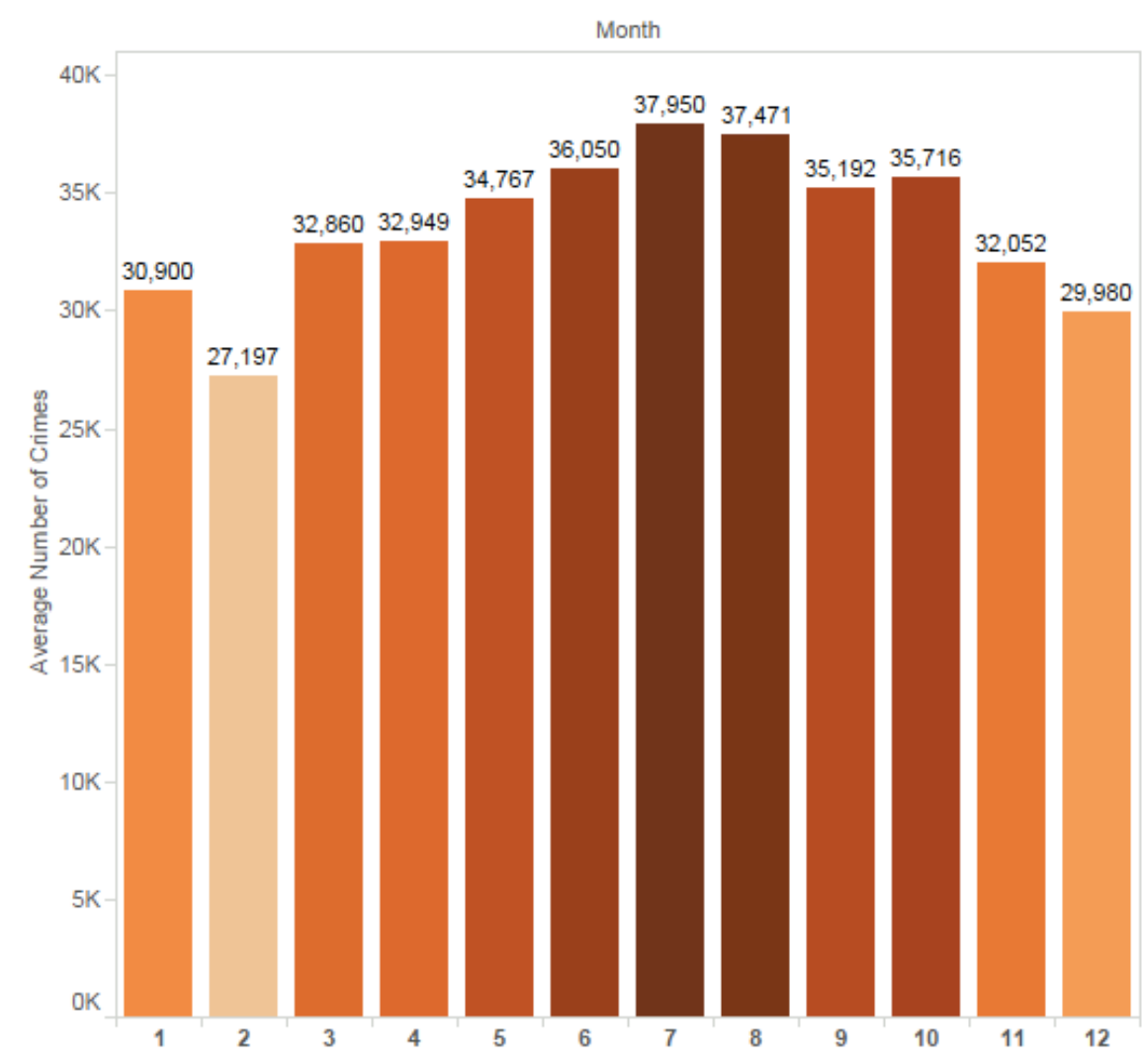
