University of Texas at Arlington

CSE 3330 Database Project 2 Part 3

By

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HONOR CODE

I pledge, on my honor, to uphold UT Arlington's tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.

I promise that I will submit only work that I personally create or that I contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.

This document contains Screen shots of some of the codes used in the CSE 3330 Database project.

To review the entire source code please visit https://github.com/ujjwalbgn/cse3330

**Tools Used: \*\*\*\* need to update**

Database: SQlite3

Programming Language: python

Database tool: DB Browser for SQLite

Version Control: Git (GitHub link: [**https://github.com/ujjwalbgn/cse3330**](https://github.com/ujjwalbgn/cse3330))

The data was copied to the python script where those data were inserted into the inserted functions which inserted the data into the tables.

The queries were ran in DB Browser for SQLite and the screenshot of the query with the respected results are listed in this document.

**Database, Table Creation and Data Insertion:**

To create Database, Table and Insert data into the table we used the same code of Part 2. The code can be located at the projects GitHub Repo. <https://github.com/ujjwalbgn/cse3330/blob/master/Project%202%20part%202/create_insert.py>

And the Documentation for is it also located at same GitHub Repo.

[https://github.com/ujjwalbgn/cse3330/blob/master/Project%202%20part%202/Bajagain\_Pathak.docx](%20https:/github.com/ujjwalbgn/cse3330/blob/master/Project%202%20part%202/Bajagain_Pathak.docx)

