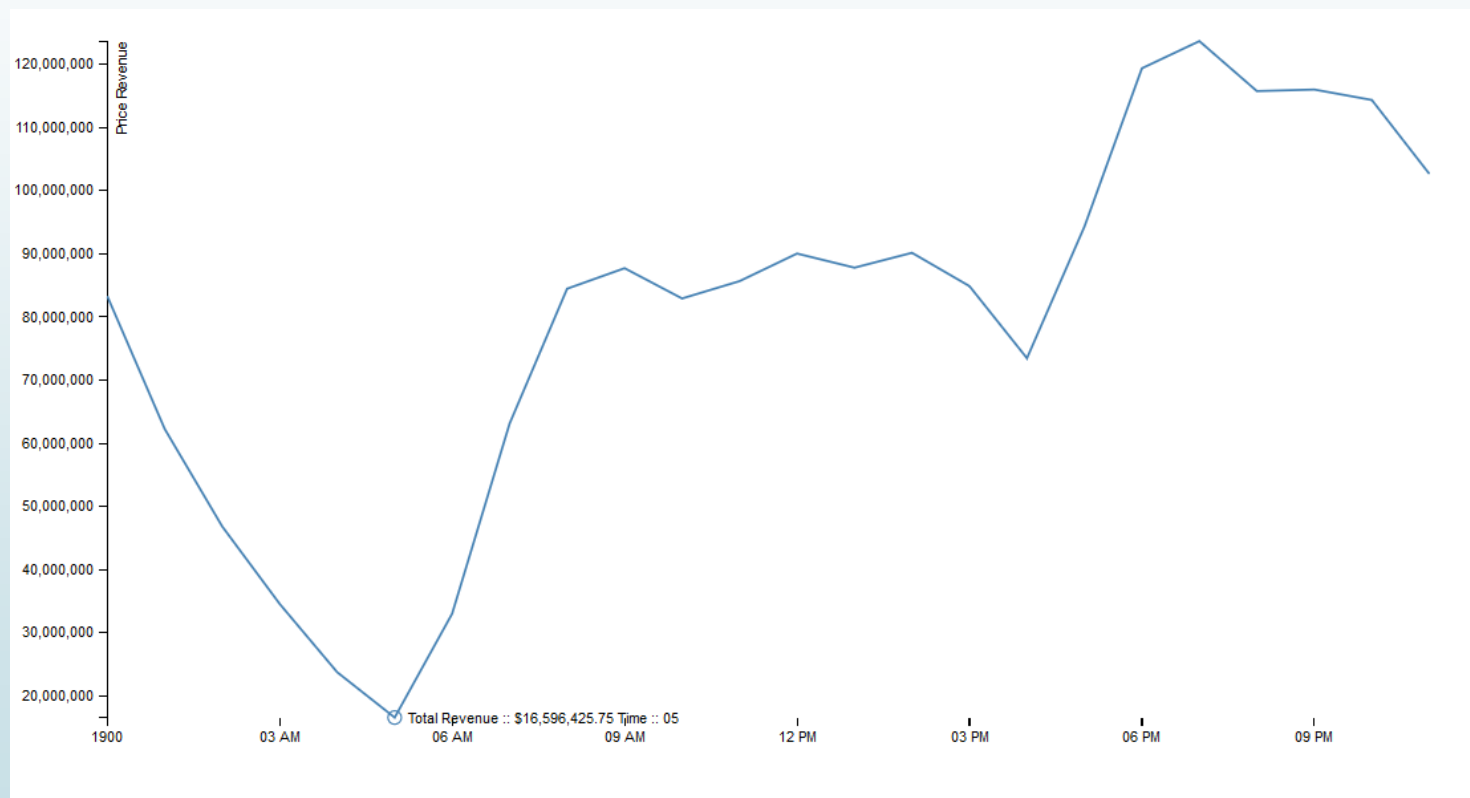# NYC Taxi Data Analysis

Aniket Bezalwar
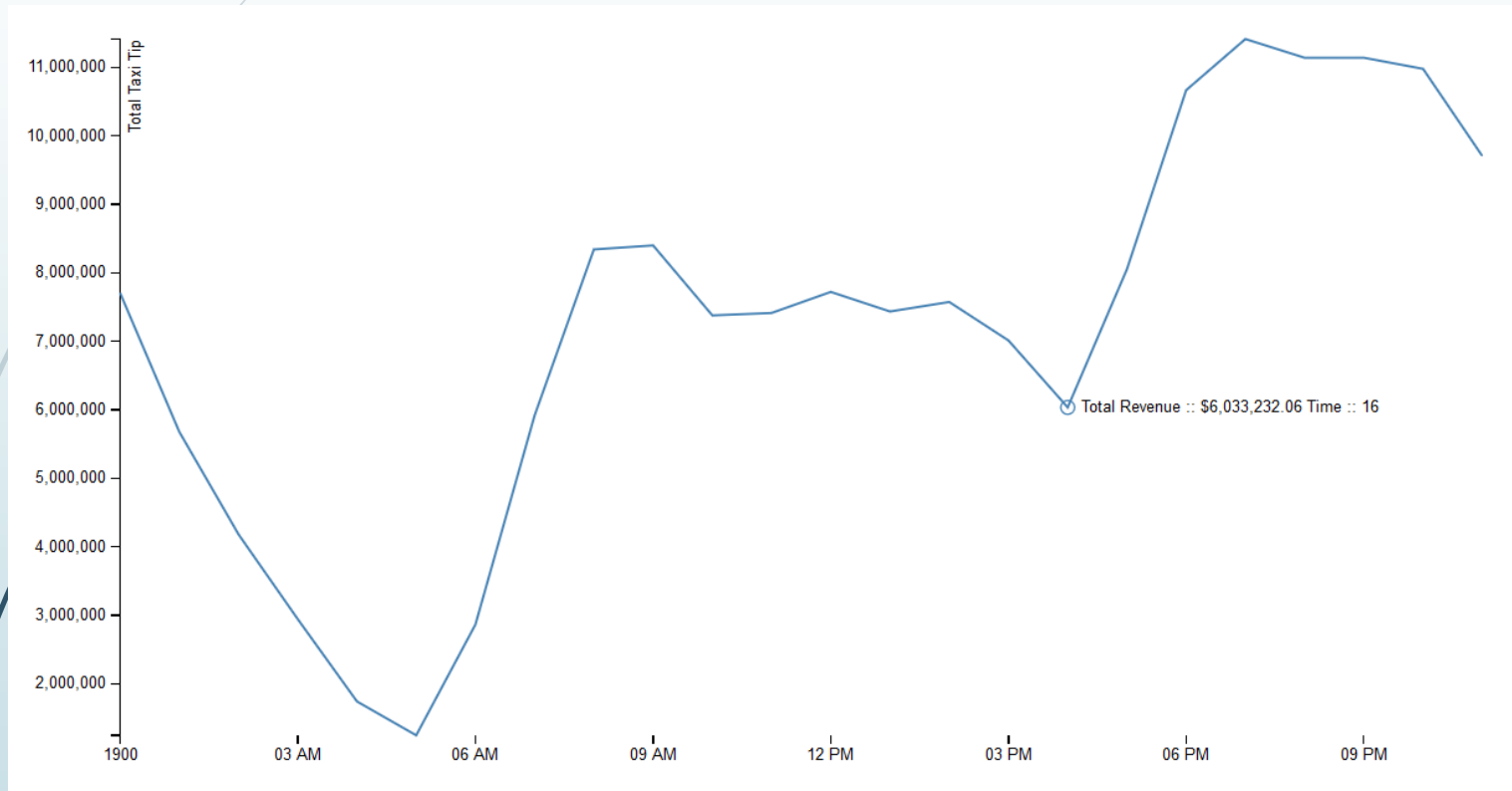
Aditya Nehulkar

Savan Rupani

Total amount, total fare and total tip of taxi trips for each hour of the day(0 -23), throughout the year
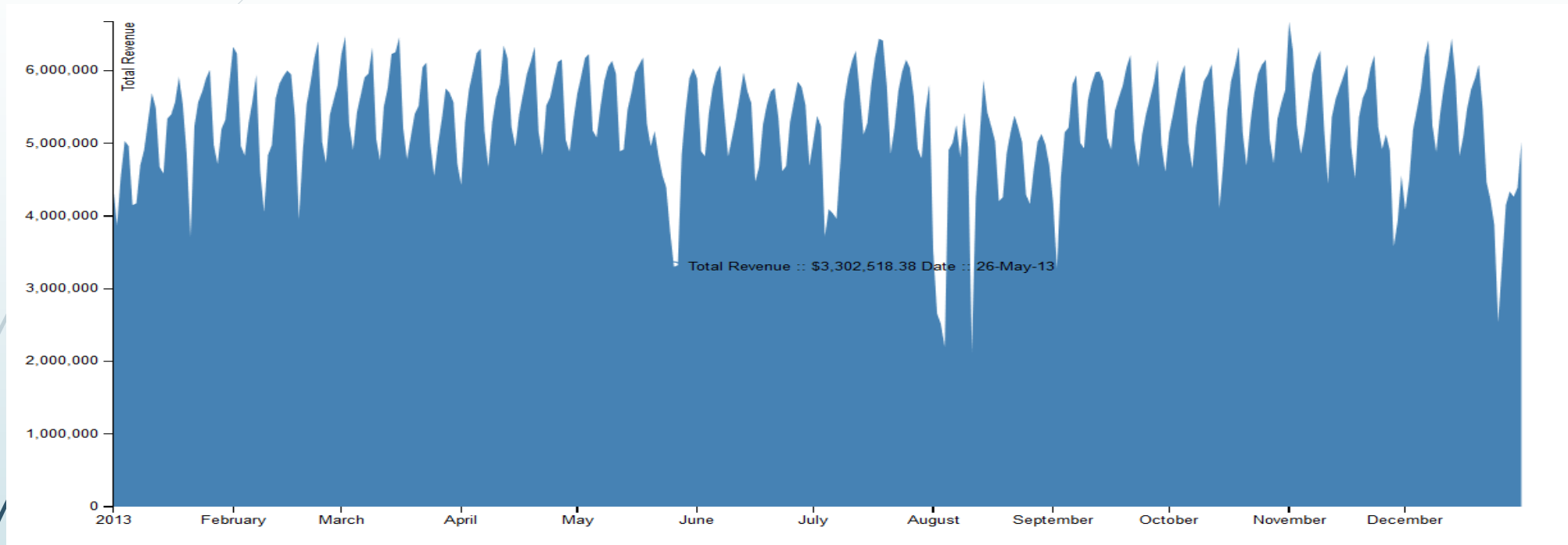
Continue…. For tip

After analyzing the final outcome of the data we came to know that taxi usage and revenue is very less between 3 AM to 6 AM.
And total taxi tip is decreasing in compare with taxi revenue between 9 AM to 1 AM.

Total revenue vs Public Holidays

| Jan 1	New Year's Day	May 27	Memorial Day	Nov 11	Veterans Day
Jan 21	Martin Luther King Day	Jun 16	Fathers' Day	Nov 28	Thanksgiving Day
Feb 14	Valentine's Day	Jul 4	Independence Day	Dec 24	Christmas Eve
Feb 18	Presidents' Day	Sep 2	Labor Day	Dec 25	Christmas Day
Mar 31	Easter Sunday	Oct 14	Columbus Day (Most regions)	Dec 31	New Year's Eve
May 12	Mothers' Day	Oct 31	Halloween		