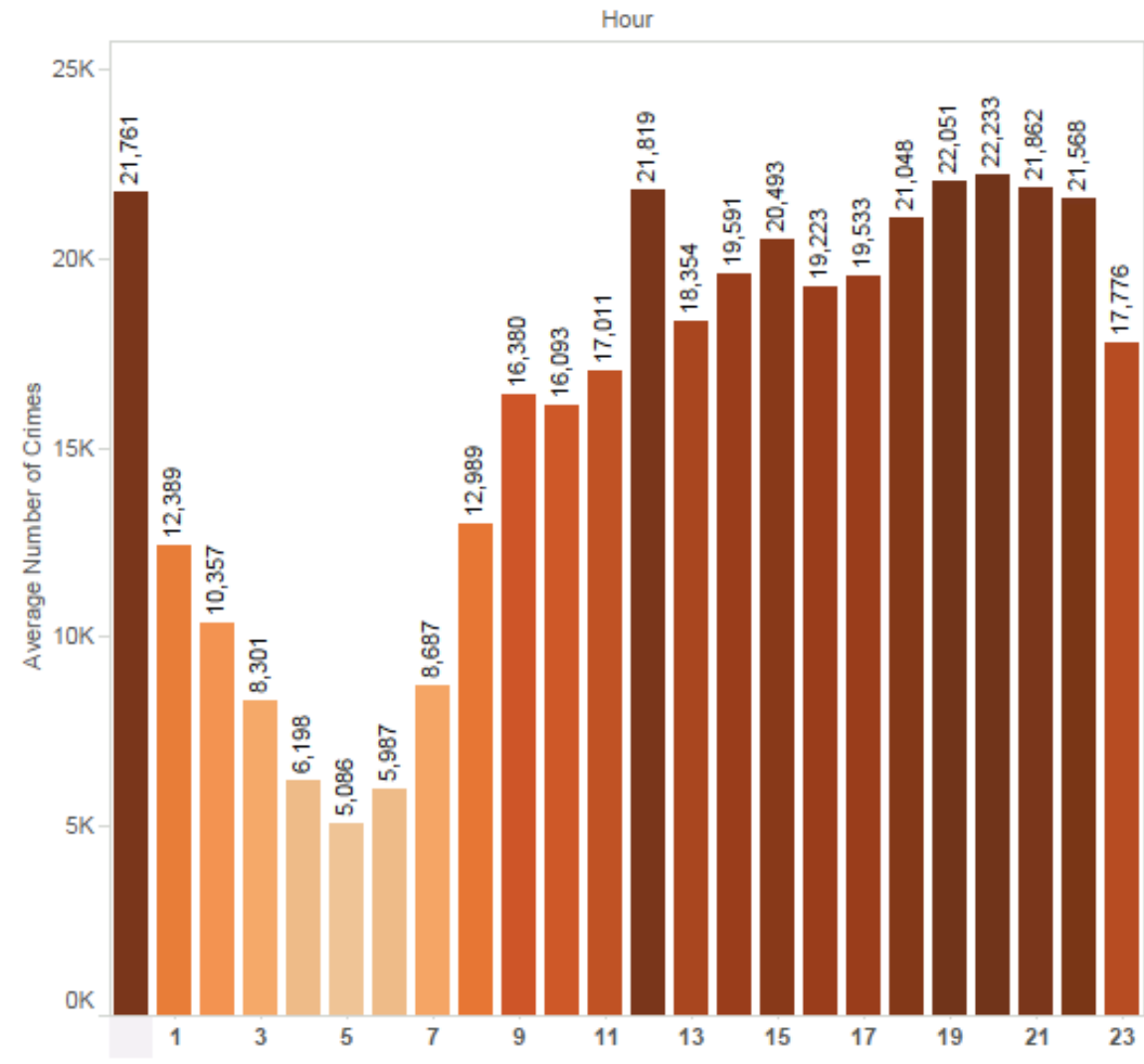


