

San-Francisco

Crime Report Analysis 2016

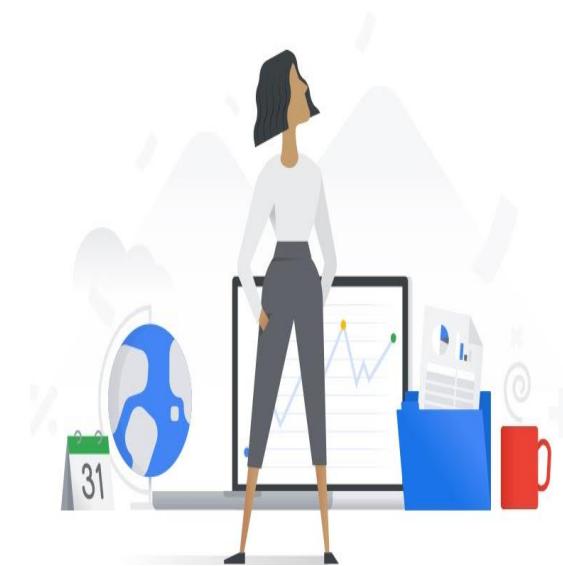
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Aegis School of data Science



Insights of data

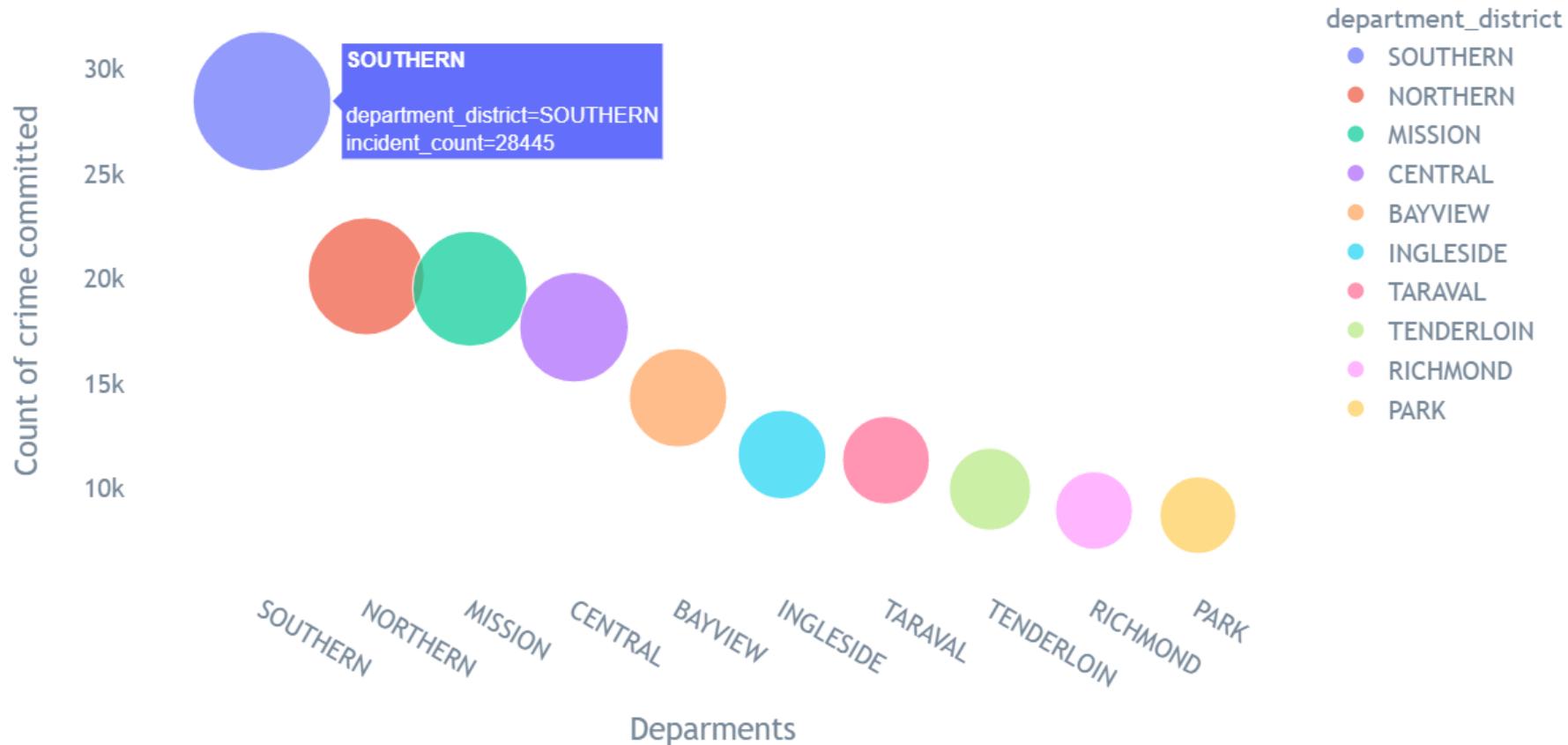
1. Which district department registered more/less crime ?
2. Which category having more crime registered ?
3. Weekly, Monthly, Quarterly crime patterns ?
4. Type of offences committed in each district ?
5. Which department is more efficient to resolve problem ?
6. Mapping of latitude and longitude of locations ?
7. Top 10 district where maximum crime committed ?
8. Summary



Southern District Department is having the highest committed Crimes in the year of 2016

Scroll 10

Top Crime Committed in District wise Department



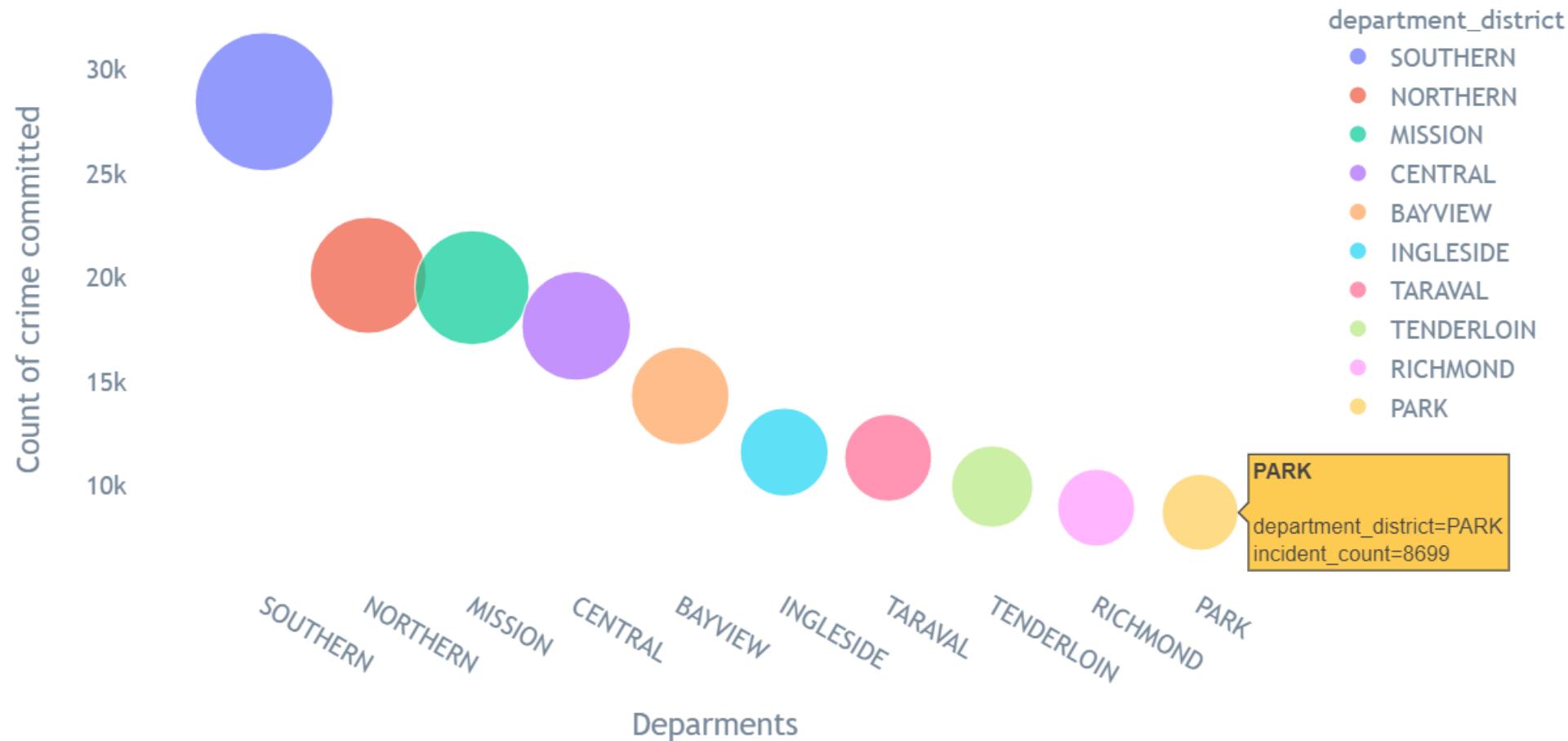
Park District Department is having the Lowest committed Crimes in the year of 2016

