OLA Data Analyst Project

SQL:

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:

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.