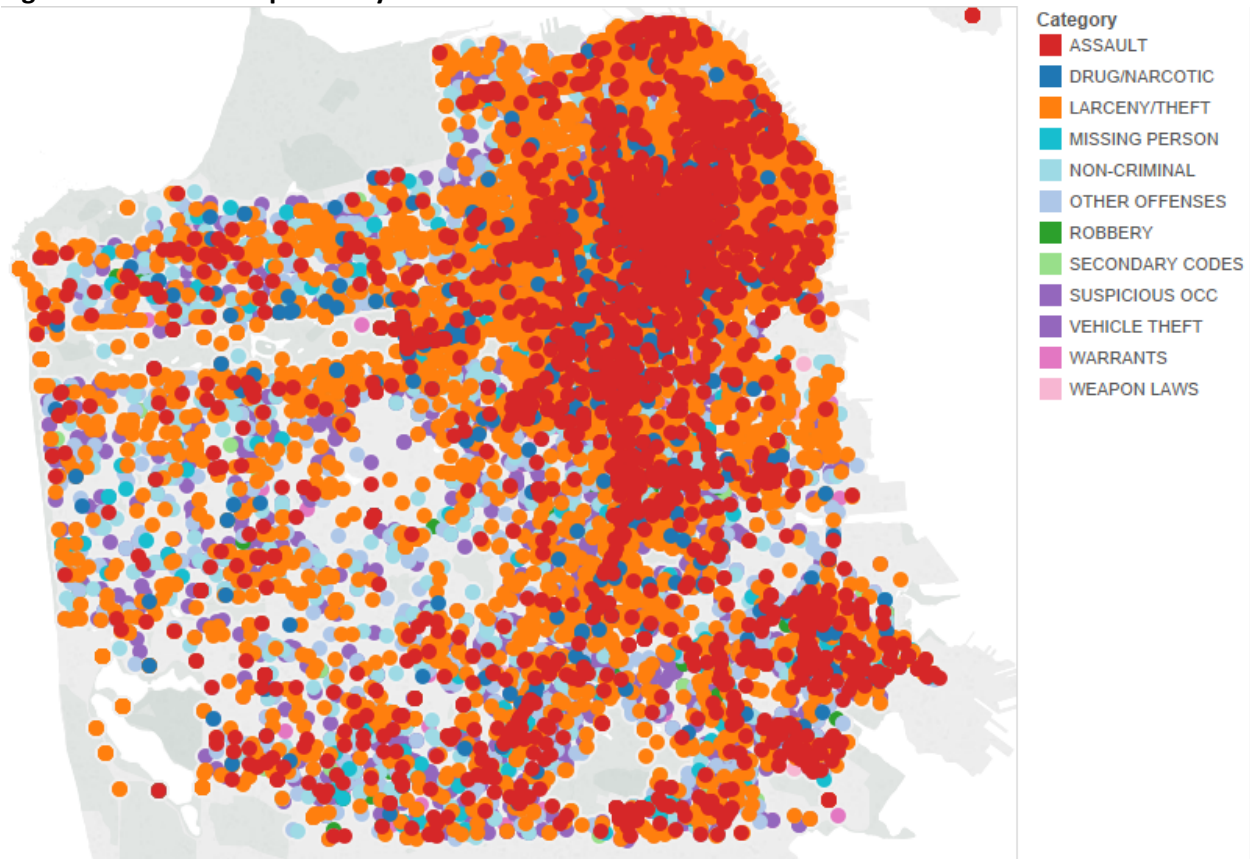# Crime Analytics: Visualization of Incident Reports

Primary Finding –
A majority of violent incidents reported in SFO is near downtown

Figure 1 – Incidents reported by location in San Francisco

The primary finding for this report is that a majority of the violent incidents reported in San Francisco is near the downtown area. Figure 1 contains a plot of all substantial incidents reported, by location. As seen in the graph, the concentration of incidents reported is much higher near the downtown area when compared with other parts of the city.

Focusing on the violent crime categories, namely Assault, Larceny/Theft, Robbery and Vehicle Theft, it is seen that the concentration of incidents reported in downtown is even higher when compared to the surrounding neighborhoods. Figure 2 below, filters on these categories and is zoomed in to show the downtown area.

