

Ola_Data_Analytics

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

#1. Retrieve all successful bookings:

```
Create view sucessful_bookings As  
SELECT * FROM bookings  
WHERE Booking_Status = 'Success';
```

```
SELECT * FROM sucessful_bookings;
```

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

```
Create View ride_distance_for_each_vehicle As  
SELECT Vehicle_Type, AVG(Ride_Distance) AS avg_distance  
FROM bookings  
GROUP BY Vehicle_Type;
```

```
SELECT * FROM ride_distance_for_each_vehicle;
```

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

```
Create View cancelled_rides_by_customers As
SELECT COUNT(*) AS bookings
FROM bookings
WHERE Booking_Status = 'Canceled 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';
```

#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. Find the average customer rating per vehicle type:

```
Create View AVG_Cust_Rating As
SELECT Vehicle_Type, AVG(Customer_Rating) AS avg_customer_rating
```

```
FROM bookings
GROUP BY Vehicle_Type;
```

```
SELECT * FROM AVG_Cust_Rating;
```

#9. 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;
```

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

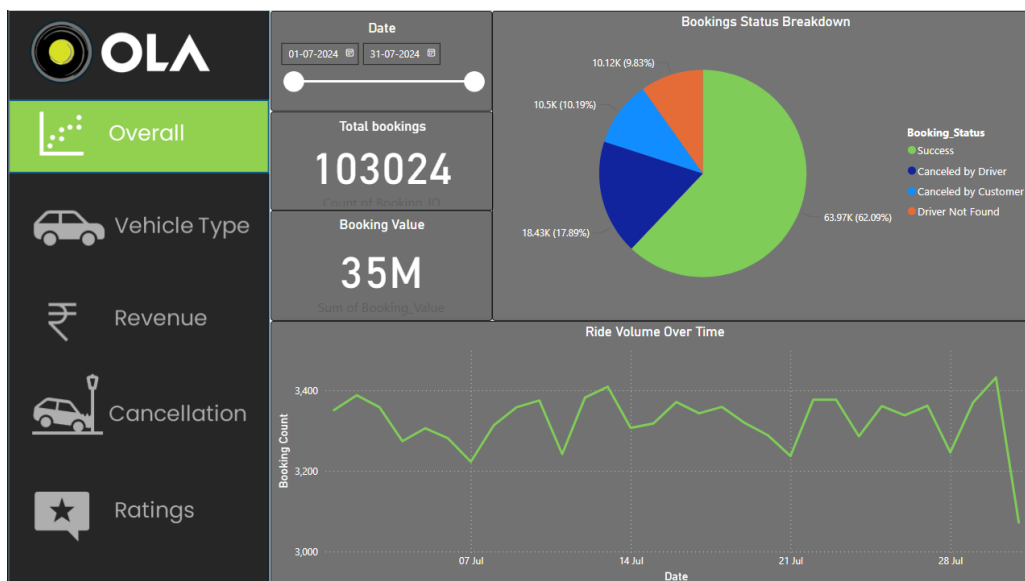
```
Create View Incomplete_Rides_Reason As
SELECT Booking_ID, Incomplete_Rides_Reason
FROM bookings
WHERE Incomplete_Rides = 'Yes';
```

