

NYC Self-Driving Taxis Distribution Plan



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Backstory

The New York City Taxi and Limousine Commission



NYC TLC





Backstory

- TLC have 5000 self-driving taxis
- Distributing 50 taxis at 5 subway stations as the first step for a month, three days weekly
- The only allowed trips is going to the nearest park

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Dataset

Metropolitan Transportation Authority



Dataset

MTA

A series of data files containing numbers of cumulative entries and exits by stations, turnstile, along with their dates and time.

Sample

Last three months of 2019
(October – December)

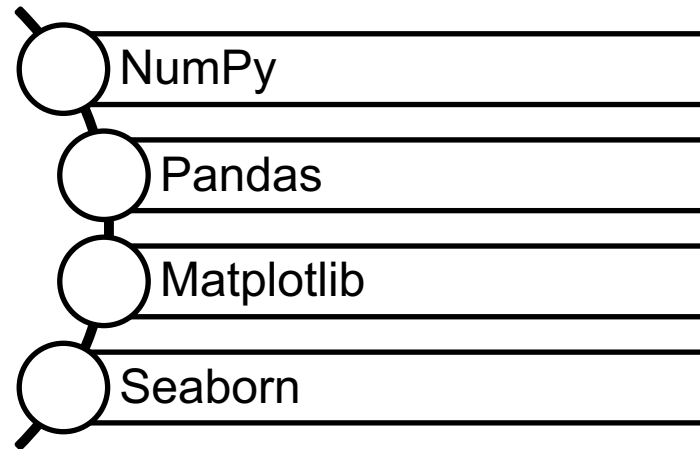
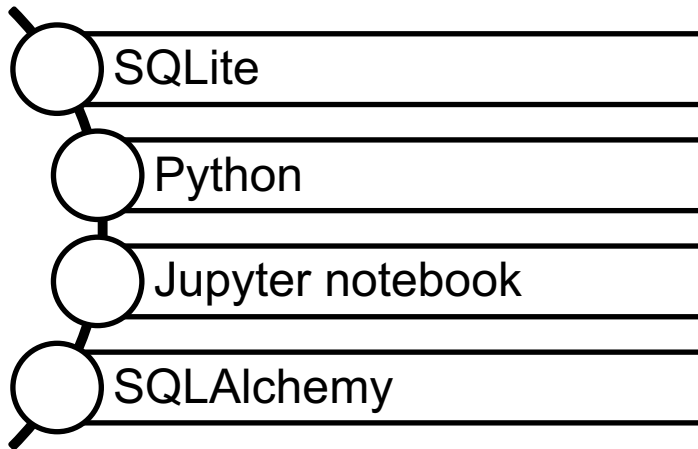
- 2474417 rows
- 11 columns

