



# Yoga Today

EDA Metis June/July 2022  
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# Introduction

- Background Story
  - Yoga Today was an established yoga studio that had closed in 2020 due to the pandemic
  - Now that the Pandemic is over, the team is believes that now is a good time to reopen their studio
- Request asked
  - Requesting our expertise to find ideal areas for a new Yoga Studio



# Methodology

- Tools that were used
  - SQL
    - DB Browser
    - SQL Alchemy/SQLite
  - Pandas
  - Numpy
  - Matplotlib
  - Altair
  - Folium

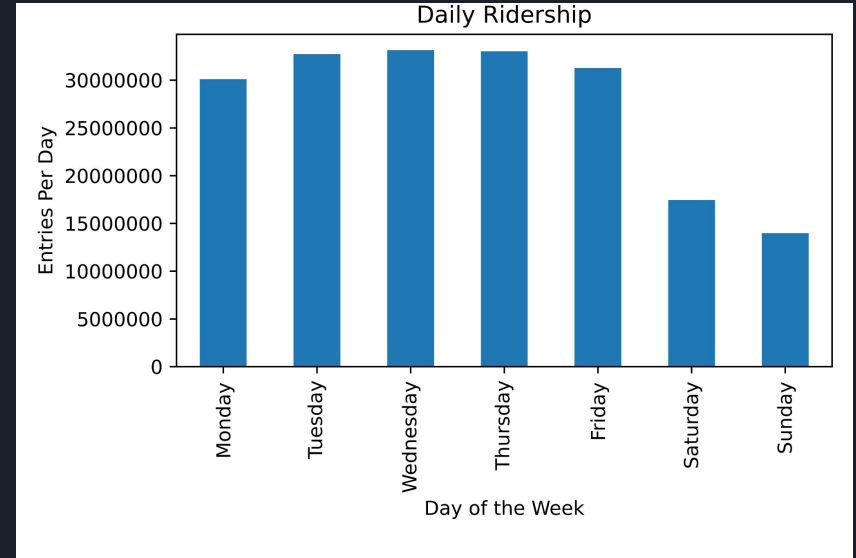
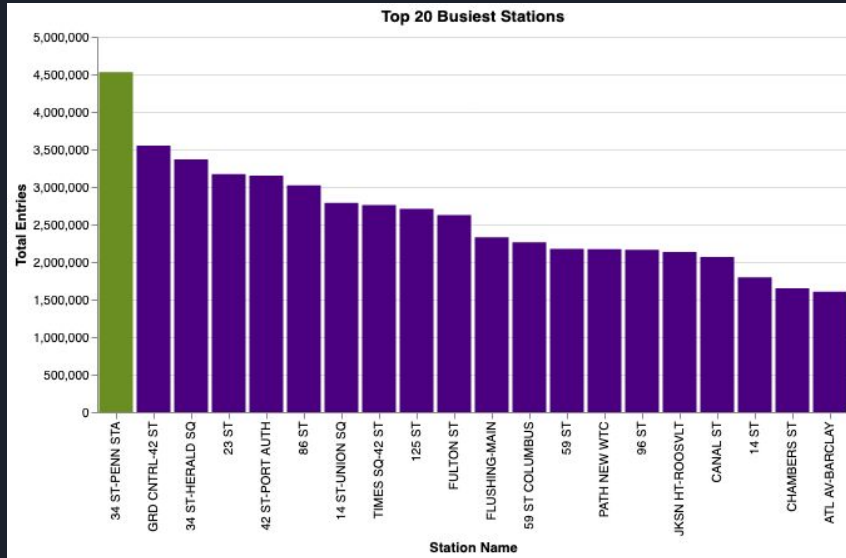
```
%matplotlib inline
import matplotlib.pyplot as plt
import numpy as np
import datetime
import pandas as pd
import altair as alt
import folium
from sqlalchemy import create_engine
from vega_datasets import data
from sqlite3 import connect
# con = connect('mta_data.db')
engine = create_engine('sqlite:///Users/lindango/')
con = engine.connect()
```

# Results

- Top 20 Busiest Stations
- Total Riders by the days of the week

```
indexes = ['Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', 'Saturday', 'Sunday']  
dotw_entries.index = indexes  
dotw_entries
```

