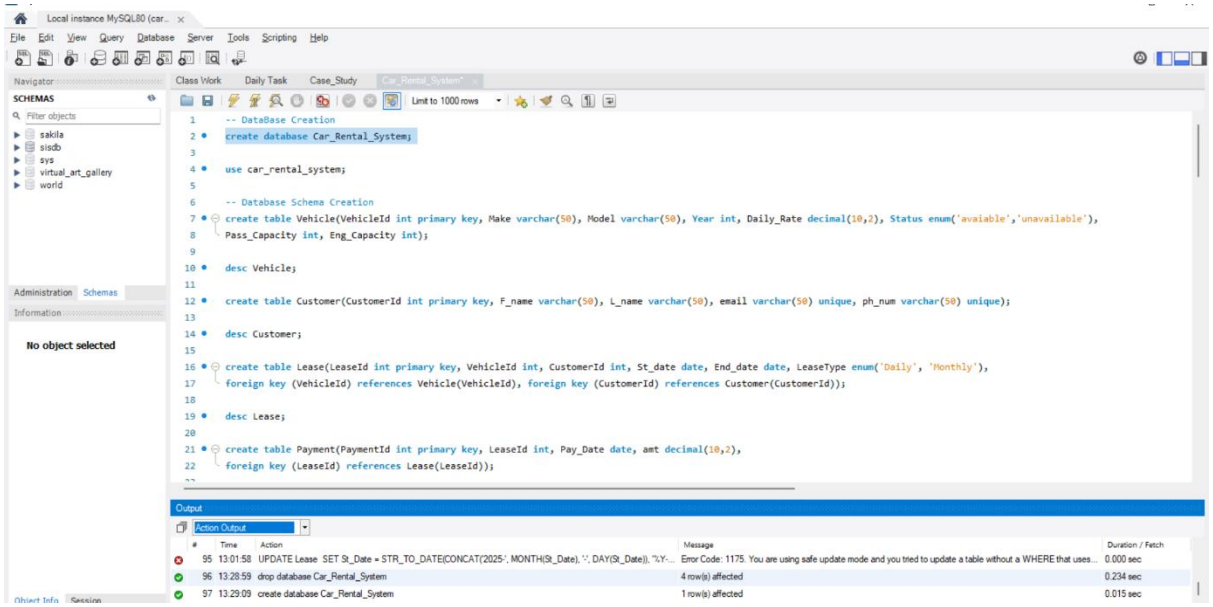
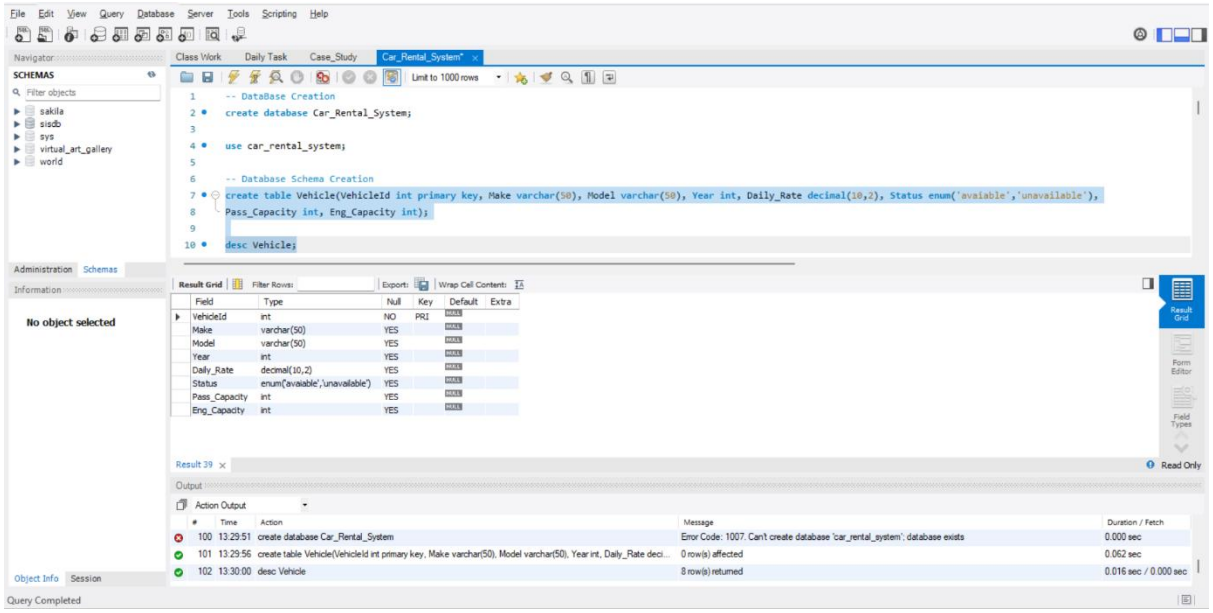
Coding Challenge Output

