

Data Analyst Project By Kiran Gupta

OLA Data Analyst Project

Data Columns:

1. Date

3. Booking ID

5. Customer_ID

7. Pickup_Location

9. V TAT

11. cancelled_Rides_by_Customer

13. Incomplete_Rides

15. Booking_Value

17. Ride_Distance

19. Customer_Rating

2. Time

4. Booking_Status

6. Vehicle_Type

8. Drop_Location

10. C TAT

12. cancelled_Rides_by_Driver

14. Incomplete_Rides_Reason

16. Payment_Method

18. Driver_Ratings

SQL Questions:

#1. Identify all bookings that were successfully completed.

Select * From Successful_booking;

#2. Calculate the average travel distance for each vehicle type.

SELECT * FROM avg_Distance_for_each_Vehicle;

#3. Count the total number of rides cancelled by the customers.

Select * From rides_cancellation_by_customers;

#4. Determine the top 5 customers with the highest number of rides.

SELECT * FROM Top_5_Customers;

#5. Find out how many rides were cancelled by drivers due to vehicle malfunctions and personal circumstances.

SELECT Driver_Cancellation_Count FROM Driver_Cancellations;

#6. Find the highest and lowest driver ratings for "Prime Sedan" trips.

SELECT * FROM Prime_Sedan_Ratings;

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#7. List all trips where the payment method used was UPI SELECT * FROM UPI Bookings;
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#8. Calculate the average customer satisfaction score for each type of vehicle.

SELECT * FROM Avg_Customer_Rating_Vehicle;

9. Calculate the total booking value of rides completed successfully SELECT Total_Successful_Ride_value FROM Total_Successful_Ride;

#10. Retrieve a list of all incomplete rides and the specific reasons for their incompletion.

SELECT * FROM Incomplete_Rides_with_Reason;

#11. Calculate the percentage of rides that were cancelled by drivers for each vehicle type.

SELECT * FROM Driver_Cancellation_Rate_by_Vehicle;

#12. Find the vehicle type with the lowest average driver rating.

SELECT * FROM Lowest_Avg_Driver_Rating_Vehicle;

#13. Calculate the average ride distance for rides paid with 'Card' versus 'Cash'.

SELECT * FROM Average_Distance_Payment_Method;

#14. For each vehicle type, calculate the percentage of successful bookings.

SELECT * FROM Success_Rate_by_Vehicle;

Power BI Questions:

- 1. How ride volumes change over time
- 2. Share of bookings across different statuses
- 3. Five leading vehicle types ranked by total ride distance
- 4. Comparison of customer ratings by vehicle type
- 5. Most common reasons behind ride cancellations
- 6. Revenue distribution across payment methods
- 7. Top customers ranked by overall booking value
- 8. Variation in ride distances on a daily basis
- 9. Pattern of ratings given to drivers
- 10. Side-by-side comparison of customer and driver ratings

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

Data-Driven Recommendations:

Based on the analysis of our project (Ola) data, here are key recommendations to improve operational performance and customer satisfaction:

1. Reduce Cancellations to Improve Reliability

- **Customer Cancellations:** Currently, customer cancellations stand at 13.62%. Implement a strategy to reduce this to a target of **less than 7%**. This will require identifying and addressing the root causes, such as long wait times or mismatched vehicle types.
- **Driver Cancellations:** The data shows that 12.33% of rides are cancelled by drivers. By investigating the reasons (e.g., "Personal & Car related issue" from my SQL script), we can set a realistic goal of keeping this rate **below 10%**.

2. Enhance Operational Efficiency

- **Minimize Incomplete Rides:** With 10.37% of rides being "incomplete," there's a significant opportunity for improvement. A clear goal is to reduce this number to **less than 6%** by analyzing the reasons for non-completion and streamlining the ride process.
- Maintain Data Integrity: Our analysis confirmed that all Booking_IDs in the dataset follow
 the CNR format followed by a series of digits. This indicates a strong data standard that
 should be maintained to ensure consistent and reliable tracking.

3. Strategic Insights for Growth

• Optimize for High-Demand Periods: The Date column in our data can be used to identify weekends and analyze booking trends on those days. We can use this data to develop a

strategy to increase both the number and value of orders during these periods, leveraging data to maximize revenue.

• Analyze Order Value Distribution: The Booking_Value column in the Bookings.csv file can be used to analyze the distribution of order values. Based on this data, we can set targets for the proportion of low-value, mid-value, and high-value orders to optimize revenue.