Lab program 2

Pooja K

1BM19CS111

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 branch(branch\_name,branch\_city,assets)

VALUES

('ICICI\_Madiwala','Bangalore', 100000.00),

('ICICI\_BTMlayout','Bangalore', 200000.00),

('ICICI\_Jayanagar','Bangalore', 250000.00),

('ICICI\_Deoli','delhi', 400000.00),

('ICICI\_shergarh','delhi', 250000.00);

insert into account(accno,branch\_name,balance)

VALUES

(1,'ICICI\_Madiwala', 1000.50),

(2,'ICICI\_BTMlayout', 2345.0),

(3,'ICICI\_Jayanagar', 4009.25),

(4,'ICICI\_Deoli', 5670.00),

(5,'ICICI\_shergarh',10000.50);

INSERT INTO customer(customer\_name,customer\_street,customer\_city)

VALUES

('Anand','Bull temple road','Bangalore'),

('Charan','Banerghatta road','Bangalore'),

('Jagan','National college road','Bangalore'),

('Abdul','Akoli road','Delhi'),

('Vineeth','Shahjahan road','Delhi');

INSERT INTO depositor(customer\_name,accno)

VALUES

('Anand',1),

('Charan',2),

('Jagan',3),

('Abdul',4),

('Vineeth',5);

INSERT INTO loan(loan\_number,branch\_name,amount)

VALUES

(1,'ICICI\_BTMlayout',1500),

(2,'ICICI\_Deoli',4250),

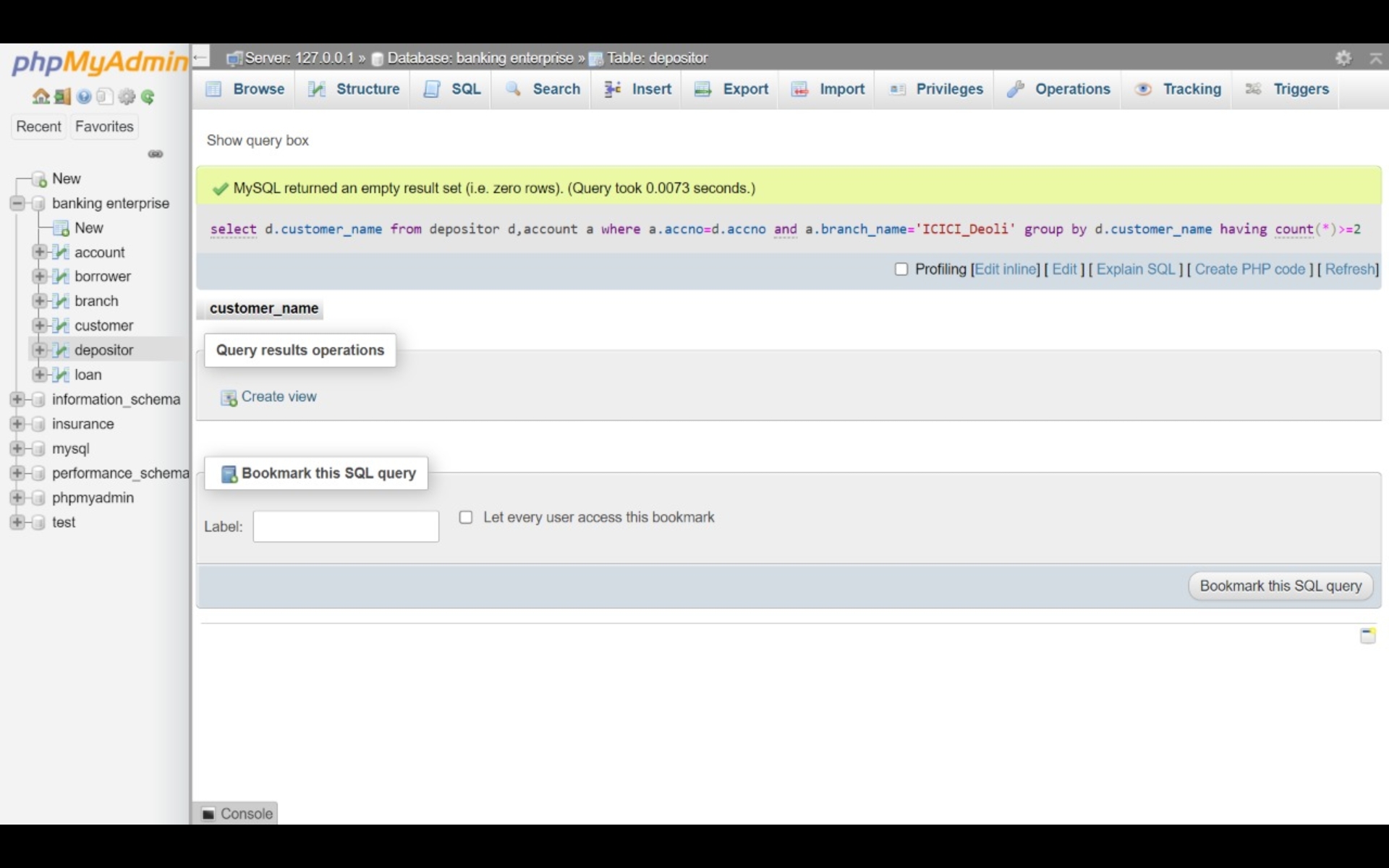
(3,'ICICI\_Jayanagar',5000),

(4,'ICICI\_Madiwala',2000),

(5,'ICICI\_shergarh',2500);

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='ICICI\_Deoli' group by d.customer\_name having count(\*)>=2;



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

delete from account where accno in (select a.accno from account a,branch b where a.branch\_name=b.branch\_name and b.branch\_city='Bangalore');