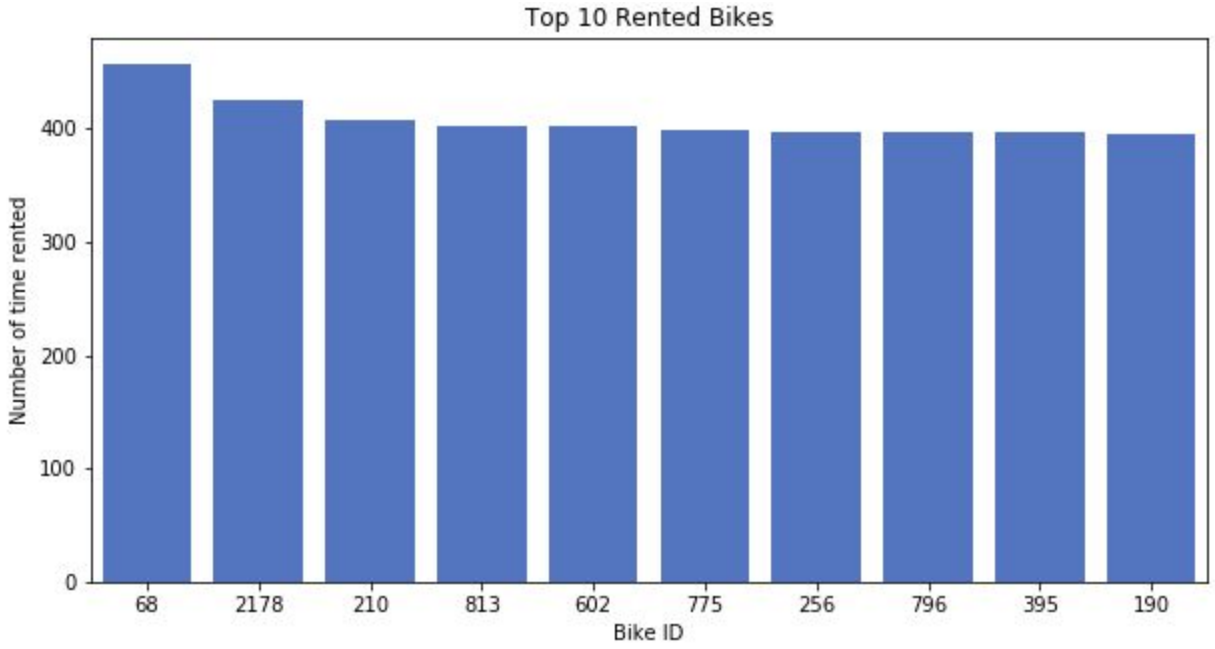
BayWheels Lyft Analysis

Exploratory Data Analysis :-

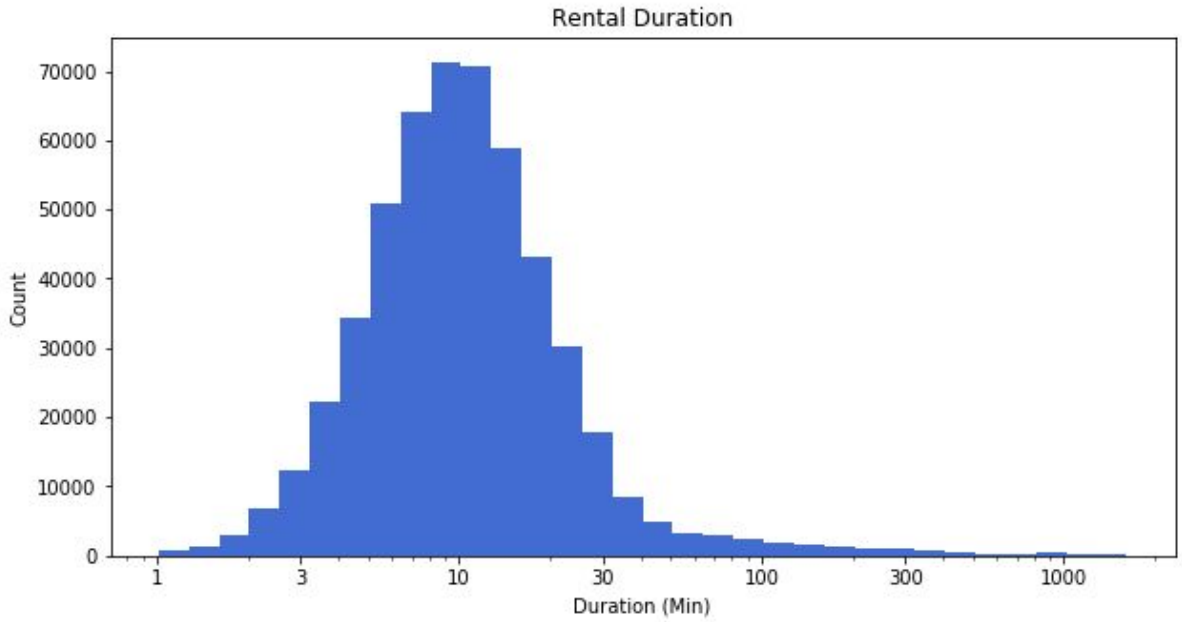
1- Checking for the data types and missing values , we found there's no missing values and the data set consists of 519700 entries and 13 columns.