```
SELECT * FROM Incomplete_Rides_Reason;
```

For the PowereBI the Questions where divide into 5 views

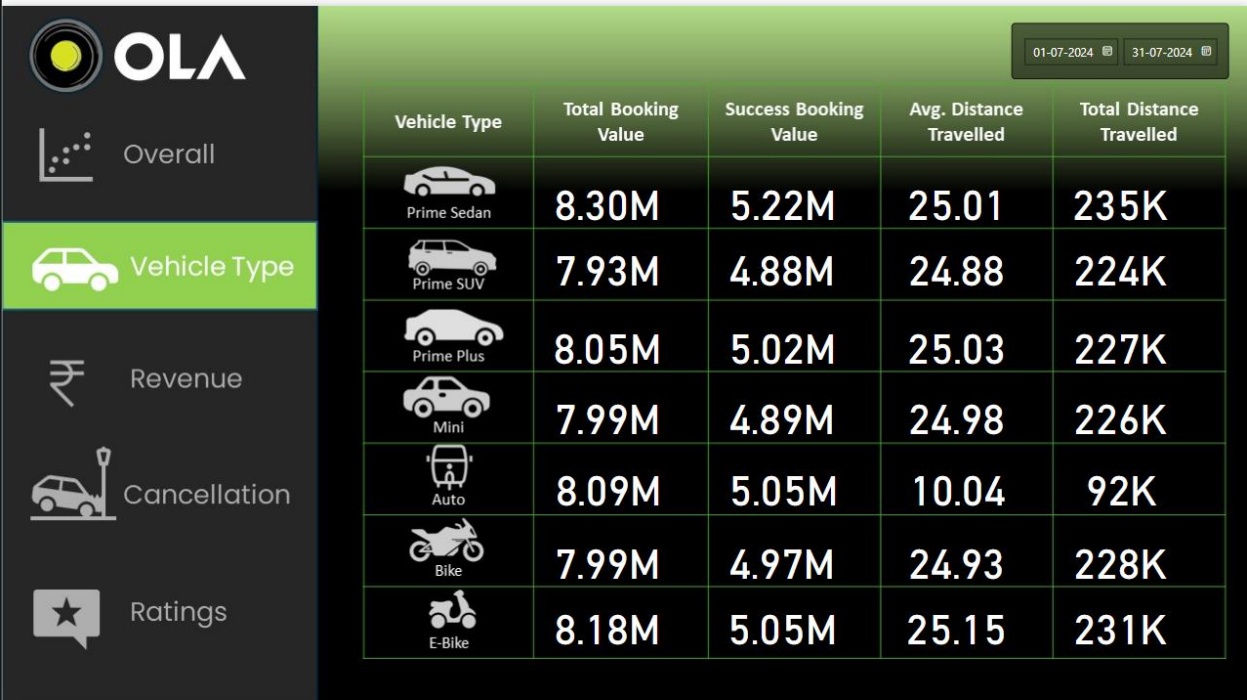
1. Overall

- Ride Volume Over Time
- Booking Status Breakdown