Scroll

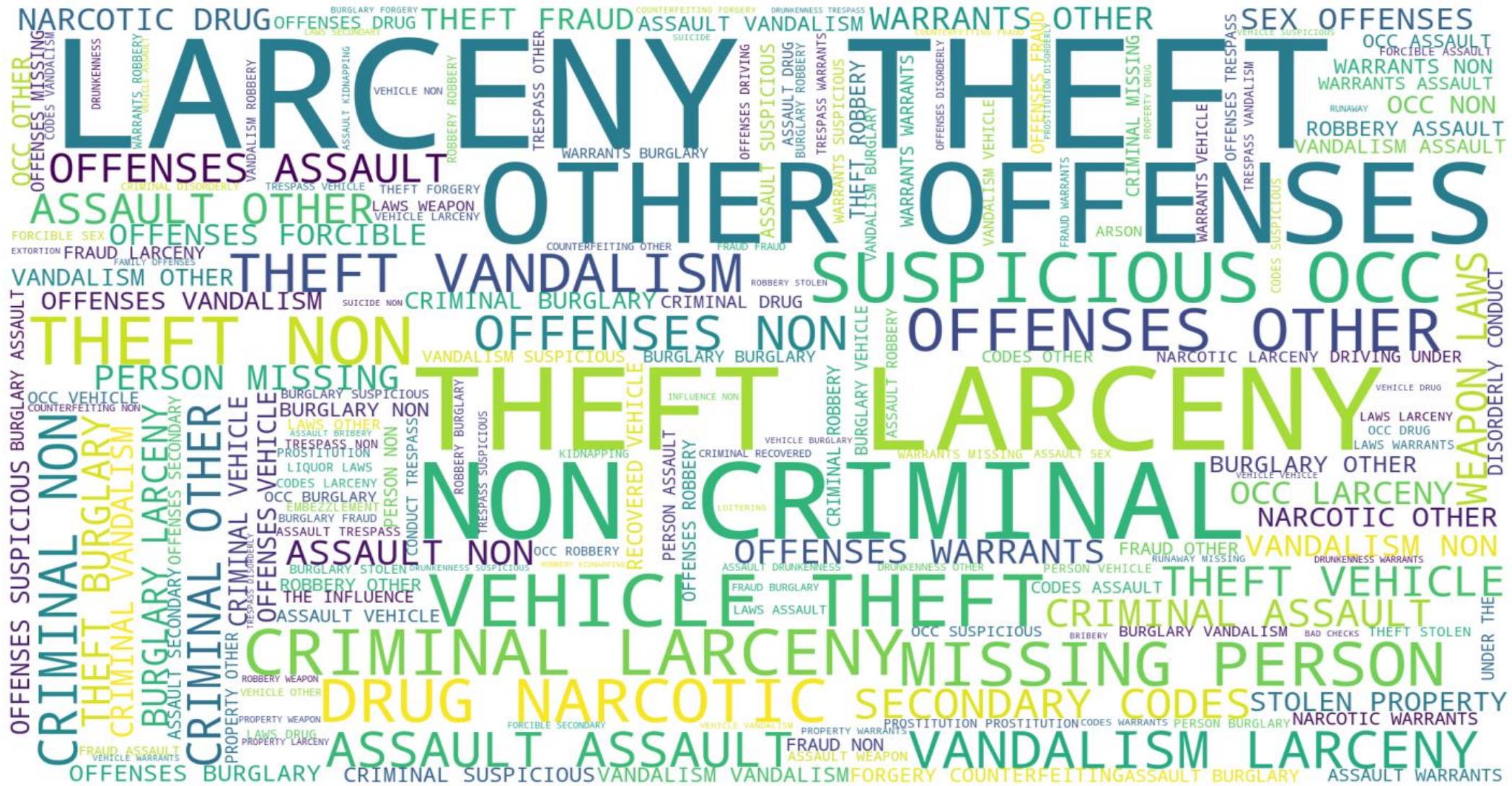


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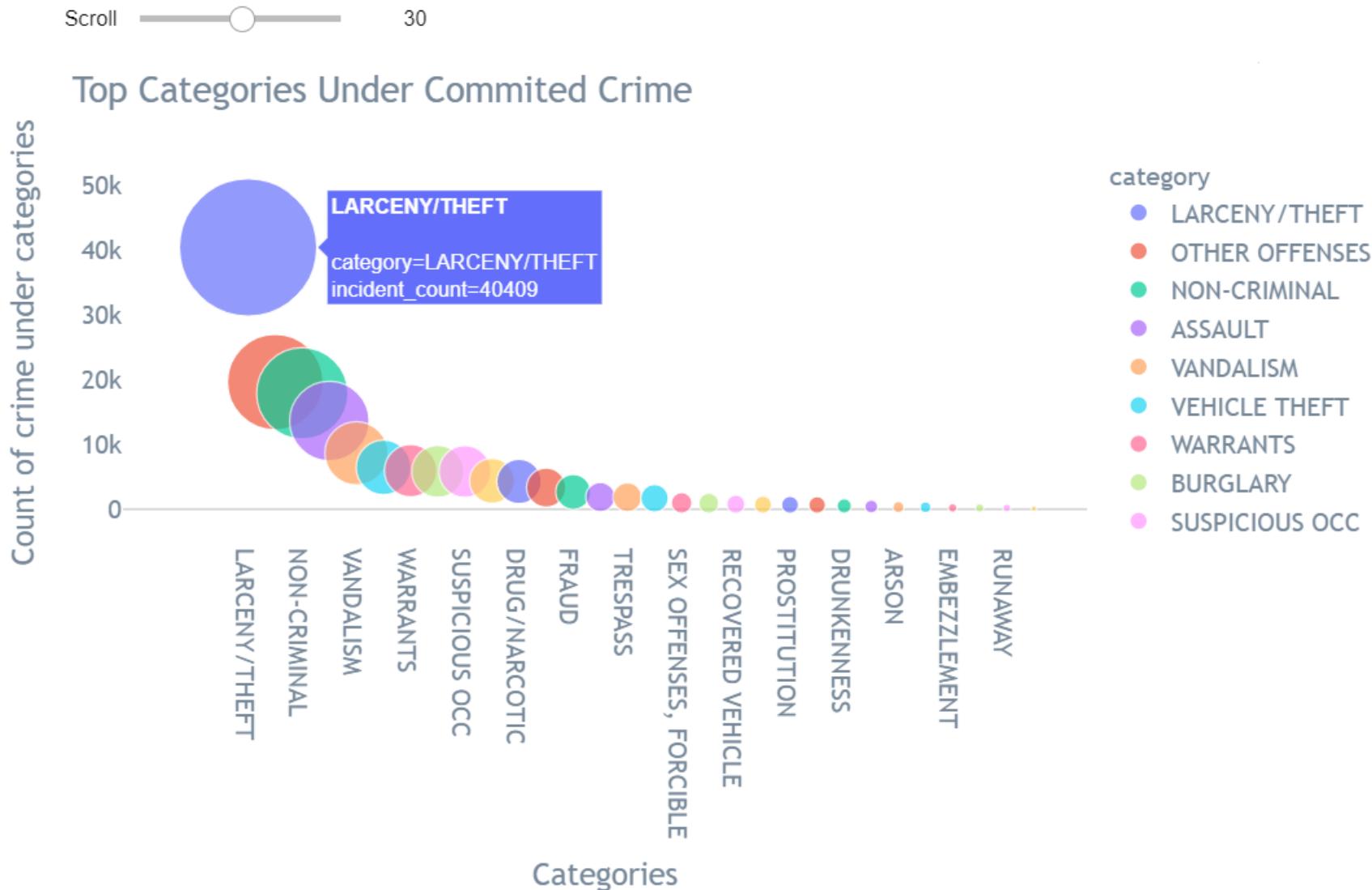
Top Crime Committed in District wise Department