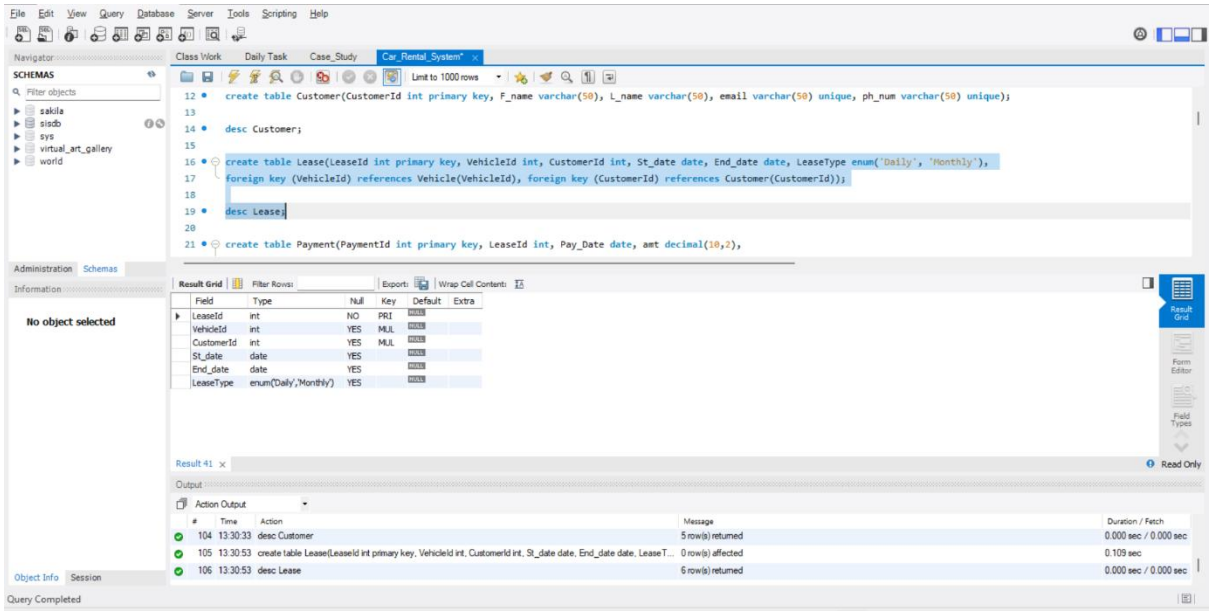
Car Rental System

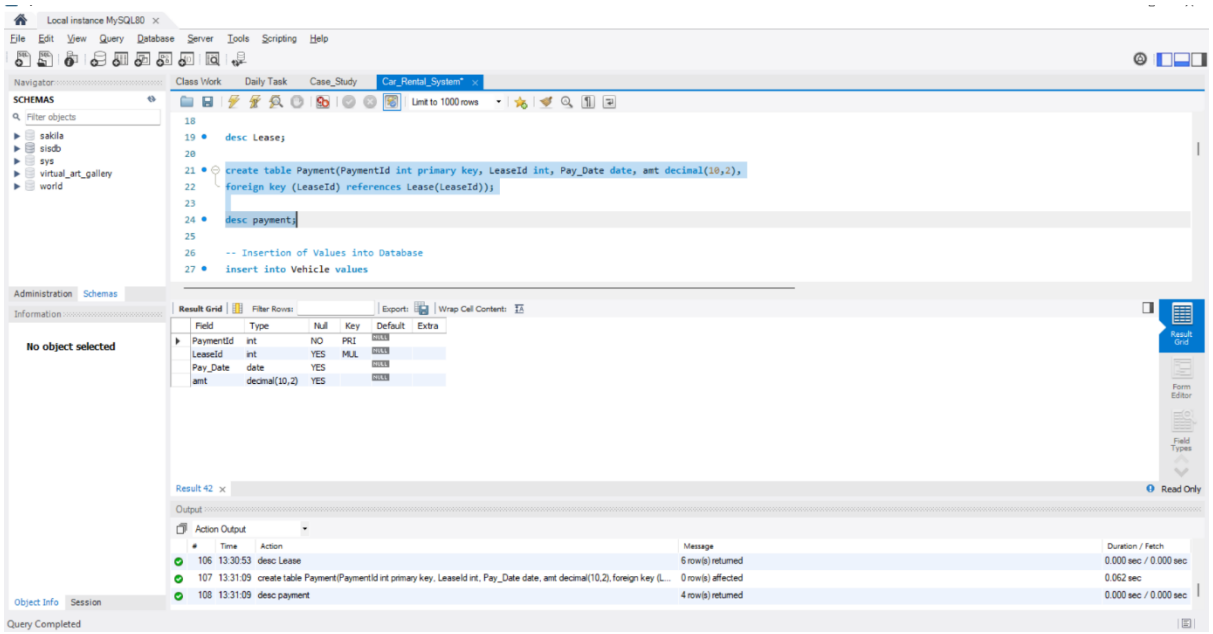
1. Database Creation



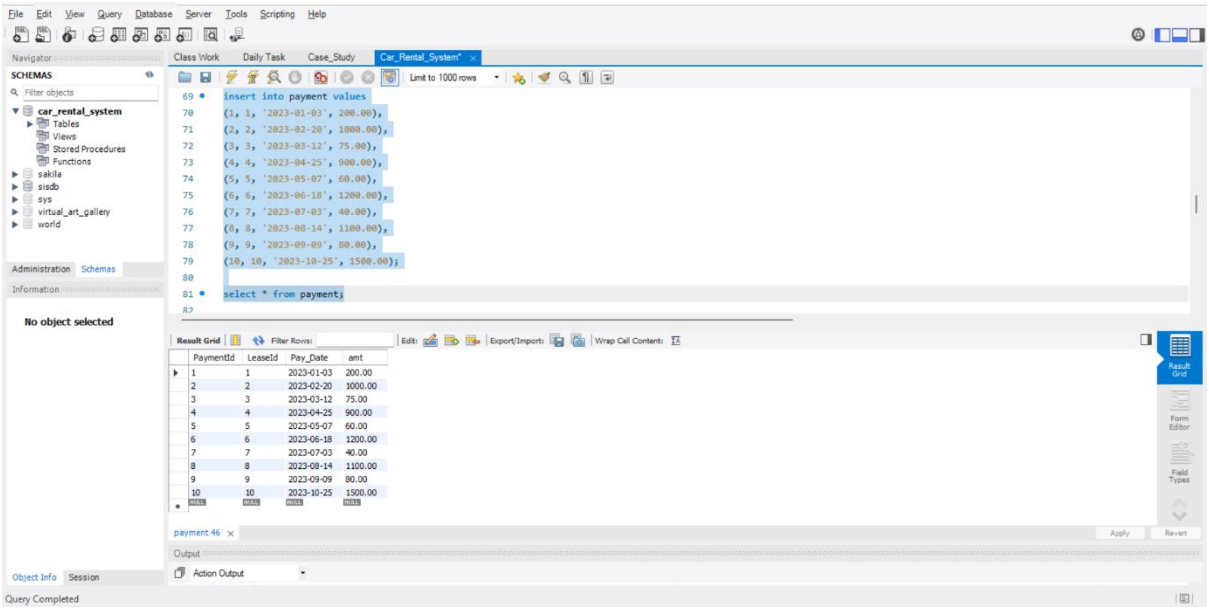
2. Schema Creation

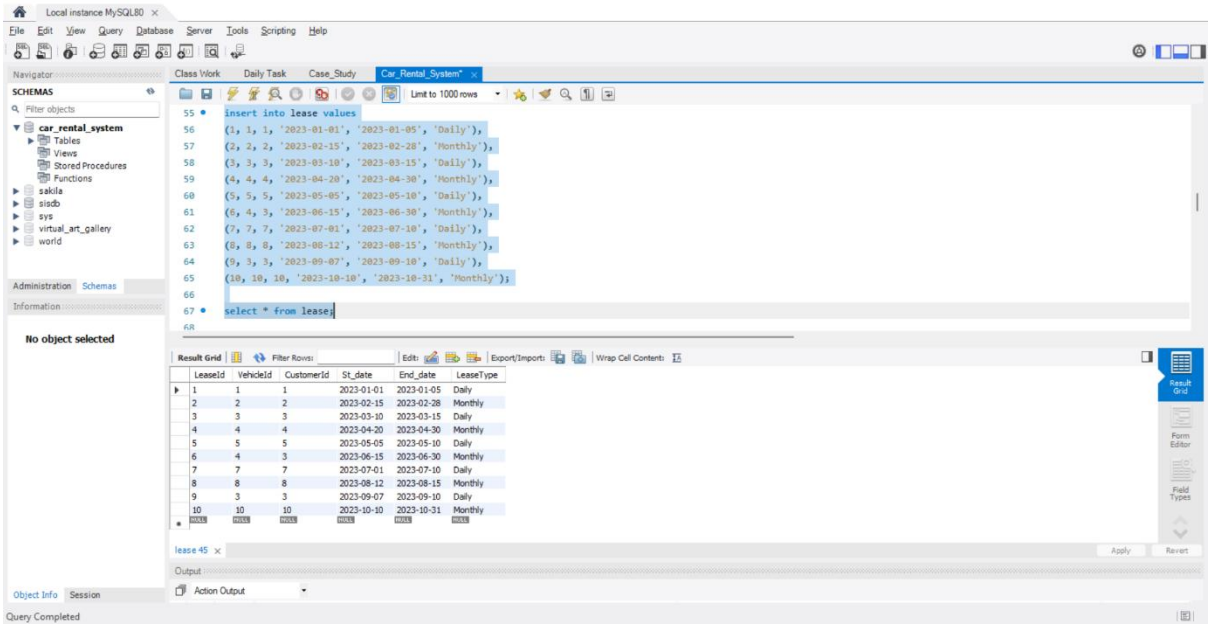


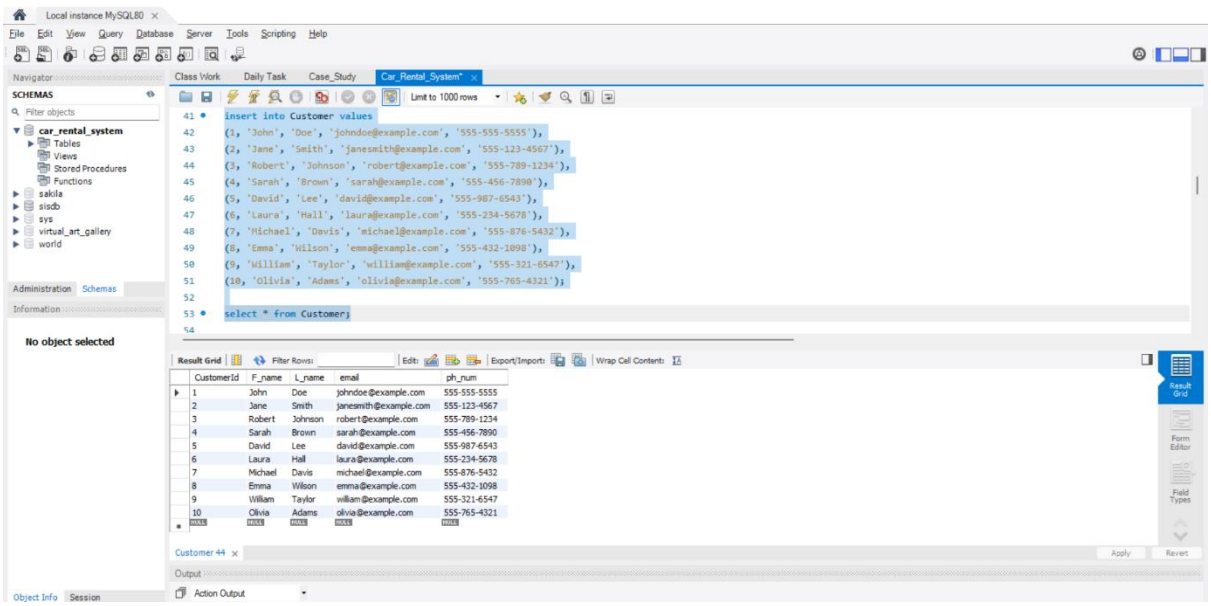

File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
sakila
sisdb
sys
virtual_art_gallery
world
Class Work
Daily Task
Case_Study
Car_Rental_System*
Limit to 1000 rows
12 create table Customer(CustomerId int primary key, F_name varchar(50), L_name varchar(50), email varchar(50) unique, ph_num varchar(50) unique);
13
14 desc Customer;
15
16 create table Lease(LeaseId int primary key, VehicleId int, CustomerId int, St_date date, End_date date, LeaseType enum('Daily', 'Monthly'),
17 foreign key (VehicleId) references Vehicle(VehicleId), foreign key (CustomerId) references Customer(CustomerId));
18
19 desc Lease;
20
21 create table Payment(PaymentId int primary key, LeaseId int, Pay_Date date, amt decimal(10,2),
Administration Schemas
Information
No object selected
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
Field Type Null Key Default Extra
LeaseId int NO PRI NULL
VehicleId int YES MUL NULL
CustomerId int YES MUL NULL
St_date date YES NULL
End_date date YES NULL
LeaseType enum('Daily','Monthly') YES NULL
Result 41
Read Only
Output
Action Output
Time Action Message Duration / Fetch
