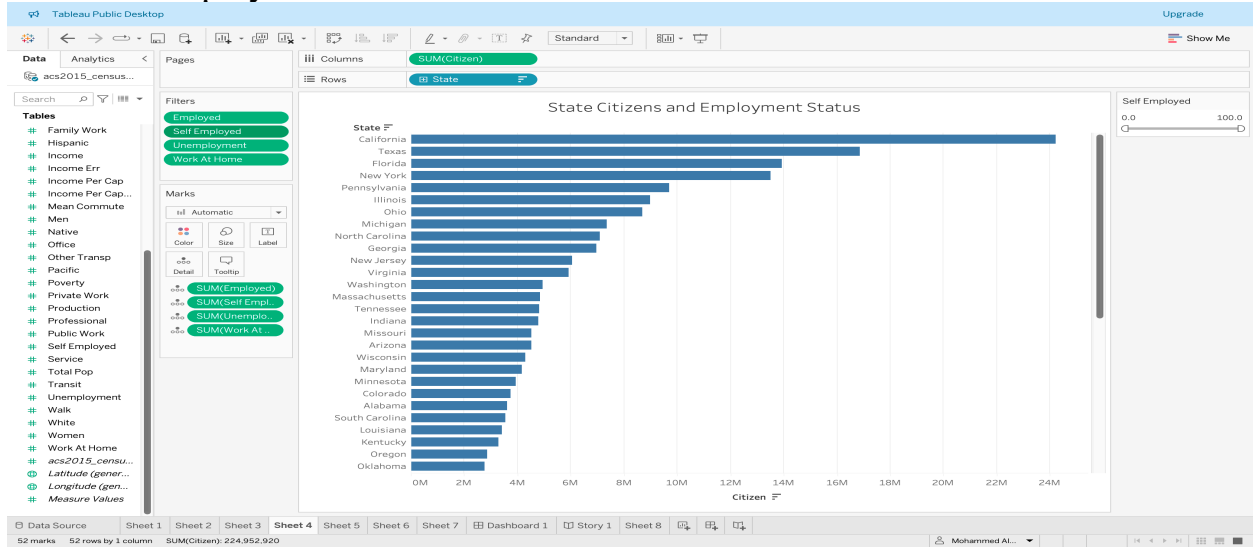
Without any filter



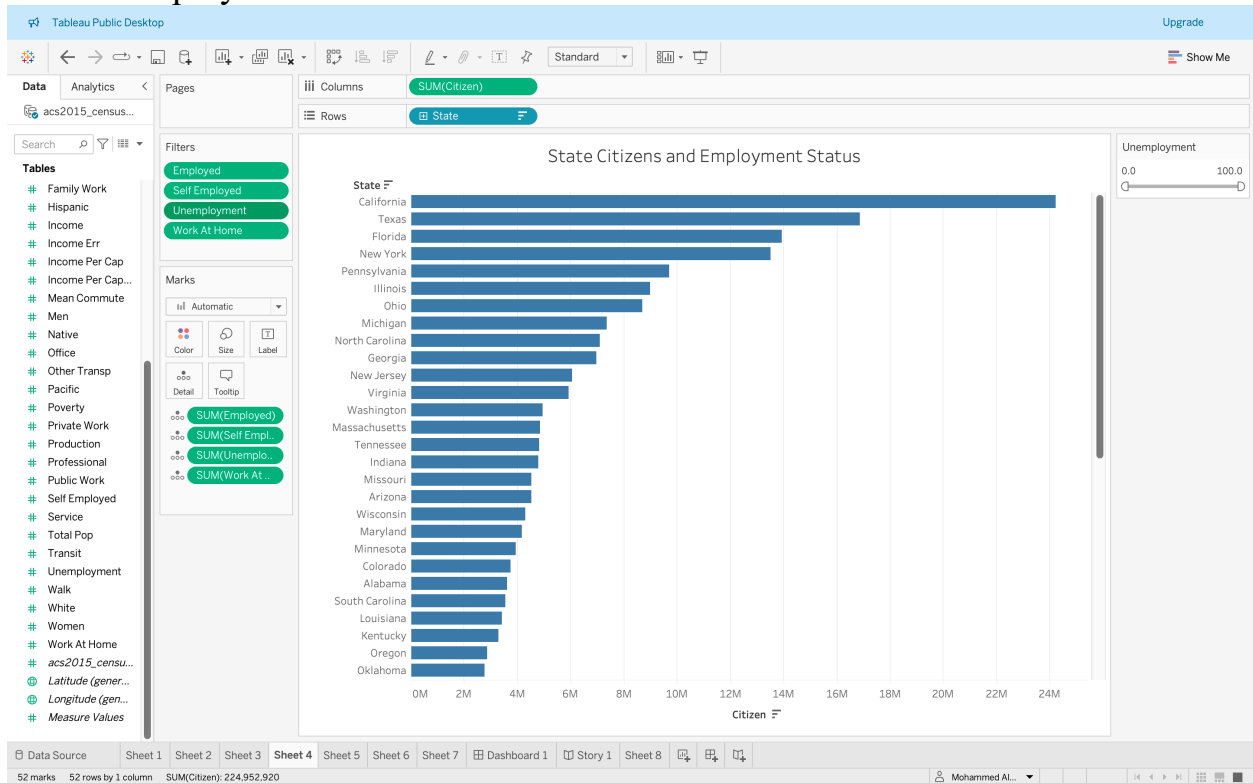
With employed filter



With self-employed filter



With unemployment filter



With work at home filter