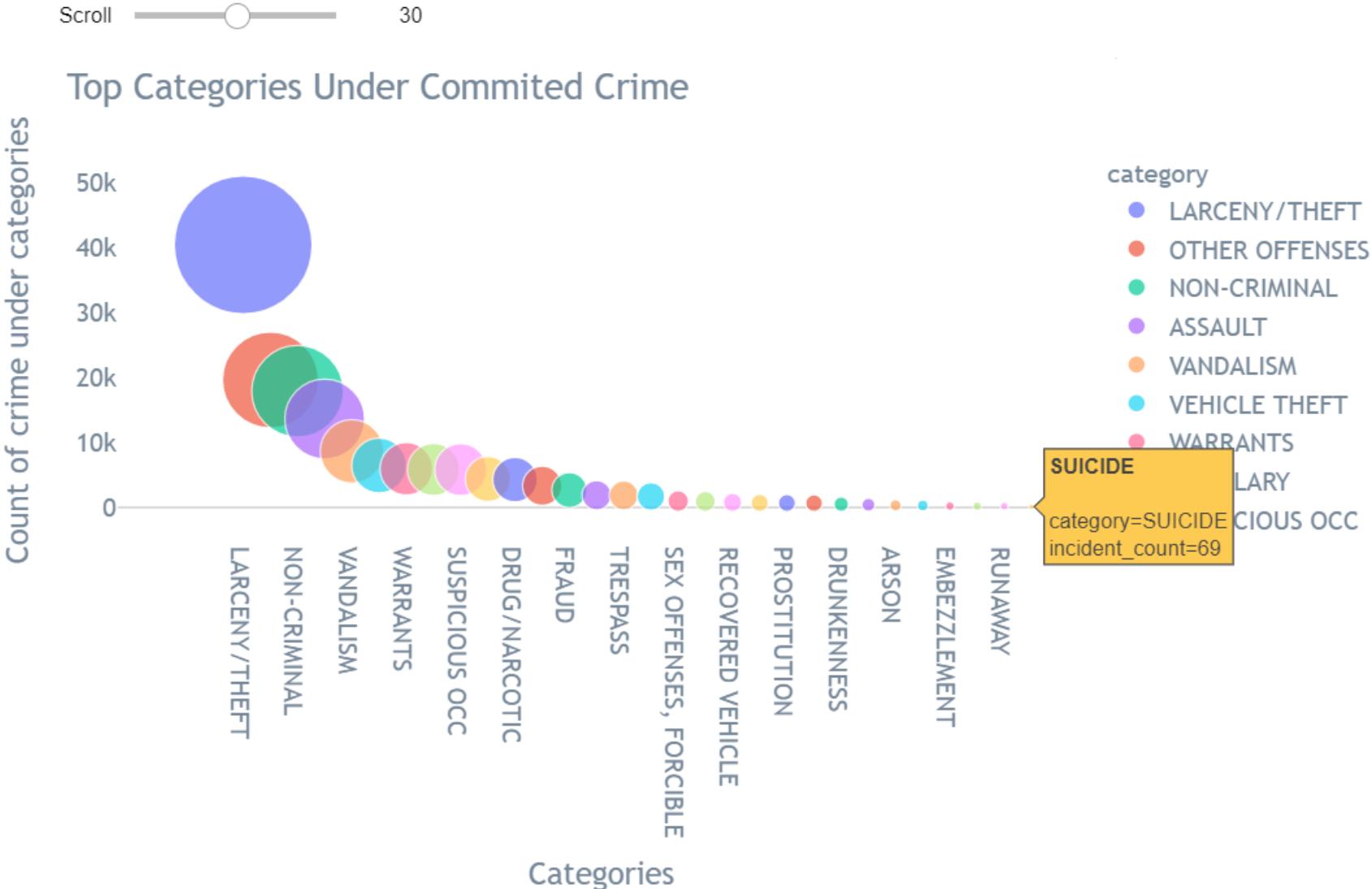
visualization words using word clouds of maximum occurrence of categories size of the words tell the occurrence LARCENY/ THEFT have occurred maximum