104 13:30:33 desc Customer 5 row(s) returned 0.000 sec / 0.000 sec
105 13:30:53 create table Lease(LeaseId int primary key, VehicleId int, CustomerId int, St_date date, End_date date, LeaseT... 0 row(s) affected 0.109 sec
106 13:30:53 desc Lease 6 row(s) returned 0.000 sec / 0.000 sec
Object Info Session
Query Completed


Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
sakila
sisdb
sys
virtual_art_gallery
world
Class Work
Daily Task
Case_Study
Car_Rental_System*
Limit to 1000 rows
18
19 desc Lease;
20
21 create table Payment(PaymentId int primary key, LeaseId int, Pay_Date date, amt decimal(10,2),
22 foreign key (LeaseId) references Lease(LeaseId));
23
24 desc payment;
25
26 -- Insertion of Values into Database
27 insert into Vehicle values
Administration Schemas
Information
No object selected
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
Field Type Null Key Default Extra
PaymentId int NO PRI NULL
LeaseId int YES MUL NULL
Pay_Date date YES NULL
amt decimal(10,2) YES NULL
Result 42
Read Only
Output
Action Output
Time Action Message Duration / Fetch
106 13:30:53 desc Lease 6 row(s) returned 0.000 sec / 0.000 sec
107 13:31:09 create table Payment(PaymentId int primary key, LeaseId int, Pay_Date date, amt decimal(10,2), foreign key (L... 0 row(s) affected 0.062 sec
108 13:31:09 desc payment 4 row(s) returned 0.000 sec / 0.000 sec
Object Info Session
Query Completed