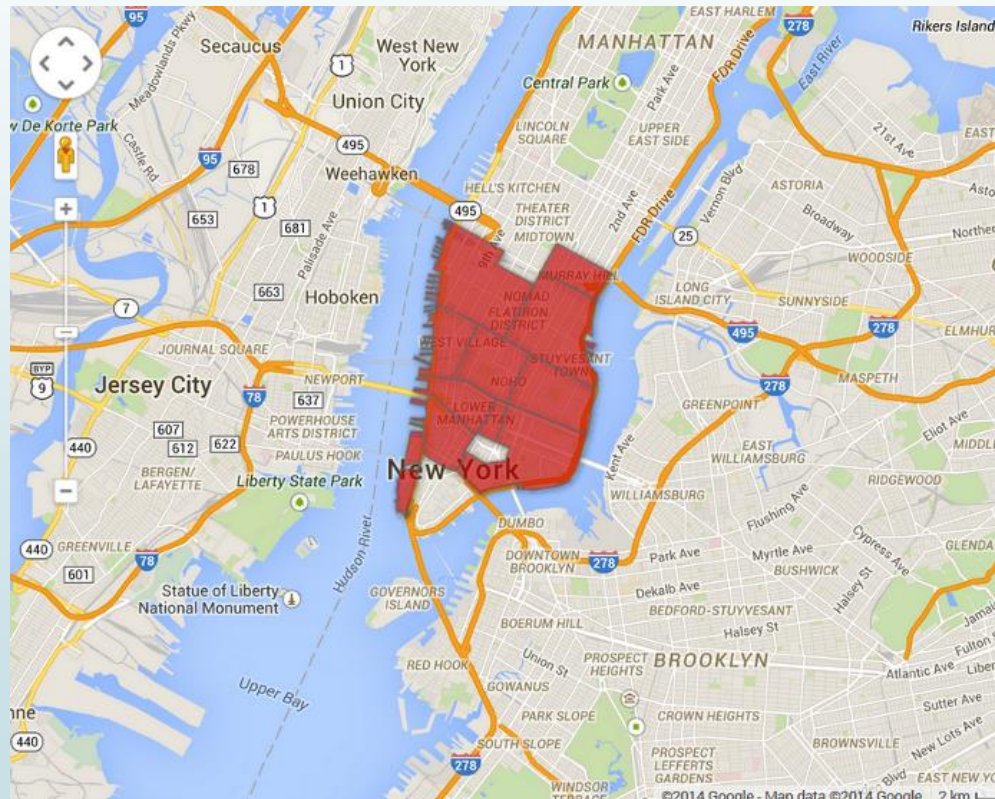# Popular (Top 10) pickup regions of the NYC
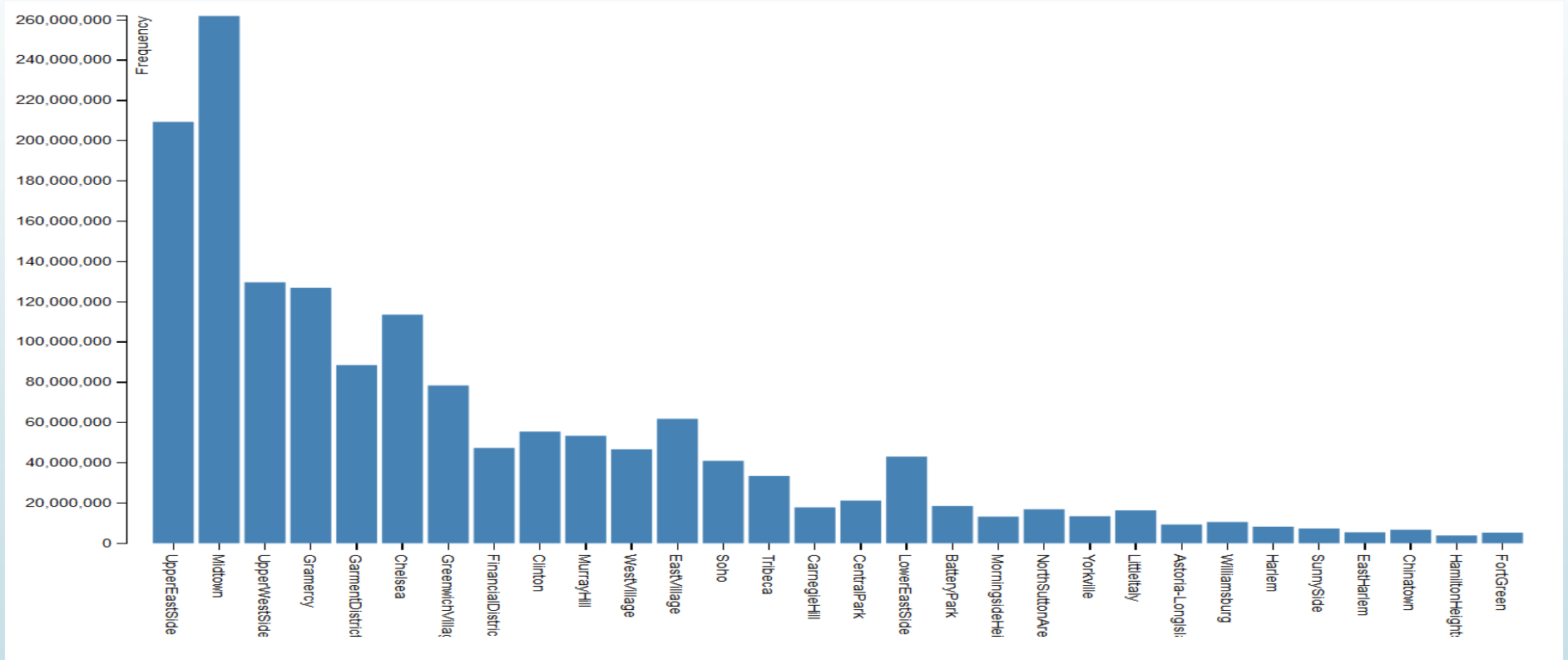
