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

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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

Abbreviation - Avg VTAT = Time taken to arrive at the vehicle
Avg CTAT = Time taken to arrive the Customer

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**
- Canceled Rides Reasons (Customer) Canceled Rides Reasons(Drivers)

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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.

SQL Questions & Answers

Create Database Ola;
Use Ola;

#1. Retrieve all successful bookings:
SELECT * FROM olabookings
WHERE Booking_Status = 'Success';

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

SELECT Vehicle_Type, AVG(Ride_Distance) as avg_distance FROM olabookings GROUP BY Vehicle_Type;

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

SELECT COUNT(*) FROM olabookings
WHERE Booking_Status = 'canceled 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 olabookings
GROUP BY Customer_ID
ORDER BY total_rides DESC LIMIT 5;

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

SELECT COUNT(*)
FROM olabookings
WHERE canceled_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 olabookings
 WHERE Vehicle_Type = 'Prime Sedan';

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

SELECT * FROM olabookings
WHERE Payment_Method = 'UPI';

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

SELECT Vehicle_Type, AVG(Customer_Rating) as avg_customer_rating
FROM olabookings
GROUP BY Vehicle_Type;

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

Create SELECT SUM(Booking_Value) as total_successful_ride_value

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FROM olabookings
WHERE Booking_Status = 'Success';

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

SELECT Booking_ID, Incomplete_Rides_Reason

FROM olabookings

  WHERE Incomplete_Rides = 'Yes';