

# OLA Data Analyst Project

## 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            | 10. C_TAT                       |
| 2. Time            | 11. cancelled_Rides_by_Customer |
| 3. Booking_ID      | 12. cancelled_Rides_by_Driver   |
| 4. Booking_Status  | 13. Incomplete_Rides            |
| 5. Customer_ID     | 14. Incomplete_Rides_Reason     |
| 6. Vehicle_Type    | 15. Booking_Value               |
| 7. Pickup_Location | 16. Payment_Method              |
| 8. Drop_Location   | 17. Ride_Distance               |
| 9. V_TAT           | 18. Driver_Ratings              |
|                    | 19. Customer_Rating             |

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## 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.

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- 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.

## SQL Questions & Answers

Create Database Ola;  
Use Ola;

### #1. Retrieve all successful bookings:

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

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

```
Create View ride_distance_for_each_vehicle As  
SELECT DISTINCT Vehicle_Type,  
ROUND(AVG(Ride_Distance),2) as  
avg_distance FROM ola_riders GROUP BY  
Vehicle_Type;
```

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

```
Create View cancelled_rides_by_customers As  
SELECT COUNT(*) FROM ola_rider  
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 ola_riders  
GROUP BY Customer_ID  
ORDER BY total_rides DESC LIMIT 5;
```

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## **#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 ola_riders
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 ola_riders WHERE Vehicle_Type = 'Prime Sedan' AND driver_ratings > 0;;
```

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

```
Create View UPI_Payment As
SELECT * FROM ola_rides
WHERE Payment_Method = 'UPI';
```

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

```
Create View AVG_Cust_Rating As
SELECT Vehicle_Type, ROUND( AVG(Customer_Rating),2) as avg_customer_rating
FROM ola_rides
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 ola_rides
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 ola_rides
WHERE Incomplete_Rides = 'Yes';
```

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## 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;

### **#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;