3

Tools



Tools



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Data Cleaning



Data Cleaning

Check nulls

**Fix
columns**

**Add new
columns**

**Check
Duplicates**



Data Cleaning

No null
values

**Fix
columns**

**Add new
columns**

**Check
Duplicates**



Data Cleaning

No null
values

Strip
column
names

**Add new
columns**

**Check
Duplicates**



Data Cleaning

No null
values

Strip
column
names

Date Time
Total EXITS
Park
Month
Day

**Check
Duplicates**



Data Cleaning

No null
values

Strip
column
names

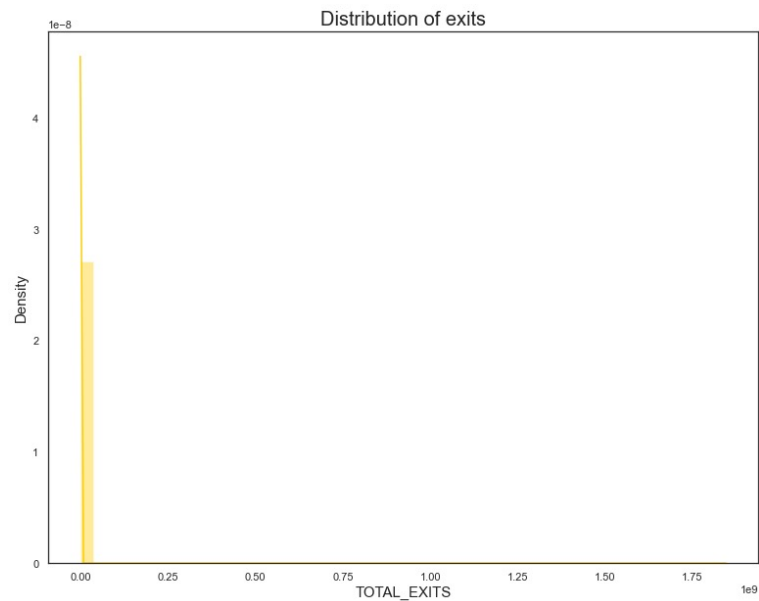
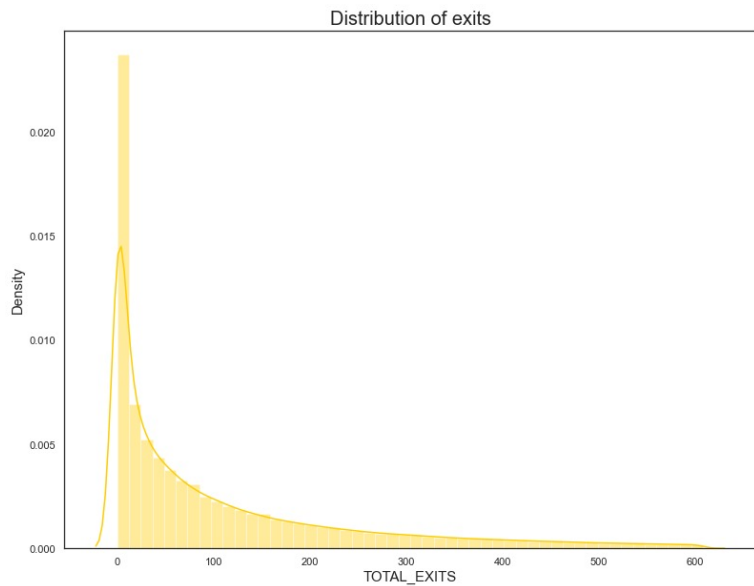
Date Time
Total EXITS
Park
Month
Day