Popular (Top 10) drop off regions of the NYC
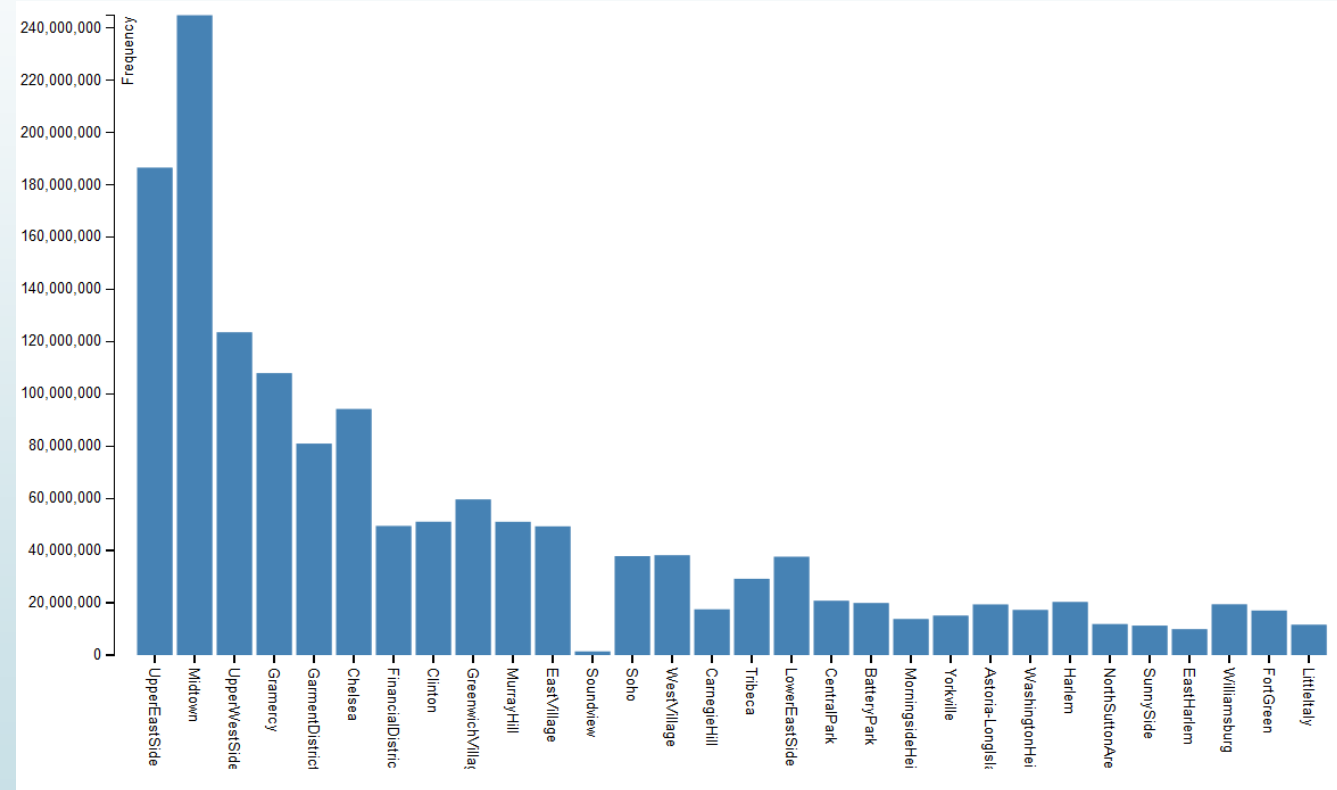
# *Popular regions on the basis of