

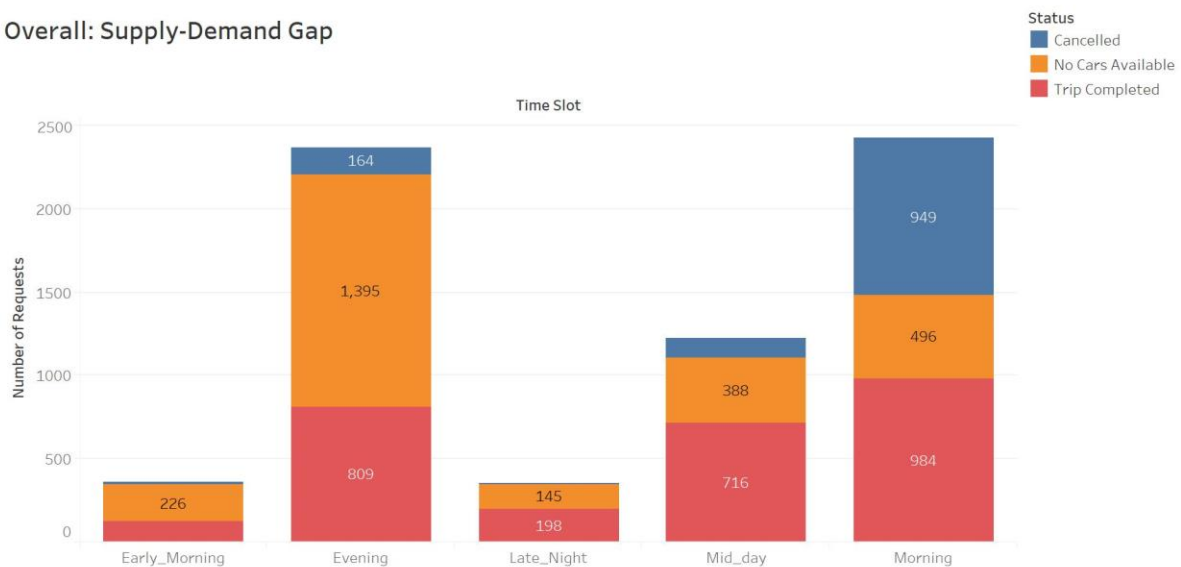
Analysis of Uber Supply-Demand Gap

The 24 hours in a day is divided into the following slots:

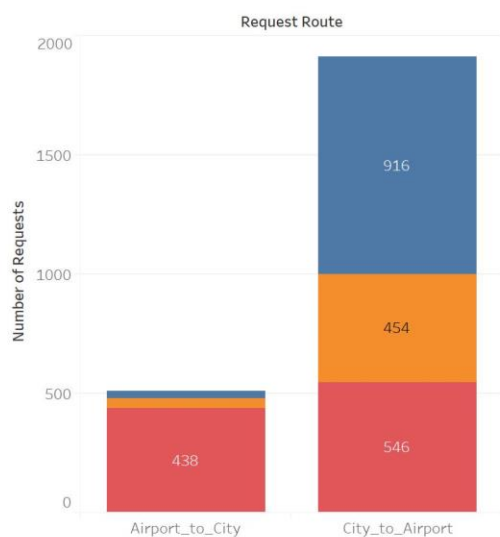
- 1 to 4: Early morning
- 5 to 10: Morning
- 11 to 17: Mid-day
- 18 to 22: Evening
- 23 to 24/0: Late Night

Based on the below plots, we have determined two important time-slots: **Morning and Evening**, where we have a surge in demand for cabs but there isn't enough supply to cater the demand.

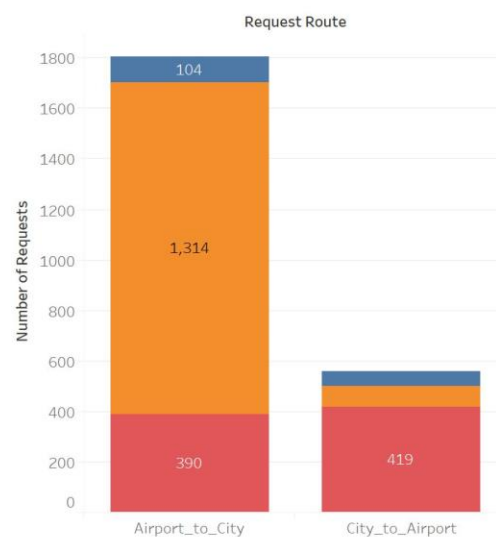
Overall: Supply-Demand Gap



Morning Time slot: Supply-Demand Gap



Evening Time slot: Supply-Demand Gap



Reasons & Recommendations for Supply-Demand Gap:

Let's understand the reasons for supply demand gap for each of the time slot.

- **Morning Time-slot:**

- **Observation:** We can see that a large number of requests in the morning time slot are from "City to Airport" (**1916 requests**). Off these many requests from "City to Airport", only **546 requests** are completed. Many requests are cancelled by the drivers (**916**).
- **Reason:** Drivers might be cancelling trips because of the less number of requests from "Airport to City" on return which would result in more waiting time for the next trip.
- **Recommendation:** We would recommend Uber to increase the fare price on all trips from "City to Airport" in the morning slot. This would encourage more drivers to accept the requests.

- **Evening Time-slot:**

- **Observation:** We can see that a large number of requests in the evening time slot are from "Airport to city" (**1808 requests**). Off these many requests from "Airport to city", only **390 requests** are completed. Many requests are unanswered because of no cabs available (**1314**).
- **Reason:** There might not be enough cars to cater the huge demand in this time slot.
- **Recommendation:** We would recommend Uber to increase the number of cars from airport in the evening time slot to leverage this huge demand.