Found
duplicate
rows



Data Cleaning

Outliers

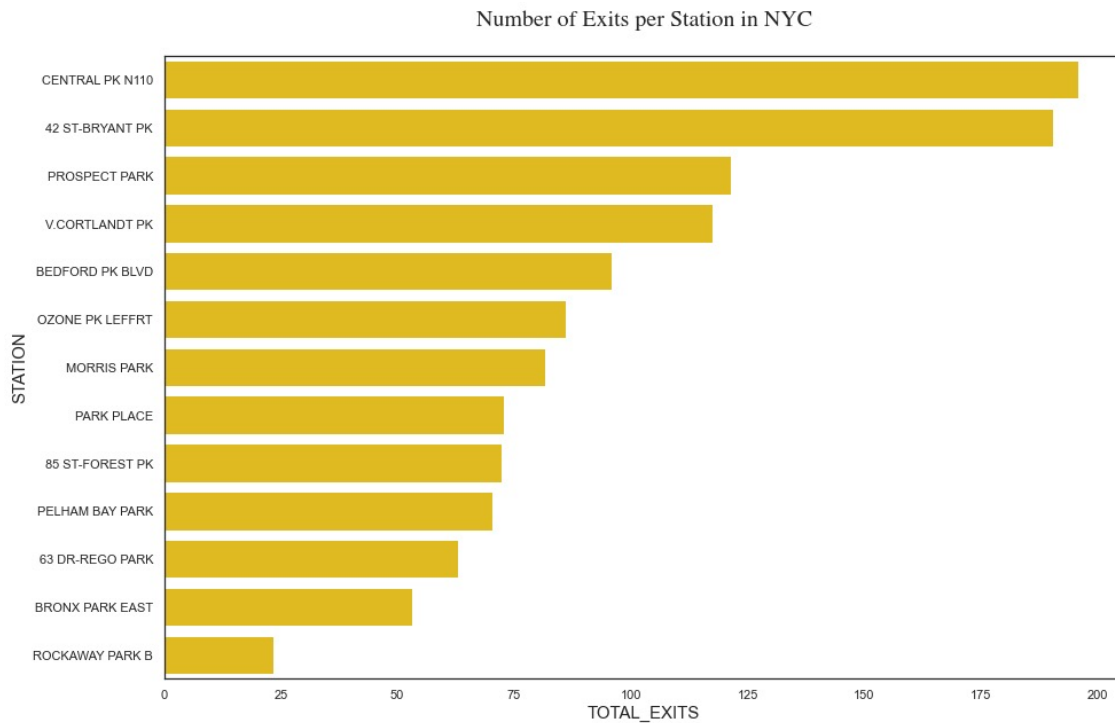


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Findings

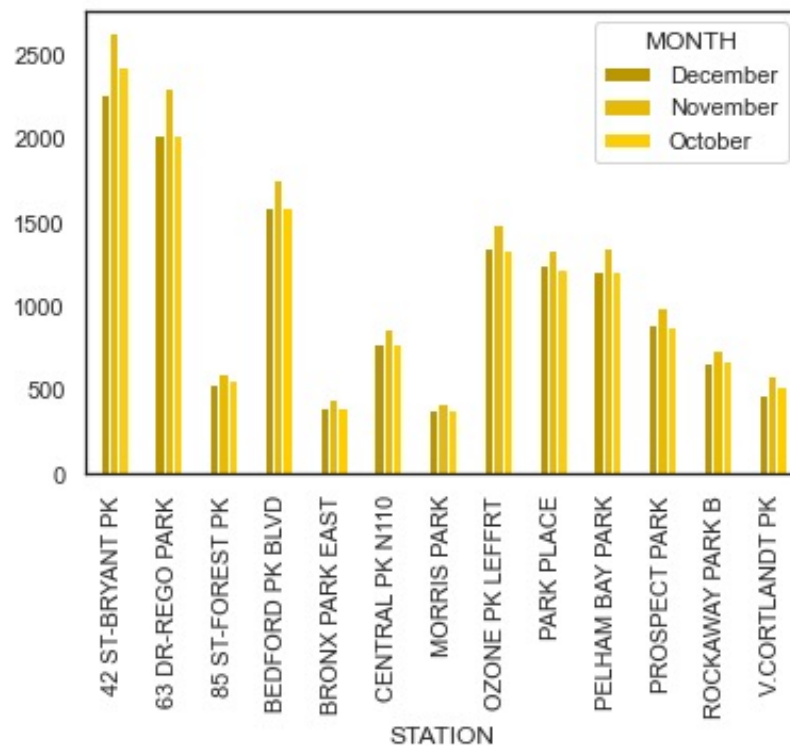


The top stations that are near to a park



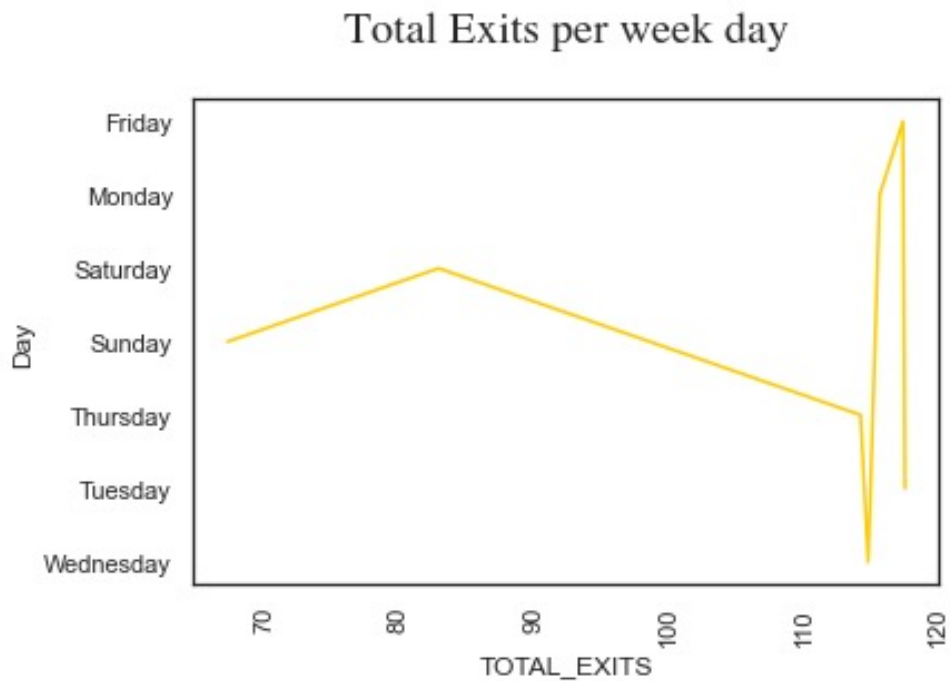


