Coding Challenge 3

Car Rental System

Table Creation & Data Insertion:

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coding challege 3 car rental* ×
 /* coding challenge 3*/
  1
  3 • create database if not exists carrental;
  4 • use carrental;
  6 • ⊝ CREATE TABLE Vehicle (
          vehicleID INT PRIMARY KEY,
  8
          make VARCHAR(255),
  9
          model VARCHAR(255),
          year INT,
 10
          dailyRate DECIMAL(10, 2),
 11
 12
           status enum('1','0'),
 13
           passengerCapacity INT,
 14
           engineCapacity int
 15
 16
 17
 18 • ⊝ CREATE TABLE Customer (
 19
         customerID INT PRIMARY KEY,
 20
           firstName VARCHAR(255),
          lastName VARCHAR(255),
          email VARCHAR(255),
           phoneNumber VARCHAR(20)
 23
      ٠);
 24
27 • ⊝ CREATE TABLE Lease (
         leaseID INT PRIMARY KEY,
29
          vehicleID INT,
         customerID INT,
30
         startDate DATE,
32
          endDate DATE,
33
          type VARCHAR(20),
34
          FOREIGN KEY (vehicleID) REFERENCES Vehicle(vehicleID),
          FOREIGN KEY (customerID) REFERENCES Customer(customerID)
35
36
37
38 • ⊝ CREATE TABLE Payment (
         paymentID INT PRIMARY KEY,
39
40
         leaseID INT,
41
         paymentDate DATE,
42
          amount DECIMAL(10, 2),
43
          FOREIGN KEY (leaseID) REFERENCES Lease(leaseID)
```

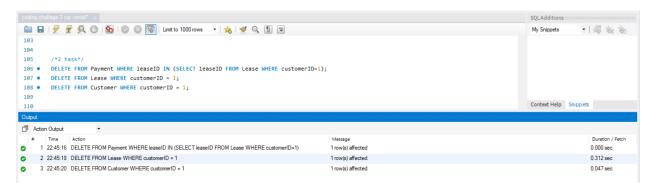
```
46 •
        insert into vehicle values
47
            (1, 'Toyota', 'Camry', 2022, 50.00, '1', 4, 1450),
            (2, 'Honda', 'Civic', 2023, 45.00, '1', 7, 1500),
48
            (3, 'Ford', 'Focus', 2022, 48.00, '0', 4, 1400),
49
50
            (4, 'Nissan', 'Altima', 2023, 52.00, '1', 7, 1200),
            (5, 'Cheverlet', 'Malibu', 2022, 47.00, '1', 4, 1800),
51
            (6, 'Hyundai', 'Sonata', 2023, 49.00, '0', 7, 1400),
52
53
            (7, 'BMW', '3 Series', 2023, 60.00, '1', 7, 2499),
            (8, 'Mercedes', 'C-Class', 2022, 58.00, '1', 8, 2599),
            (9,'Audi','A4',2022,55.00,'0',4,2500),
55
            (10, 'Lexus', 'ES', 2023, 54.00, '1', 4, 2500);
56
57
58 •
        insert into customer(customerid,firstname,lastname,phonenumber) values
59
            (1, 'John', 'Doe', '555-555-555-'),
60
