

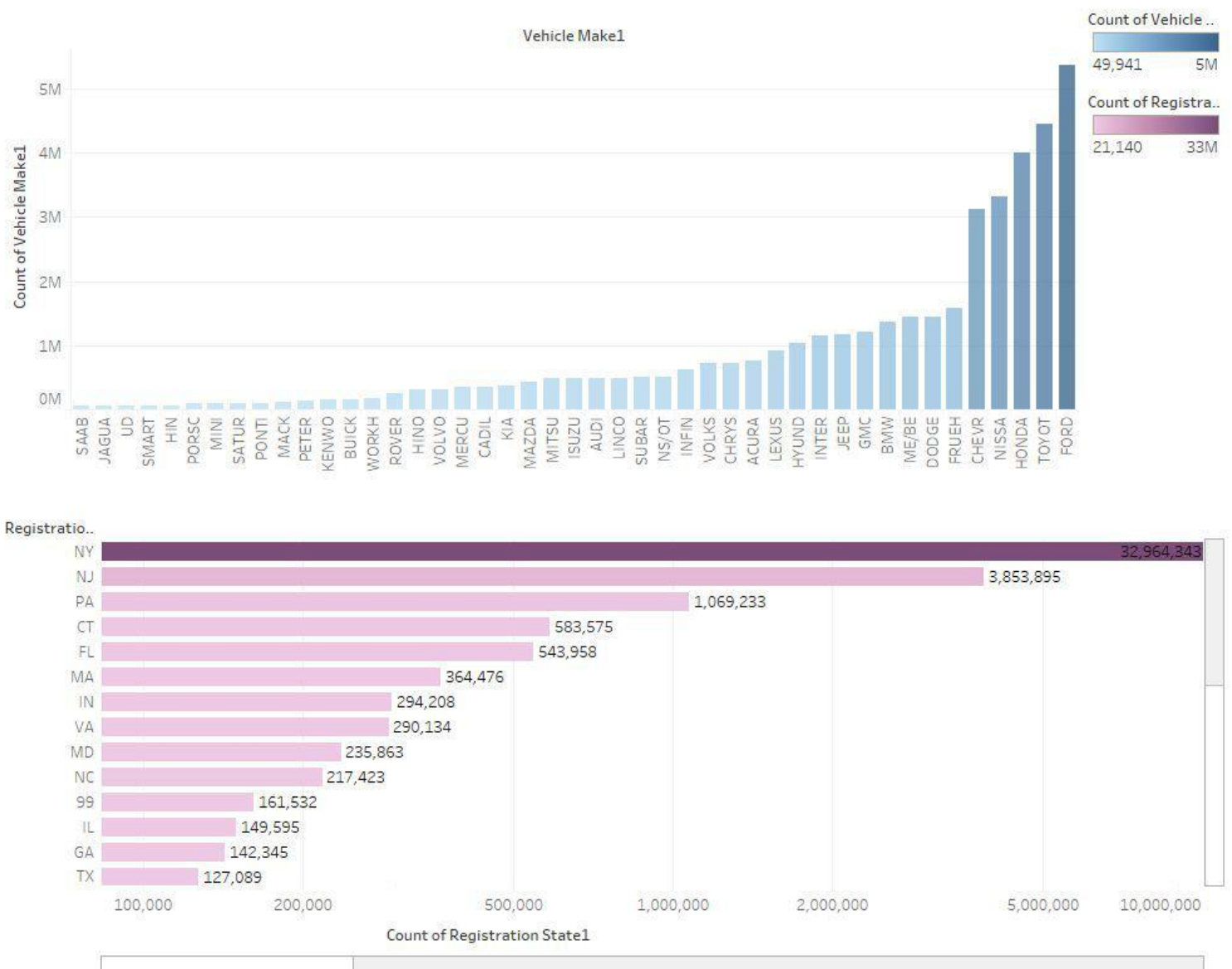
1st Progress Report: Title, abstract, materials and method, and graphic displays on data and computed pattern information.

An Analysis of Parking Tickets Issued In NYC from 2013-2017 Dataset

Our dataset is a compilation of parking tickets issued in NYC from 2013 to 2017 by the NYC Department of Finance and contains ~40 million entries that we can use for our data analysis. Features include time, date, type of violation, as well as details about the vehicle itself.