2- We found that the start_time and end_time columns weren't parsed to date format during the reading of the CSV, so it's successfully changed.

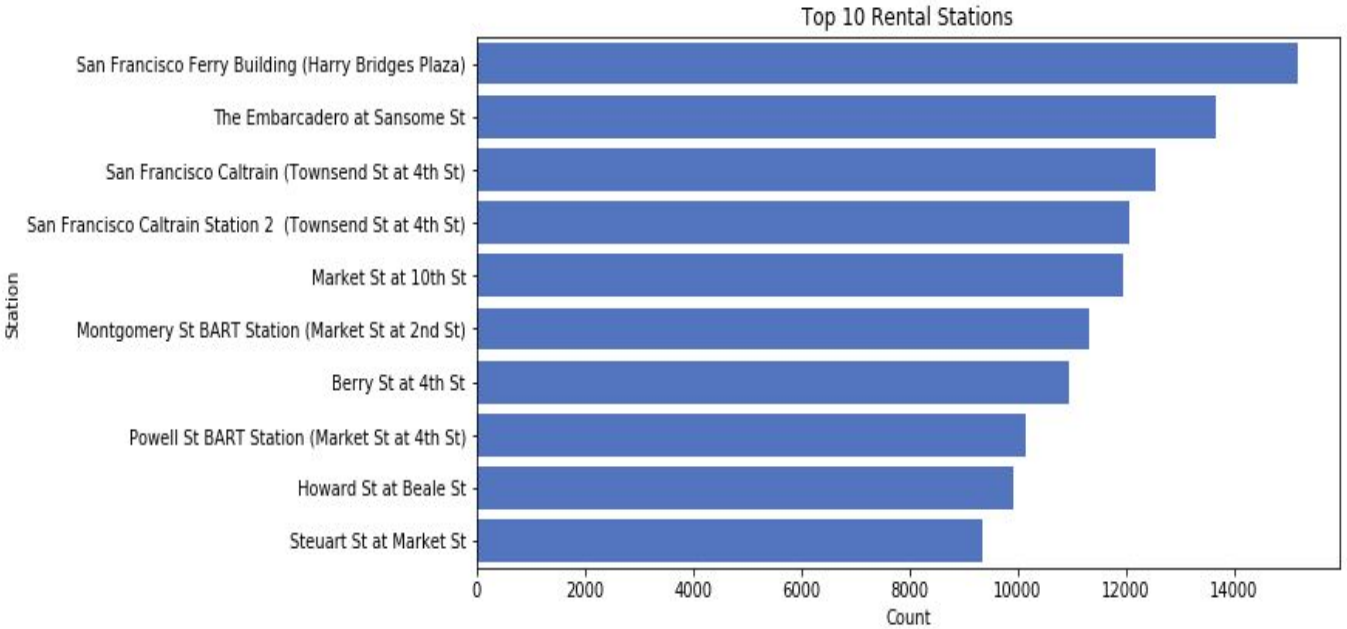
3-Using the bike_id column we found out that there're 3673 bikes in the service, with bike with id 68 being rented the most.



