**Ride Application task:-**

**1. Drivers with rating ≥ 4.5**

SELECT FirstName, LastName, Phone

FROM Drivers

WHERE Rating >= 4.5;

**2. Total number of rides completed by each driver**

SELECT d.FirstName, d.LastName, COUNT(r.RideID) AS TotalRides

FROM Drivers d

LEFT JOIN Rides r ON d.DriverID = r.DriverID AND r.RideStatus = 'Completed'

GROUP BY d.DriverID;

**3. Riders who never booked a ride**

SELECT FirstName, LastName

FROM Riders

WHERE RiderID NOT IN (SELECT DISTINCT RiderID FROM Rides);

**4. Total earnings of each driver from completed rides**

SELECT d.FirstName, d.LastName, SUM(r.Fare) AS TotalEarnings

FROM Rides r

JOIN Drivers d ON r.DriverID = d.DriverID

WHERE r.RideStatus = 'Completed'

GROUP BY d.DriverID;

**5. Most recent ride for each rider**

SELECT r1.\*

FROM Rides r1

JOIN (

SELECT RiderID, MAX(RideDate) AS LatestRide

FROM Rides

GROUP BY RiderID

) r2 ON r1.RiderID = r2.RiderID AND r1.RideDate = r2.LatestRide;

**6. Count of rides taken in each city (based on driver's city)**

SELECT d.City, COUNT(r.RideID) AS TotalRides

FROM Rides r

JOIN Drivers d ON r.DriverID = d.DriverID

GROUP BY d.City;

**7. Rides with distance > 20 km**

SELECT \*

FROM Rides

WHERE Distance > 20;

**8. Most preferred payment method**

SELECT PaymentMethod, COUNT(\*) AS Frequency

FROM Payments

GROUP BY PaymentMethod

ORDER BY Frequency DESC

LIMIT 1;

**9. Top 3 highest-earning drivers**

SELECT d.FirstName, d.LastName, SUM(r.Fare) AS Earnings

FROM Rides r

JOIN Drivers d ON r.DriverID = d.DriverID

WHERE r.RideStatus = 'Completed'

GROUP BY d.DriverID

ORDER BY Earnings DESC

LIMIT 3;

**10. Cancelled rides with rider's and driver's names**

SELECT r.RideID, r.RideDate, r.PickupLocation, r.DropLocation,

rd.FirstName AS RiderFirst, rd.LastName AS RiderLast,

dr.FirstName AS DriverFirst, dr.LastName AS DriverLast

FROM Rides r

JOIN Riders rd ON r.RiderID = rd.RiderID

JOIN Drivers dr ON r.DriverID = dr.DriverID

WHERE r.RideStatus = 'Cancelled';