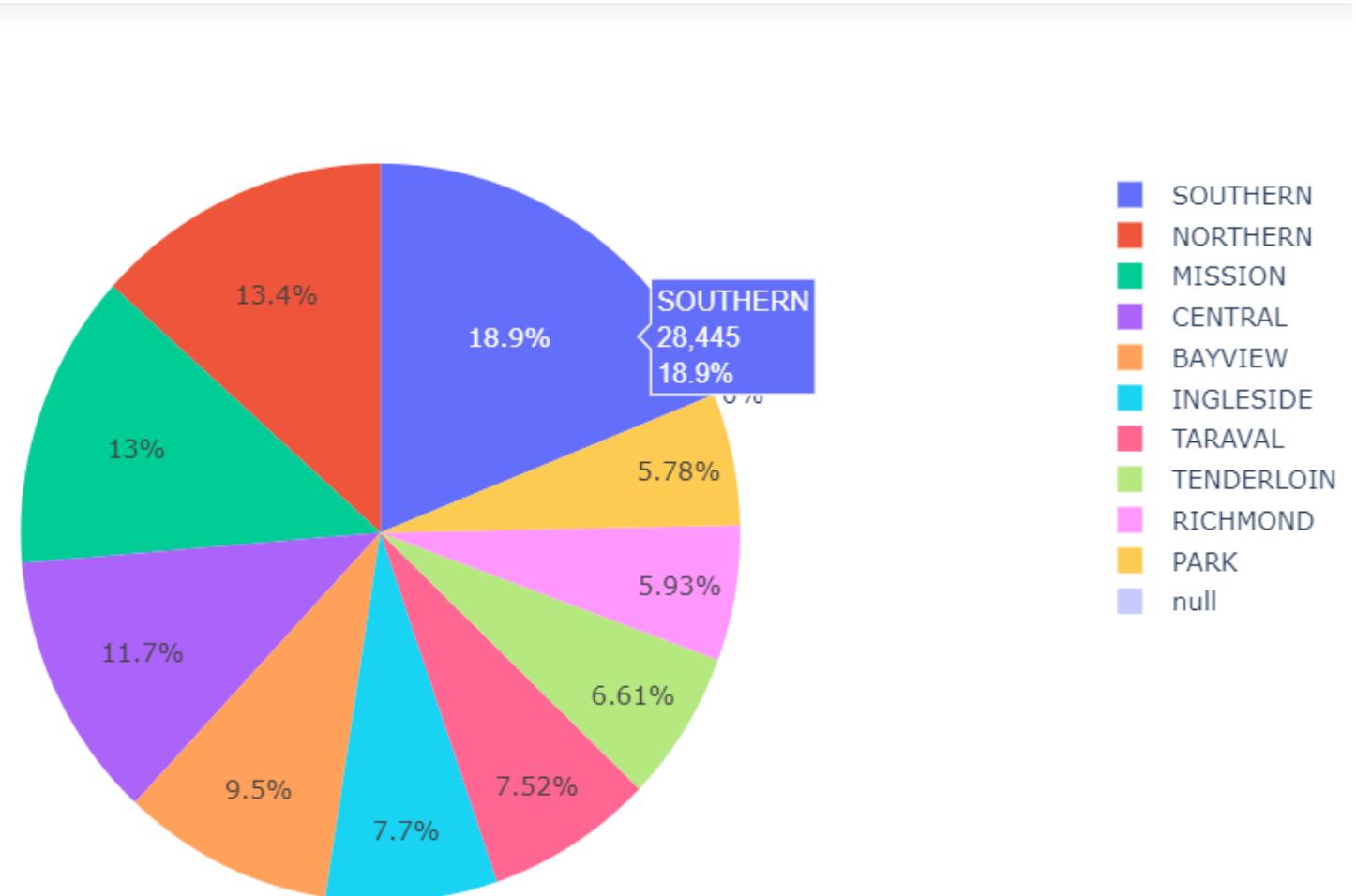
Larceny/Theft category registered highest the committed Crimes in the year of 2016



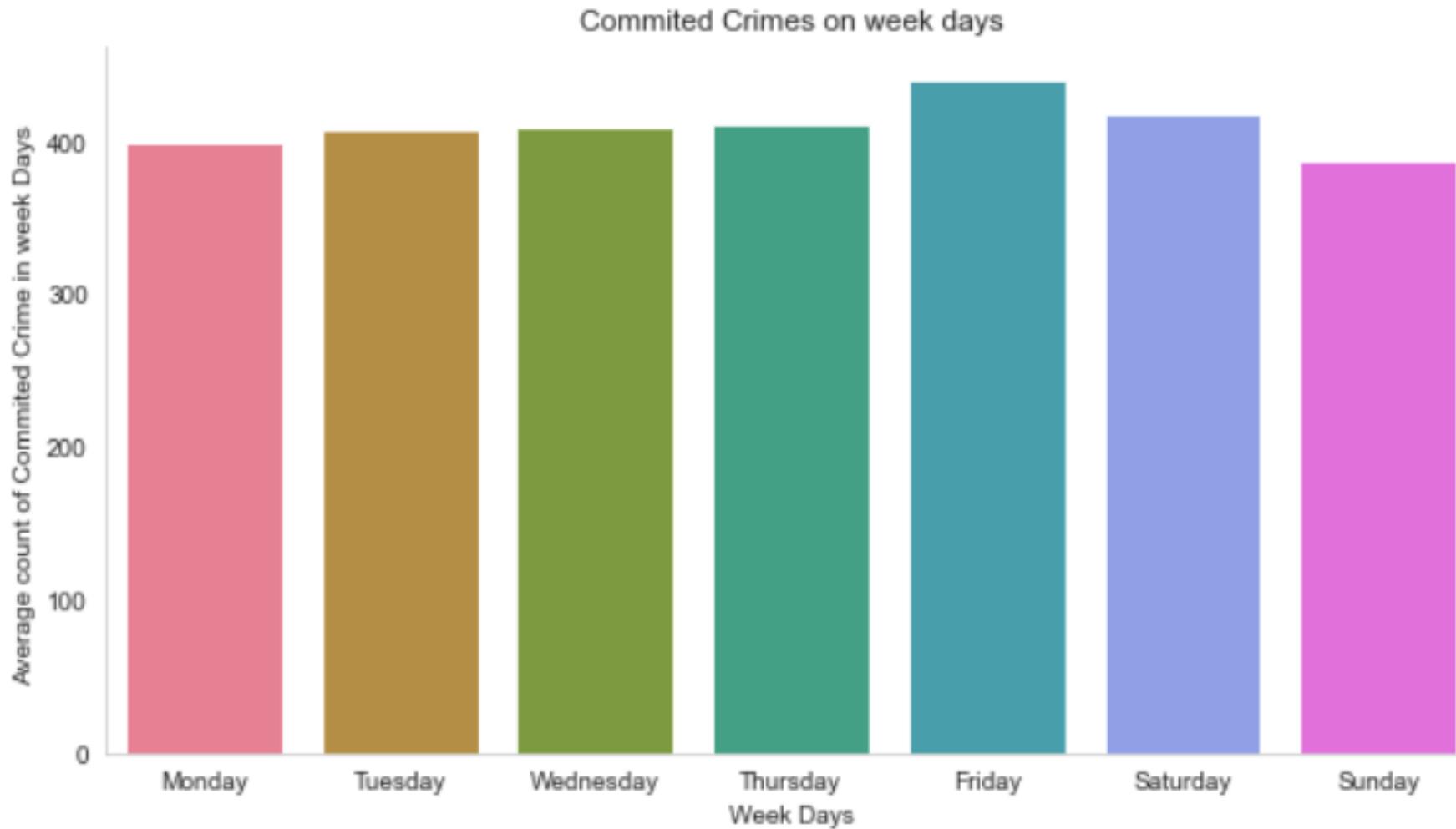
Suicide category registered the lowest committed crimes in the year of 2016



Pie chart tell the crime rate at every district department – highest crime rate is in southern and lowest crime rate in Tenderloin district



