

SDAIA BOOTCAMP PROJECT 1 -EDA

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Database



Step 1

Create a server on AWS RDS

Step 2

Connect it with Postgres

Step 3

Import my dataset CSV file as a table in the database

Step 4

Create an connection with SQLAlchemy in python

Problem

MEMO-RICH a company that sells merch across the U.S wants to place five new trucks that sell souvenirs for the tourists in summer in front of the MTA subway stations, the company wants to optimize the profits by placing the five trucks in the stations that are on high demand in the Summer.

Dataset: extract the MTA turnstiles dataset from the date **19 June 2021** until **22 September 2021**



Cleaning



Step 1

Renaming columns

Step 2

Removing duplicates rows

Step 3

Calculating the daily exits and entries

Step 4

Removing outliers
Using Boxplot

Two Issues :

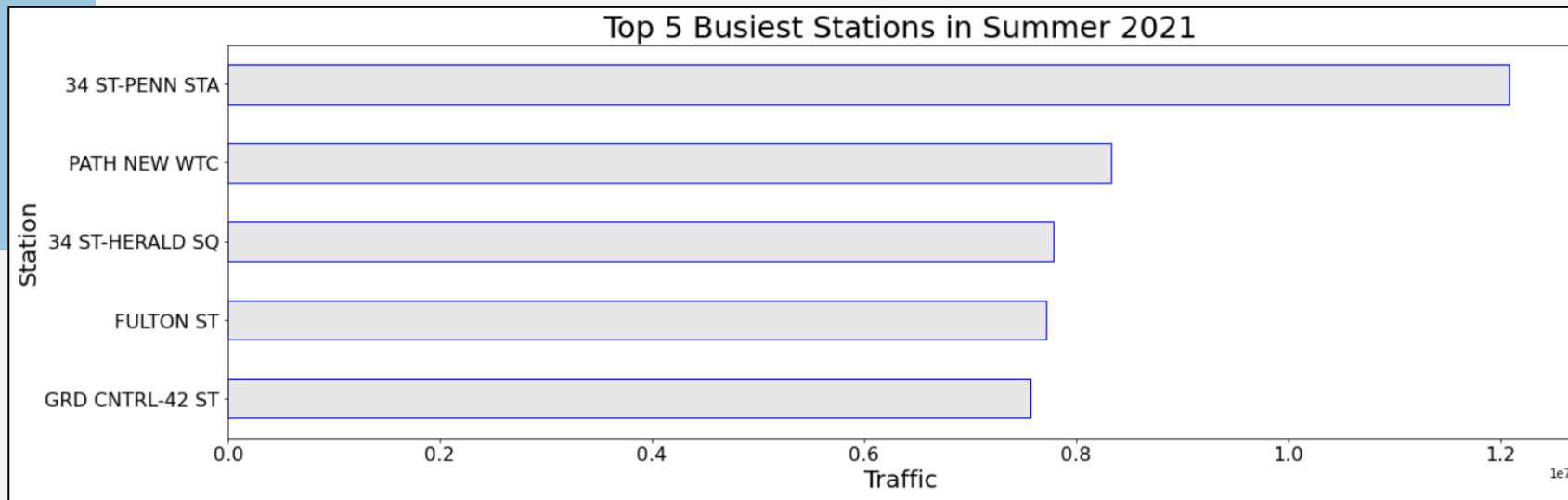
1- Counter reversed (Solved)

2- Counter reset (Solved)

