OLA Performance Analysis Project

Dataset 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

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:

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 ride_distance_for_each_vehicle As

SELECT Vehicle_Type, AVG(Ride_Distance) FROM bookings

GROUP BY Vehicle_Type;

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

Create View canceled_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 Canceled_rides_by_drivers 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_ratings As
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:
Create View Payment_UPI As
SELECT * FROM bookings
WHERE Payment_Method = 'UPI';

#8. Find the average customer rating per vehicle type:
Create View Cutomer_rating_for_each_vehicle As
SELECT Vehicle_Type, AVG(Customer_Rating) FROM bookings
GROUP BY Vehicle_Type;

#9. Calculate the total booking value of rides completed successfully:
Create View Total_Successful_Booking_Value As
SELECT SUM(Booking_Value) FROM bookings
WHERE Booking_Status = 'Success';

#10. List all incomplete rides along with the reason:
Create View Total_Incomplete_Rides As
SELECT Booking_ID, Incomplete_Rides_Reason
FROM bookings
WHERE Incomplete_Rides = 'Yes';

Power BI Questions:
1. Ride Volume Over Time
2. Booking Status
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

Power BI Answers:

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

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 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 foreach completed ride, analyzing correlations.