OLA Data Analyst Project

SQL Questions & Answers

#1. Retrieve all successful bookings:

```
Create View Successful_Bookings As

SELECT * FROM "bookings"

WHERE "Booking_Status" = 'Success'

select * from Successful_Bookings
```

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

```
CREATE VIEW ride_distance_for_each_vehicle_type as

SELECT "Vehicle_Type", AVG(CAST("Ride_Distance" AS FLOAT)) AS average_distance

FROM bookings

GROUP BY "Vehicle_Type";

SELECT * FROM ride_distance_for_each_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';

SELECT * FROM cancelled_rides_by_customers
```

#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;

SELECT * FROM Top_5_Customers
```

#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 "Canceled_Rides_by_Driver" = 'Personal & Car related issue';
SELECT * FROM Rides_cancelled_by_Drivers_P_C_Issues
```

#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';
SELECT * FROM Max_Min_Driver_Rating
```

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

```
Create View UPI_Payment As
SELECT * FROM bookings
WHERE "Payment_Method" = 'UPI';
SELECT * FROM UPI_Payment
```

#8. 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';
SELECT * FROM total_successful_ride_value
```

#9. 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';
SELECT * FROM Incomplete_Rides_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

Power BI 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.