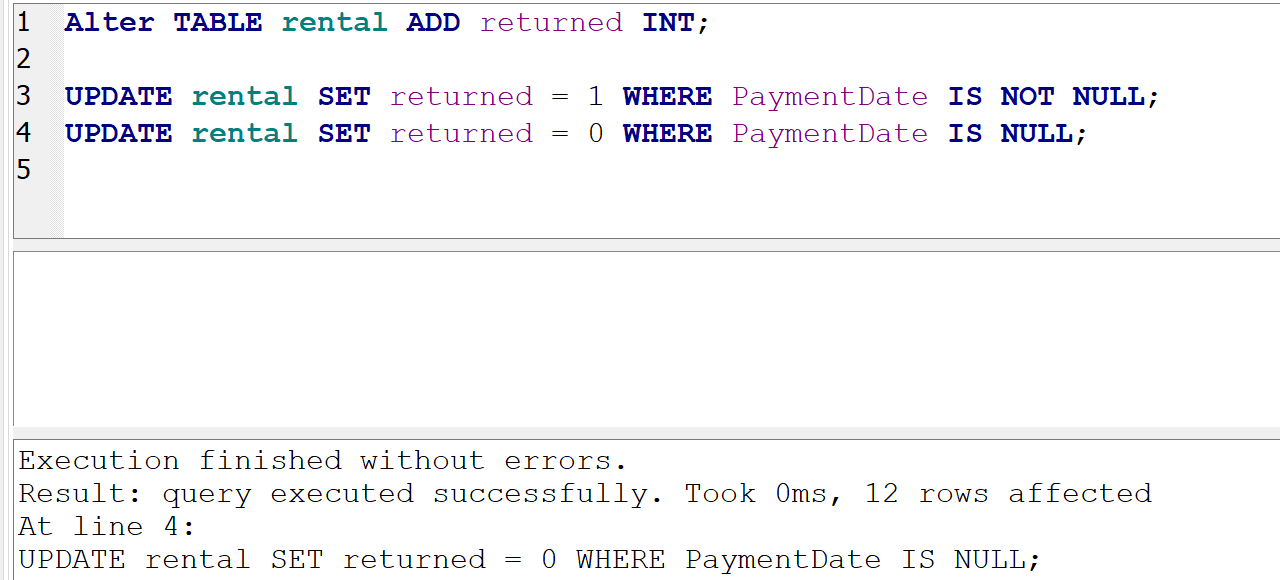
**Task 1:**

**Query 1:**

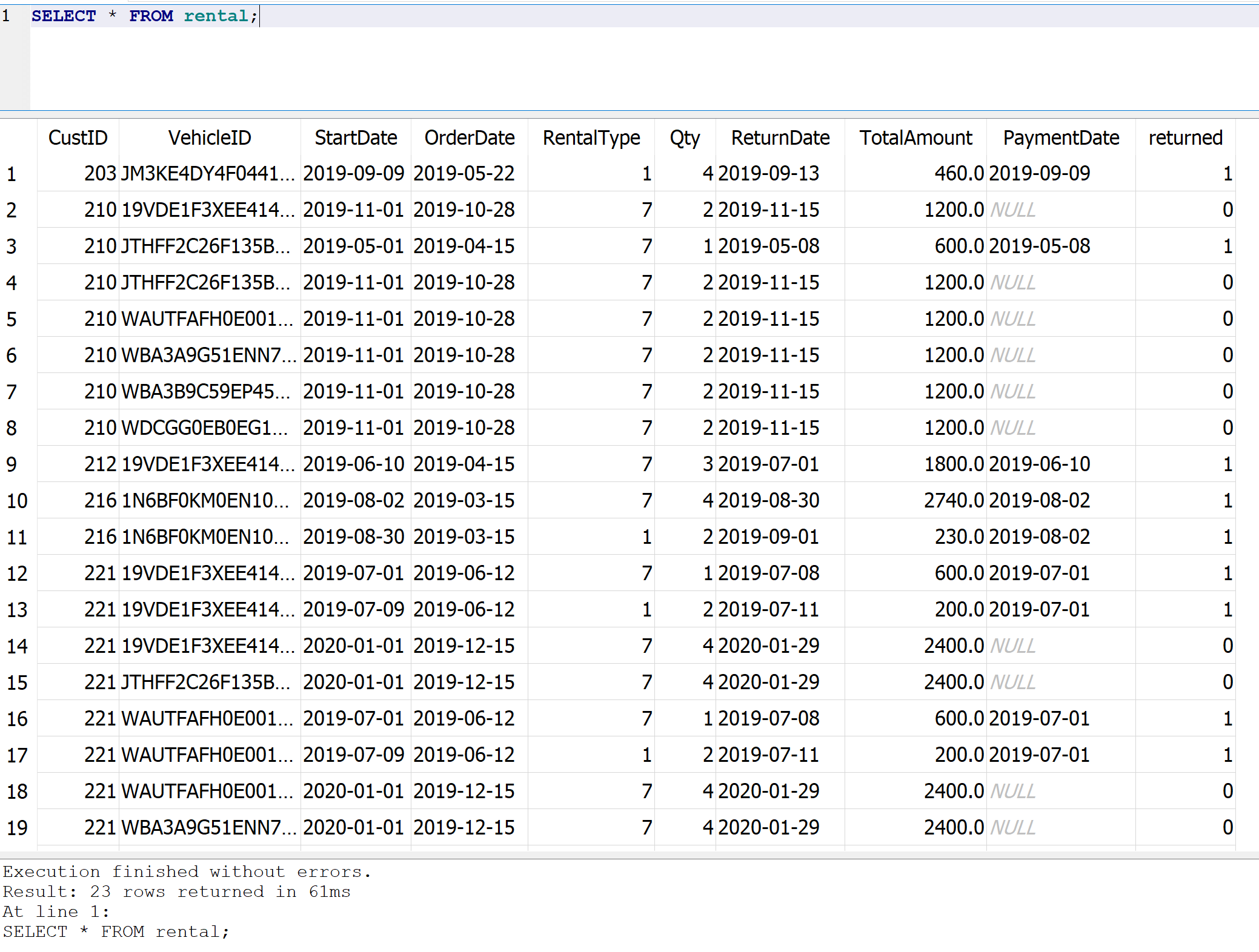
Alter TABLE rental ADD returned INT;

UPDATE rental SET returned = 1 WHERE PaymentDate IS NOT NULL;

UPDATE rental SET returned = 0 WHERE PaymentDate IS NULL;



SELECT \* FROM rental;



**Query 2:**

CREATE VIEW [vRentalInfo] AS

SELECT rental.OrderDate, rental.StartDate, rental.ReturnDate,(Julianday(ReturnDate)-Julianday(StartDate)) AS 'TotalDays', vehicle.VehicleID AS 'VIN', vehicle.Description AS 'Vehicle',

CASE WHEN vehicle.Type = 1 THEN 'Compact'

WHEN vehicle.Type = 2 THEN 'Medium'

WHEN vehicle.Type = 3 THEN 'Large'

WHEN vehicle.Type = 4 THEN 'SUV'

WHEN vehicle.Type = 5 THEN 'Truck'

WHEN vehicle.Type = 6 THEN 'Van'

END As "Vehicle Type",

CASE WHEN vehicle.Category = 0 THEN 'Basic'

WHEN vehicle.Category = 1 THEN 'Luxury'

END As 'Category',

customer.CustID AS 'CustomerID',

customer.name AS 'CustomerName',

rental.TotalAmount AS 'OrderAmount',

CASE WHEN rental.PaymentDate != 'NULL' THEN rental.TotalAmount

ELSE 0

END AS RentalBalance

FROM vehicle

INNER JOIN customer, rental, rate

ON customer.CustID = rental.CustID AND rental.VehicleID = vehicle.VehicleID AND vehicle.Type = rate.Type AND vehicle.Category = rate.Category;

SELECT \* FROM vRentalInfo;

