Ola Data Analytics Project — SQL Queries

This document contains SQL queries and their purposes used in the Ola Data Analytics project. The queries are based on the `bookings` table and focus on analyzing ride, driver, and customer data.

Retrieve All Successful Bookings

```sql
SELECT * FROM bookings WHERE Booking_Status = 'Success';
```

Create View: Successful Bookings

```sql
CREATE VIEW Successful_Bookings AS SELECT * FROM bookings WHERE Booking_Status = 'Success';
```

Find Average Ride Distance for Each Vehicle Type

```sql
SELECT Vehicle_Type, AVG(Ride_Distance) AS Average_Distance FROM bookings GROUP BY Vehicle_Type;
```

Create View: Average Ride Distance

```sql
CREATE VIEW Ride_Distance_For_Each_Vehicle AS SELECT Vehicle_Type, AVG(Ride_Distance) AS Average_Distance FROM bookings GROUP BY Vehicle_Type;
```

Get Total Number of Canceled Rides by Customers

```sql
SELECT COUNT(*) FROM bookings WHERE Booking_Status = 'Cancelled by Customer';
```

Create View: Canceled Rides by Customer

```sql
CREATE VIEW Cancelled_Rides_By_Customer AS SELECT COUNT(*) FROM bookings WHERE Booking_Status = 'Cancelled by Customer';
```

List Top Five Customers by Highest Number of Rides

```sql
SELECT Customer_ID, COUNT(Booking_ID) AS Total_Rides FROM bookings GROUP BY Customer_ID ORDER BY Total_Rides DESC LIMIT 5;
```

Create View: Top Five Customers

```sql
CREATE VIEW Top_Five_Customers AS SELECT Customer_ID, COUNT(Booking_ID) AS Total_Rides FROM bookings GROUP BY Customer_ID ORDER BY Total_Rides DESC LIMIT 5;
```

Get Number of Rides Canceled by Drivers (Personal/Car Issues)

```sql
SELECT COUNT(*) FROM bookings WHERE Cancel_Rights_By_Driver = 'Personal and Car Related Issue';
```

Create View: Canceled by Driver

```sql
CREATE VIEW Cancel_By_Drivers_P_C_Issues AS SELECT COUNT(*) FROM bookings WHERE Cancel_Rights_By_Driver = 'Personal and Car Related Issue';
```

Find Max and Min Driver Ratings for Prime Sedan

SELECT MAX(Driver_Ratings) AS Max_Rating, MIN(Driver_Ratings) AS Min_Rating FROM bookings WHERE Vehicle_Type = 'Prime Sedan';

Create View: Max/Min Driver Rating

CREATE VIEW Max_Min_Driver_Rating AS SELECT MAX(Driver_Ratings), MIN(Driver_Ratings) FROM bookings WHERE Vehicle_Type = 'Prime Sedan';

Retrieve All Rides Where Payment was Made using UPI

SELECT * FROM bookings WHERE Payment_Method = 'UPI';

Create View: UPI Payment

CREATE VIEW UPI_Payment AS SELECT * FROM bookings WHERE Payment_Method = 'UPI';

Find Average Customer Rating per Vehicle Type

SELECT Vehicle_Type, AVG(Customer_Ratings) AS Average_Customer_Rating FROM bookings GROUP BY Vehicle_Type;

Calculate Total Booking Value of Successfully Completed Rides

SELECT SUM(Booking_Value) AS Total_Successful_Ride_Value FROM bookings WHERE Booking_Status = 'Success';

List All Incomplete Rides Along with the Reason

SELECT Booking_ID, Incomplete_Rights_Reason FROM bookings WHERE Incomplete_Rights = 'Yes';