Weekly committed crimes patterns

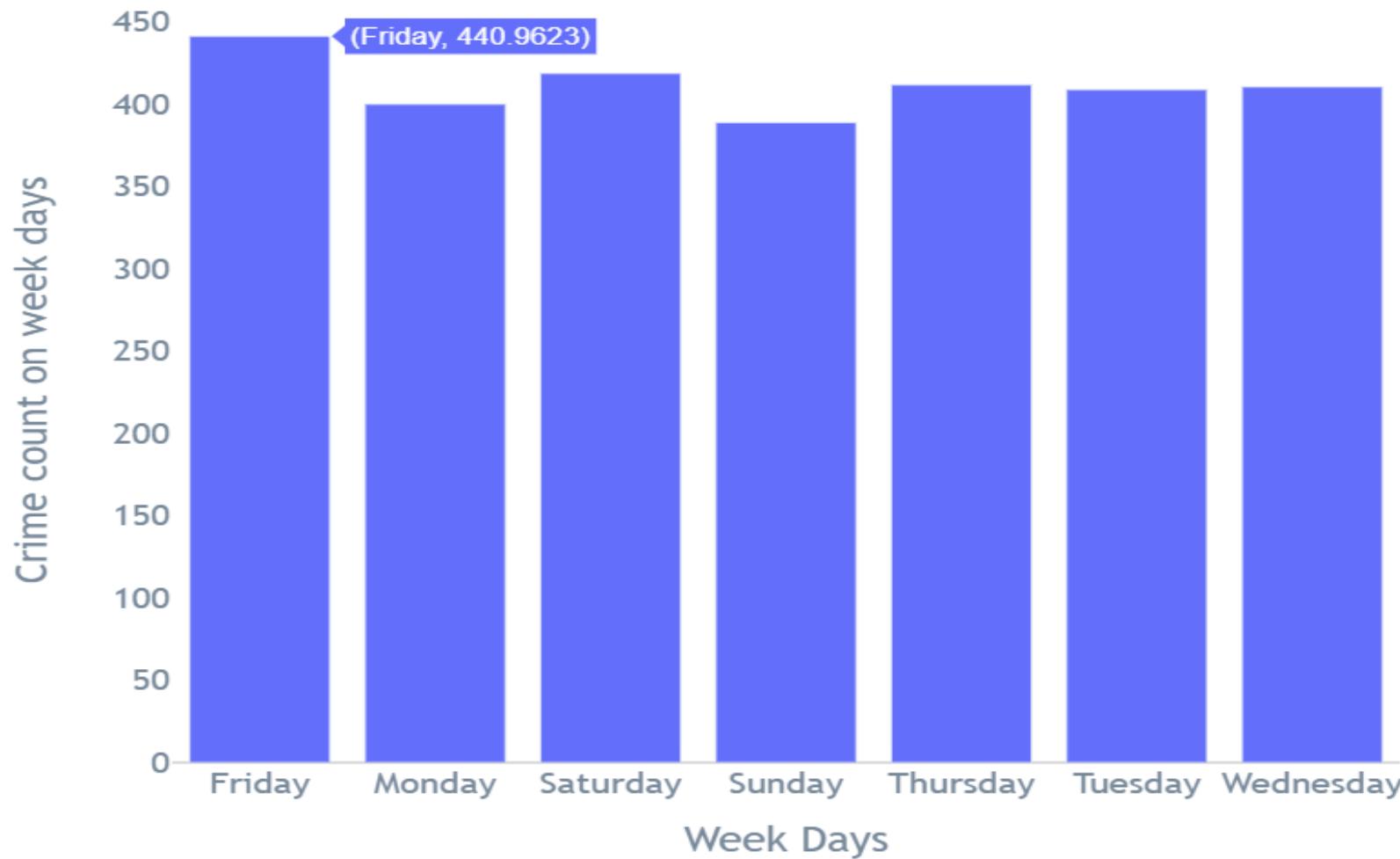


In weekdays data follows the pattern- at Sunday average committed crimes registered is less

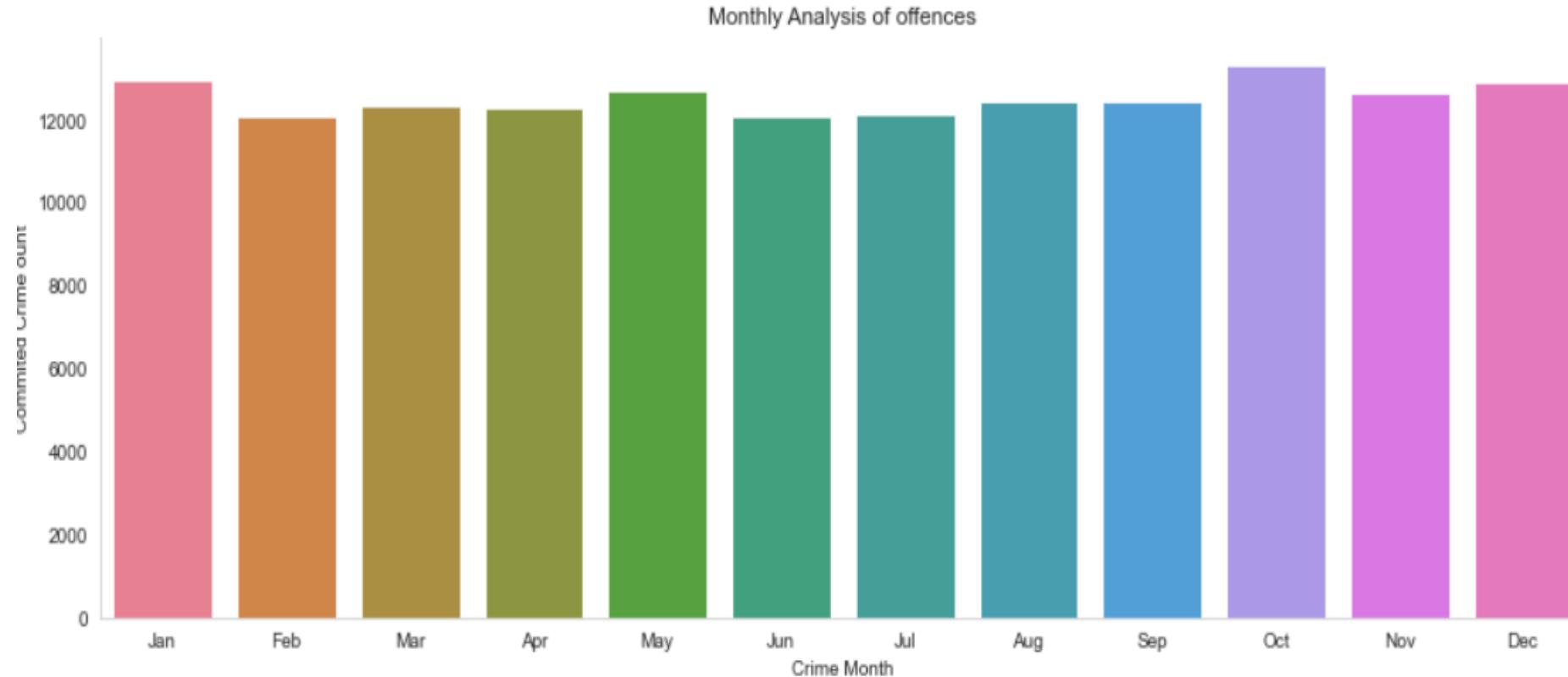


In weekdays data follows the pattern- at Friday average committed crimes registered is high

