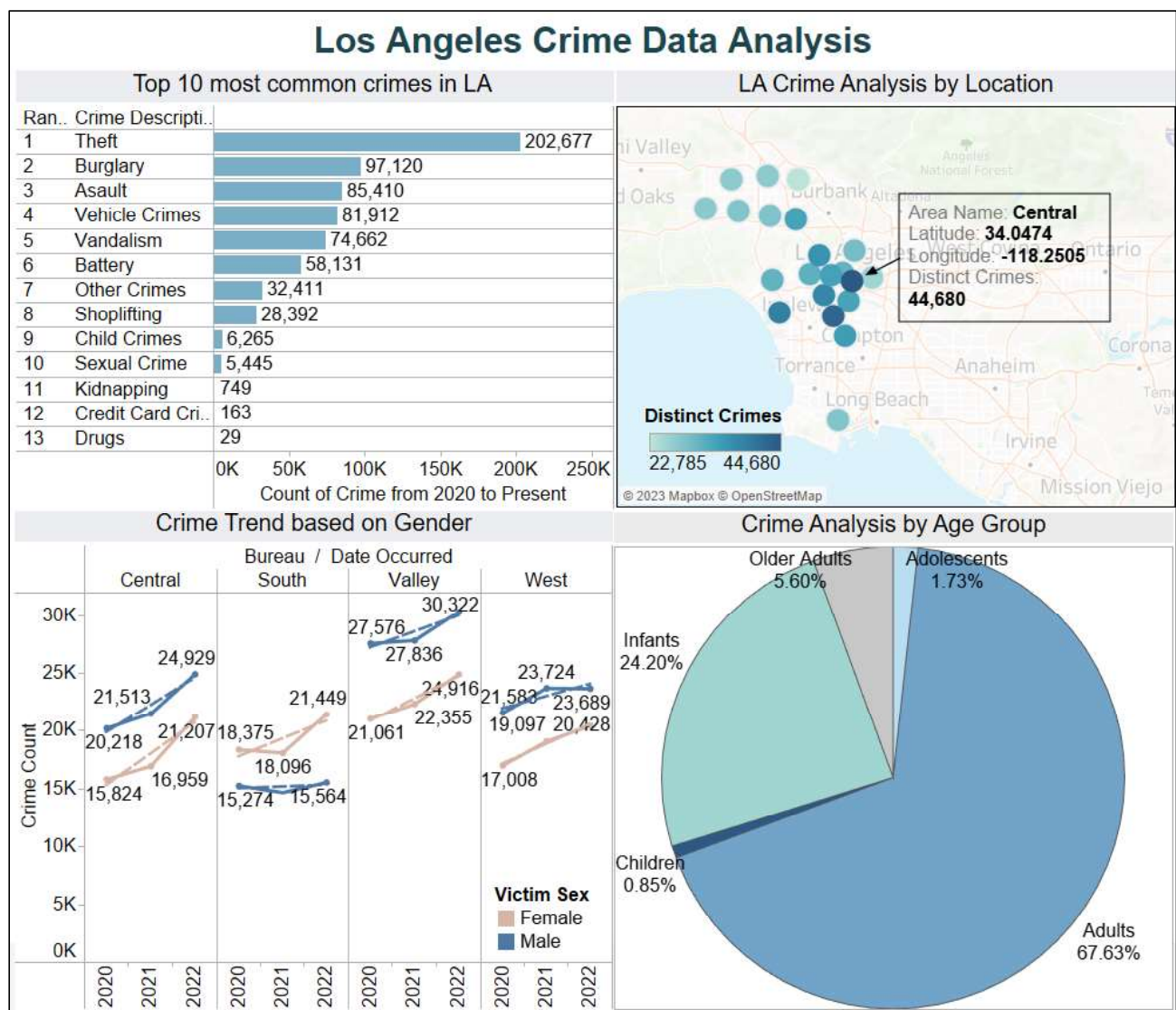


## E. Dashboard

Tableau is a powerful data visualization tool that allows users to easily create interactive and informative dashboards. A Tableau dashboard is a collection of multiple views (charts, graphs, maps, etc.) that are presented on a single page and are designed to provide a clear and concise overview of data. The process of analyzing and comparing multiple worksheets simultaneously can provide more comprehensive insights. As a result of this analysis, a dashboard has been created, which is presented below.

