

CAPSTONE PROJECT REPORT (US BIKESHARE PROJECT)

The US Bikeshare Project involves extracting some key insights about the data of rentage of bicycles in some cities in the US.

UNDERSTANDING THE DATASET

Some python codes were run in order to understand the datasets. Some of the things deduced from the dataset are:

1. The dataset has the following columns: 'Unnamed: 0', 'Start Time', 'End Time', 'Trip Duration', 'Start Station', 'End Station', 'User Type', 'Gender' and 'Birth Year'.
2. The 'Gender' and 'Birth Year' columns are having null values.

FILTERING THE DATA BY CITY, MONTH AND DAY AND EXTRACTING SOME USEFUL INFORMATION

After filtering by the Chicago, March and Friday, the following can be deduced:

1. The most common day is the 24th day of the month.
2. The most common hour is the 17th hour.
3. The most commonly used start station is Clinton St & Washington Blvd.
4. The most commonly used end station is Clinton St & Washington Blvd.
5. The most frequent combination of start station and end station trip is ('Streeter Dr & Grand Ave', 'Streeter Dr & Grand Ave')
6. The total travel time is 4344099.
7. The mean travel time is 747.3075864441769
8. The counts of user types are: Subscriber (5243) and Customer (570).
9. The counts of gender are: Male (4145) and Female (1098).
10. The earliest year of birth is 1918.
11. The most recent year of birth is 2016.
12. The most common year of birth is 1989.