

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

SQL 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 Average_Ride_Distance_each_vehicle AS
```

```
SELECT Vehicle_Type,
```

```
AVG (Ride_Distance) AS average_ride_distance
```

```
FROM Bookings
```

```
GROUP BY Vehicle_type;
```

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

```
CREATE VIEW Canceled_Rides_By_Customer AS
```

```
SELECT COUNT(Canceled_Rides_By_Customer)
```

```
FROM Bookings;
```

#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_Canceled_by_Driver_P_C_Issues AS
SELECT COUNT(Canceled_Rides_by_Driver)
FROM Bookings
WHERE Canceled_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_Prime_Sedan AS
SELECT MAX(Driver_Ratings), MIN(Driver_Ratings)
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_Per_Vehicle AS
SELECT Vehicle_Type,
ROUND(AVG(Customer_Rating),2) AS AVG
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_Booking_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. SELECT * FROM Successful_Bookings
2. SELECT * FROM Average_Ride_Distance_each_vehicle
3. SELECT * FROM Canceled_Rides_By_Customer
4. SELECT * FROM Top_5_Customers
5. SELECT * FROM Rides_Canceled_by_Driver_P_C_Issues
6. SELECT * FROM Max_Min_Driver_Rating_Prime_Sedan
7. SELECT * FROM UPI_Payment
8. SELECT * FROM AVG_Cust_Rating_Per_Vehicle
9. SELECT * FROM Total_Successful_Ride_Value
10. SELECT * FROM Incomplete_Rides_Reason

Power BI

Power BI Questions:

1. Ride Volume Over Time
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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.
- 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, analysing correlations.