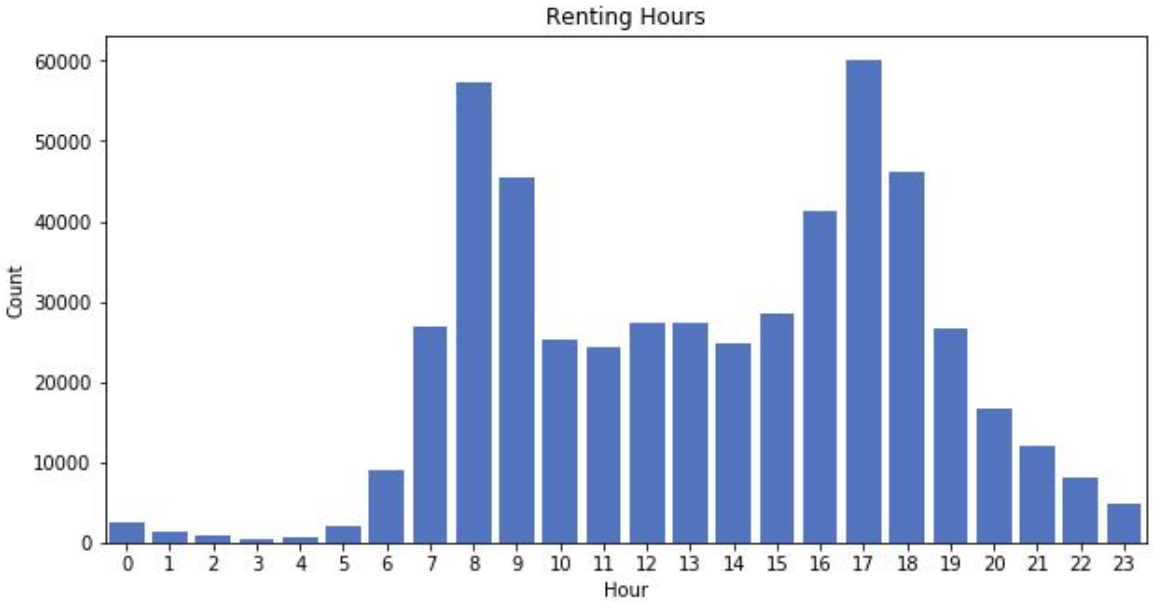
4-The log of rental duration in minutes approximately follows a normal distribution with median and huge probability around 10 minutes.



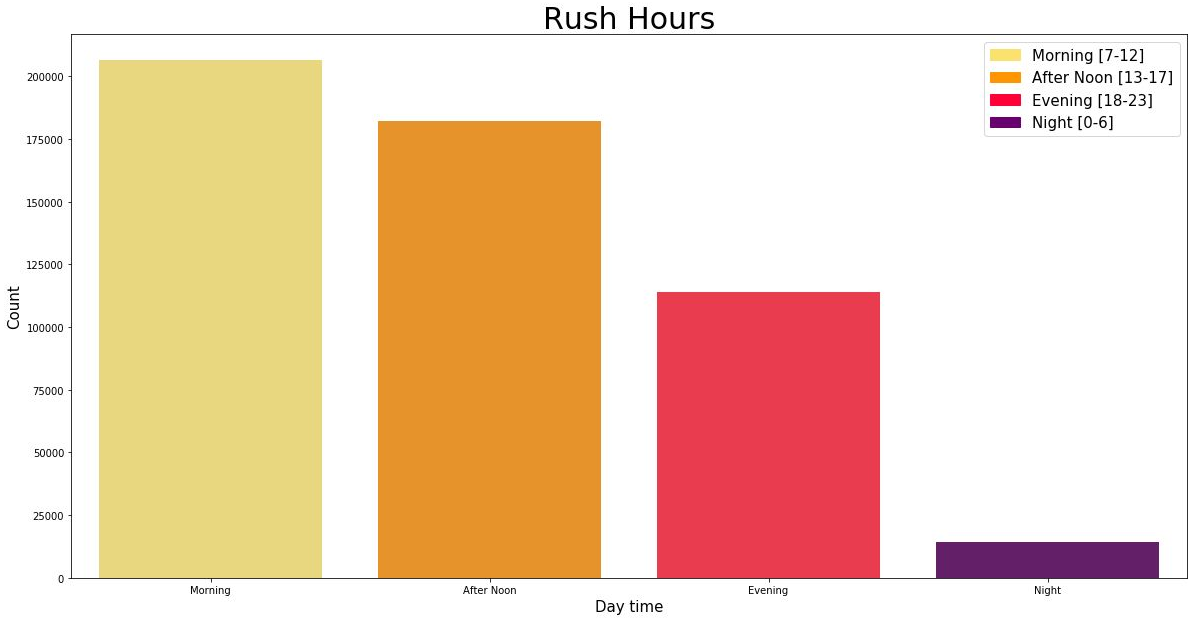
5-The top 10 renting stations (Start of renting) is the following:-



