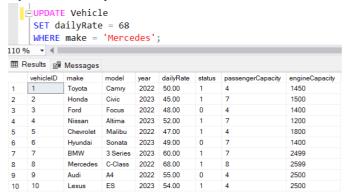
HEXAWARE CODING CHALLENGE

Car Rental System

NAME: Eswara Venkata Sai Raja

CODING CHALLENGE: Car Rental System

1. Update the daily rate for a Mercedes car to 68.

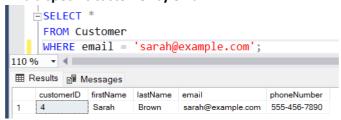


2. Delete a specific customer and all associated leases and payments.

```
DELETE FROM Payment
     WHERE leaseID IN (SELECT leaseID FROM Lease WHERE customerID = 1);
     Select * from Payment;
paymentID leaseID paymentDate
                    2023-02-20
                              1000.00
                    2023-03-12
                    2023-04-25
                              900.00
                    2023-05-07
                              60.00
                    2023-06-18
                              1200.00
                              40.00
                    2023-08-14
                              1100.00
                    2023-09-09
                    2023-10-25
```

3. Rename the "paymentDate" column in the Payment table to "transactionDate".

4. Find a specific customer by email.

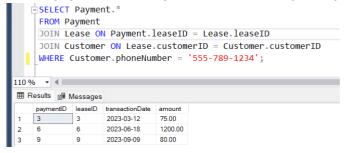


5. Get active leases for a specific customer.

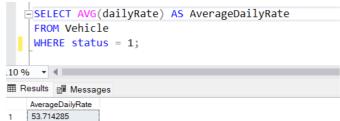
```
FROM Lease
WHERE customerID = 2
AND endDate > GETDATE();

BResults
Results
Res
```

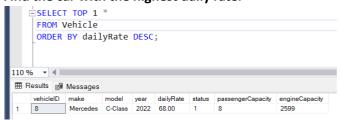
6. Find all payments made by a customer with a specific phone number.



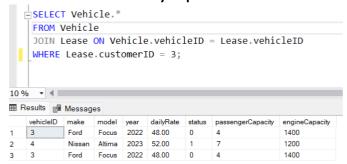
7. Calculate the average daily rate of all available cars.



8. Find the car with the highest daily rate.



9. Retrieve all cars leased by a specific customer.



10. Find the details of the most recent lease.

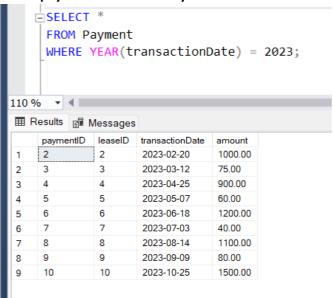
```
FROM Lease
ORDER BY startDate DESC;

110 %

Results Messages

| lease|D vehicle|D customer|D startDate endDate type |
1 10 10 10 2023-10-10 2025-03-23 Monthly
```

11. List all payments made in the year 2023.



12. Retrieve customers who have not made any payments.

```
⇒SELECT *
     FROM Customer
     WHERE customerID NOT IN (
         SELECT DISTINCT customerID
         FROM Lease
          JOIN Payment ON Lease.leaseID = Payment.leaseID
     );
110 % ▼ ◀ ■
customerID firstName lastName email
                                             phoneNumber
                            johndoe@example.com 555-555-5555
           John
                     Doe
                     Hall
                                             555-234-5678
                             laura@example.com
              Laura
                           william@example.com 555-321-6547
                     Taylor
```

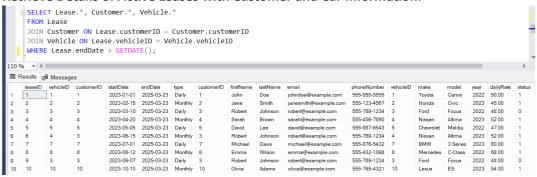
13. Retrieve Car Details and Their Total Payments.

14. Calculate Total Payments for Each Customer.

15. List Car Details for Each Lease.



16. Retrieve Details of Active Leases with Customer and Car Information.



17. Find the Customer Who Has Spent the Most on Leases.

18. List All Cars with Their Current Lease Information.