Assignment 5
Steven Lin

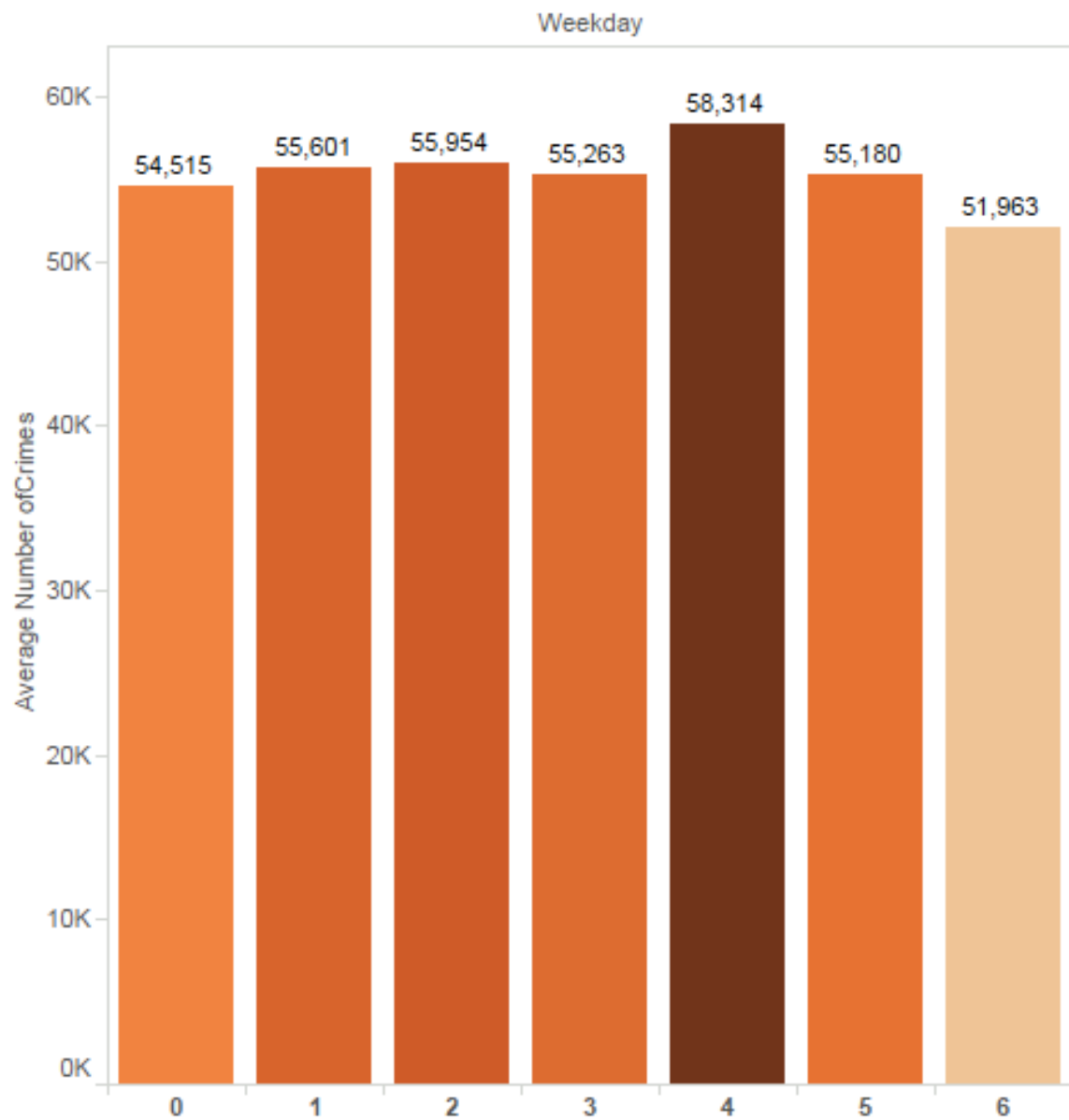
Problem 4



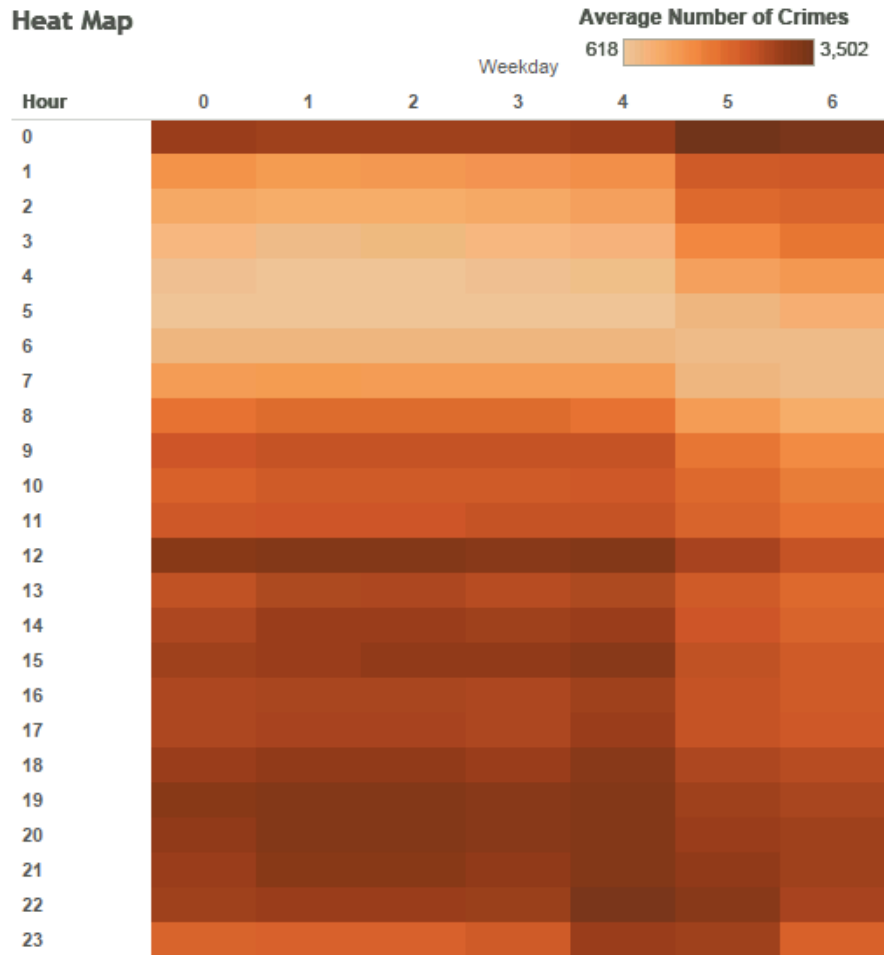
From the histogram it can be seen that the average number of crimes is lower during the winter months and higher during the summer months, which makes sense since the cold weather tends to deter crimes.