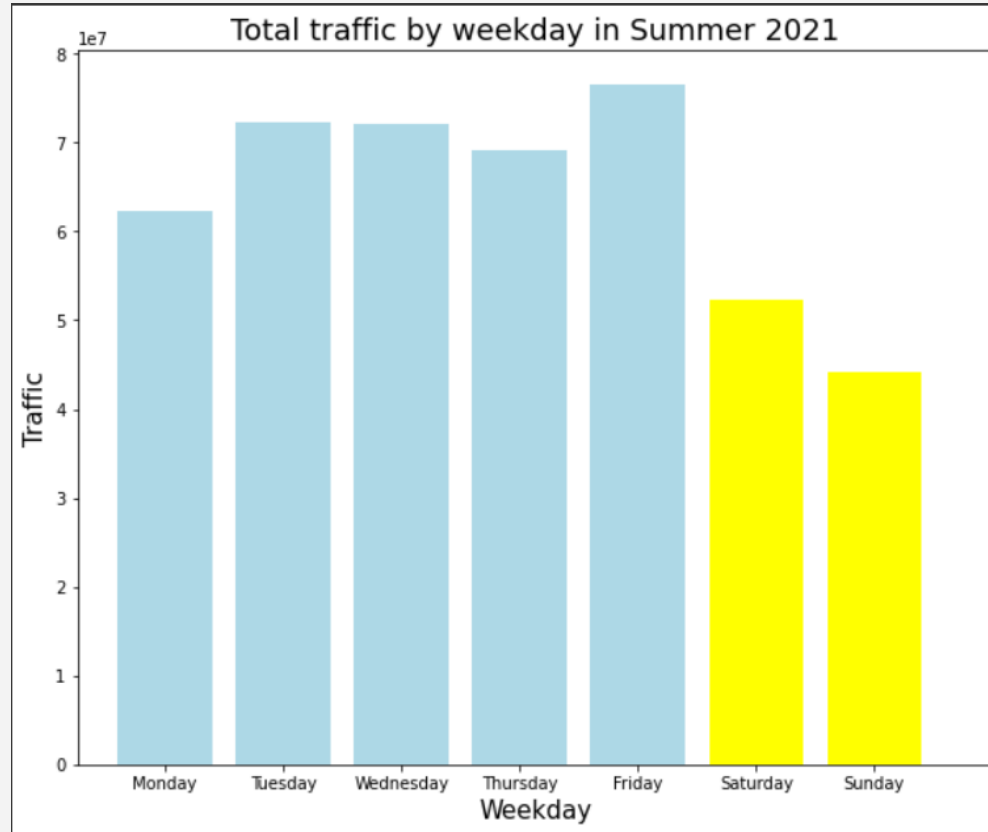


EDA graphs

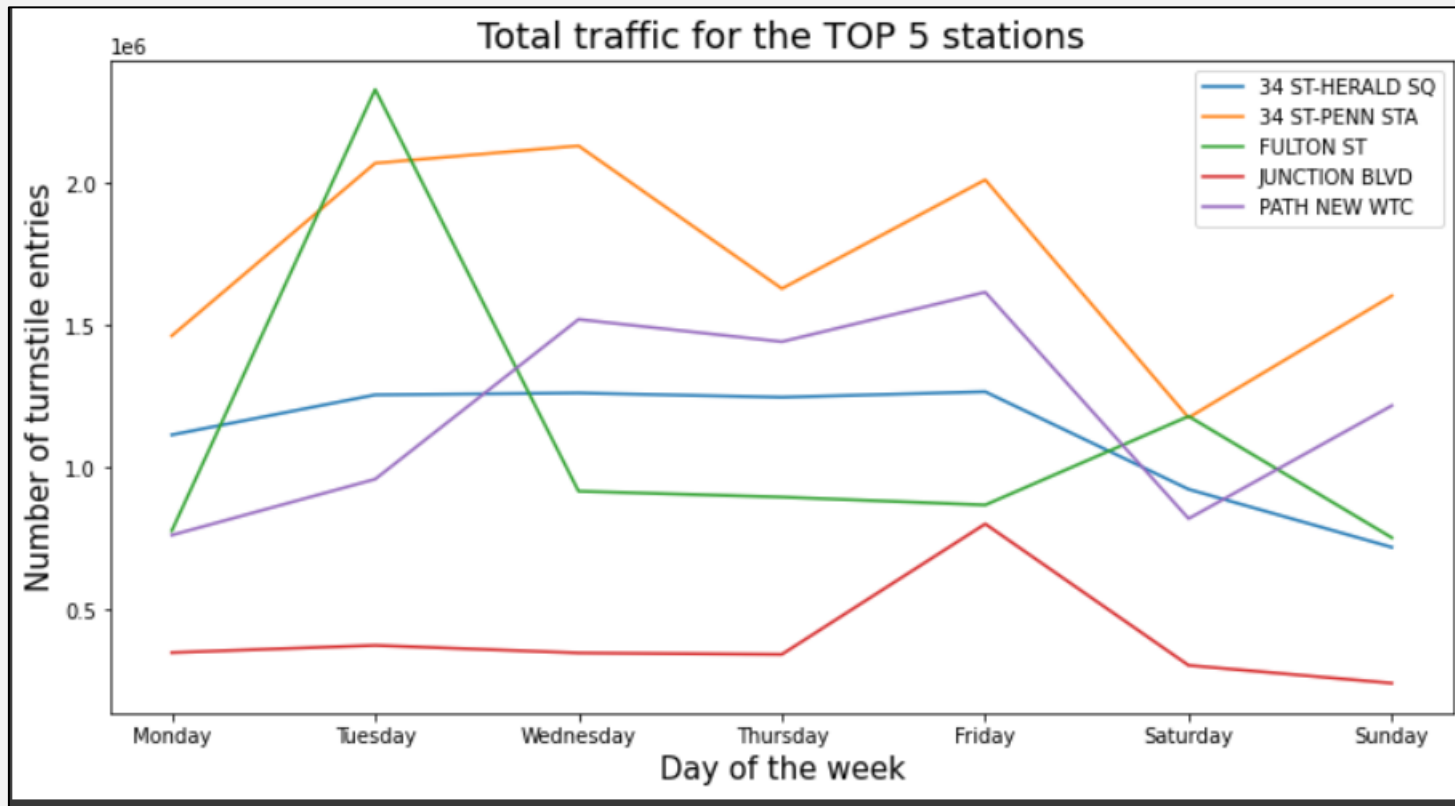
Top 5 Stations



