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.

create table branch(branch\_name varchar(30),branch\_city varchar(20),assets int,primary key(branch\_name));

create table account(accno int,branch\_name varchar(20),balance int,primary key(accno));

create table customer(customer\_name varchar(20),customer\_street varchar(20),customer\_city varchar(20),primary key(customer\_name));

create table depositor(customer\_name varchar(20),accno int,primary key(customer\_name,accno),foreign key(customer\_name) references customer(customer\_name),foreign key(accno) references account(accno) on delete cascade);

create table loan(loan\_number int,branch\_name varchar(20),amount int,primary key(loan\_number),foreign key(branch\_name) references branch(branch\_name));

create table borrower(customer\_name varchar(20),loan\_number int,primary key(customer\_name,loan\_number),foreign key(customer\_name) references customer(customer\_name),foreign key(loan\_number) references loan(loan\_number));

ii.Enter at least five tuples for each relation.

INSERT INTO customer VALUES ('aarya', 'rajajinagar', 'bangalore');

INSERT INTO account VALUES ('123123', 'malleshwaram', '30000');

INSERT INTO depositor VALUES ('aarya', '576124');

INSERT INTO loan VALUES ('87', 'malleshwaram', '70000000');

INSERT INTO borrower VALUES ('aarya', '91');

iii. Find all the customers who have at least two accounts at the Main branch.