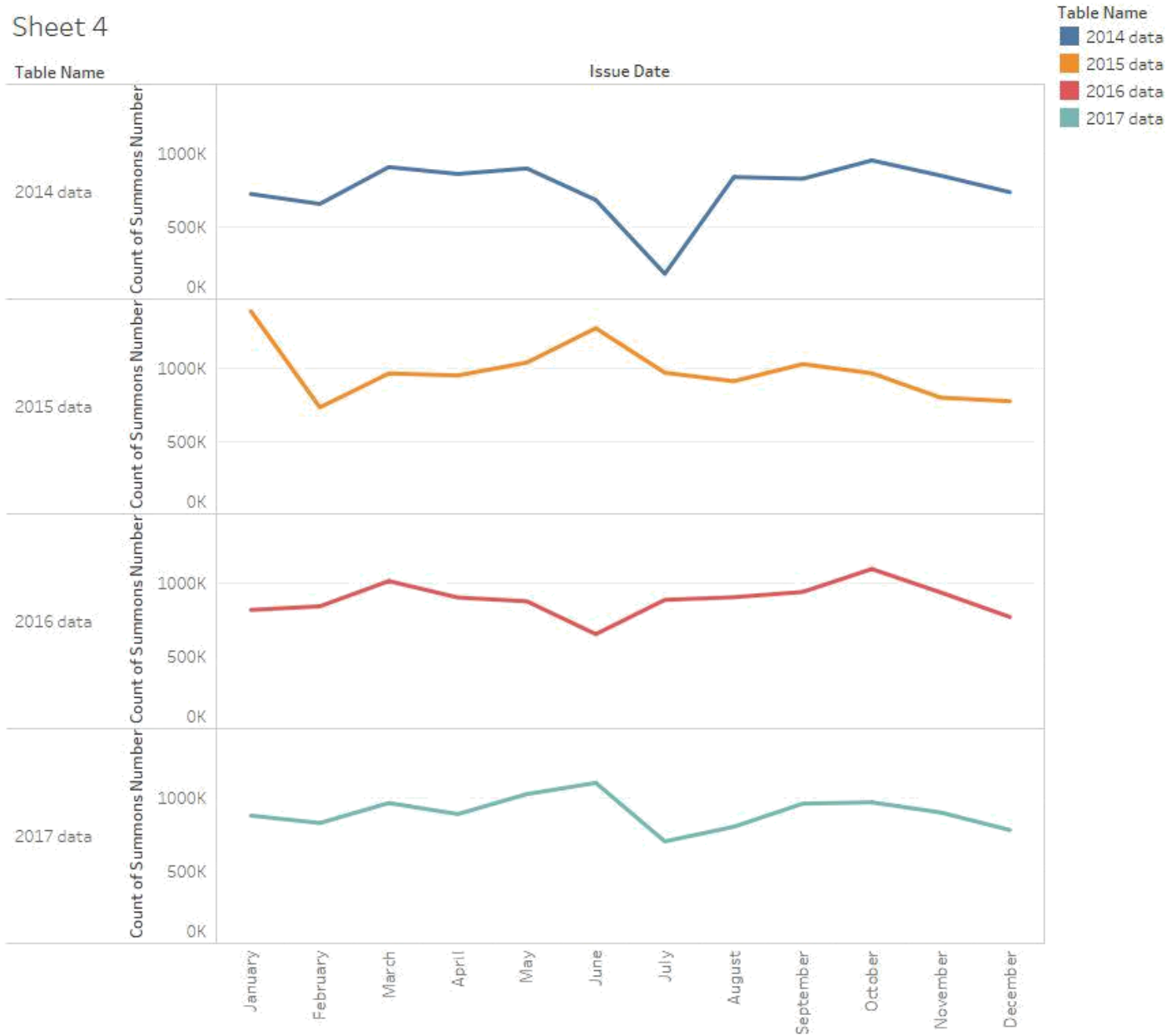
On the first chart we can see that most vehicles that got a ticket are ford, followed by Toyota and Honda. This seems reasonable since ford is the brand that sold the most base on a 2017 data set followed by Toyota and Honda. <https://www.statista.com/statistics/264362/leading-car-brands-in-the-us-based-on-vehicle-sales/>

In the second chart shows that the majority of cars that got a ticket were from ny which is probably because they live in new York. The rank seems to have some sort of relation with the distance from new York tot the registration state of the car.