taxi pickups*
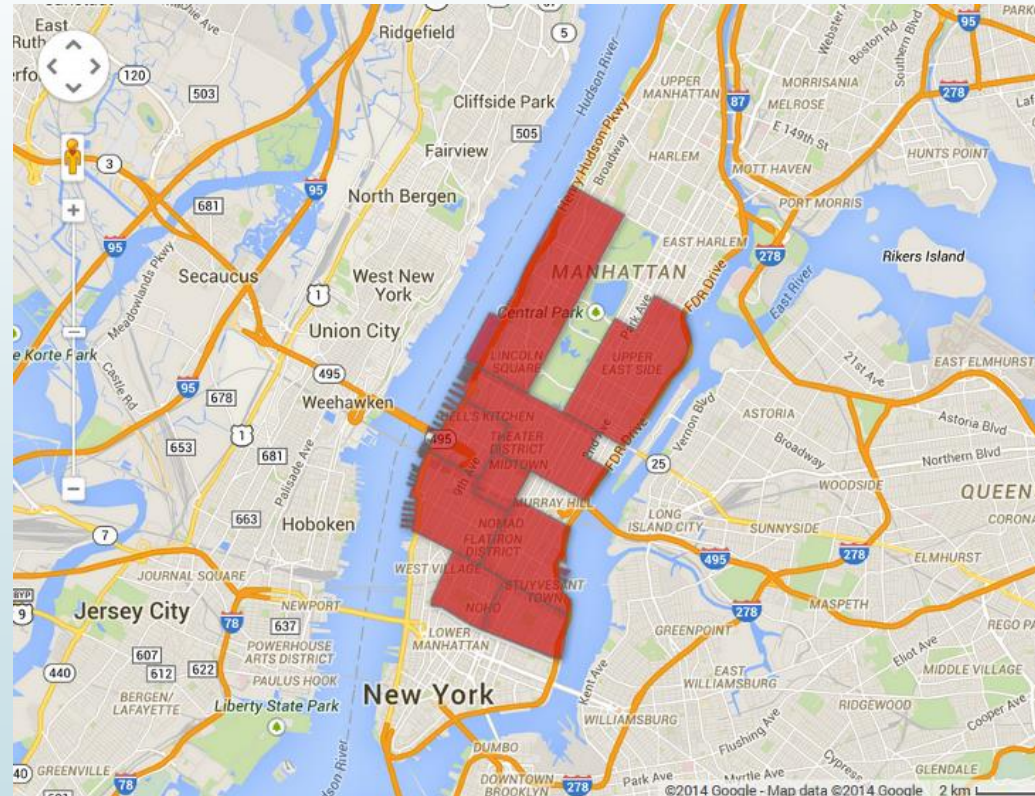
Popular regions on the basis of average tip paid by the taxi rider.