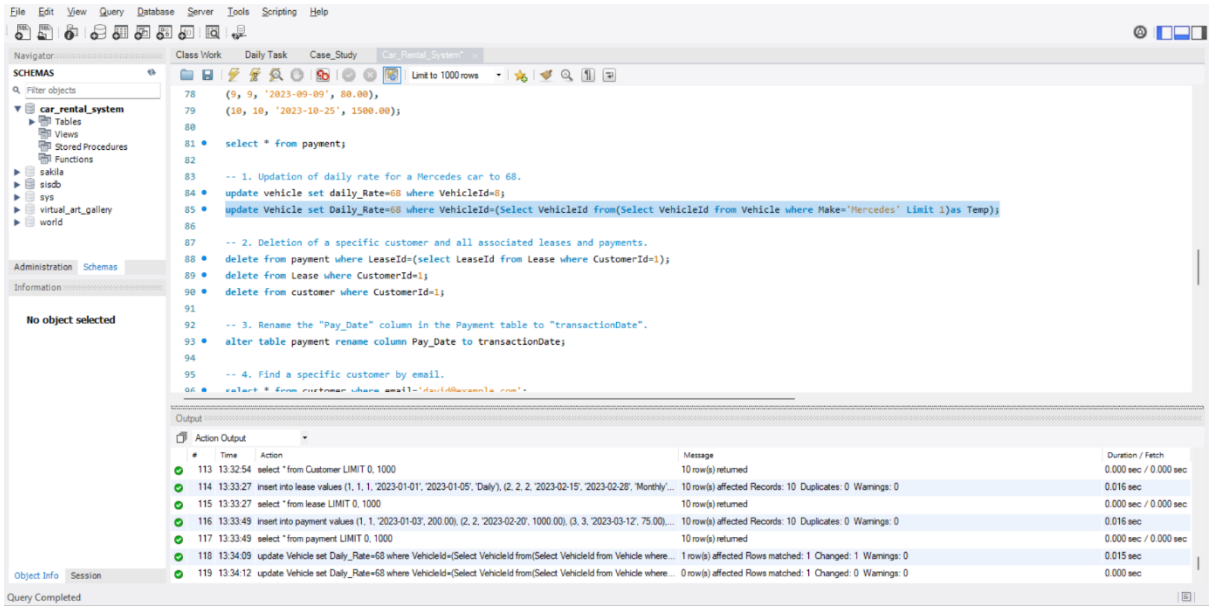
3. Insertion of Values



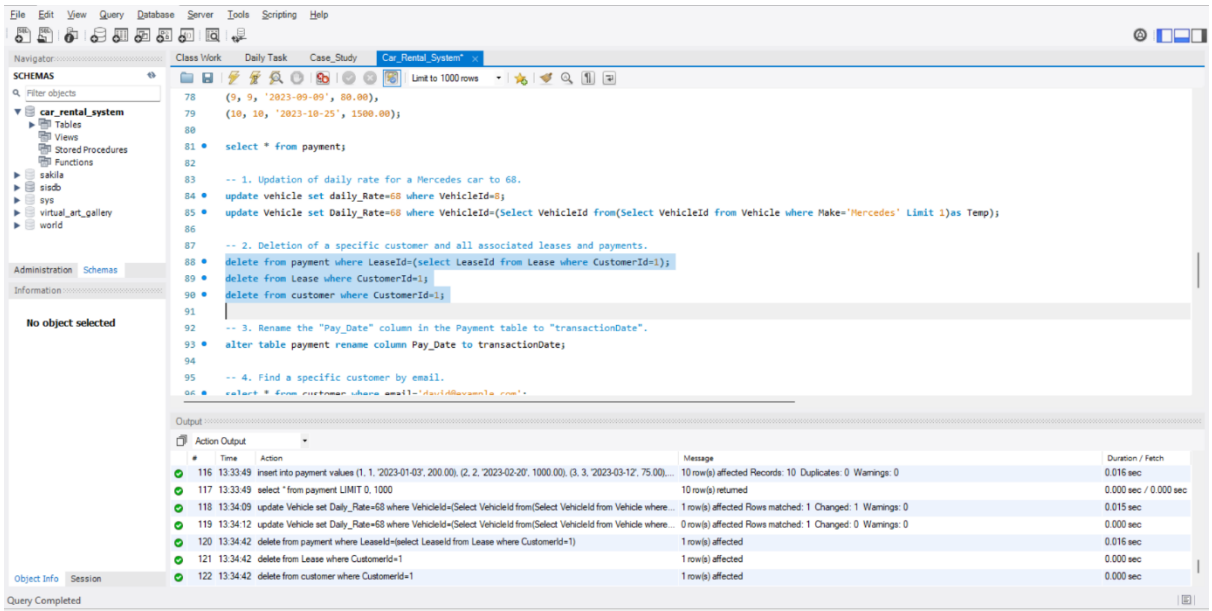




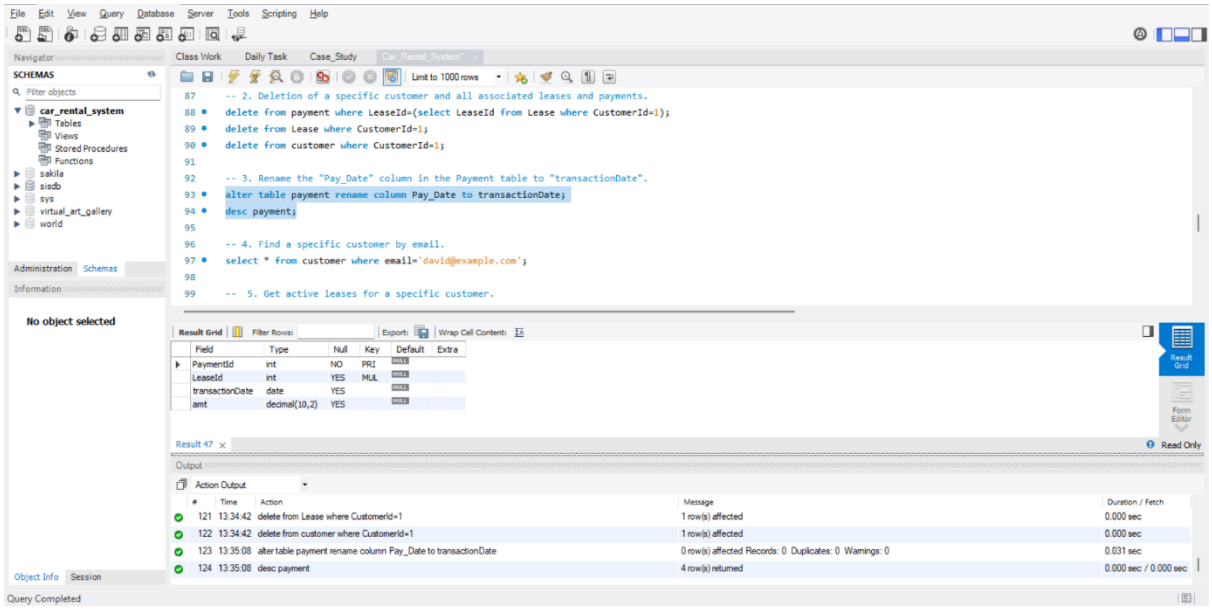
Task 1 - Updation of daily rate for a Mercedes car to 68.



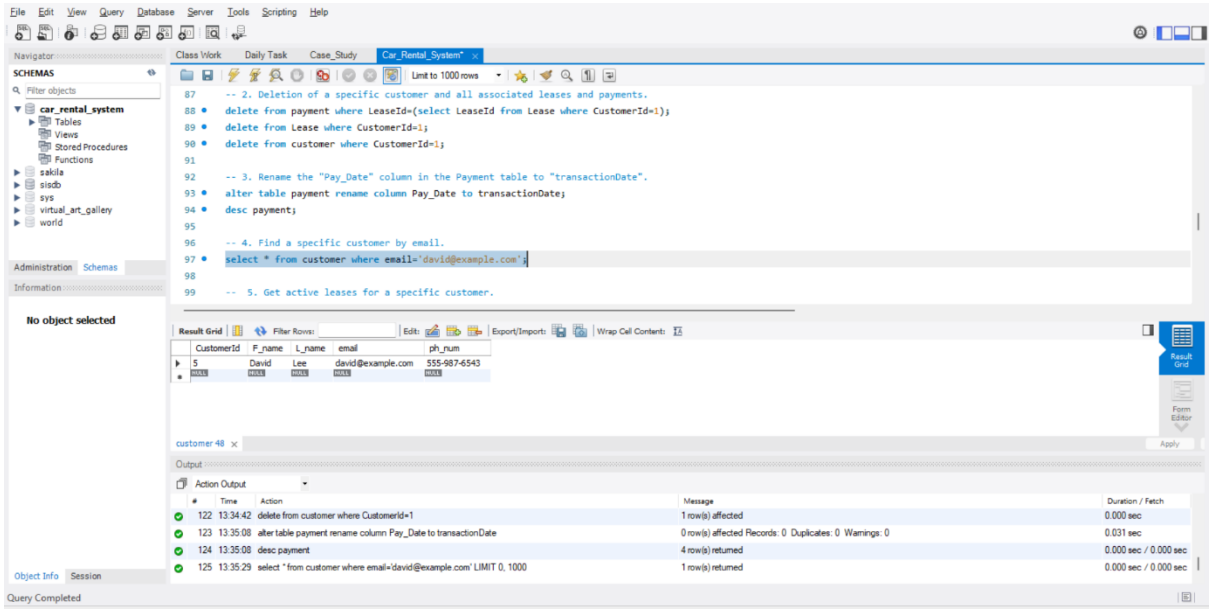
Task 2 - Deletion of a specific customer and all associated leases and payments.



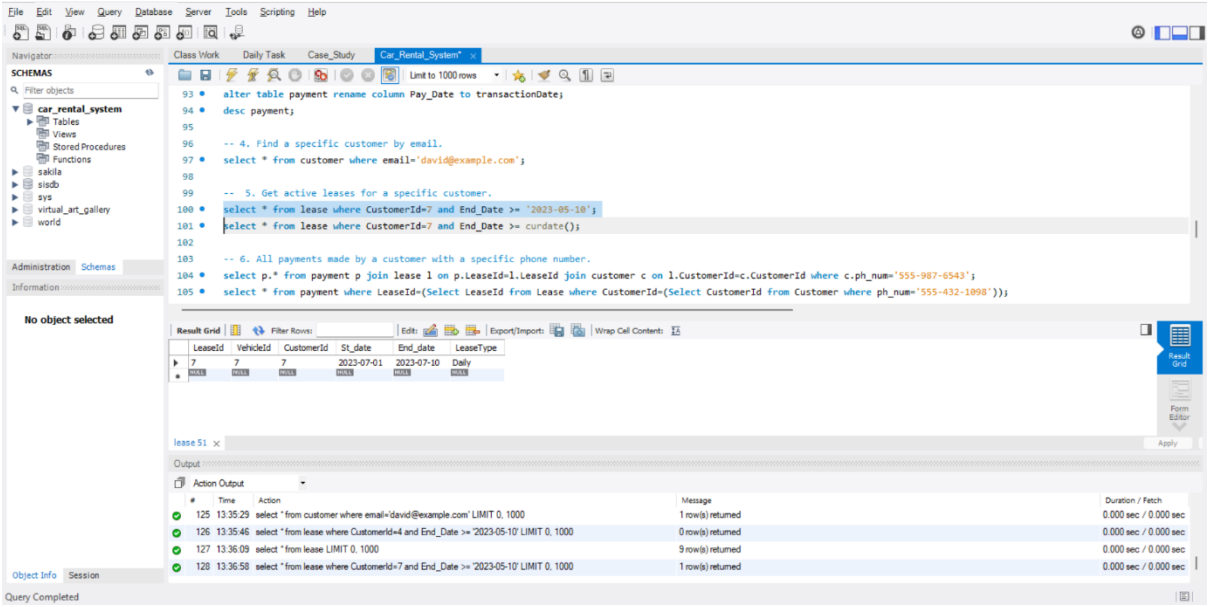
Task 3 - Rename the "Pay_Date" column in the Payment table to "transactionDate".