Committed crimes on week days

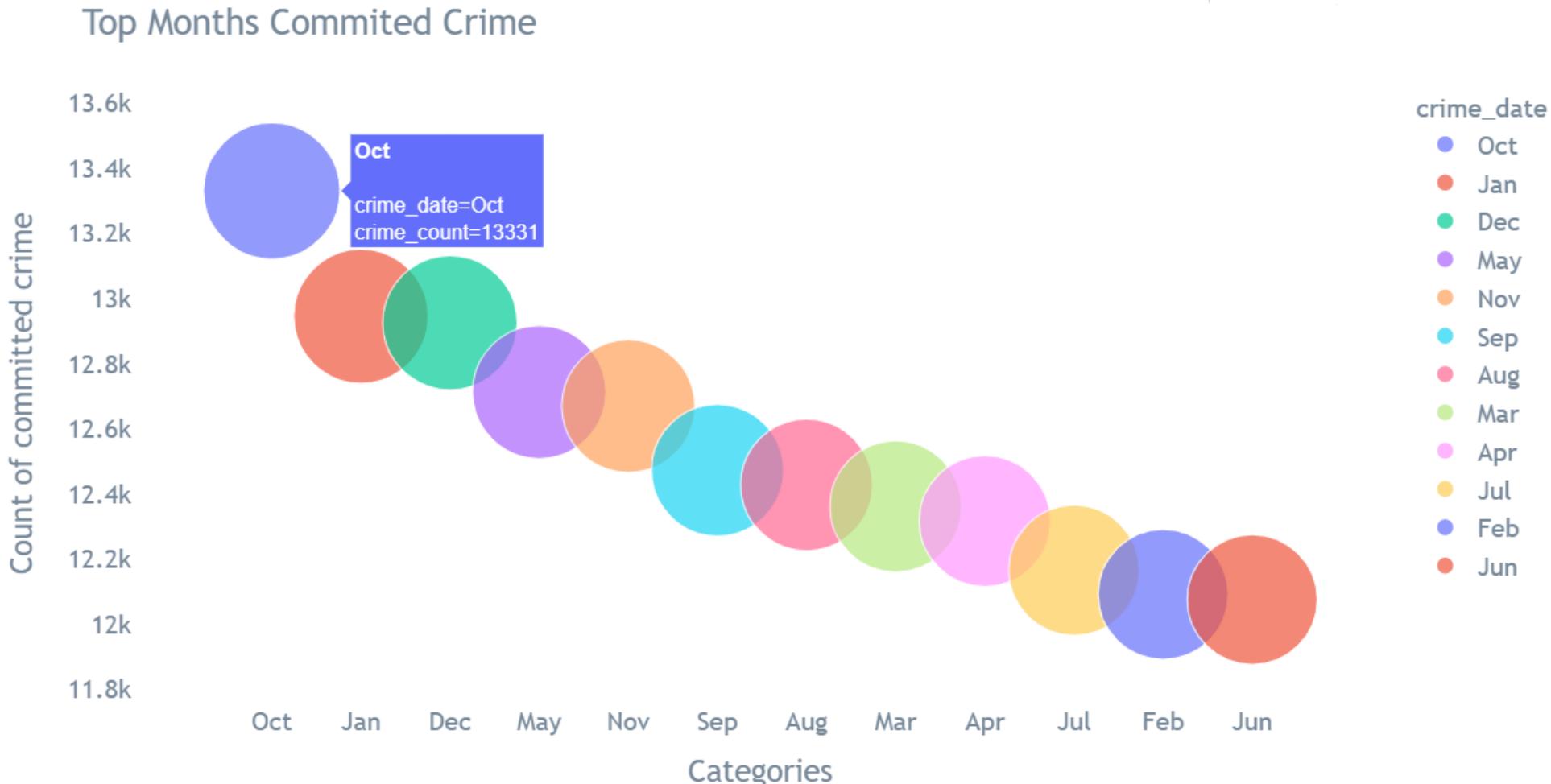


Monthly committed Crimes

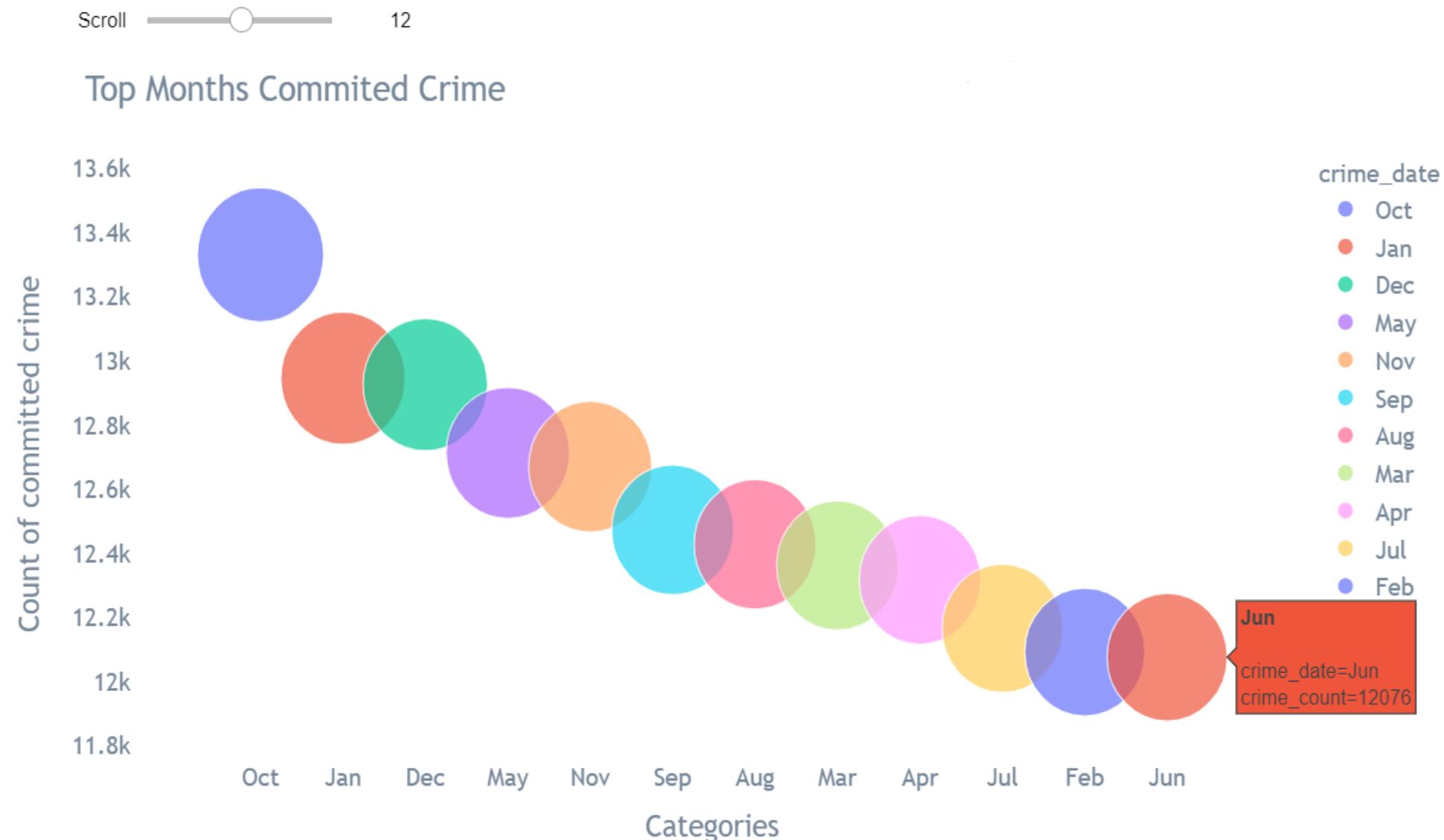


Monthly committed Crimes pattern- October month having highest registered crime

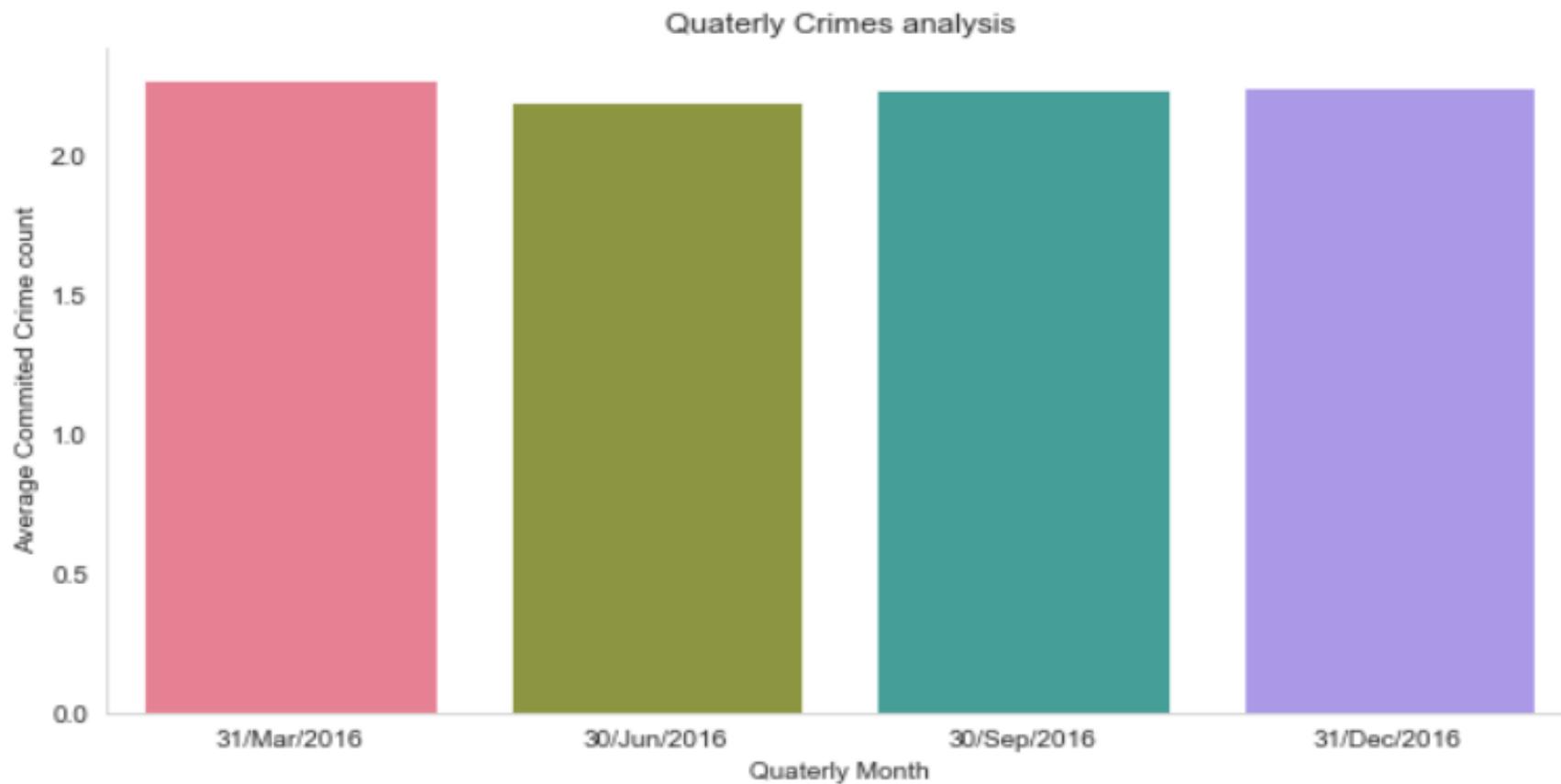
Scroll 12



