Uber-Supply Demand Problem

It can be seen that there are Total 6745 trips in 5days duration as per dataset provided.Of which Status count is as follows

- Completed:1264
- No Cars Available:2650
- Trip Completed:2831

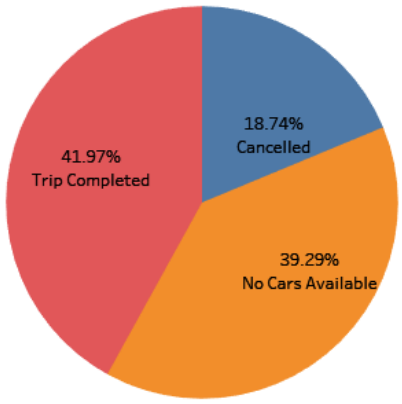
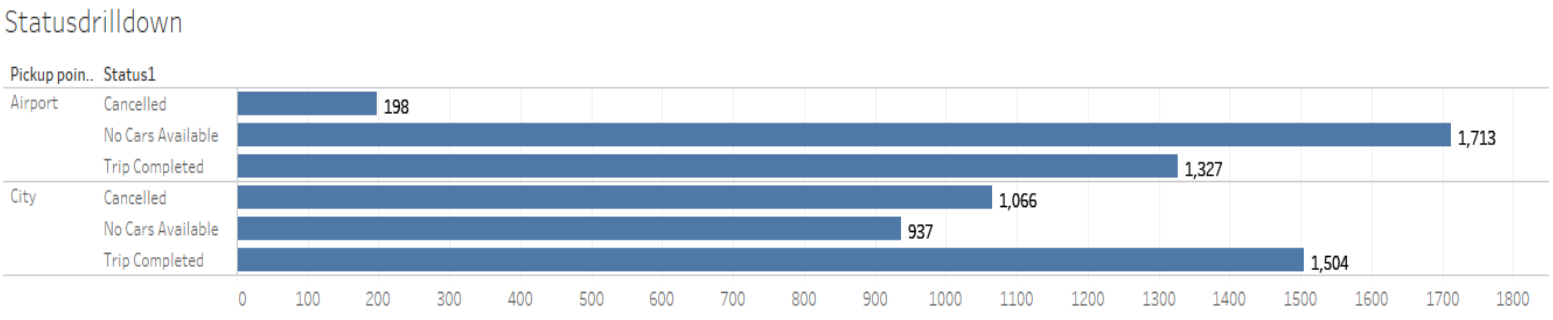


Fig.Pie chart for status

If we drill down our status for Airport and City we can see observe below points

1. No of canceled trips are more from city to airport
2. Number of cars that are unavailable are more at Airport location
3. Trips completed is not an issue as it is same for both airport and city pickup points



Now will drill down more from the Date column provided to us

1. As can be seen Number of cancelled cars is more during the early morning hours(Fig.1)

2. And the availability of cars is less during the late evening hours(Fig.1)

(Hour wise status Fig.1)

For City Pick up point Cancelled status is more during the early morning hours i.e is a lot of cancelation