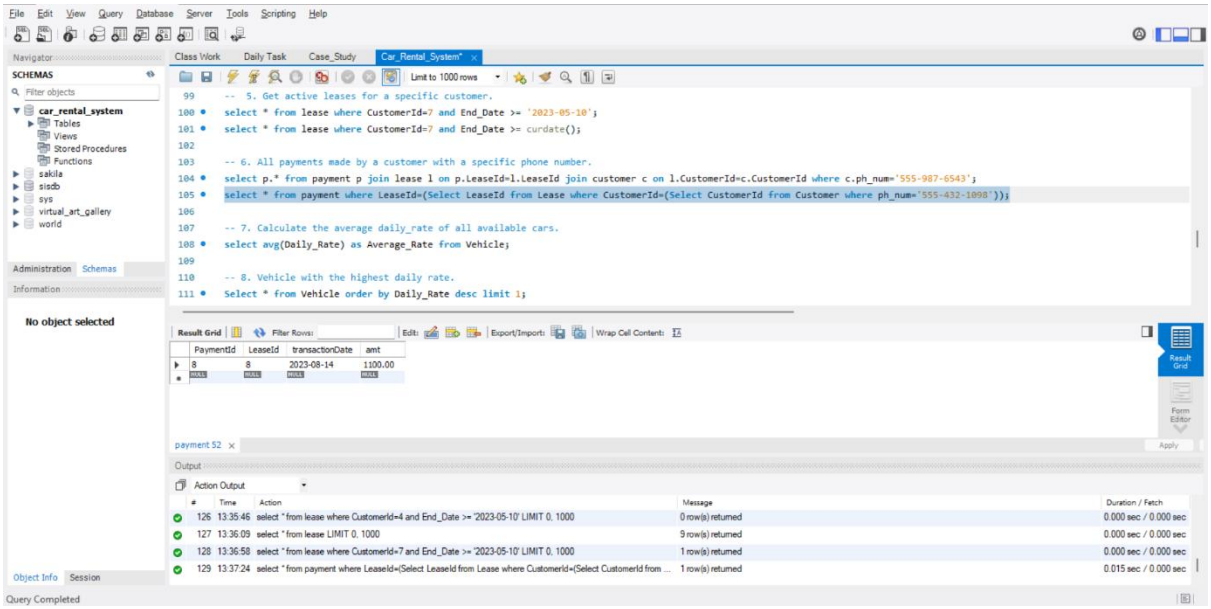
Task 4 - Find a specific customer by email.



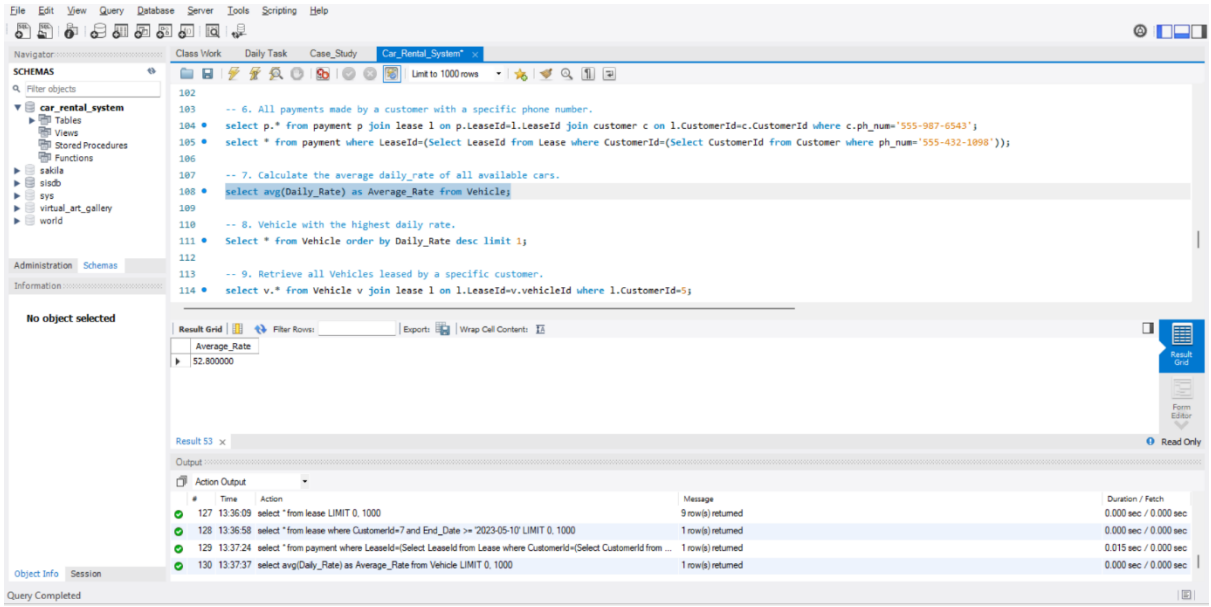
Task 5 - Get active leases for a specific customer.



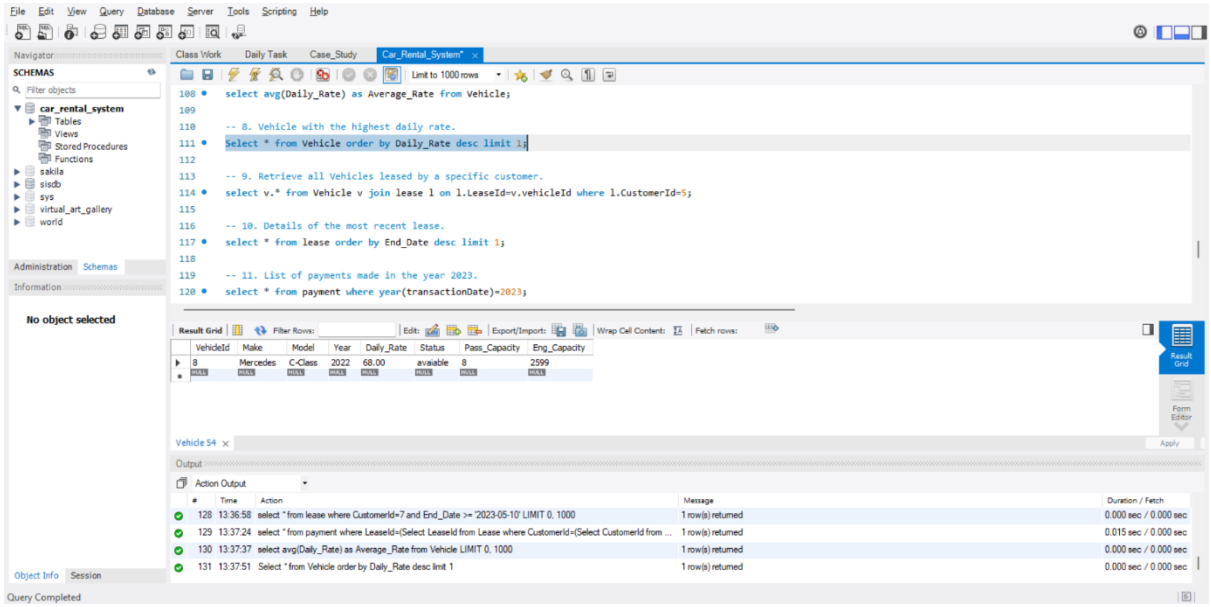
Task 6 - All payments made by a customer with a specific phone number.



