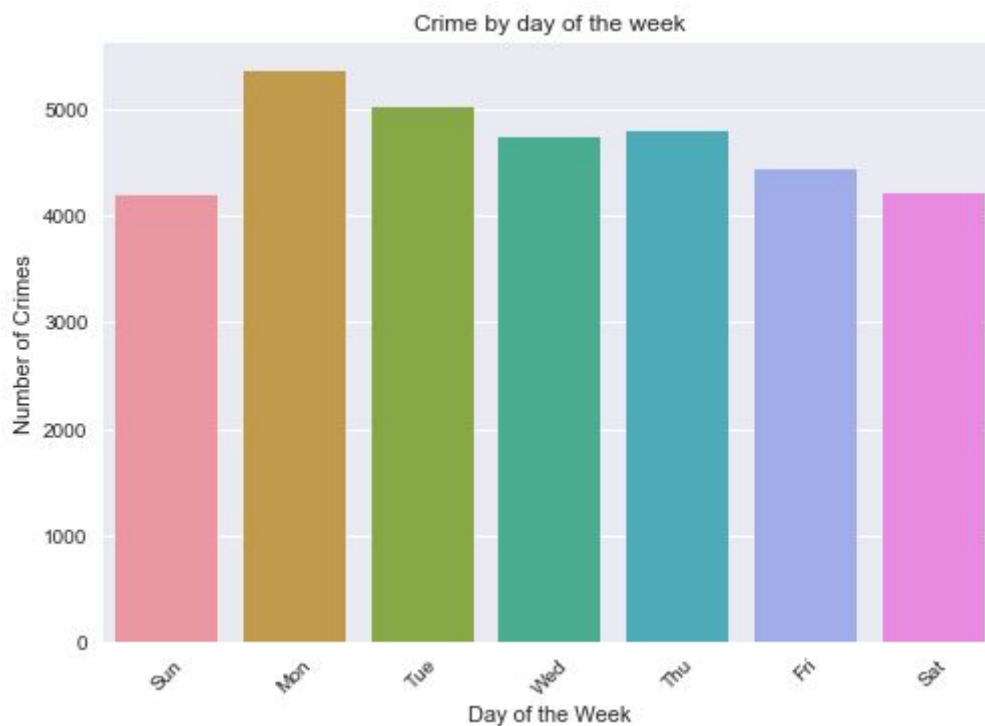


INTRODUCTION

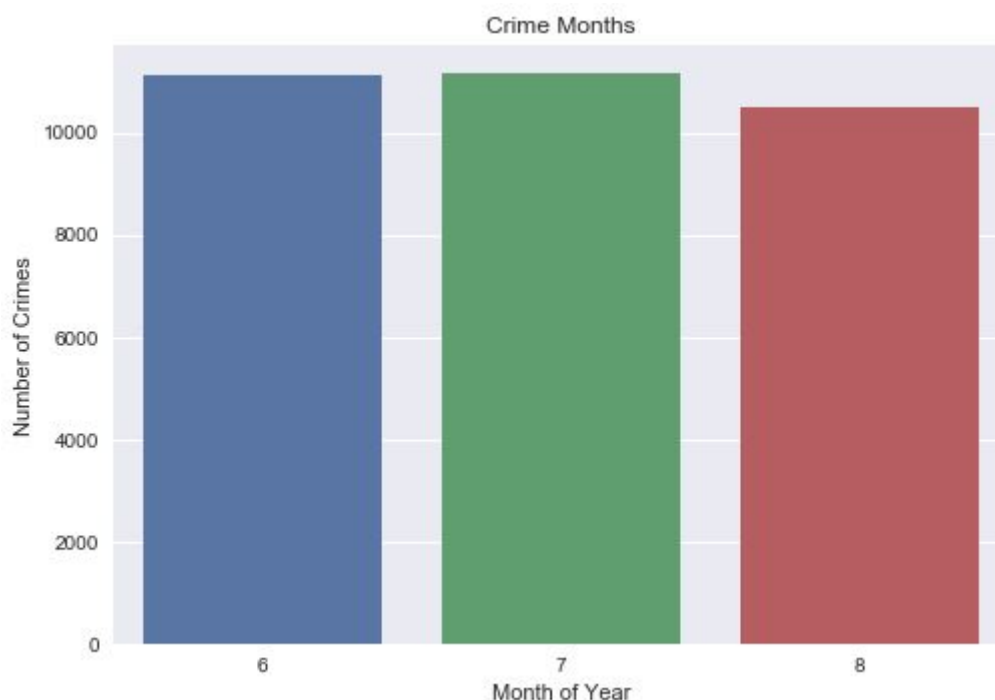
In this study, we use real crime data from Summer 2014 in Seattle city. The dataset is with 32779 records and 23 fields. Our study investigates how Day or Week (DOW) affect crimes.

