**OLA Data Analyst Project**

**By Anusha Dhiman**

**SQL Questions:**

1. Retrieve all successful bookings.
2. Find the average ride distance for each vehicle type.
3. Get the total number of cancelled rides by customers.
4. List the top 5 customers who booked the highest number of rides.
5. Get the number of rides cancelled by drivers due to personal and car-related issues.
6. Find the maximum and minimum driver ratings for Prime Sedan bookings.
7. Retrieve all rides where payment was made using UPI.
8. Find the average customer rating per vehicle type.
9. Calculate the total booking value of rides completed successfully.
10. List all incomplete rides along with the reason.

**Power BI Questions:**

1. Ride Volume Over Time
2. Booking Status Breakdown
3. Top 5 Vehicle Types by Ride Distance
4. Average Customer Ratings by Vehicle Type
5. cancelled Rides Reasons
6. Revenue by Payment Method
7. Top 5 Customers by Total Booking Value
8. Ride Distance Distribution Per Day
9. Driver Ratings Distribution
10. Customer vs. Driver Ratings

**Data Columns:**

1. Date
2. Time
3. Booking\_ID
4. Booking\_Status
5. Customer\_ID
6. Vehicle\_Type
7. Pickup\_Location
8. Drop\_Location
9. V\_TAT
10. C\_TAT
11. Cancelled\_Rides\_by\_Customer
12. Cancelled\_Rides\_by\_Driver
13. Incomplete\_Rides
14. Incomplete\_Rides\_Reason
15. Booking\_Value
16. Payment\_Method
17. Ride\_Distance
18. Driver\_Ratings
19. Customer\_Ratings

**SQL Answers:**

1. **Retrieve all successful bookings:**

SELECT \* FROM bookings WHERE Booking\_Status = 'Success';

1. **Find the average ride distance for each vehicle type:**

SELECT Vehicle\_Type, AVG(Ride\_Distance) as avg\_distance FROM bookings GROUP BY Vehicle\_Type;

1. **Get the total number of cancelled rides by customers:**

SELECT COUNT(\*) FROM bookings WHERE Booking\_Status = 'cancelled by Customer';

1. **List the top 5 customers who booked the highest number of rides:**

SELECT Customer\_ID, COUNT(Booking\_ID) as total\_rides FROM bookings GROUP BY Customer\_ID ORDER BY total\_rides DESC LIMIT 5;

1. **Get the number of rides cancelled by drivers due to personal and car-related issues:**

SELECT COUNT(\*) FROM bookings WHERE cancelled\_Rides\_by\_Driver = 'Personal & Car related issue';

1. **Find the maximum and minimum driver ratings for Prime Sedan bookings:**

SELECT MAX(Driver\_Ratings) as max\_rating, MIN(Driver\_Ratings) as min\_rating FROM bookings WHERE Vehicle\_Type = 'Prime Sedan';

1. **Retrieve all rides where payment was made using UPI:**

SELECT \* FROM bookings WHERE Payment\_Method = 'UPI';

1. **Find the average customer rating per vehicle type:**

SELECT Vehicle\_Type, AVG(Customer\_Rating) as avg\_customer\_rating FROM bookings GROUP BY Vehicle\_Type;

1. **Calculate the total booking value of rides completed successfully:**

SELECT SUM(Booking\_Value) as total\_successful\_value FROM bookings WHERE Booking\_Status = 'Success';

1. **List all incomplete rides along with the reason:**

SELECT Booking\_ID, Incomplete\_Rides\_Reason FROM bookings WHERE Incomplete\_Rides = 'Yes';

**Power BI Answers:**

**Segregation of the Views:**

1. **Overall**

* Ride Volume over Time
* Booking Status Breakdown

1. **Vehicle Type**

* Top 5 Vehicle Types by Ride Distance

1. **Revenue**

* Revenue by Payment Method
* Top 5 Customers by Total Booking Value
* Ride Distance Distribution per Day