This time line graph shows some sort of seasonality for years 2015, 2016 and 2017. March always seems to have a peak and start decreasing around the month of July. Then it decreases again in October

Sheet 4



The street with most tickets was Broadway. This is probably because it is the most busy street in new York. I wanted to see what was the most type of ticket in that street. Let's explore more on the type of tickets issued on Broadway.

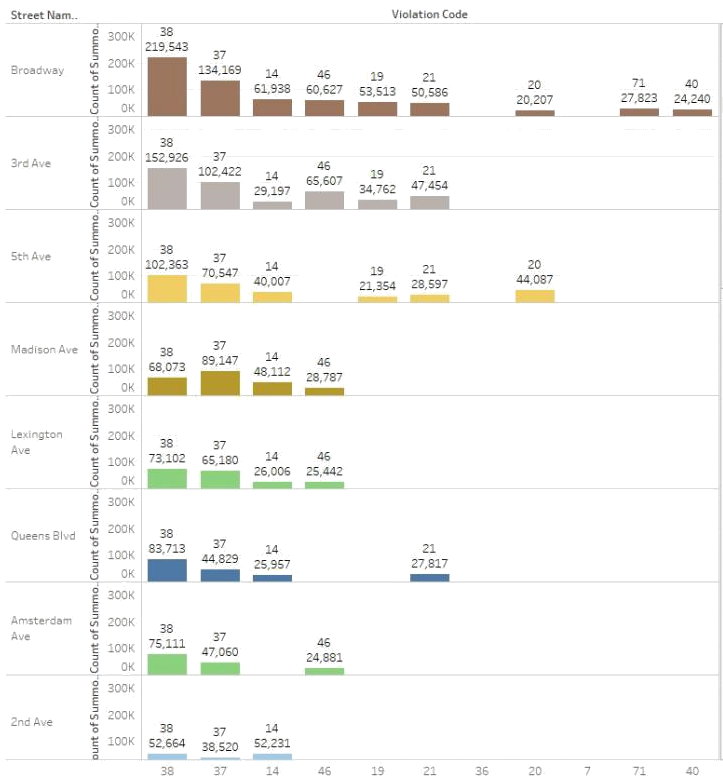
Sheet 5



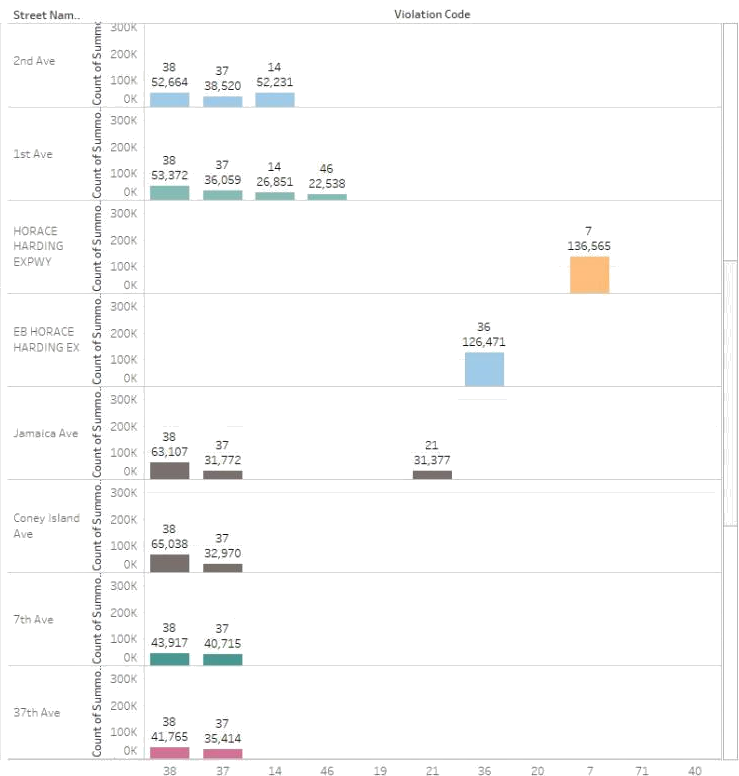
After some research we were able to find what each code mean

<https://www1.nyc.gov/site/finance/vehicles/services-violation-codes.page>

Sheet 9



Sheet 9 (2)



38=Parking for longer than the maximum time permitted by sign, street marking or traffic control device.