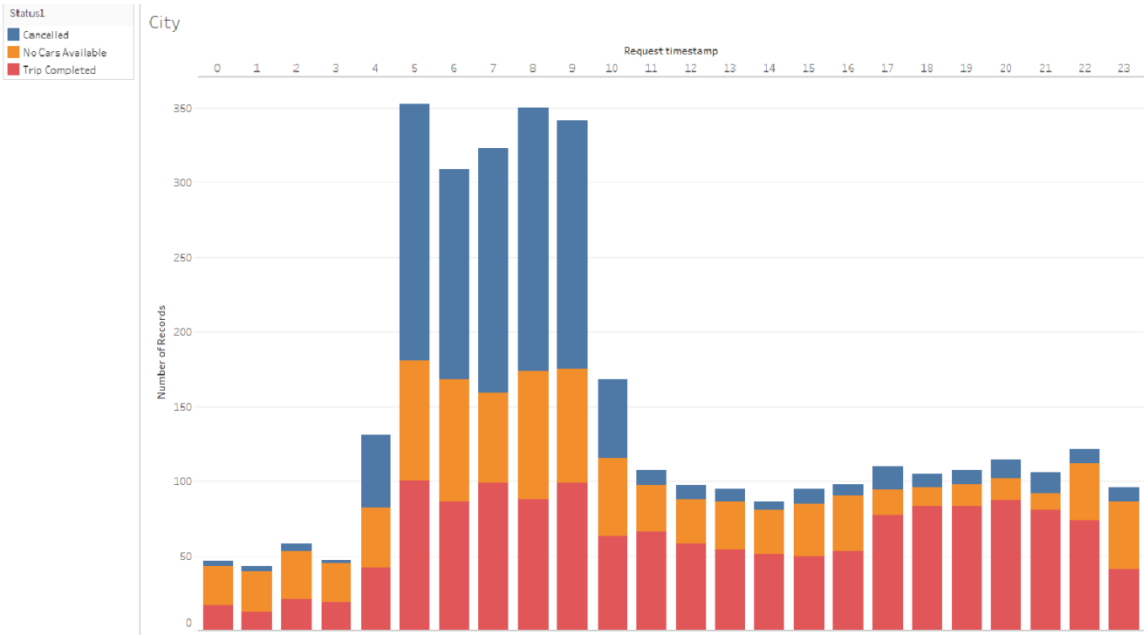


Fig.Status as per City Pickup point

The Late evening hours request (Demand) is too high and so do the number of unavailable cars for the Airport Pickup point location.

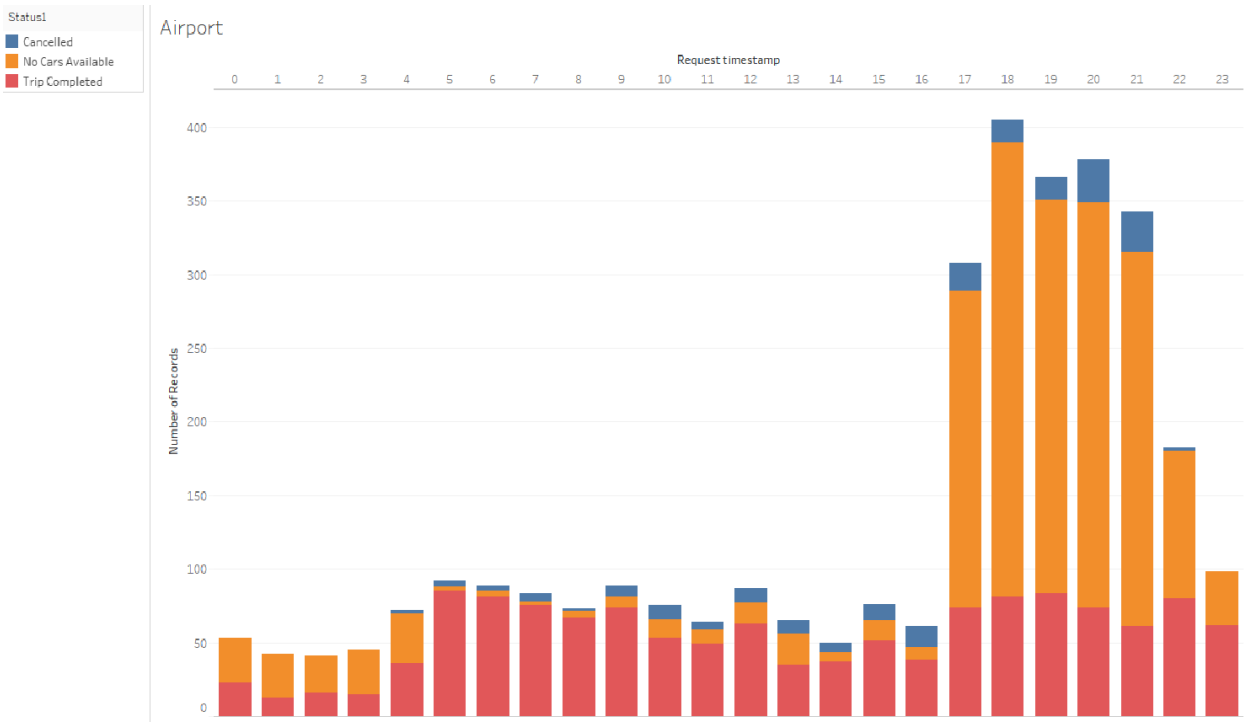


Fig.Status as per Airport Pickup point

Solution for Uber-Supply Demand

For Airport location:

1. **1.Uber should offer commissions to the drivers who will be present at the airport during the late evening hours**
2. **A separate uber parking should be built at the airport so that uber drivers need not need to pay extra waiting fees at the airport.**

For City location:

1. **A particular amount of uber fare should be levied for city to airport location so that the drivers will not cancel their trips.**
2. **Also bonus/commission should be given to drivers who are willing to go to the airport in the early morning period.**
3. **Flight schedules should be shared with cab drivers so that the drivers can plan their trips accordingly and would be available within the locations.**