After analyzing the data we came to know that though upper and middle Manhattan has more total revenue than lower Manhattan, regions in lower Manhattan has high average tip per trip than other parts of the Manhattan

Analysis on passenger count and tip and total ride
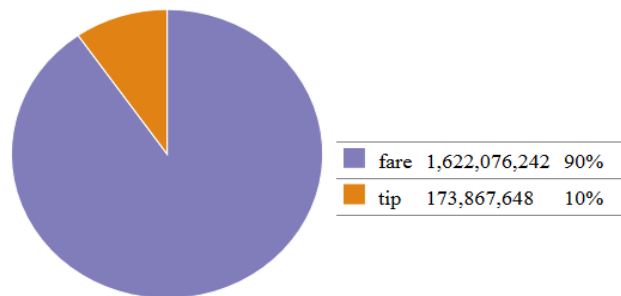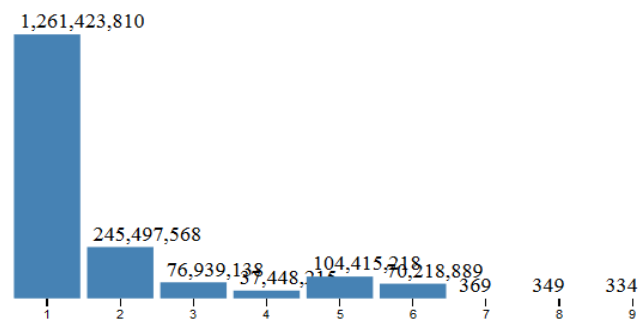
#Passenger	Avg Tip %	Total Ride
1	10.98	109926988
2	10.13	20861532
3	9.47	6585572
4	8.41	3211534
5	10.67	8996480
6	10.64	6075147
7	4.77	20
8	9.14	19
9	8.22	18