37=Parking Meter Parking in excess of the allowed time

14=General No Standing: Standing or parking where standing is not allowed by sign, street marking or; traffic control device.

46=Standing or parking on the roadway side of a vehicle stopped, standing or parked at the curb; in other words also known as "double parking".

19=Bus Stop: Standing or parking where standing is not allowed by sign, street marking or; traffic control device.

21=Street Cleaning: No parking where parking is not allowed by sign, street marking or traffic control device

36=Exceeding the posted speed limit in or near a designated school zone

7=Vehicles photographed going through a red light at an intersection

We can see that every street has a specific type of ticket that predominates.

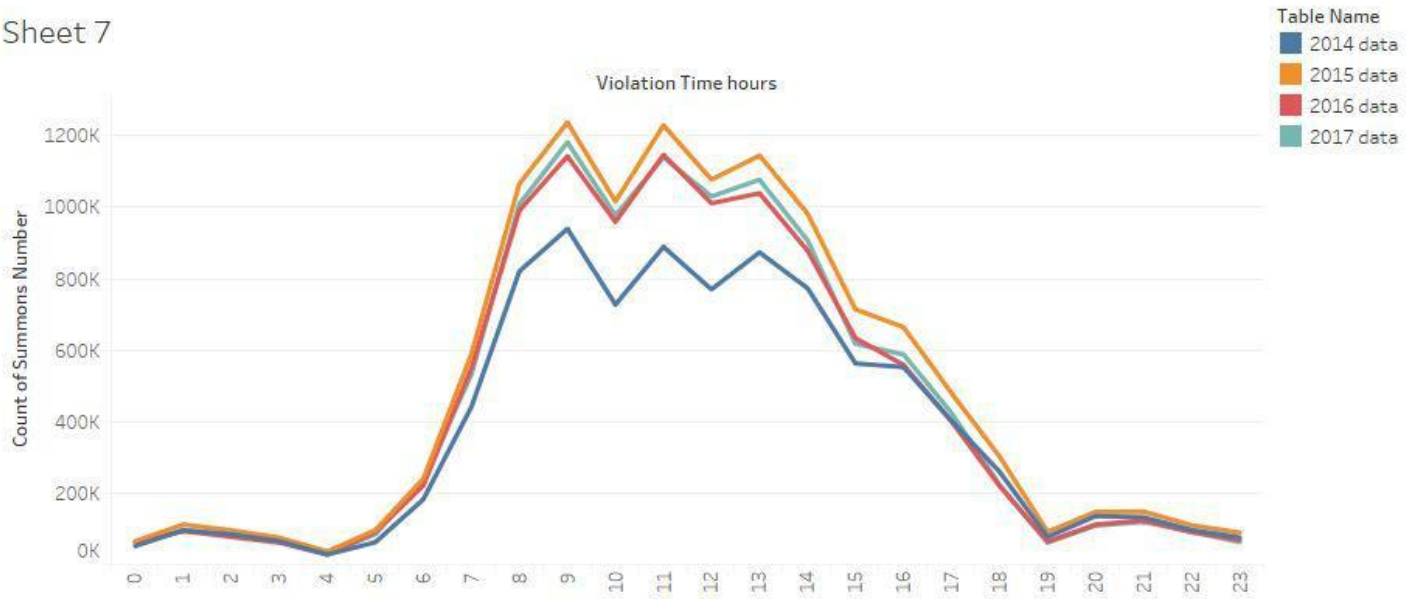
We also wanted to inspect if the color actually made a car more likely to be ticketed so first we plotted the amount of tickets categorized by the color of the car.(white needs to be fixed)

<Color>



It is shown that there is some sort of trend related to hours of the days and days of the week.

Sheet 7



Sheet 8

