Insight one: Population under Poverty in each State

Link to tableau public:
https://public.tableau.com/profile/nisrein#!/vizhome/book_final_Project/PopulationofPovertyforEachState

Summary: From the visualization, it can be seen that California had the largest number of population under poverty with 6.26 million though it did not have the largest percentage for poverty of 16.67%. But due to the population of california of 38 Million, it had the largest population under poverty. Similarly the lowest poverty number of population under poverty was in Wyoming state with around 67000 population under poverty, poverty percentage of 11.69% and an overall population of 579,679.
The highest average poverty was in Puerto Rico state with 49.5 % and a population of 3.5 Million. The lowest poverty percentage was in Connecticut state with a population of 3.59 Million.
Design: The number of population under poverty in each state was measured by multiplying the total population in the state by the poverty percentage in the state. I used a map plot to show for each state the colored distribution of population under poverty. I added two filters one for poverty rate and another for the population under poverty. This was to make it easier to find the different states poverty ranges and different population under poverty.

Insight Two: Understanding Poverty
Link to tableau public:
https://public.tableau.com/profile/nisrein#!/vizhome/book_final_Project/UnderstandingPoverty

Summary: Here we are trying to understand the poverty across different states using two metrics the unemployment and income percentage. So first from the scatter plot of the average Poverty vs Average unemployment we can see the positive correlation between the two metrics. With the highest poverty and unemployment rates for Puerto Rico state with poverty of 49.5 % and unemployment percentage of 19.37. The lowest was for North Dakota state with poverty of 11.42% and 2.68 unemployment percentage.
Observing the negative correlation between the poverty and income we can see how increased income corresponds to lower average poverty in states. Here also Puerto Rico state has the lowest income and the highest average poverty.
Design: scatter plot for the average poverty versus avg unemployment rate and using the state as a detail for the plot in order to see the trend and correlation between these two metrics. The second scatter plot for the average poverty versus avg income rate and using the state as a detail for the plot in order to see the trend and correlation between these two metrics. Along with 2 dashboards with one total population and other for average poverty for each state sorted. I added all of these sheets into a dashboard.

Insight Three: State Stats
Link to tableau public:
https://public.tableau.com/profile/nisrein#!/vizhome/book_final_Project/StateStatsDashBoard

Summary: Here we are trying to look into state counties and the different authenticity distribution. Looking into Puerto Rico state we can that it has 99% hispanic and 0.67% white population when comparing this to Connecticut state that had the lowest poverty rate it has a majority of 76% white population compared to other authenticity groups.

Design: A dashboard for 3 sheets. All the sheets use the state filter to provide this state information. The first sheet contained the state states summary using the measurements in the sheets and adding the asian, black, hispanic, white and native population by creating a calculated field by multiplying the percentage of each authentic group by the total population in the state to measure the population and using the filter it gives the updated number for each state. The second sheet contained the percentage of each authentic group in the selected state in the filter. This plot was created by using the bar plot and the measured field authentic percentage and the total population. The last figure contains the state county map colored by the poverty rate in each county.

Final Story:
Link to tableau public:
https://public.tableau.com/profile/nisrein#!/vizhome/book_final_Project/UnderstandingUSpoverty