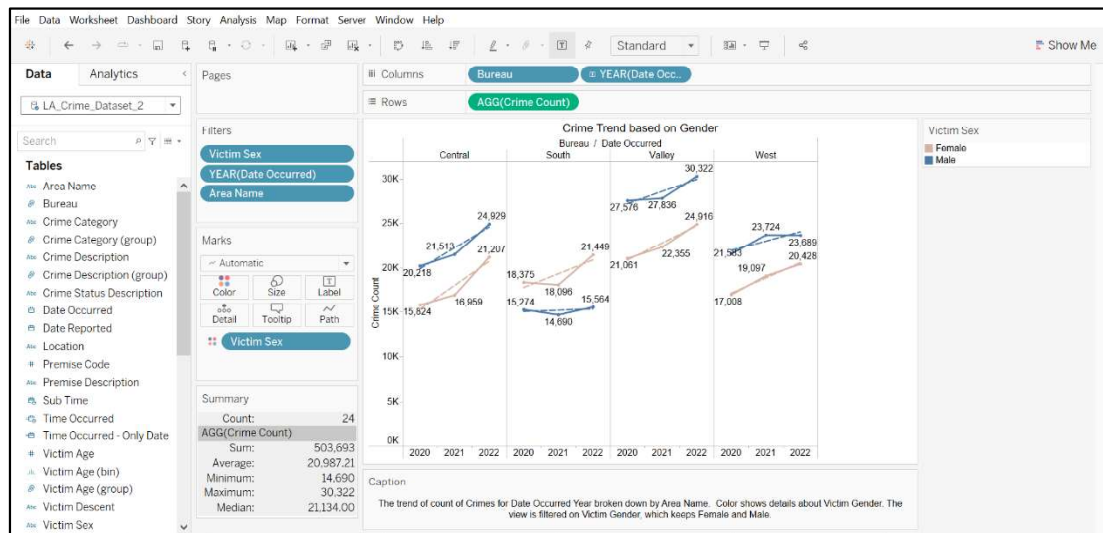
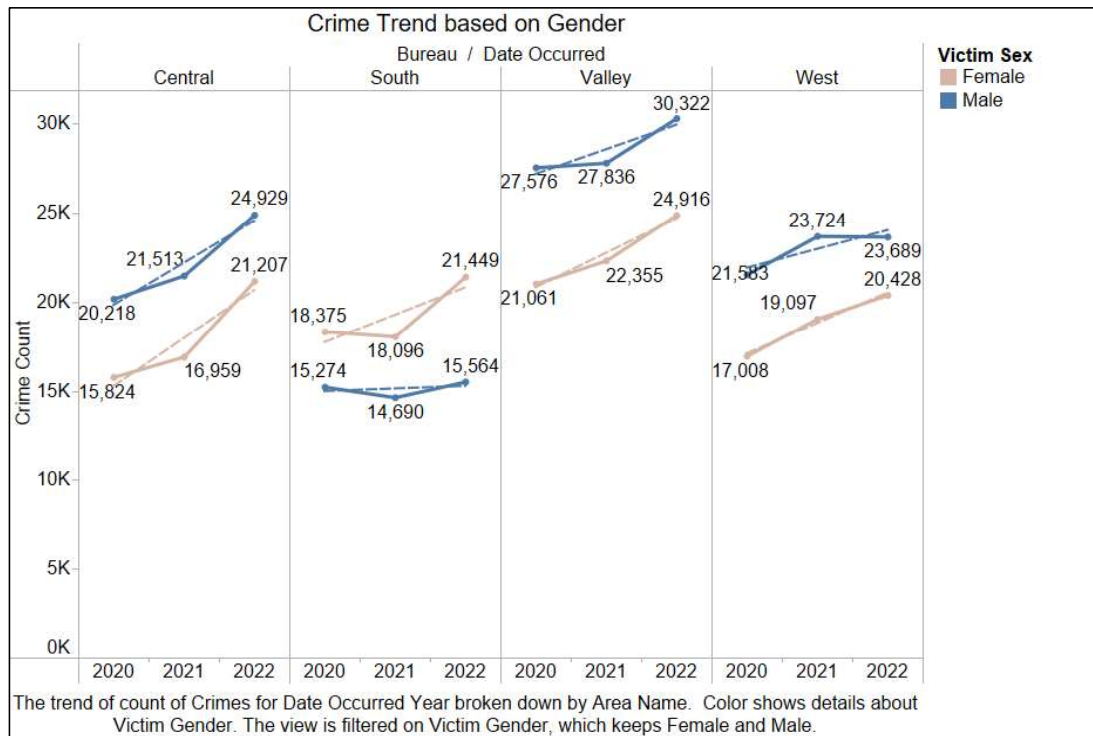


