LAB2: BANKING ENTERPRISE DATABASE

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

foreign keys.

create database Lab2;

use Lab2;

create table Branch(branch\_name varchar(30),branch\_city varchar(30),assests real, primary key(branch\_name));

desc Branch;



create table BankCustomer(customer\_name varchar(30),customer\_street varchar(30),customer\_city varchar(30), primary key(customer\_name));

desc BankCustomer;



create table BankAccount(

accno int,

branch\_name varchar(20),

balance real,

primary key(accno),

foreign key(branch\_name) references Branch(branch\_name)

);

desc BankAccount;



create table Depositer(

customer\_name varchar(20),

accno int,

primary key(customer\_name,accno),

foreign key(customer\_name) references BankCustomer(customer\_name),

foreign key(accno) references BankAccount(accno)

);

desc Depositer;



create table Loan(

loan\_number int,

branch\_name varchar(20),

Amount real,

primary key(loan\_number),

foreign key(branch\_name) references Branch(branch\_name)

);

desc Loan;



ii. Enter at least five tuples for each relation.

insert into Branch values('SBI\_Chamrajpet','Bangalore',50000);

insert into Branch values('SBI\_ResidencyRoad','Bangalore',10000);

insert into Branch values('SBI\_ShivajiRoad','Bombay',20000);

insert into Branch values('SBI\_ParlimentRoad','Delhi',10000);

insert into Branch values('SBI\_Jantarmantar','Delhi',20000);

select \*from Branch;



insert into Loan values(2,'SBI\_ResidencyRoad',2000);

insert into Loan values(1,'SBI\_Chamrajpet',1000);

insert into Loan values(3,'SBI\_ShivajiRoad',3000);

insert into Loan values(4,'SBI\_ParlimentRoad',4000);

insert into Loan values(5,'SBI\_Jantarmantar',3000);

select \*from Loan;



insert into BankAccount values(1,'SBI\_Chamrajpet',2000);

insert into BankAccount values(2,'SBI\_ResidencyRoad',5000);

insert into BankAccount values(3,'SBI\_ShivajiRoad',6000);

insert into BankAccount values(4,'SBI\_ParlimentRoad',9000);

insert into BankAccount values(5,'SBI\_Jantarmantar',8000);

insert into BankAccount values(6, 'SBI\_ShivajiRoad', 4000);

insert into BankAccount values(8, 'SBI\_ResidencyRoad', 4000);

insert into BankAccount values(9, 'SBI\_ParlimentRoad', 3000);

insert into BankAccount values(10, 'SBI\_ResidencyRoad', 5000);

insert into BankAccount values(11, 'SBI\_Jantarmantar', 2000);

select \*from BankAccount;



insert into BankCustomer values ('Avinash', 'Bull\_Temple\_Road', 'Bangalore');

insert into BankCustomer values ('Dinesh', 'Bannergatta\_Road', 'Bangalore');

insert into BankCustomer values ('Mohan', 'National\_College\_Road', 'Bangalore');

insert into BankCustomer values ('Nikhil', 'Akbar\_Road', 'Delhi');

insert into BankCustomer values ('Ravi', 'Prithviraj\_Road', 'Delhi');

select \*from BankCustomer;



insert into Depositer values('Avinash', 1);

insert into Depositer values('Dinesh', 2);

insert into Depositer values('Nikhil', 4);

insert into Depositer values('Ravi', 5);

insert into Depositer values('Avinash', 8);

insert into Depositer values('Nikhil', 9);

insert into Depositer values('Dinesh', 10);

insert into Depositer values('Nikhil', 11);

select \*from Depositer;



iii. Find all the customers who have at least two accounts at the *Main* branch (ex. SBI\_ResidencyRoad).

select c.customer\_name

from BankCustomer c

where exists(

select d.customer\_name

from Depositer d, BankAccount ba

where

d.accno=ba.accno and

c.customer\_name=d.customer\_name and

ba.branch\_name='SBI\_ResidencyRoad'

group by d.customer\_name

having count(d.customer\_name)>=2

);



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

specific city (Ex. Delhi).

select distinct d.customer\_name from Depositer d where exists( select \* from BankAccount ba

where ba.accno=d.accno and exists (select \* from Branch b where b.branch\_name = ba.branch\_name and b.branch\_city='Delhi'));



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

a specific city (Ex. Bombay).

delete from BankAccount where branch\_name in (select branch\_name from branch where branch\_city = 'Bombay');

select \*from BankAccount;