Exits of each station per month



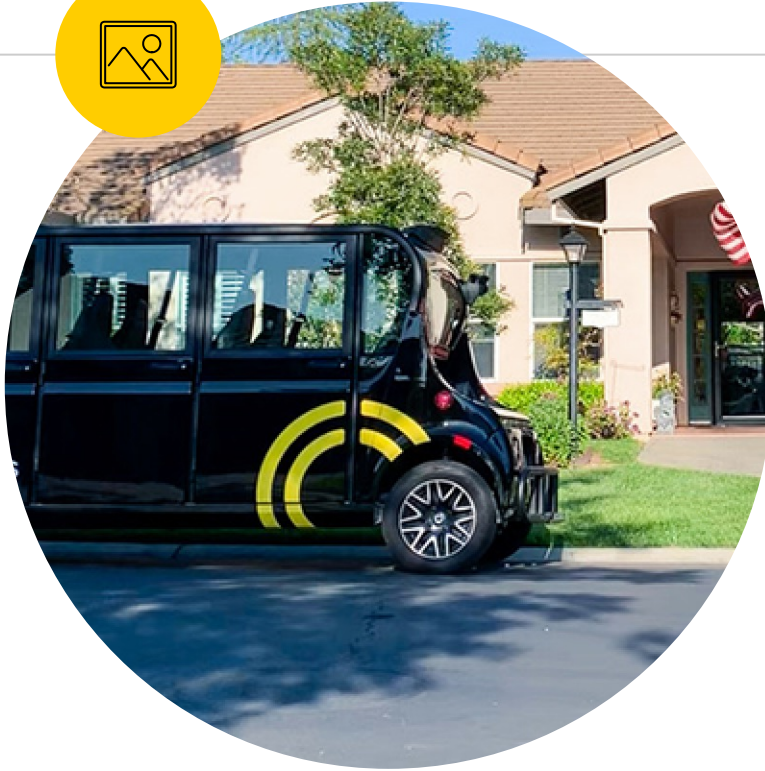


Exits per day



3

Conclusion



What will be the **distribution plan?**

- Monday, Tuesday, Friday
- November
- Stations:
 - CENTRAL PK N110
 - 42 ST-BRYANT PK
 - PROSPECT PARK
 - V.CORTLANDT PK
 - BEDFORD PK BLVD



Thanks!