            (2, 'Jane', 'smith', '555-123-4567'),
61
            (3, 'Robert', 'Johnson', '555-789-1234'),
62
            (4, 'Sarah', 'Brown', '555-456-7890'),
            (5, 'David', 'Lee', '555-787-6543'),
63
            (6, 'Laura', 'hall', '555-234-5678'),
64
65
            (7, 'micheal', 'davis', '555-876-5432'),
            (8,'emma','wilson','555-423-1098'),
66
67
            (9, 'william', 'taylor', '555-321-6547'),
            (10, 'olivia', 'adams', '555-765-4321');
68
        update customer SEt email = concat(firstname,lastname,'@example.com');
69 •
71 •
        insert into lease values
        (1,1,1,'2023-01-01','2023-01-05','daily'),
72
        (2,2,2,'2023-02-15','2023-02-28','monthly'),
73
        (3,3,3,'2023-03-10','2023-03-15','daily'),
74
        (4,4,4,'2023-04-20','2023-04-30','monthly'),
75
76
        (5,5,5,'2023-05-05','2023-05-10','daily'),
77
        (6,4,3,'2023-06-15','2023-06-30','monthly'),
        (7,7,7,'2023-07-01','2023-07-10','daily'),
78
79
        (8,8,8,'2023-08-12','2023-08-15','monthly'),
80
        (9,3,3,'2023-09-07','2023-09-10','daily'),
        (10,10,10,'2023-10-10','2023-10-31','monthly');
82
83 •
        insert into payment values
84
            (1,1,'2023-01-03',200),
            (2,2,'2023-02-03',1000),
85
            (3,3,'2023-03-03',75),
86
            (4,4,'2023-04-03',900),
87
            (5,5,'2023-05-03',60),
88
            (6,6,'2023-06-03',1200),
89
90
            (7,7,'2023-07-03',40),
            (8,8,'2023-08-03',1100),
91
            (9,9,'2023-09-03',80),
92
93
            (10,10,'2023-10-03',1500);
94
```

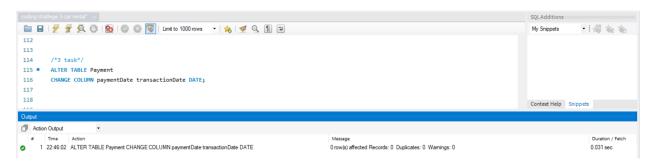
TASK:

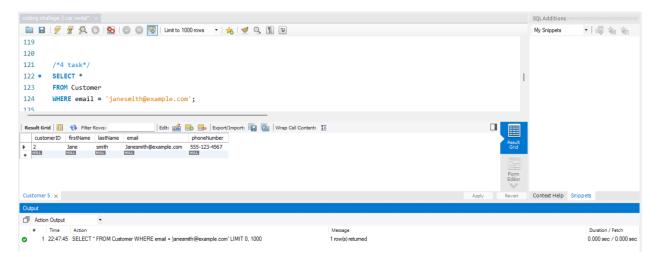
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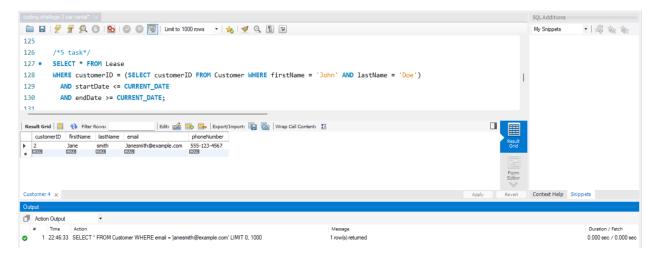
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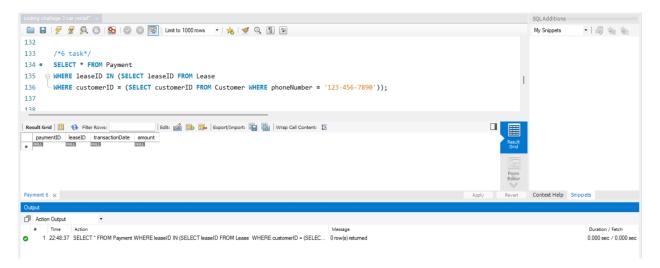
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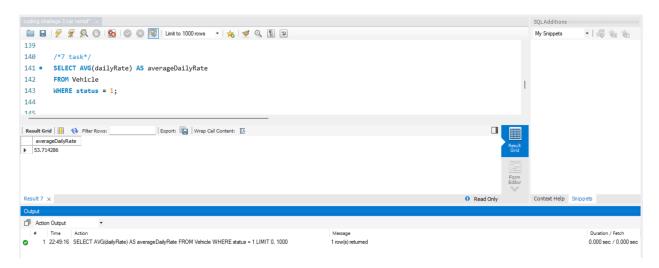


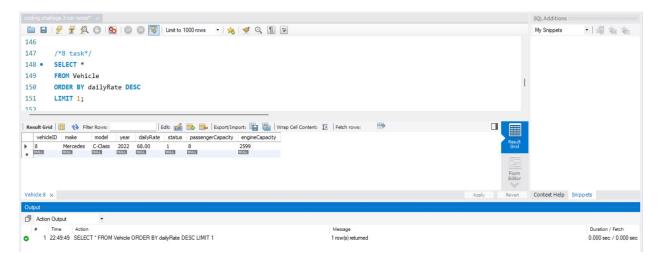


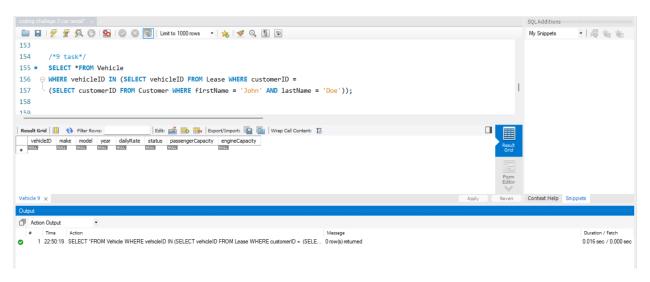


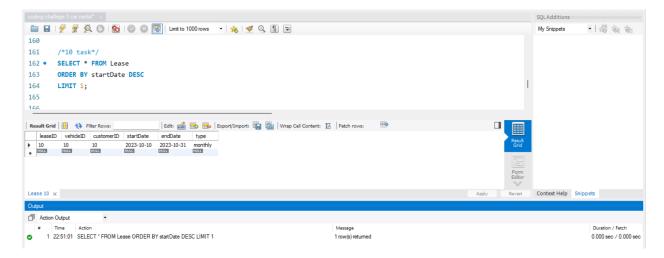


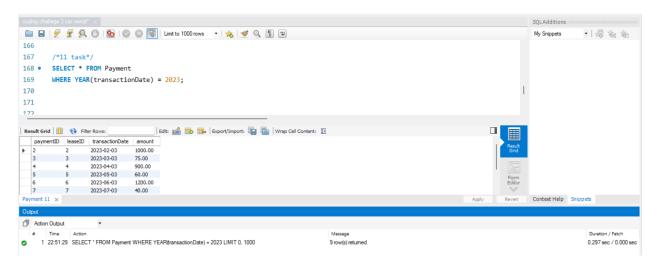


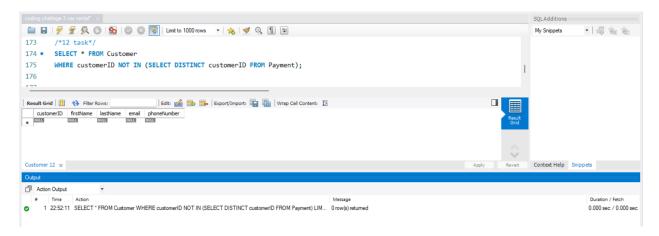












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