

Analyst Project

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:

Creation of Table

```
CREATE DATABASE IF NOT EXISTS Ola;
```

```
USE Ola;
```

```
CREATE TABLE bookings (
```

```
    Date DATE,
```

```
    Time TIME,
```

```
    Booking_ID VARCHAR(20) PRIMARY KEY,
```

```
    Booking_Status VARCHAR(50),
```

```
    Customer_ID VARCHAR(30),
```

```
    Vehicle_Type VARCHAR(30),
```

```
Pickup_Location VARCHAR(100),
Drop_Location VARCHAR(100),
V_TAT INT,          -- avg vehicle time to arrive (seconds or minutes)
C_TAT INT,          -- avg customer time to arrive
Cancelled_Rides_By_Customer BOOLEAN DEFAULT FALSE,
Cancel_Reason_Customer VARCHAR(100),
Cancelled_Rides_By_Driver BOOLEAN DEFAULT FALSE,
Cancel_Reason_Driver VARCHAR(100),
Incomplete_Rides BOOLEAN DEFAULT FALSE,
Incomplete_Rides_Reason VARCHAR(100),
Booking_Value DECIMAL(9,2),
Payment_Method VARCHAR(30),
Ride_Distance DECIMAL(6,2),
Driver_Ratings DECIMAL(2,1),
Customer_Rating DECIMAL(2,1)
);
```

SQL answers:

```
USE Ola;
```

```
-- 1 Retrieve all successful bookings:
```

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

-- 2 Average ride distance per vehicle type:

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

-- 3 Total number of cancelled rides by customers:

```
SELECT COUNT(*) AS cancelled_by_customers  
FROM bookings  
WHERE Booking_Status = 'Cancelled by Customer' OR Cancelled_Rides_By_Customer = 1;
```

-- 4 Top 5 customers by number of rides:

```
SELECT Customer_ID, COUNT(*) AS total_rides  
FROM bookings  
GROUP BY Customer_ID  
ORDER BY total_rides DESC  
LIMIT 5;
```

-- 5 Rides cancelled by drivers due to Personal & Car related issues:

```
SELECT COUNT(*) FROM bookings  
WHERE Cancel_Reason_Driver = 'Personal & Car related issue';
```

-- 6 Max & 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';
```

-- 7 Rides where payment was UPI:

```
SELECT * FROM bookings WHERE Payment_Method = 'UPI';
```

-- 8 Average customer rating per vehicle type:

```
SELECT Vehicle_Type, AVG(Customer_Rating) AS avg_customer_rating  
FROM bookings  
GROUP BY Vehicle_Type;
```

-- 9 Total booking value of rides completed successfully:

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

-- 10 List incomplete rides with reason:

```
SELECT Booking_ID, Incomplete_Rides_Reason  
FROM bookings  
WHERE Incomplete_Rides = 1 OR Booking_Status = 'Incomplete';
```