70% rides are of single passengers

As we came to know that number of passengers does not directly influence the average tip of the ride

And for passenger count 1 , average tip is consistent 10-11% all the month, while we may see some difference in other but not that much.

Population and taxi revenue NYC region wise
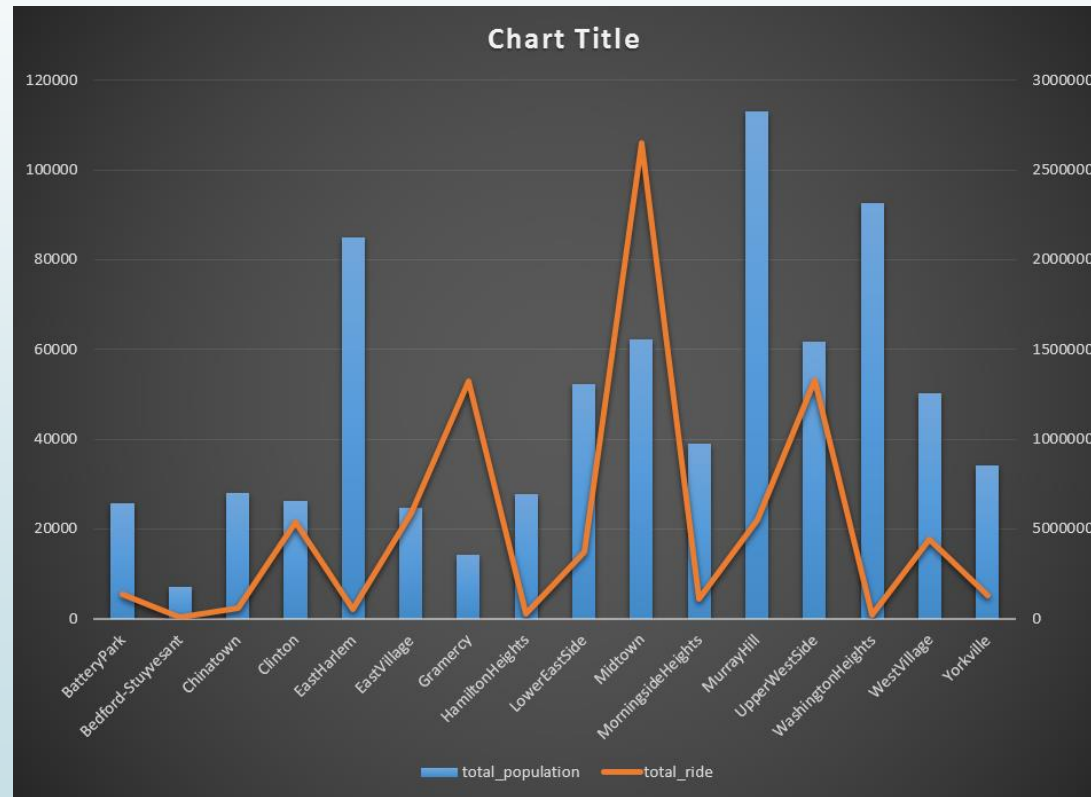
We can see clearly that some region has more population than other but total ride count is less than other regions
For example Harlem has more population than Gramercy but less ride count
So we concluded that population doesn't that much affect the taxi rides

Thank You