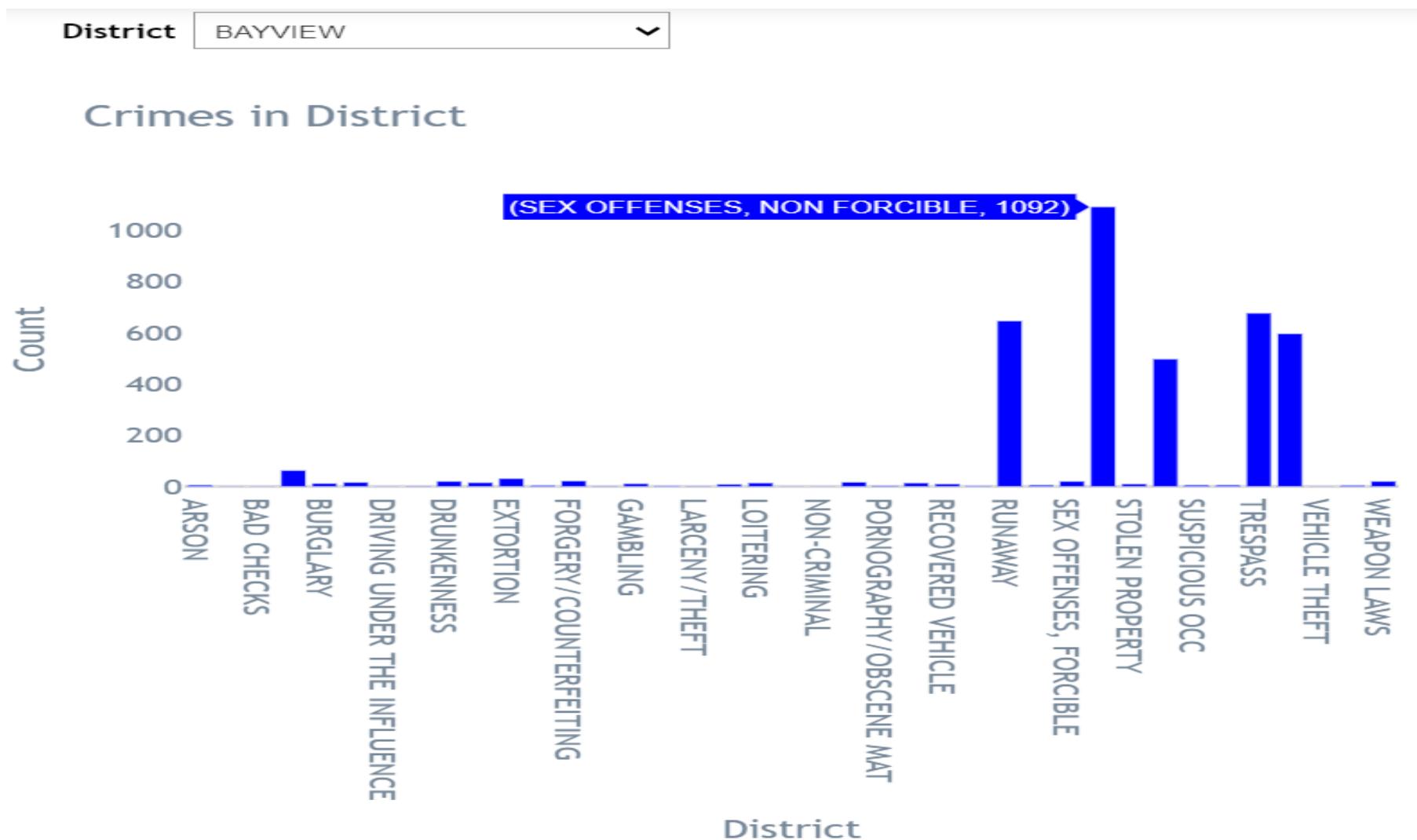
Monthly committed Crimes patterns- June month having lowest registered crime



Quarterly Average crime committed trend



Crime resolving efficiency by department- There are the offences which are not resolved which need to be more focus