The crime rate is higher late at night. The rate then decreases to the lowest during the morning, and increases again into the afternoon.

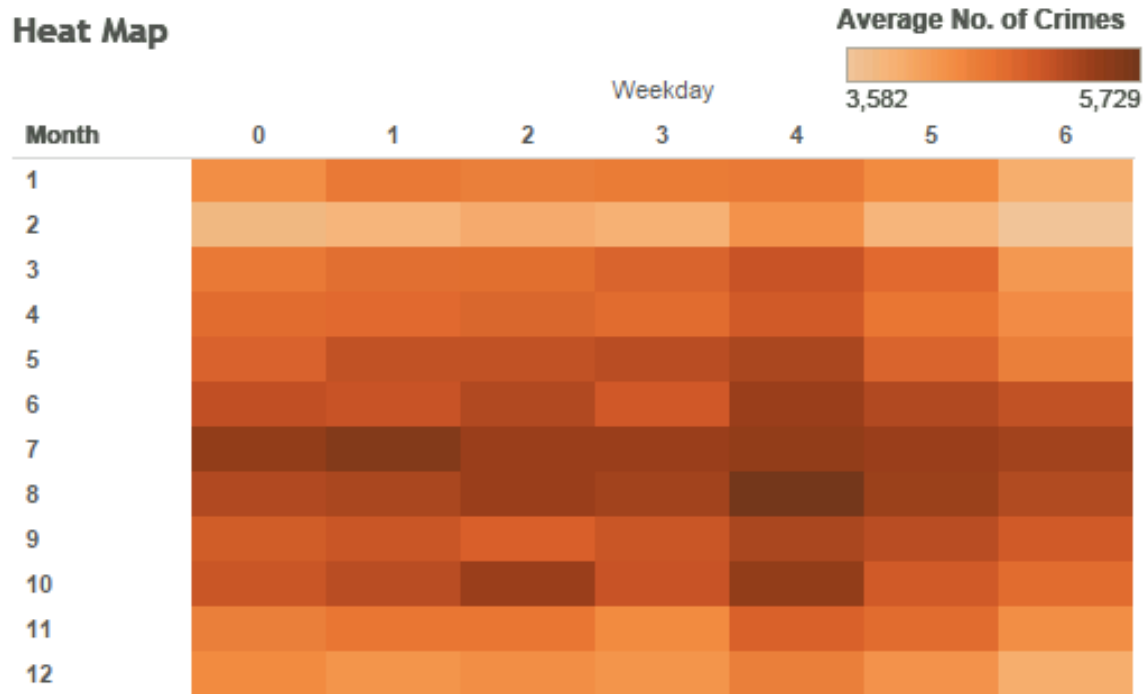


The crime rate seems to be higher on Friday and lowest on Sunday, with the remaining days having similar crime rates.



The heat map shows that noon and midnight seem to have high crime rates across all weekdays, with midnight on weekends have the highest rates. As expected, the hours before morning seem to have the lowest rates across days, although the crime is higher for weekends compared to weekdays.

Heat Map



The heat map shows that month dominates the crime rates across the weekdays, with the summer months having the highest rates. One interesting pattern is that in July, Tuesday is the day with the highest crime rates compared to the rest. Fridays seem to be the most popular day for crimes. In October, Wednesday also seems to be a day with high crime rates.