

Purpose of the EDA

- Top 10 Stations with highest traffic counts; morning peak hour counts and days with highest counts
- To assess the demand for a coffee shop
- To carry on with their post covid reopening and expansion plans
- Resource allocation

The Analysis

Qualitative: Hours with high coffee consumption(peak hour), station Location

Quantitative: Stations with the Top 10 highest traffic counts

:Morning(8:00 Am - 11 AM) traffic counts for the selected stations for the given time period (Dec 19, 2020 to Mar 20, 2021

:Which Days of the week has the maximum traffic counts for the peak hour

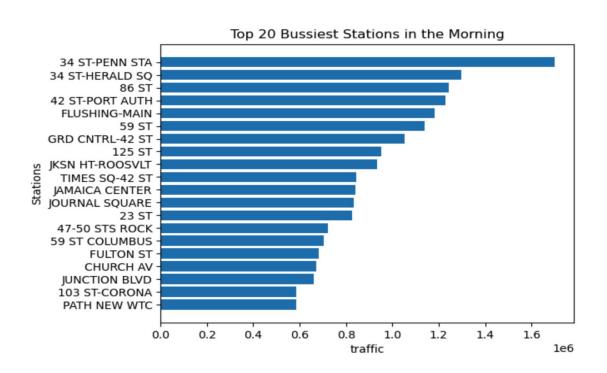
Methodologies Used

- Create a Database: MTA.db
- Create a table: MTA Data
- Collect the required data from the MTA website and put it into the local database using SQL ,SQL-Alchemy
- Clean the data
- Perform the data analysis using python libraries; Pandas, Matplotlib, Seaborn

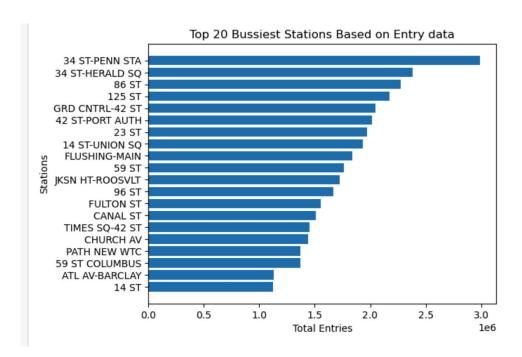
Analysis Results

- 34 st-Penn station,34 st-Herald SQ,86 St(Brooklyn, Manhattan), 125 ST,GRD CTRL 42 ST, 42 St-port AUTH, 23 ST,14 ST-UNION SQ,59 ST(Manhattan):- Business district, head quarters , universities
- Flushing Main(Queens Borough):- Airport ,Stadium

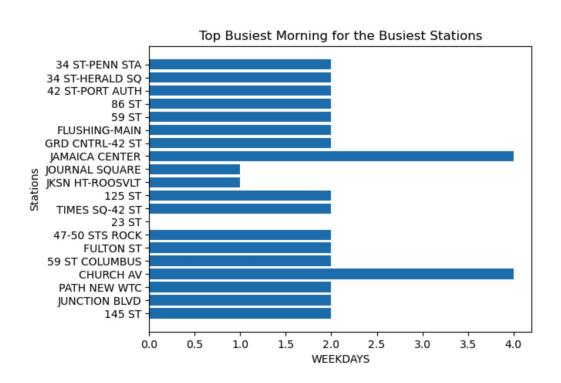
Analysis Results



Data visualization



Analysis Results



Conclusion

Top ten busiest stations in New York city are: 34 st-Penn station,34 st-Herald SQ, 86 St, 125 ST, GRD CTRL - 42 ST, 42 St-port AUTH, 23 ST, 14 ST-UNION SQ, Flushing Main, 59 ST

- The company can open their shop in these locations
- The busiest stations are located in Manhattan
- Wednesday is the busiest day of the week in the top 10 stations

Thank You!