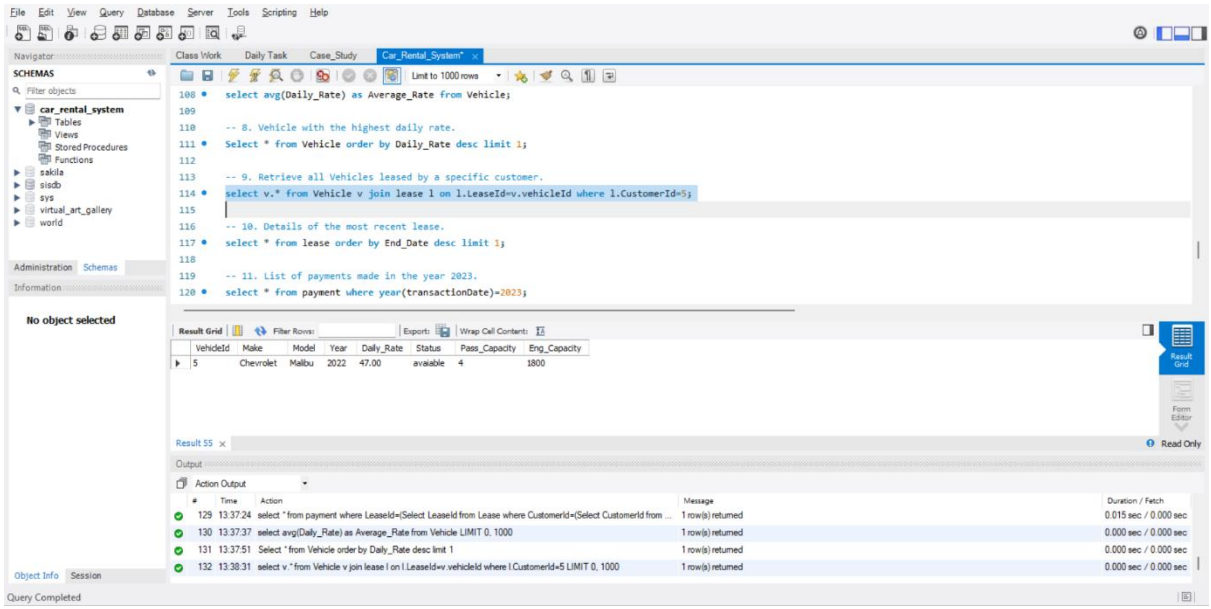
Task 7 - Calculate the average daily_rate of all available cars.



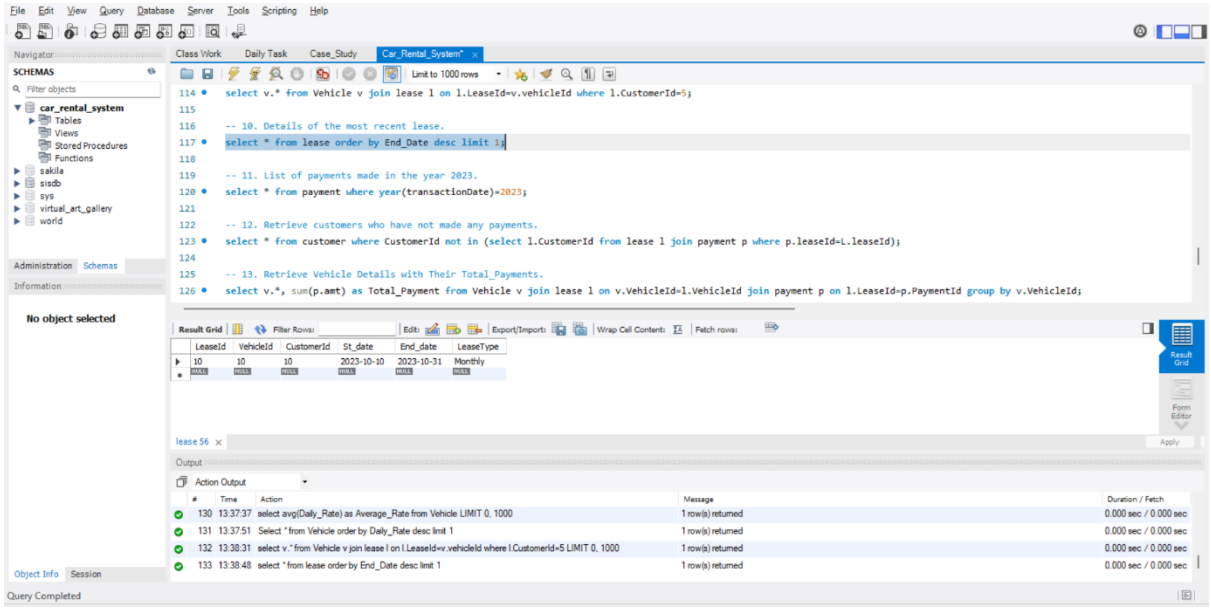
Task 8 - Vehicle with the highest daily rate.



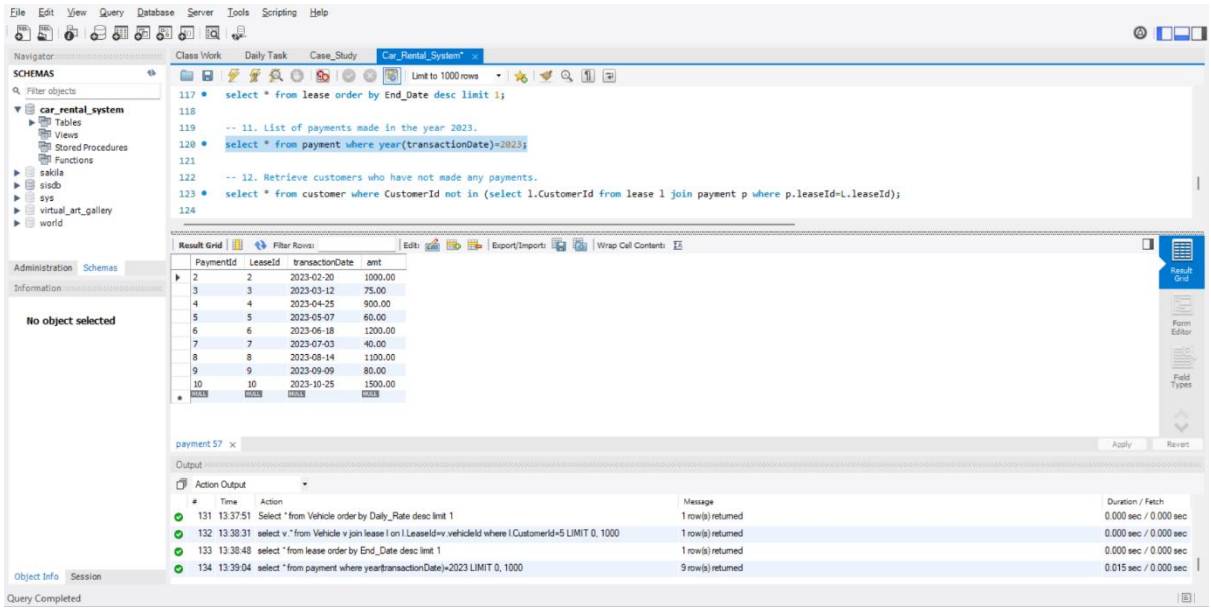
Task 9 - Retrieve all Vehicles leased by a specific customer.