To understand the Los Angeles Crime Analysis from the year 2020 to the present, we will now take a closer look at each of the visualizations present in the dashboard.

The Bar chart, which reveals LA's most common crimes, determined by a tableau grouping function and filtered to the Top crimes, shows that “Theft” is the most prevalent crime, posing a risk to residents who should exercise caution. The analysis benefits law enforcement agencies and the public by providing insights into criminal activity, enabling further precautions.

Additionally, the geographical map of crime distribution in LA displays high and low crime areas through plotted longitude and latitude, allowing residents to identify areas where crime rates are particularly high or low. This analysis benefits law enforcement agencies and the public by providing insights into criminal activity and enabling targeted strategies for prevention, such as increased police presence and surveillance technology.

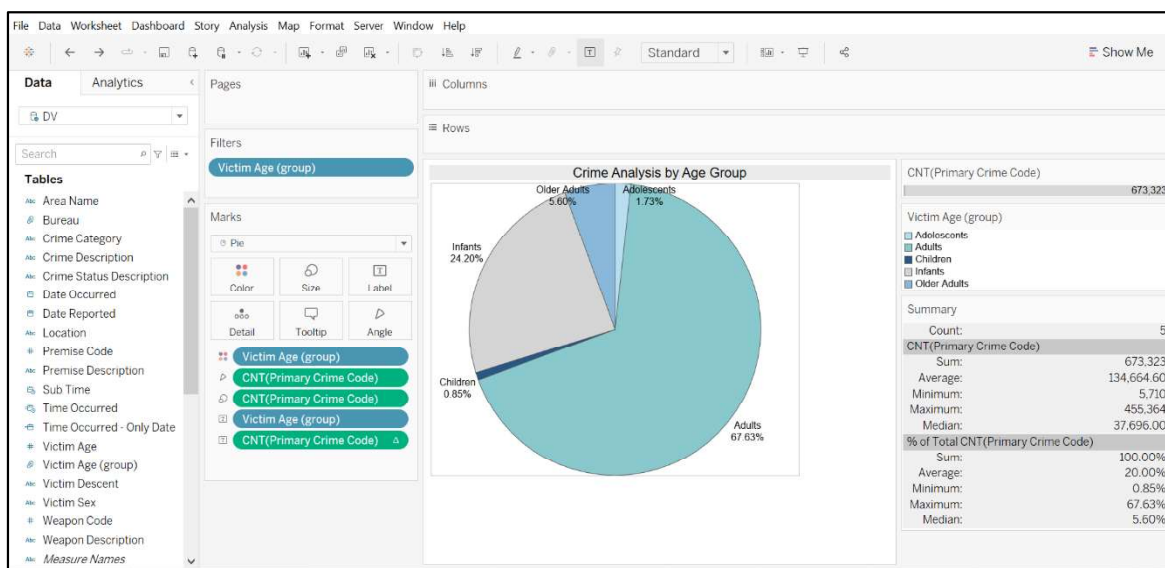
The trend in the number of reported crimes based on the gender of the victim over the course of the year is being analyzed:

