create database Bank\_Database;

use Bank\_Database;

create table Branch

(

branch\_name varchar(20) primary key,

branch\_city varchar(20) NOT NULL,

assets float(4)

);

desc Branch;

create table BankAccount

(

accno int,

branch\_name varchar(20) NOT NULL ,

balance float(4),

primary key(accno),

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

);

alter table BankAccount

drop primary key;

alter table BankAccount

add primary key (accno,branch\_name);

desc BankAccount;

create table BankCustomer

(

customer\_name varchar(30) primary key ,

customer\_street varchar(20) Not null,

customer\_city varchar(20) not null

);

desc BankCustomer

create table Depositer

(

customer\_name varchar(30) ,

accno int,

primary key(customer\_name , accno),

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

foreign key (accno) references BankAccount(accno)

);

drop table Depositer;

create table Loan

(

loan\_number int,

branch\_name varchar(20),

amount float(4) ,

primary key(loan\_number , branch\_name),

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

);

drop table Loan;

insert into Branch

values('Kotak\_Btm' , 'Bangalore' , 50000),('Kotak\_Chamarajpet', 'Bangalore' , 10000),('Kotak\_ShivajiRoad' , 'Bombay' , 20000),

('Kotak\_ParlimentRoad' , 'Delhi' , 10000) , ('Kotak\_Jantarmantar' , 'Delhi' , 20000);

select \* from Branch;

delete from Branch

where assets=50000;

insert into BankAccount

values (1,'Kotak\_Btm',2000),(2,'Kotak\_Btm',3000),(3,'Kotak\_Chamarajpet',4000),(4,'Kotak\_Chamarajpet',5000),(

5,'Kotak\_Chamarajpet',6000),(6,'Kotak\_ShivajiRoad',7000),(7,'Kotak\_ShivajiRoad',8000),(8,'Kotak\_ShivajiRoad',8000),

(9,'Kotak\_ParlimentRoad',9000),(10,'Kotak\_ParlimentRoad',10000), (11,'Kotak\_Jantarmantar',11000);

select \* from BankAccount;

insert into BankCustomer

values ('Likhith', 'Basavanagudi' , 'Bangalore'),('Dinesh', 'Bannerghatta' , 'Bangalore') ,('Ramesh', 'Btm' , 'Bangalore'),

('Nikhil', 'Akbar\_road' , 'Delhi') , ('Ravi', 'Jayanagar' , 'Delhi');

insert into Depositer

values ('Likhith',1), ('Dinesh',2),('Likhith',3),('Dinesh',4),('Ramesh',5),('Nikhil',6),('Ramesh',7),('Nikhil',8),('Ravi',9),

('Likhith',10),('Ravi',11);

delete from Depositer

where accno = 11;

insert into Loan

values (1,'Kotak\_Btm',1000) , (2,'Kotak\_Chamarajpet',2000) , (3,'Kotak\_ShivajiRoad',3000) , (4,'Kotak\_ParlimentRoad',4000) ,

(5,'Kotak\_Jantarmantar',5000);

select branch\_name , assets as 'assets in lakhs'

from Branch;

select customer\_name , count(d.accno)

from Depositer d , BankAccount ba

where ( d.accno = ba.accno and branch\_name ='Kotak\_Chamarajpet' )

group by customer\_name

having (count(d.accno)>1);

create view Loan\_in\_branches as

select branch\_name , sum(amount)

from Loan

group by branch\_name ;

select \* from Loan\_in\_branches;

update BankAccount b

set b.balance = (b.balance +1000)

where accno in ( select d.accno from Depositer d , BankCustomer b where d.customer\_name = b.customer\_name and b.customer\_city ='Banagalore' );

select \* from BankAccount;

create table Borrower

(

customer\_name varchar(30),

loan\_number int,

primary key (customer\_name , loan\_number) ,

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

foreign key( loan\_number) references Loan(loan\_number)

);

insert into Borrower

values('Likhith',1) ,('Ramesh',3),('Nikhil',4),('Ravi',5);

insert into Borrower

values('Dinesh',2);

delete from Borrower

where loan\_number='2';

select customer\_name , count(distinct ba.branch\_name)

from Branch b , BankAccount ba , Depositer d

where d.accno=ba.accno and ba.branch\_name = b.branch\_name and branch\_city='Bangalore'

group by customer\_name

having count(distinct b.branch\_name)=(select count(distinct ba.branch\_name)

from Branch b inner join BankAccount ba on b.branch\_name and ba.branch\_name

where branch\_city='Bangalore');

select customer\_name

from Borrower b

where b.customer\_name not in( select customer\_name from Depositer);

select distinct customer\_name

from Depositer d

where d.customer\_name in (select customer\_name

from Borrower b , Loan l ,Branch br

where b.loan\_number = l.loan\_number and br.branch\_name = l.branch\_name and br.branch\_city='Bangalore');

-- select branch\_name

-- from Branch

-- where assets>(select sum(assets) from Branch b where b.branch\_city='Bangalore');

select branch\_name

from Branch

where assets>(select max(assets) from Branch b where b.branch\_city='Bangalore');

update BankAccount set balance=balance+0.05\*balance;

select \* from BankAccount;

delete from Depositer

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

select \* from BankAccount;

delete from BankAccount

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

select \* from BankAccount;

delete from Depositer

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

select \* from BankAccount;

delete from BankAccount

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

delete from Loan

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

delete from Borrower

where loan\_number in(select loan\_number from Loan);

delete from Branch

where branch\_city='Bangalore';

select \* from Branch;