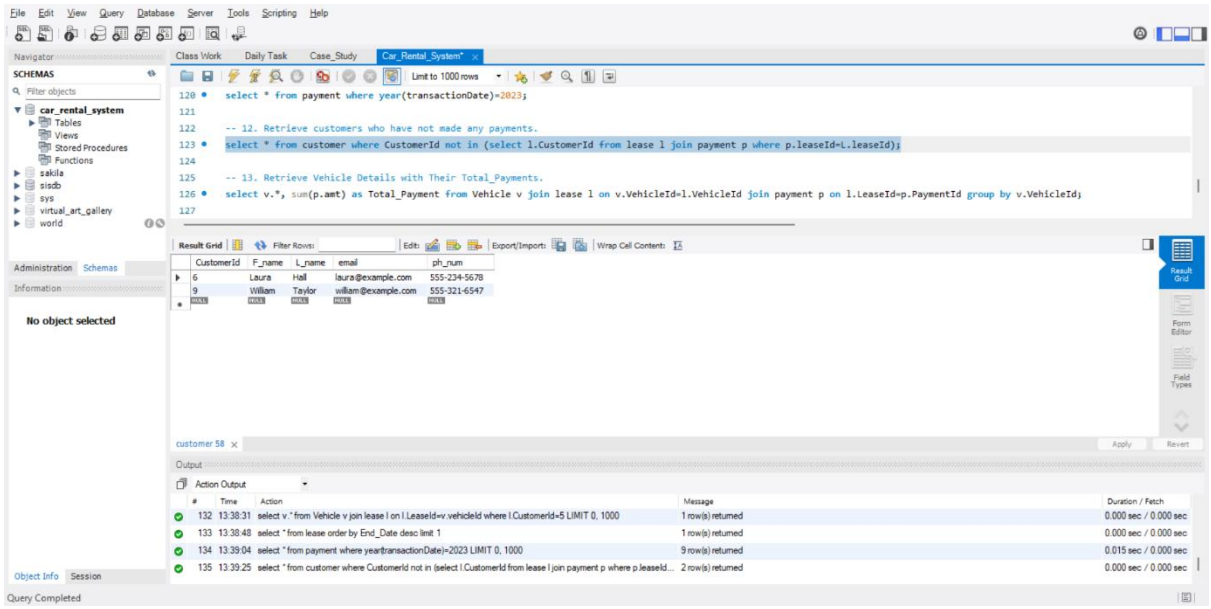
Task 10 - Details of the most recent lease.



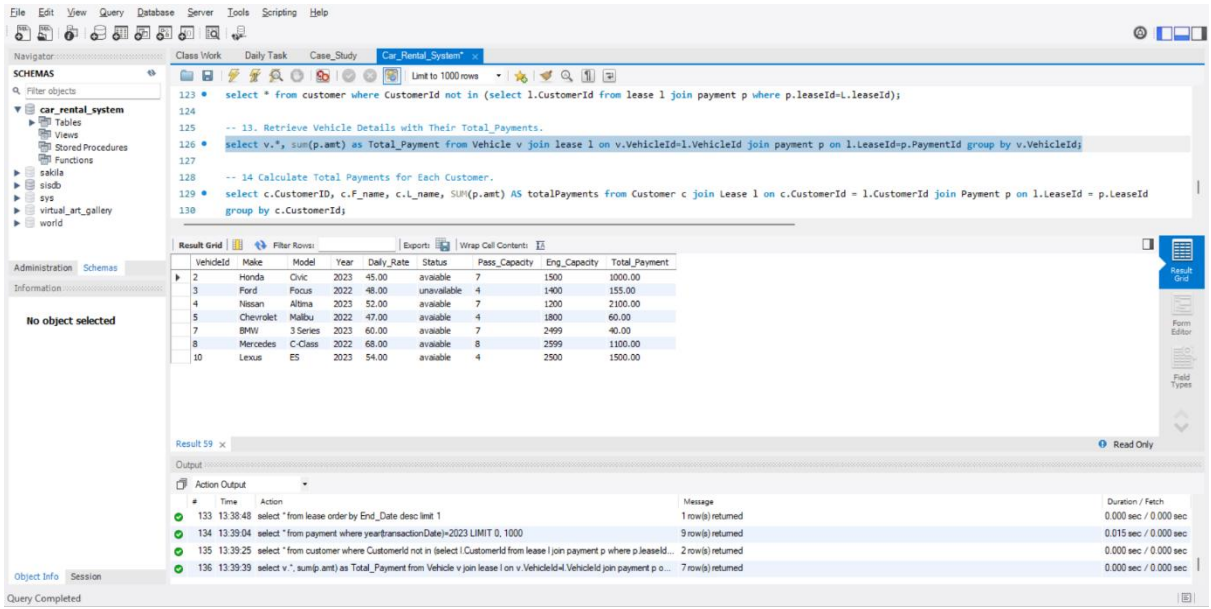
Task 11 - List of payments made in the year 2023.



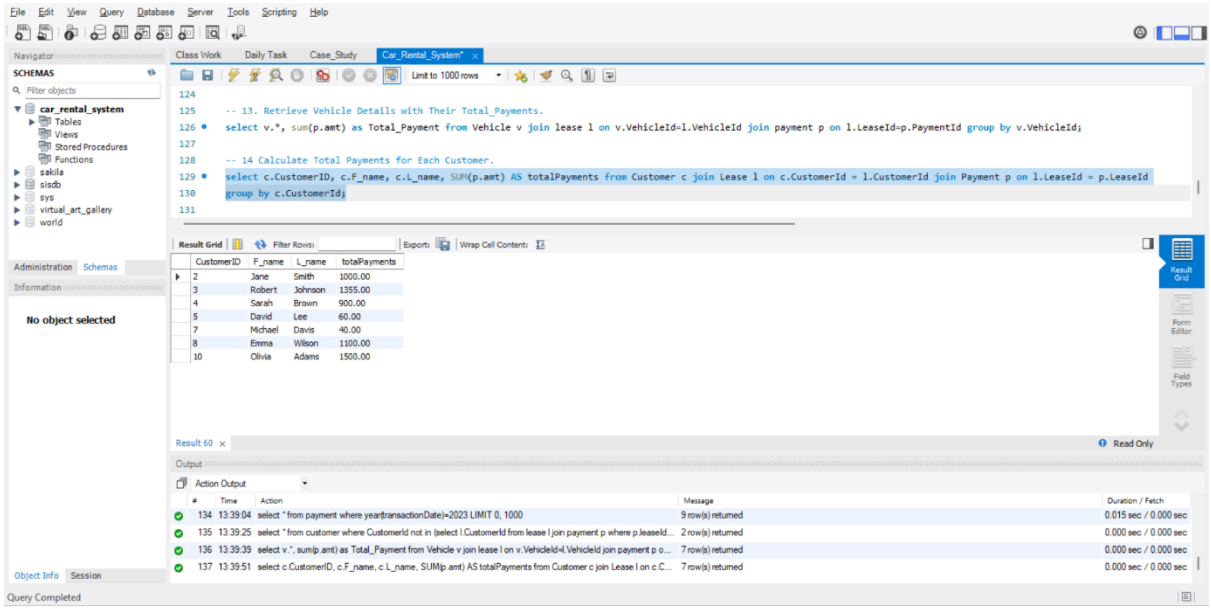
Task 12 – Retrieve customers who have not made any payments.



