

Back story:

Al-Sayegh Charitable Foundation wants to establish a charity market during the summer season Alsayegh charitable foundation wants to take advantage of crowded stations to establish the market near to one of the train stations.

Dataset

MTA: data files containing numbers of cumulative entries and exits and stations, turnstile, dates and time

Dataset: from June 22, 2019 to September to 28, 2019. Because it is the duration that corresponds with the summer season.

- Rows 3100324
- columns 11

T005



Jupyter notebook







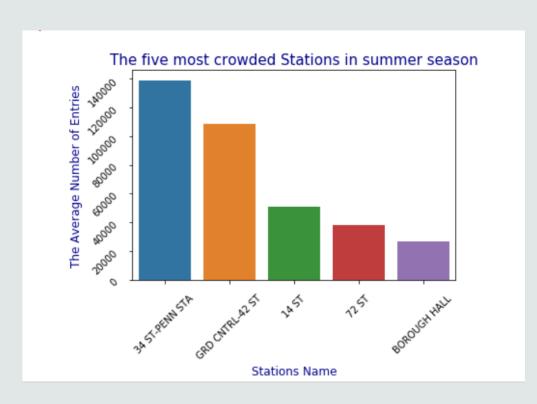


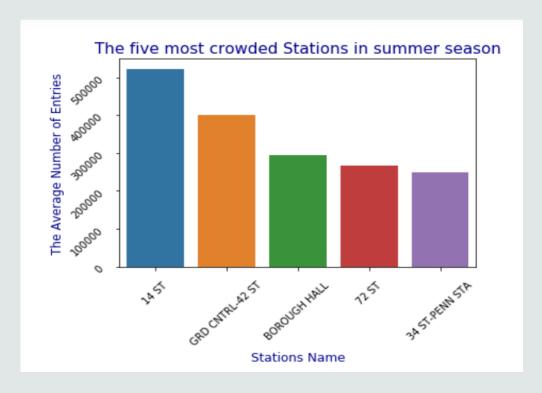


Cleaning data:

- Check nulls: no nulls
- Fix Columns: Strip column names
- Add new columns: DATE and Daily Entries After
- Check Duplicates: drop the duplicate

Bar chart before and after cleaning the data

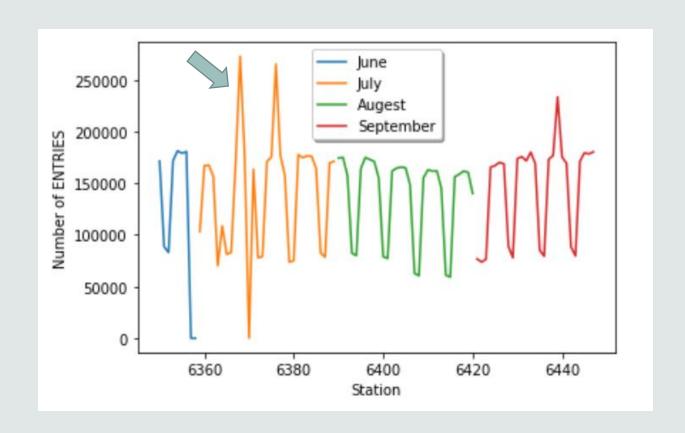




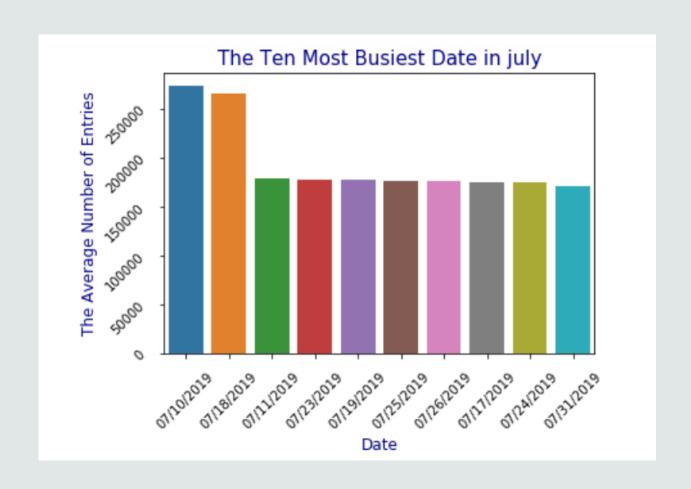
After

Before

The most crowded month



The most crowded date



Conclusion

• We suggest to alsayegh charitable foundation to establish the market in 10th of July near to 34 ST-PENN STA that located at the intersection of 34th Street and Seventh Avenue.

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Future work:

- Determine the best time to establish the market
- Get additional data to study the income for the residents of the area

