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Tableau Visualization:   
Larceny from Motor Vehicle   
in Boston

ALY 6070\_Communication and Visualization for Data Analytics

# **Introduction**

Larceny from motor vehicle has been the top 3 crime in Bay Area for years. Last year, the police got almost $4 million to combat the crime. In this paper, we will go through the data of crime incident reports in Boston to the police department of Suffolk county and discuss the Larceny from MV situation in East Boston and the southern area.

# **Analysis**

In the last 4 years, larceny from motor vehicle has a decreasing trend in Boston. But the number goes up in the first few months of this year, especially when most people are stayed at home and crime cases are generally goes down. The first visualization (Larceny from MV by Year) illustrate the trend. When we dig out more into the data, we’ll find the second chart on the upper right of the dashboard (Larceny from MV by District). There are three districts have an increasing trendline, which are C11(yellow), B3(green), and A7(orange). Corresponding to the map on the lower left, we could see that these districts are located in the East Boston and the southeastern of Suffolk county. District E5(red) and E18(brown) are having much plain trends. But when we see the time of occurrence, the peak hour of reporting cases in Boston is at 18:00. While E5 and E18 districts, it is between 21:00 to 22:00.

The five visualizations on the dashboard illustrate the larceny from MV cases by time and locations, which are the key points we need to explain the business problem. I also have a chart of larceny cases by month showing that summer would be the top month of larceny cases occurrence. This chart is not included in the dashboard because we could see the seasonality through the by year chart, and it doesn’t help much on explaining the issues from the districts aspect.

A close up of a map

Description automatically generated

*Figure 1*. Dashboard page

# **Conclusions**

All the 5 areas are residential. Data indicates increasing trend in A7, B3 and C11 districts since 2015. Larceny cases from E5 and E18 districts reported at nights means people get robbed at home by the time of bed. These are considerable situation in the East Boston and southeastern area.

# Reference

1. Analyze Boston. *Crime Incident Reports (August 2015 – To Date) (Source: New System).* Retrieved from: <https://data.boston.gov/dataset/crime-incident-reports-august-2015-to-date-source-new-system>
2. Geha, J. (July 26, 2019). *Bay Area police to get nearly $4 million of state surplus to combat car break-ins*. Retrieved from: <https://www.mercurynews.com/2019/07/26/local-police-to-get-nearly-4-million-of-state-surplus-to-combat-car-break-ins/>