### **LAB 1:**

## **PROGRAM 1: INSURANCE DATABASE**

Consider the Insurance database given below. The primary keys are underlined and the data types are specified.

PERSON (driver-id #: String, name: String, address: String)

CAR (Regno: String, model: String, year: int)

ACCIDENT (report-number: int, date: date, location: String)

OWNS (driver-id #: String, Regno: String)

PARTICIPATED (driver-id: String, Regno: String, report-number: int, damage-amount: int)

i. Create the above tables by properly specifying the primary keys and the foreign keys.

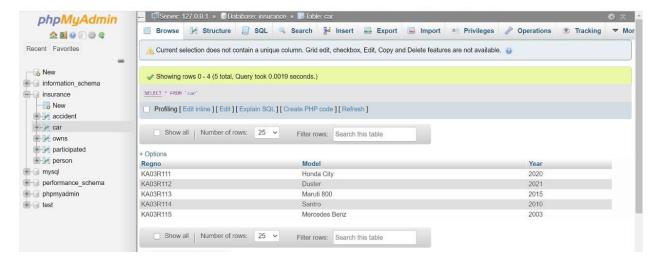
ii. Enter at least five tuples for each relation.

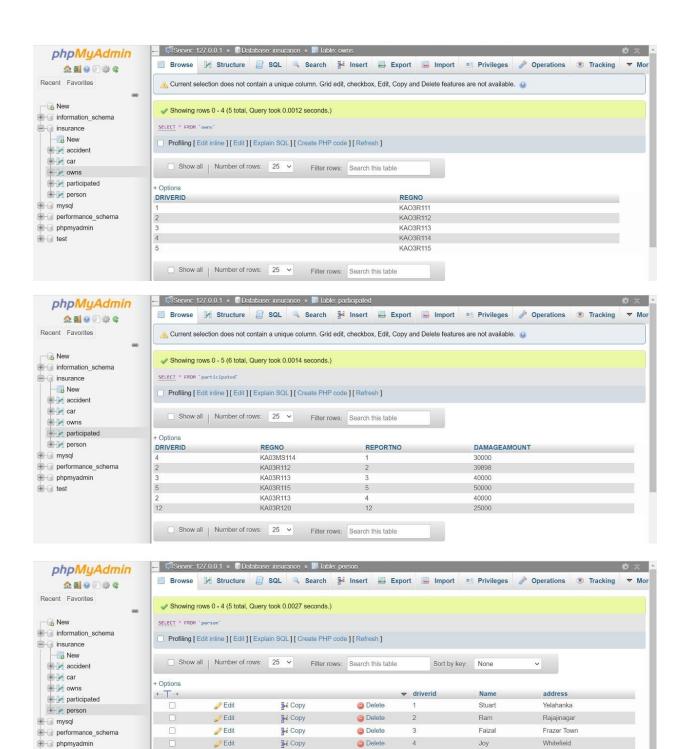
iii.Demonstrate how you

a. Update the damage amount for the car with a specific Regno in the accident with report number 12 to

25000.

- b. Add a new accident to the database.
- iv. Find the total number of people who owned cars that involved in accidents in 2008.
- v. Find the number of accidents in which cars belonging to a specific model were involved.





Delete

Delete

5

Export

Rajesh

Sort by key: None

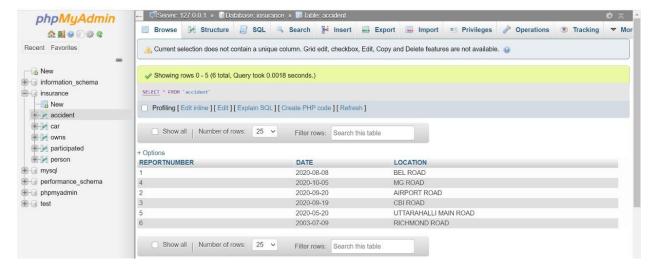
Jakkur

+ test

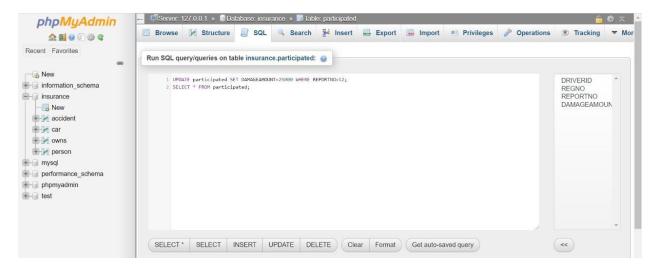
@ Edit

3 € Copy

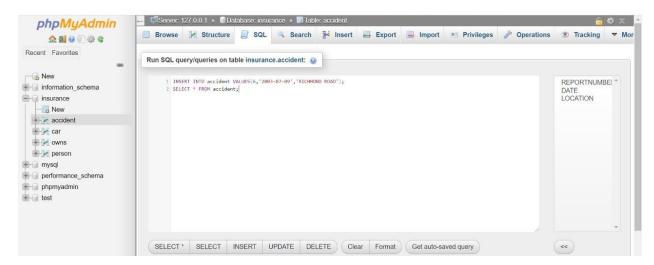
☐ Show all | Number of rows: 25 ∨ Filter rows: Search this table



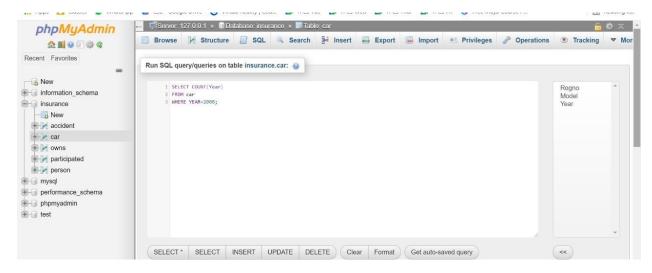
### iii. a.



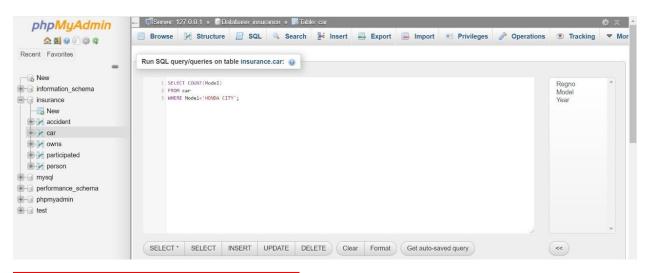
# iii. b.



iv.



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# **PROGRAM 2. BANKING ENTERPRISE DATABASE**

Consider the following database for a banking enterprise.

BRANCH (branch-name: String, branch-city: String, assets: real)

ACCOUNTS (accno: int, branch-name: String, balance: real)

DEPOSITOR (customer-name: String, customer-street: String, customer-city: String)

LOAN (loan-number: int, branch-name: String, amount: real)

**BORROWER** (customer-name: String, loan-number: int)

- i. Create the above tables by properly specifying the primary keys and the foreign keys.
- ii. Enter at least five tuples for each relation.

- iii. Find all the customers who have at least two accounts at the Main branch.
- iv. Find all the customers who have an account at all the branches located in a specific city.
- v. Demonstrate how you delete all account tuples at every branch located in a specific city.