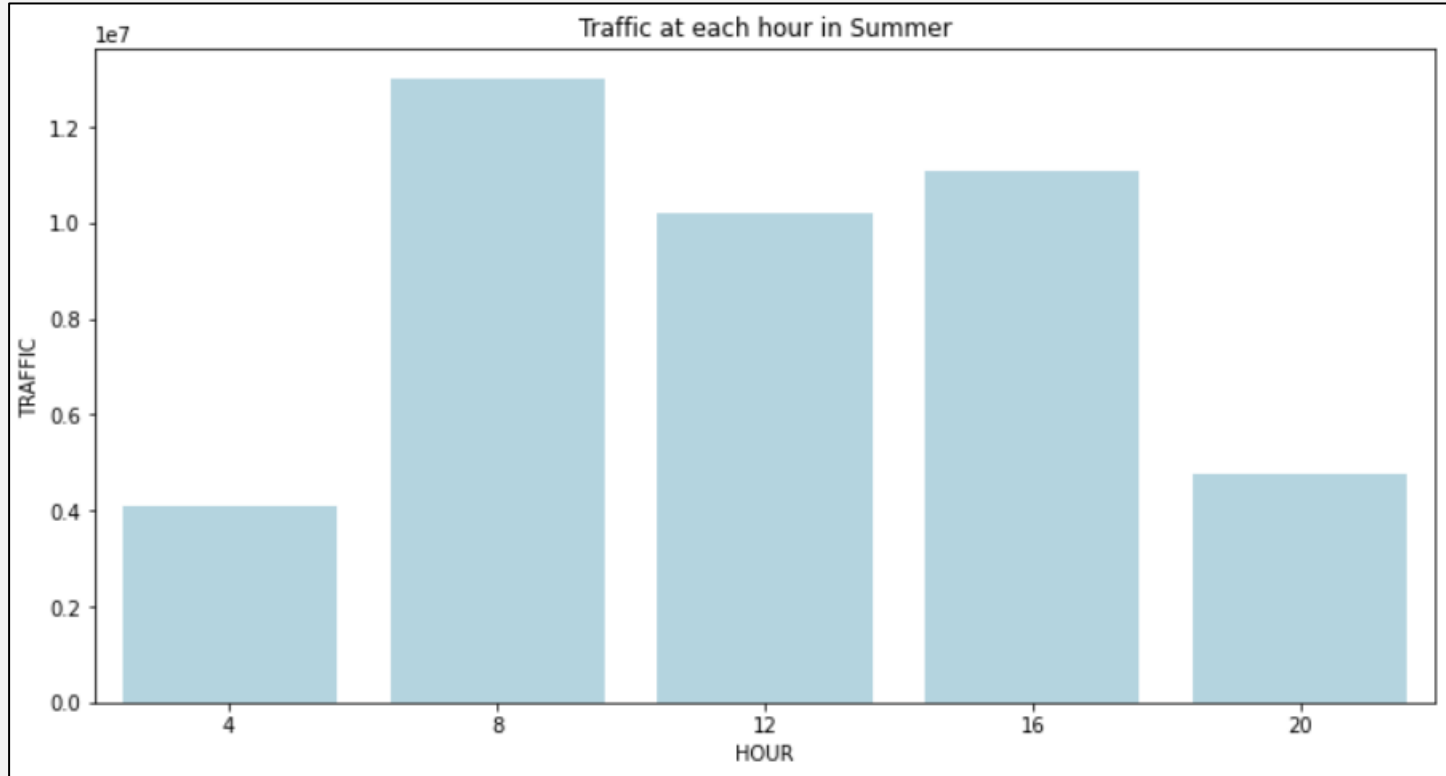
Busiest weekdays



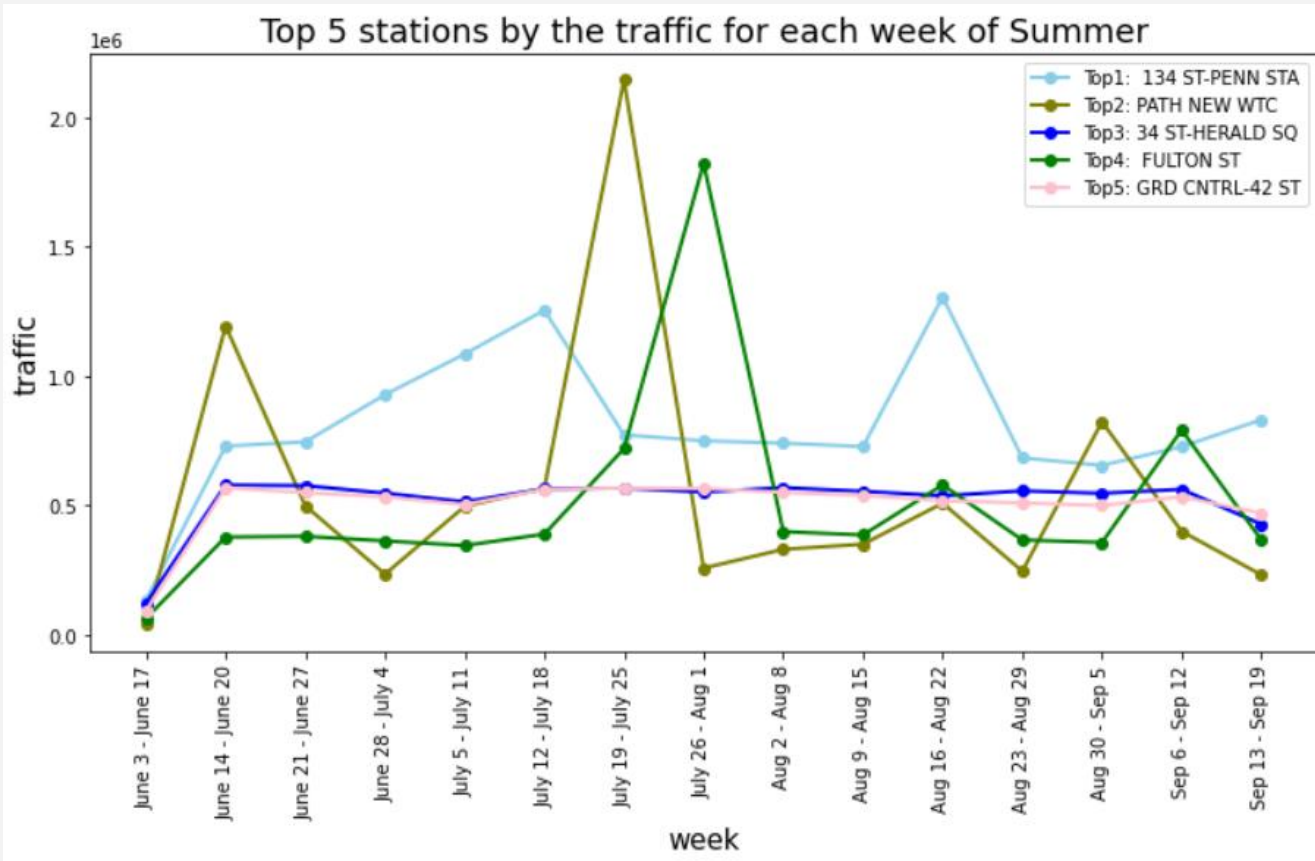
Top 5 stations traffic by weekdays