SELECT D.customer\_name

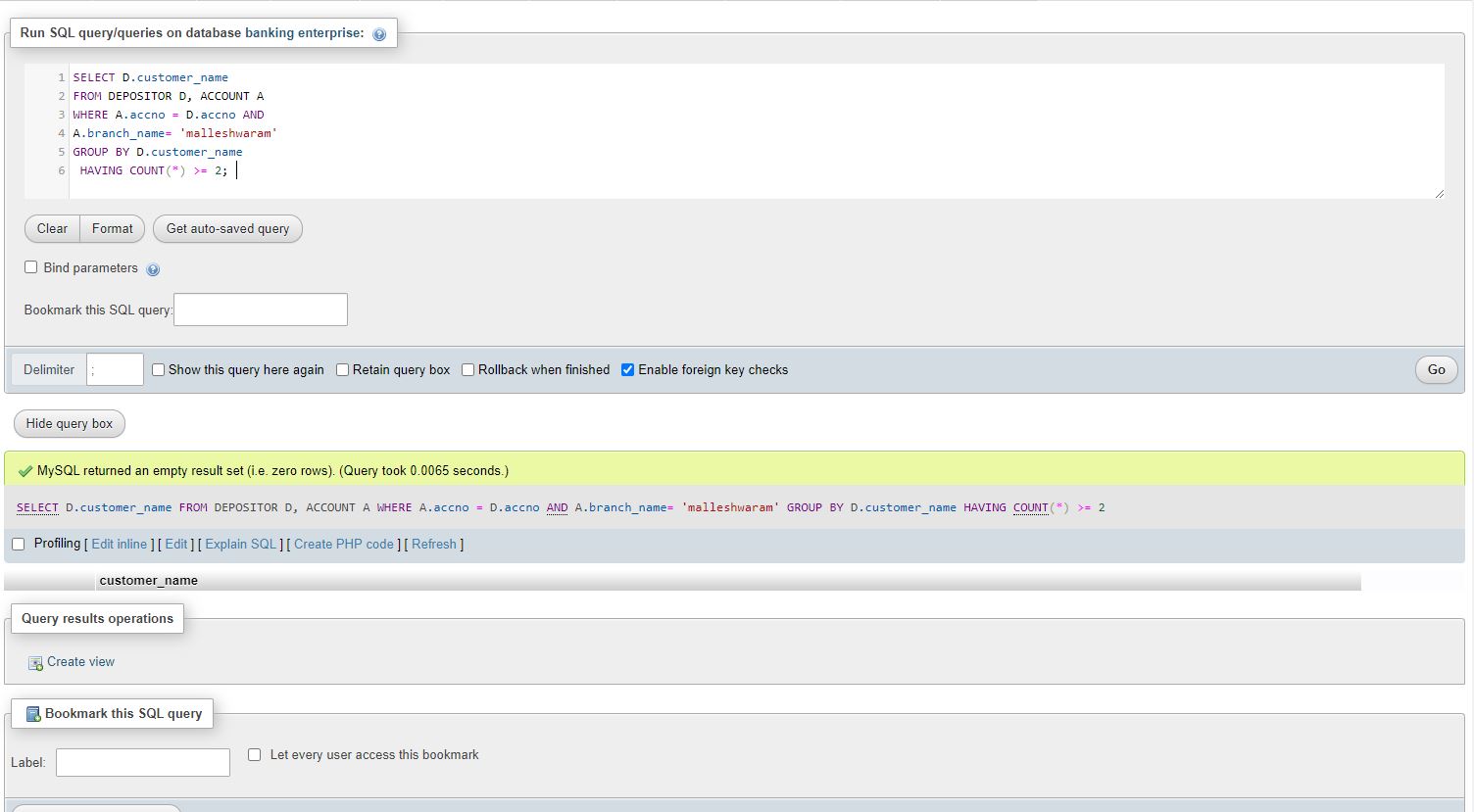
FROM DEPOSITOR D, ACCOUNT A

WHERE A.accno = D.accno AND

A.branch\_name= 'malleshwaram'

GROUP BY D.customer\_name

HAVING COUNT(\*) >= 2;



iv.Find all the customers who have an account at all the branches located in a specific city.

SELECT d.customer\_name

FROM account a,branch b,depositor d

WHERE b.branch\_name=a.branch\_name AND

a.accno=d.accno AND

b.branch\_city='bangalore'

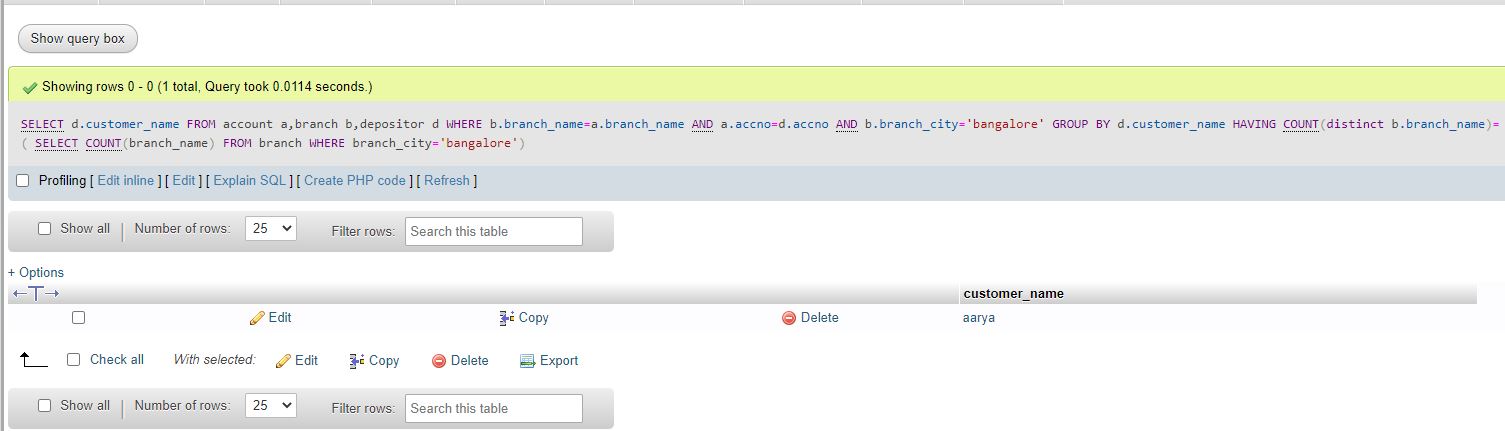
GROUP BY d.customer\_name

HAVING COUNT(distinct b.branch\_name)=(

SELECT COUNT(branch\_name)

FROM branch

WHERE branch\_city='bangalore');



v.Demonstrate how you delete all account tuples at every branch located in a specific city.