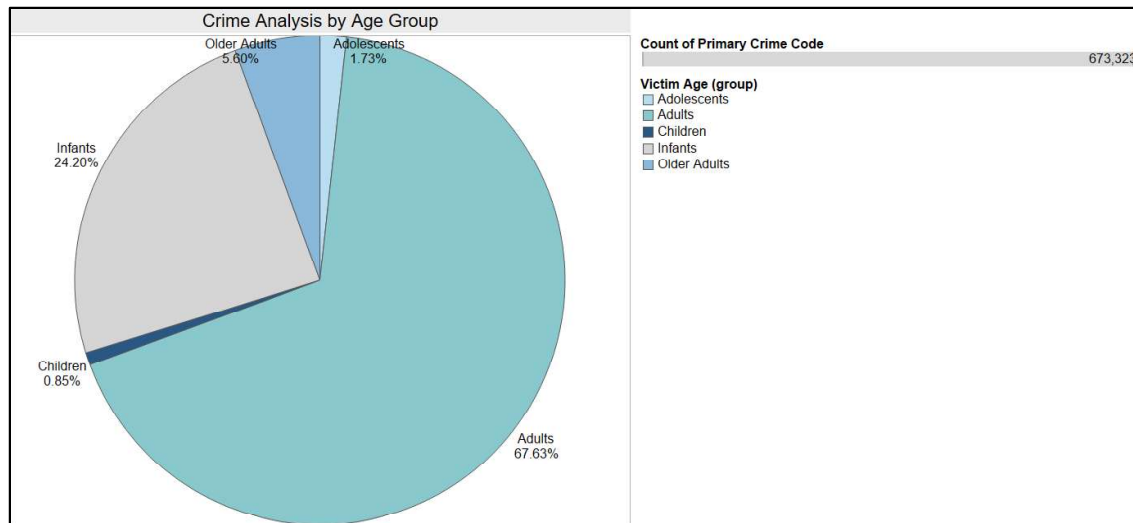


Categories Used: Trend Lines, Date, Group

To understand the pattern of male and female victimization in different bureau, we used continuous line graph to show the trend between them. From the visualization, we can see for the bureau Central, South, Valley both male and female count decreased in the year 2021 and then again raised in 2022. On the contrary the male and female count got increased for the West bureau in the year 2021 and the count dropped again in 2022. We have used Trend line to understand the pattern of data set and the direction of data set. This analysis indicates the trend involved in male and female victim and over all landscape of victimization. It's quite surprising to learn that male and female are equally vulnerable and their victim count rate very close.

### Analysis on specific age groups which are more frequently targeted by criminal activity:





### Categories Used: Pie chart, Count, Group, Filter

The pie chart above illustrates an analysis of crime categorized by age group. The age groups are established using tableau group functionality and then filtered accordingly. The largest proportion of victims, which accounted for 67.63% of the total, are adults aged 18-64, indicating that this age group is more vulnerable to certain types of crimes, such as property and violent crimes. The second-highest percentage is infants aged 0-1 years at 24.20%, although they are unlikely to be direct victims of crime, they could be at risk of harm in households with high crime or violence rates. The elderly aged 65 and above represented only 5.60%. The smallest percentage of 0.85% is for children aged 2-12 years, who are at risk of gunshots or active shooter attacks based on recent occurrences of shootings at school premises.

This data analysis indicates that crime can impact different age groups in distinct ways, and policymakers, law enforcement, and community organizations can use this information to create targeted strategies for preventing and addressing crime's impact on various age groups within the population.