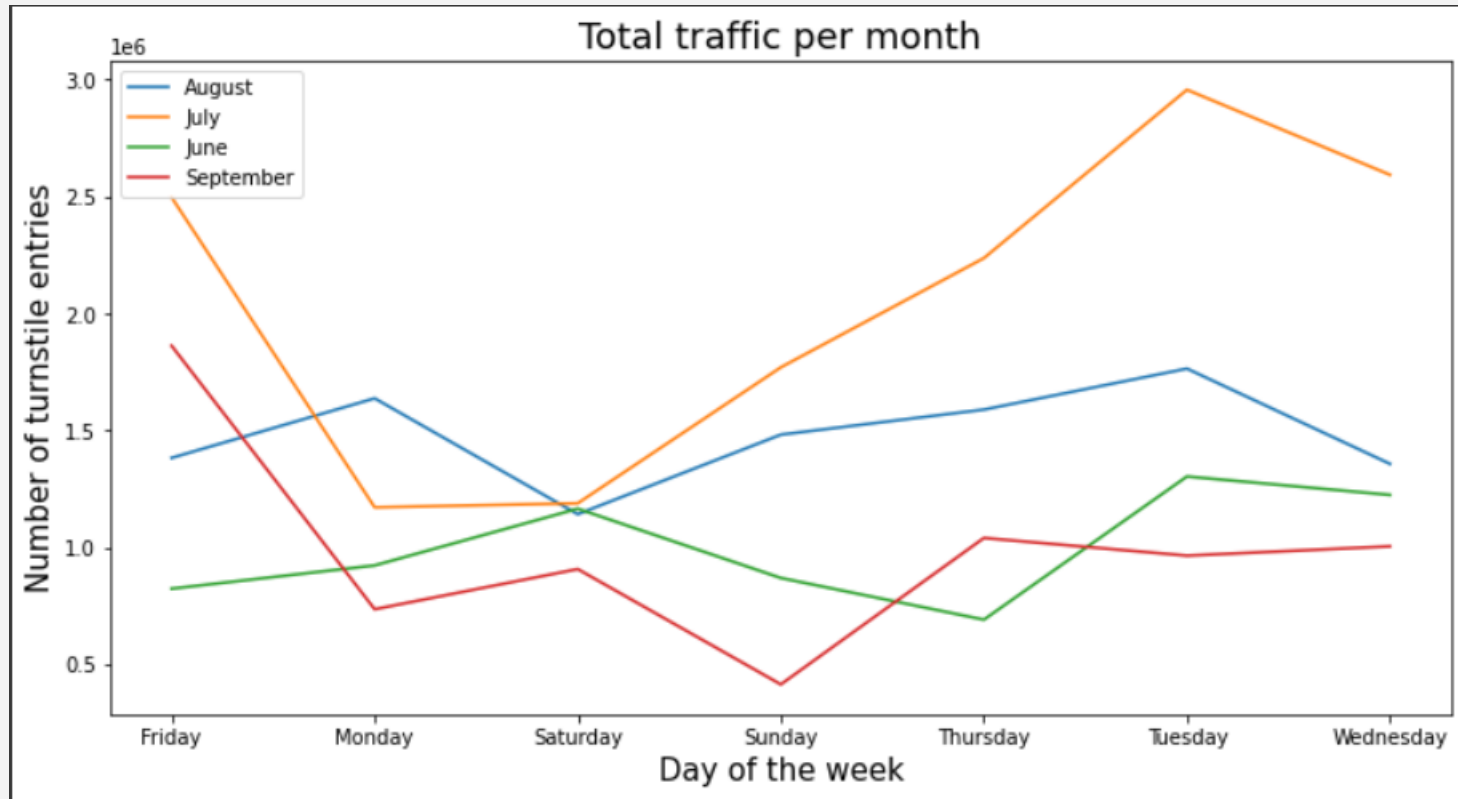
Traffic per hour



Traffic per week



Traffic per month



Conclusion and Recommendation

- Focus on weekdays.
- Place the 5 trucks Infront of the Top 5 stations'
- Best opening times are 8 AM -4 PM



Thanks