



# Data Analyst Project

## Project Questions

### 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

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## Power BI 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

## 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

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```
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';
```

## **#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';
```

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## **#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 using these views**

### **#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;
```