STUDY

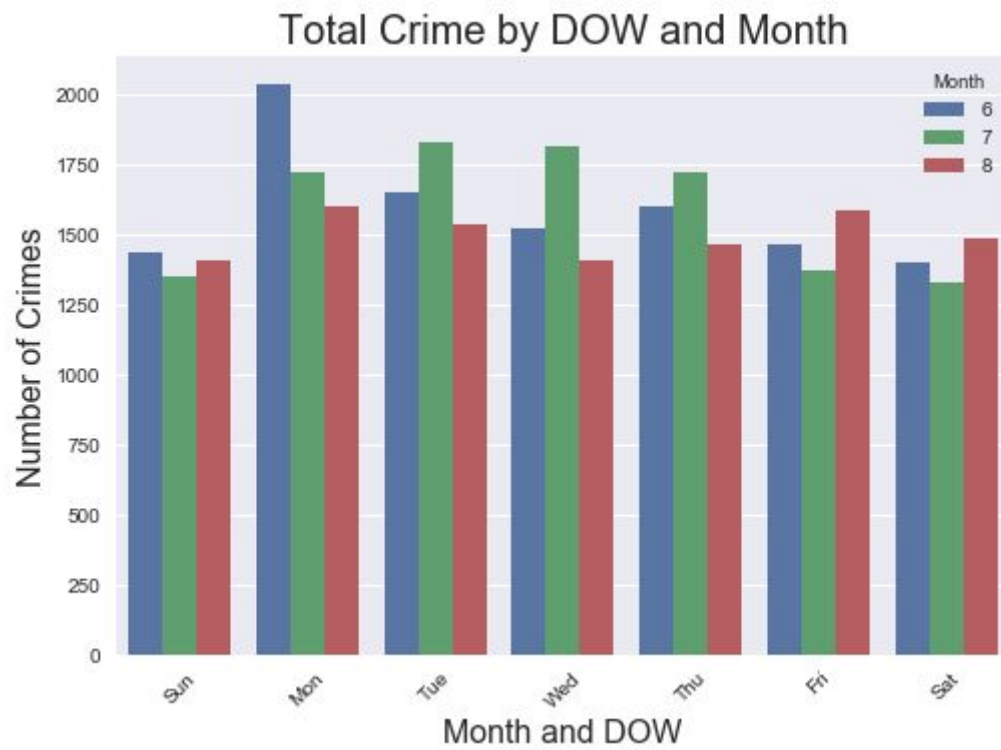
This first step is to plot the number of crimes by day of the week in the chart below. From this chart, we observe that crime is highest on Monday and generally decreases from Monday to Sunday. This is consistent with our expectation that people stay at home during weekends thus crime is less frequent.



A second study is to investigate if this result is affected by months. There are 3 months of data in our study so we plotted the total crimes every month. As shown in the chart below, there is no significant change in the number of crimes in three months. August is with less crimes but it is not statistically significant.



Then we further plotted the number of crimes by DOW and month in the following chart. From this chart, we noticed that the decrease of crime from Monday to Sunday is not observed in every month. But we still observe that there are more crimes on Mondays than Sundays.



CONCLUSION

From the study, we noticed that crime is highest on Mondays during summer months in Seattle. Our recommendation is that people shall be more careful on Mondays to avoid such incidences.