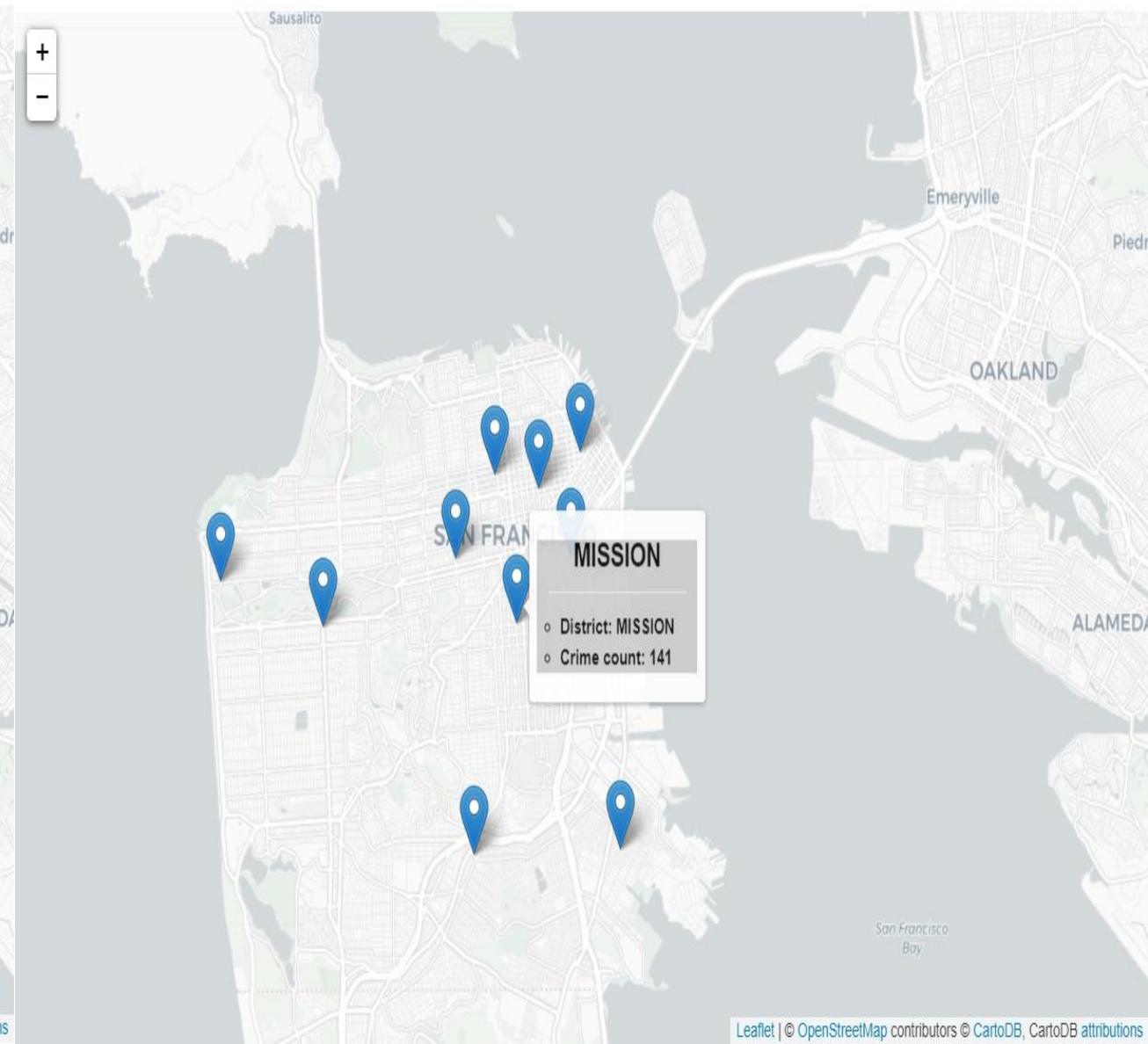
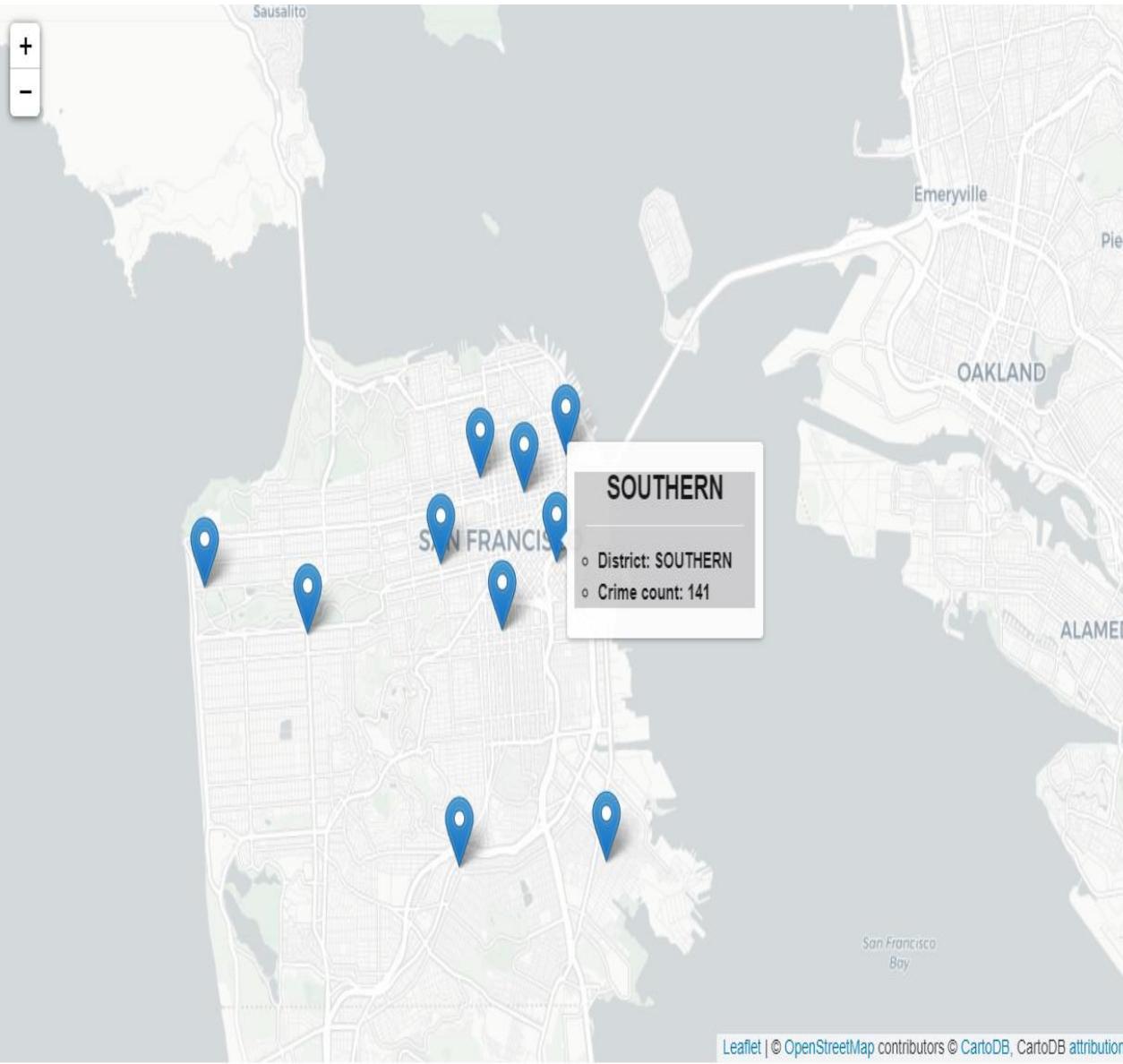
Top 10 district where maximum crime committed- it is clearly visible that Mission and Southern is maximum number of crimes being reported

Number

10

department_district	count
MISSION	141
SOUTHERN	141
BAYVIEW	124
INGLESIDE	124
NORTHERN	121
TARAVAL	110
TENDERLOIN	105
RICHMOND	102
CENTRAL	100
PARK	99

Plotting the Geo location of district with respect to number of crime being registered



Summary

As most crimes committed are of Larceny/Theft.

We see an uptick in crime with the need/want of consumption.

This is also seen through days on which the crimes are committed.

i.e. Fridays and start of festivities in October.

So by increasing police size and police patrols around festivities we can reduce number of crimes.

GitHub link : <https://github.com/prachi-tripathi/San-Francisco-crime-analysis>