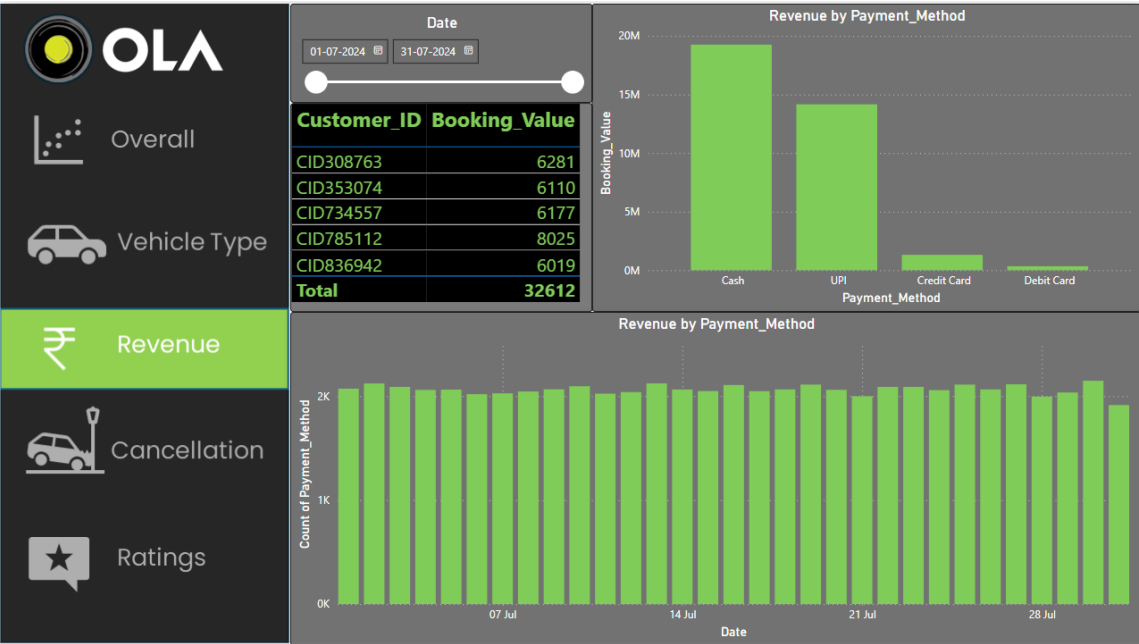
2. Vehicle Type

- Top 5 Vehicle Types by Ride Distance



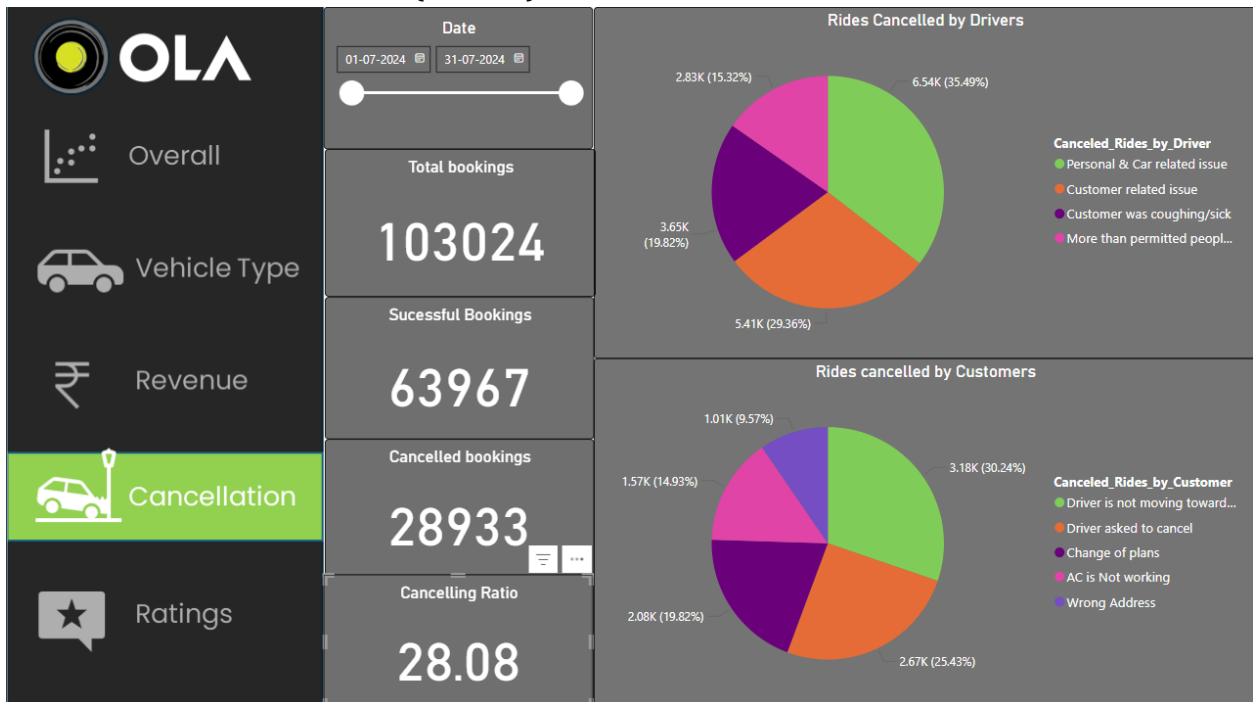
3. Revenue

- 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

