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

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_Rating

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SQL Answers:

1. Retrieve all successful bookings:

```
SELECT * FROM bookings WHERE Booking_Status = 'Success';
```

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

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:

SELECT COUNT(*) FROM bookings WHERE Booking_Status = 'cancelled by Customer';

4. 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;

5. 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';

6. 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';

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

SELECT * FROM bookings WHERE Payment_Method = 'UPI';

8. Find the average customer rating per vehicle type:

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:

SELECT SUM(Booking_Value) as total_successful_value FROM bookings WHERE Booking_Status = 'Success';

10. List all incomplete rides along with the reason:

SELECT Booking_ID, Incomplete_Rides_Reason FROM bookings WHERE Incomplete_Rides = 'Yes';

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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, 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;