RDBMS TASK 2

TASK 2: OLA RIDE

Q.1. Retrieve the names and contact details of all drivers with a rating of 4.5 or higher.

SELECT FirstName, LastName, Phone **FROM** drivers **WHERE** Rating >4.5

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Q.2. Find the total number of rides completed by each driver.

SELECT FirstName, LastName, **COUNT**(Rides.RideID)
 FROM drivers d
JOIN rides **ON** rides.DriverID = d.DriverID
WHERE rides.RideStatus = 'Completed'
GROUP BY d.DriverID

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Q.3. List all riders who have never booked a ride.

SELECT r.FirstName, r.LastName **FROM** riders r
LEFT JOIN rides ri **ON** r.RiderID **=** ri.RiderID
WHERE ri.RideID **is NULL**

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Q.4. Calculate the total earnings of each driver from completed rides.

SELECT drivers.FirstName, drivers.LastName, rides.RideID , **SUM**(rides.Fare) **AS** total_amount
 FROM drivers
JOIN rides **ON** drivers.DriverID = rides.DriverID
GROUP BY drivers.FirstName, drivers.LastName, drivers.DriverID

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Q.5. Retrieve the most recent ride for each rider.

SELECT r1.RideDate, r1.RiderID, r.FirstName, r.LastName
 FROM rides r1
JOIN riders r **ON** r1.RiderID = r.RiderID
GROUP BY r.RiderID

ORDER BY r1.RideDate **DESC**

Q.6. Count the number of rides taken in each city.

SELECT r.FirstName, r.LastName, **COUNT**(r1.RideID) **AS** total_rides
 FROM riders r
JOIN rides r1 **ON** r1.RiderID = r.RiderID
GROUP BY r.City

Q.7. List all rides where the distance was greater than 20 km.

SELECT r.RideID, r.PickupLocation, r.DropLocation, r.Distance, r.Fare
FROM Rides r
WHERE r.Distance > 20

Q.8. Identify the most preferred payment method.

SELECT PaymentMethod**,** **COUNT**(PaymentMethod) **AS** Most_preffered_method
FROM Payments
GROUP BY PaymentMethod
ORDER BY Most_preffered_method **DESC**
LIMIT 1

Q.9. Find the top 3 highest-earning drivers.

SELECT d.FirstName, d.LastName, payments.Amount
 FROM drivers d
JOIN rides **ON** d.DriverID = rides.DriverID
JOIN payments **ON** rides.RideID = payments.RideID
ORDER BY payments.Amount **DESC**
LIMIT 3

Q.10. Retrieve details of all cancelled rides along with the rider's and driver's names.

```sql
SELECT  d.FirstName  AS  Driver_first_name,  d.LastName  AS  Driver_last_name ,
r.FirstName AS Rider_first_name, r.LastName AS Rider_last_name, r1.RideStatus
FROM drivers d
JOIN rides r1 ON d.DriverID = r1.DriverID
JOIN riders r ON r1.RiderID = r.RiderID
WHERE r1.RideStatus = 'Cancelled'
GROUP BY r1.RiderID
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