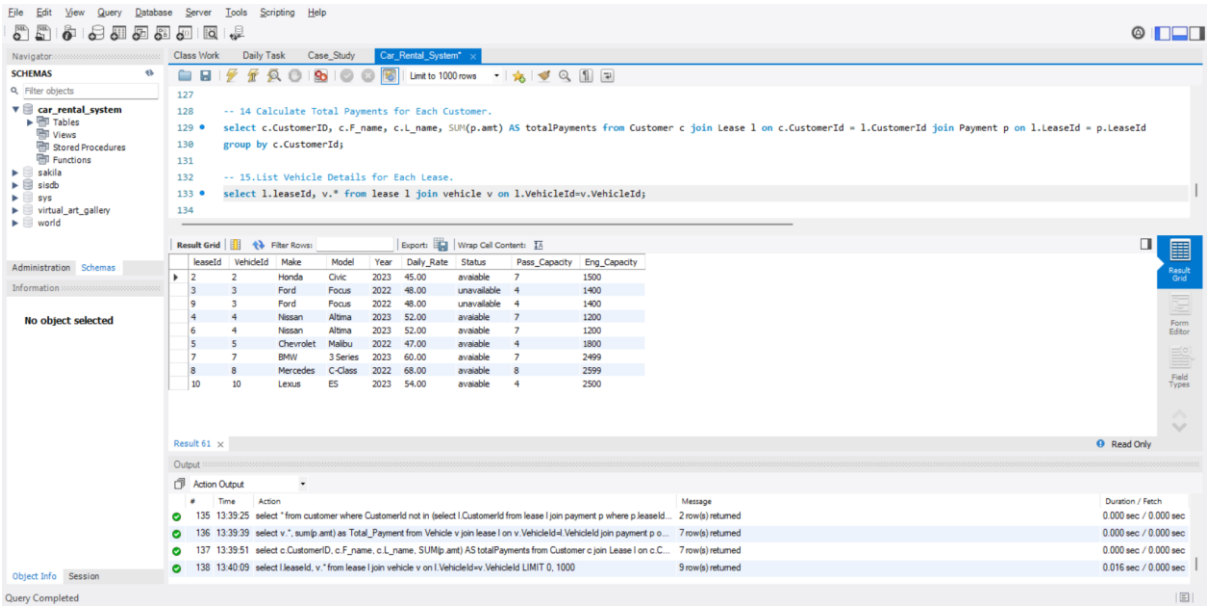
Task 13 - Retrieve Vehicle Details with Their Total_Payments.



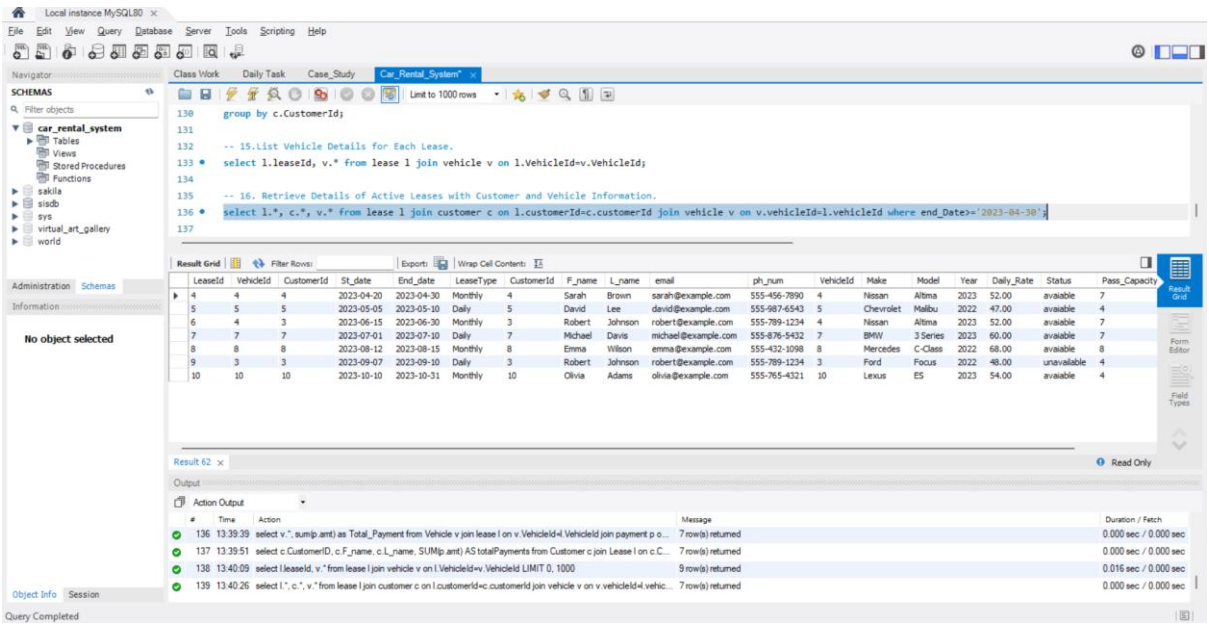
Task 14 – Calculate Total Payments for Each Customer.



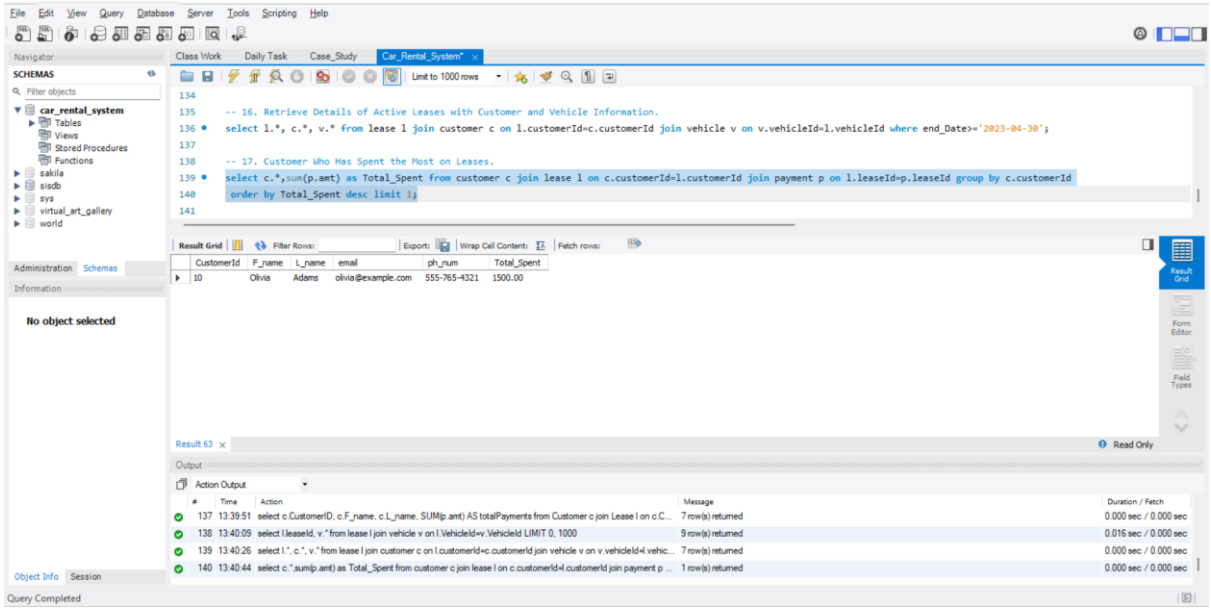
Task 15 - List Vehicle Details for Each Lease.



Task 16 - Retrieve Details of Active Leases with Customer and Vehicle Information.



Task 17 - Customer Who Has Spent the Most on Leases.



Task 18 - List of All Vehicles and Their Current Lease Information.