

# OLA Data Analyst Project

## Power BI Answers:

### Segregation of the views:

#### 1. Overall

- Ride Volume Over Time
- Booking Status Breakdown

#### 2. Vehicle Type

- Top 5 Vehicle Types by Ride Distance

#### 3. Revenue

- Revenue by Payment Method
- Top 5 Customers by Total Booking Value
- Ride Distance Distribution Per Day

#### 4. Cancellation

- Cancelled Rides Reasons (Customer)
- cancelled Rides Reasons(Drivers)

#### 5. 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.

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## SQL Questions & Answers

```
Create Database Ola;  
Use Ola;
```

### #1. Retrieve all successful bookings:

```
Create View Successful_Bookings As  
SELECT * FROM bookings  
WHERE Booking_Status = 'Success';
```

### #2. Find the average ride distance for each vehicle type:

```
Create View ride_distance_for_each_vehicle As  
SELECT Vehicle_Type, AVG(Ride_Distance)  
as avg_distance FROM bookings  
GROUP BY Vehicle_Type;
```

### #3. Get the total number of cancelled rides by customers:

```
Create View cancelled_rides_by_customers As  
SELECT COUNT(*) FROM bookings  
WHERE Booking_Status = 'cancelled by Customer';
```

### #4. List the top 5 customers who booked the highest number of rides:

```
Create View Top_5_Customers As  
SELECT Customer_ID, COUNT(Booking_ID) as total_rides  
FROM bookings  
GROUP BY Customer_ID  
ORDER BY total_rides DESC LIMIT 5;
```

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

```
Create View Rides_cancelled_by_Drivers_P_C_Issues As  
SELECT COUNT(*) FROM bookings  
WHERE cancelled_Rides_by_Driver = 'Personal & Car related issue';
```

### #6. Find the maximum and minimum driver ratings for Prime Sedan bookings:

```
Create View Max_Min_Driver_Rating As  
SELECT MAX(Driver_Ratings) as max_rating,  
MIN(Driver_Ratings) as min_rating  
FROM bookings WHERE Vehicle_Type = 'Prime Sedan';
```

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## #7. Retrieve all rides where payment was made using UPI:

Create View UPI\_Payment As

SELECT \* FROM bookings

WHERE Payment\_Method = 'UPI';

## #8. Find the average customer rating per vehicle type:

Create View AVG\_Cust\_Rating As

SELECT Vehicle\_Type, AVG(Customer\_Rating) as avg\_customer\_rating

FROM bookings

GROUP BY Vehicle\_Type;

## #9. Calculate the total booking value of rides completed successfully:

Create View total\_successful\_ride\_value As

SELECT SUM(Booking\_Value) as total\_successful\_ride\_value

FROM bookings

WHERE Booking\_Status = 'Success';

## #10. List all incomplete rides along with the reason:

Create View Incomplete\_Rides\_Reason As

SELECT Booking\_ID, Incomplete\_Rides\_Reason

FROM bookings

WHERE Incomplete\_Rides = 'Yes';

## Retrieve All Answers

### #1. Retrieve all successful bookings:

Select \* From Successful\_Bookings;

### #2. Find the average ride distance for each vehicle type:

Select \* from ride\_distance\_for\_each\_vehicle;

### #3. Get the total number of cancelled rides by customers:

Select \* from cancelled\_rides\_by\_customers;

### #4. List the top 5 customers who booked the highest number of rides:

Select \* from Top\_5\_Customers;

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

Select \* from Rides\_cancelled\_by\_Drivers\_P\_C\_Issues;

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

Select \* from Max\_Min\_Driver\_Rating;

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

Select \* from UPI\_Payment;

**#8. Find the average customer rating per vehicle type:**

Select \* from AVG\_Cust\_Rating;

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

Select \* from total\_successful\_ride\_value;

**#10. List all incomplete rides along with the reason:**

Select \* from Incomplete\_Rides\_Reason;