Figure 2 – Violent crimes reported near downtown San Francisco

Category
- ASSAULT
- LARCENY/THEFT
- ROBBERY
- VEHICLE THEFT

Figure 3 - Violent crimes reported near downtown Seattle

Summarized Offense Description
- ASSAULT
- BIKE THEFT
- HOMICIDE
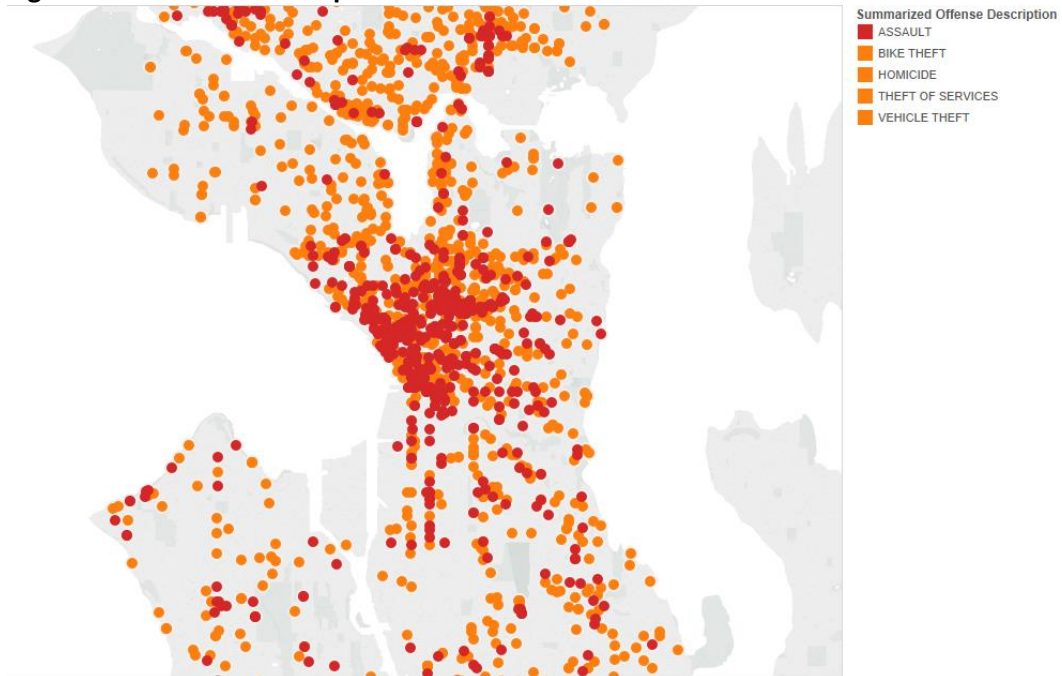- THEFT OF SERVICES
- VEHICLE THEFT

Figure 3 depicts the location of violent incidents in Seattle. By comparing Figure 2 and Figure 3, we can see that the pattern still holds – violent crimes reported in the downtown area is much higher when compared to other parts of the city

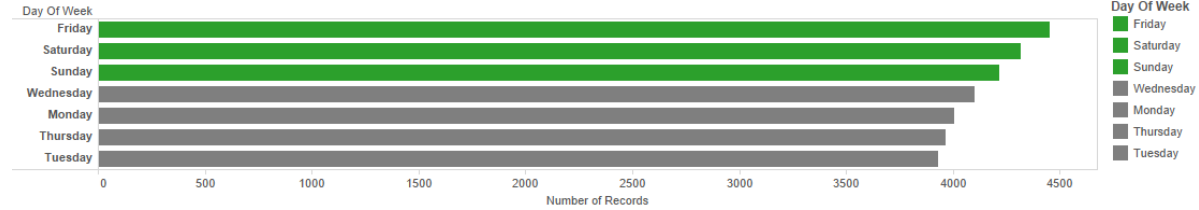**Figure 4 – Incidents reported by day of the week**

Figure 4 depicts the total number of incidents reported for each day of the week. The average number of incidents reported on the weekends is higher when compared to weekdays. Figure 4 clearly shows that the number of incidents reported on Friday, Saturday and Sunday is much higher when compared to other days of the week. This is explained by the fact that more people visit downtown San Francisco during the weekend and hence there are more incidents

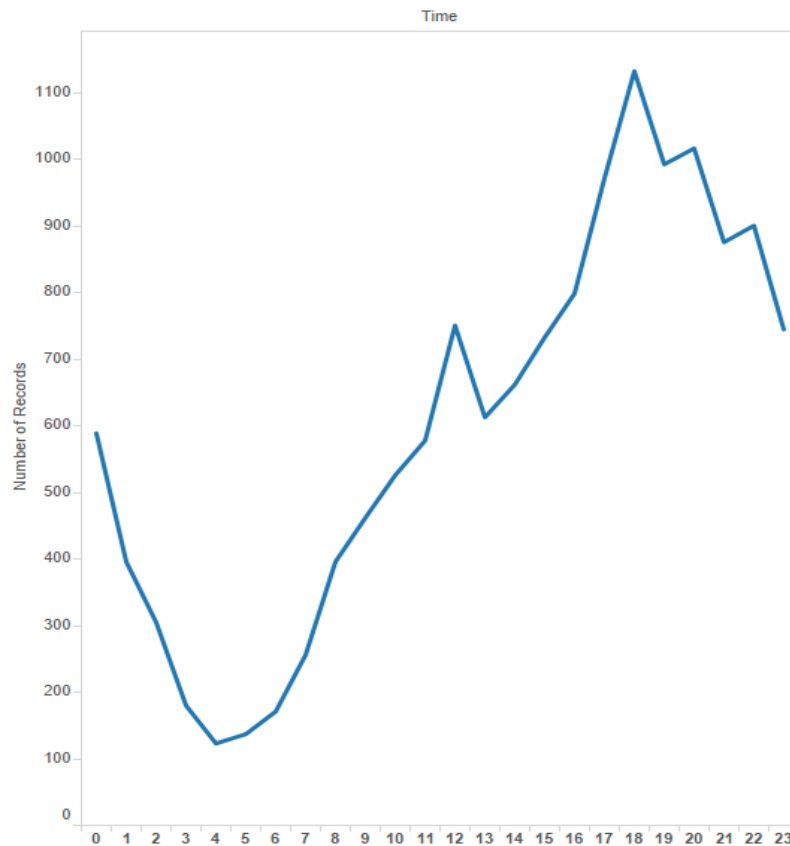**Figure 5 – Incidents reported by time of the day**

Figure 5 depicts the total number of incidents reported by time/hour of the day. The number of incidents reported between 17:00 and 00:00 hours is higher when compared to other parts of the day. This can be explained by more people visiting downtown San Francisco during the evening/early night hours as compared to daytime