6-The peak hours for renting is around 8:00 AM and 5:00 PM

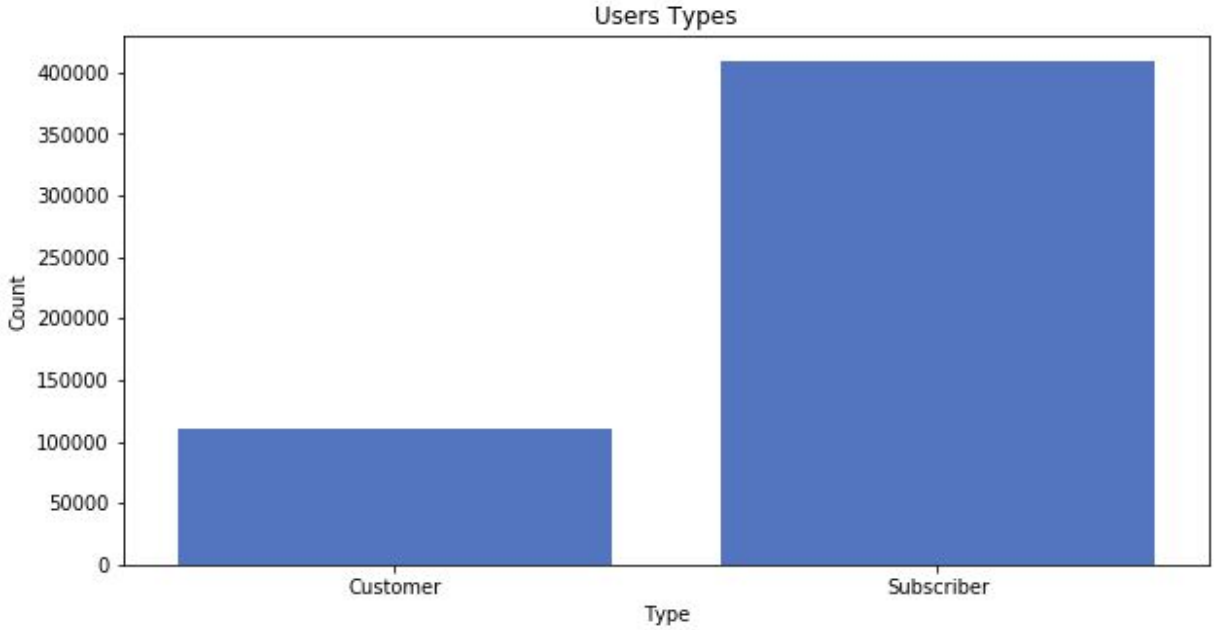


7-After that we grouped the hours on categories of (Morning , After Noon, Evening , NIght) :-



Founding out the most of the rentings happens on the morning between 7:00 AM and 12:00 PM

8- Then we examined the ratio between the two types of users (Customers and Subscribers)



We can do any further proportions since we don't have a unique user ID , but this ratio is close to reality