1. **Cancellation**

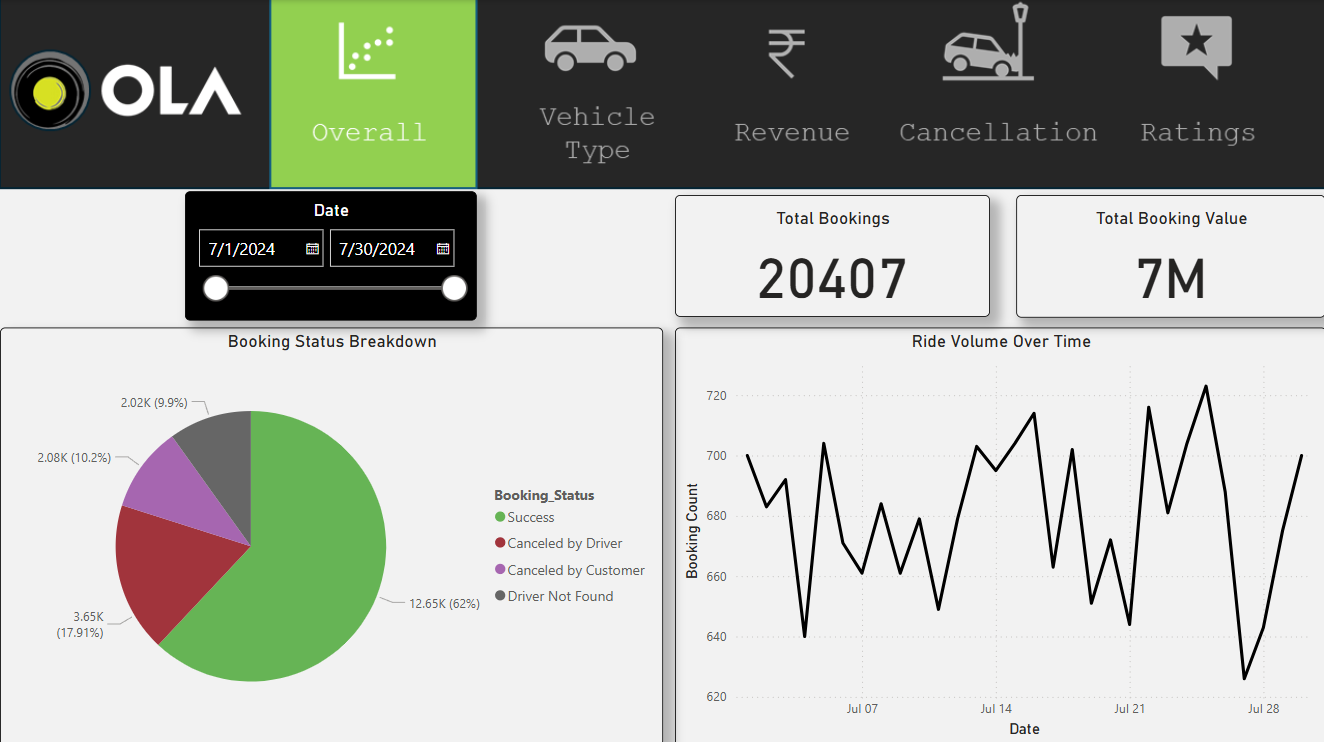
* Cancelled Rides Reasons (Customer)
* Cancelled Rides Reasons (Drivers)

1. **Ratings**

* Driver Ratings
* Customer Ratings

**Answers:**

1. **Ride Volume Over Time**: A time-series chart showing the number of rides per day/week.
2. **Booking Status Breakdown**: A pie or doughnut chart displaying the proportion of different booking statuses (success, cancelled by the customer, cancelled by the driver, etc.).
3. **Top 5 Vehicle Types by Ride Distance**: A bar chart ranking vehicle types based on the total distance covered.
4. **Average Customer Ratings by Vehicle Type:** A column chart showing the average customer ratings for different vehicle types.
5. **Cancelled Rides Reasons:** A bar chart that highlights the common reasons for ride cancellations by customers and drivers.
6. **Revenue by Payment Method**: A stacked bar chart displaying total revenue based on payment methods (Cash, UPI, Credit Card, etc.).
7. **Top 5 Customers by Total Booking Value**: A leaderboard visual listing customers who have spent the most on bookings.
8. **Ride Distance Distribution Per Day**: A histogram or scatter plot showing the distribution of ride distances for different Dates
9. **Driver Rating Distribution**: A box plot visualizing the spread of driver ratings for different vehicle types.
10. **Customer vs. Driver Ratings**: A scatter plot comparing customer and driver ratings for each completed ride, analyzing correlations.

****