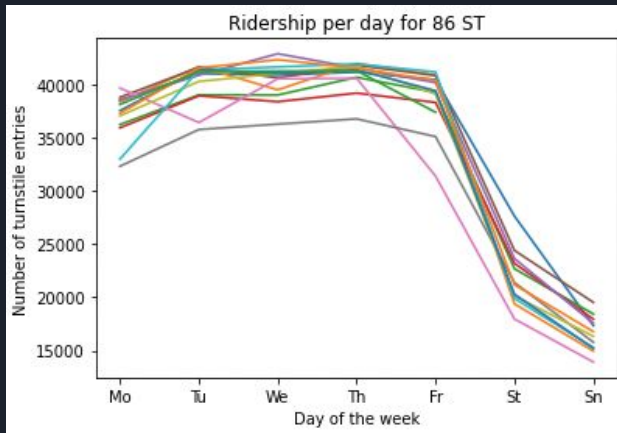
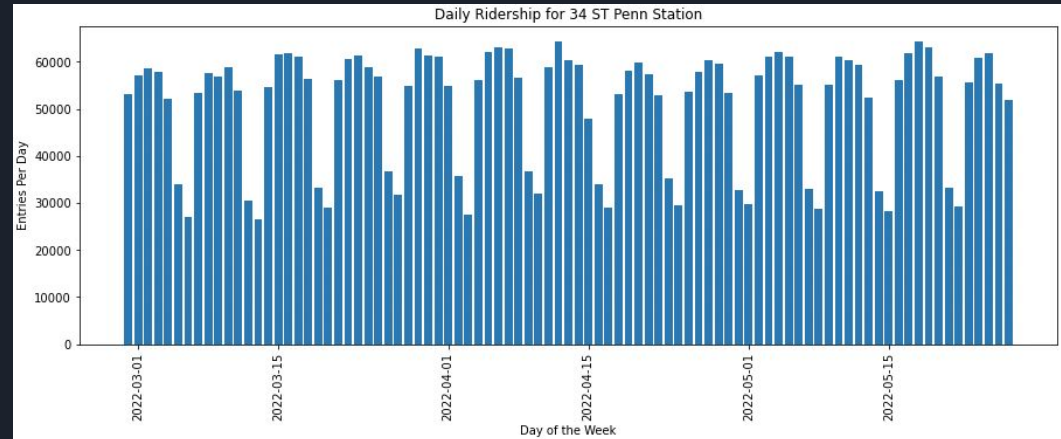
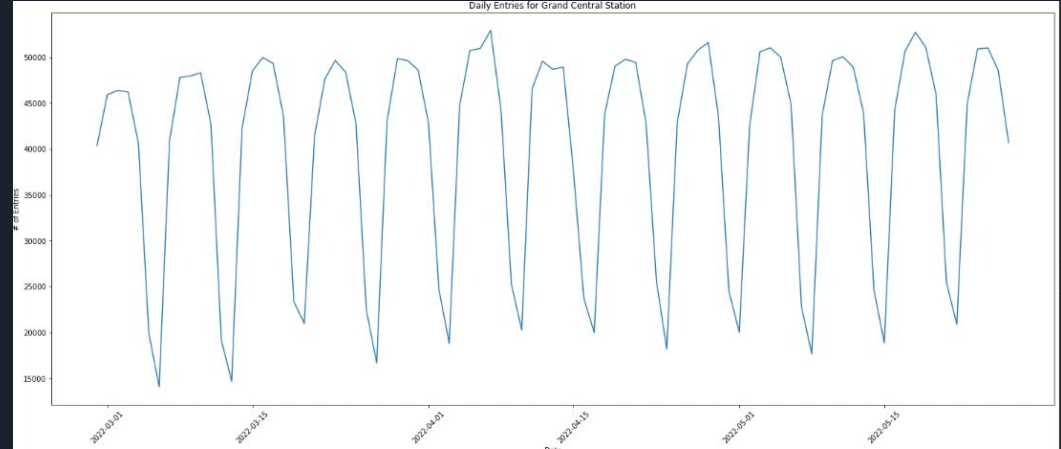
```
Monday      30105079.0  
Tuesday     32720029.0  
Wednesday   33149756.0  
Thursday    33024618.0  
Friday      31277725.0  
Saturday    17453268.0  
Sunday      13971928.0  
Name: DAILY_ENTRIES, dtype: float64
```



# Results

## • Anomalies:

- counter sometimes counted the wrong way
- Data for counters was not gathered at the same time
- Some stations had traffic that was close to the weekend but most stations had a drop in activity for the weekends - tourism?



# Conclusion

- Recommendations
  - Focus on the Top 10 Stations
  - Focus on Weekday Traffic
  - NYPD YTD Arrest Data
    - High crime in certain areas





# Future Work

- Things to further explore
  - Using the 311 data to see the crime in the area
  - Use the Census data to see the demographics for gender and age group
  - Use Real Estate data to gauge the cost of setting up a new studio in the neighborhoods
  - Determine peak hours to better understand the flow of traffic
  - Take income data into consideration

**Thank you!**

**Questions?**