create database pbank;

use pbank;

create table branch(Branch\_name varchar(20) primary key,

Branch\_city varchar(20),

assests int);

describe branch;

create table account(Acc\_no int primary key, balance int,Branch\_name varchar(20), foreign key(Branch\_name) references branch(Branch\_name));

describe account;

create table customer(cust\_name varchar(20) primary key,

cust\_street varchar(20),

cust\_city varchar(20));

describe customer;

create table depositor(cust\_name varchar(20),Acc\_no int , foreign key(cust\_name) references customer(cust\_name),

foreign key(Acc\_no) references account(Acc\_no));

describe depositor;

create table loan( Loan\_no int primary key ,

Branch\_name varchar(20),

amount int ,

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

describe loan;

create table borrower(cust\_name varchar(20),Loan\_no int,

foreign key(Loan\_no) references loan(Loan\_no),

foreign key(cust\_name) references customer(cust\_name));

describe borrower;

insert into branch values('akurdi','pune',100000);

insert into branch values('hadpsar','pune',120000);

insert into branch values('Bandra','mumbai ',130000);

insert into branch values('deolali','nashik ',130000);

insert into branch values('fatehpur','solapur ',230000);

insert into branch values('jamdarwadi','solapur ',150000);

insert into branch values('wardha','nagpur',156000);

insert into branch values('ravet','pune',144000);

insert into branch values('anderi','mumbai',144000);

INSERT INTO account (Acc\_no, balance, Branch\_name) VALUES (101, 13000, 'anderi');

INSERT INTO account (Acc\_no, balance, Branch\_name) VALUES (102, 12000, 'anderi');

INSERT INTO account (Acc\_no, balance, Branch\_name) VALUES (103, 16000, 'hadpsar');

INSERT INTO account (Acc\_no, balance, Branch\_name) VALUES (104, 60000, 'bandra');

INSERT INTO account (Acc\_no, balance, Branch\_name) VALUES (105, 20000, 'anderi');

INSERT INTO account (Acc\_no, balance, Branch\_name) VALUES (106, 40000, 'ravet');

INSERT INTO account (Acc\_no, balance, Branch\_name) VALUES (107, 23000, 'ravet');

INSERT INTO account (Acc\_no, balance, Branch\_name) VALUES (108, 30000, 'fatehpur');

INSERT INTO account (Acc\_no, balance, Branch\_name) VALUES (109, 5000, 'wardha');

INSERT INTO customer (cust\_name, cust\_street, cust\_city) VALUES ('akaay', 'Hadpsar', 'pune');

INSERT INTO customer (cust\_name, cust\_street, cust\_city) VALUES ('apurva', 'Agam vasti', 'solapur');

INSERT INTO customer (cust\_name, cust\_street, cust\_city) VALUES ('ashu', 'bhiwapur', 'nagpur');

INSERT INTO customer (cust\_name, cust\_street, cust\_city) VALUES ('pranav', 'Akkalkot', 'solapur');

INSERT INTO customer (cust\_name, cust\_street, cust\_city) VALUES ('riya', 'hill road', 'mumbai');

INSERT INTO customer (cust\_name, cust\_street, cust\_city) VALUES ('sam', 'laxmi', 'pune');

INSERT INTO customer (cust\_name, cust\_street, cust\_city) VALUES ('sanjay', 'Ramtek', 'nagpur');

INSERT INTO customer (cust\_name, cust\_street, cust\_city) VALUES ('Siya', 'Linking road', 'mumbai');

INSERT INTO Loan (Loan\_no, Branch\_name, amount) VALUES (201, 'anderi', 100000);

INSERT INTO Loan (Loan\_no, Branch\_name, amount) VALUES (202, 'hadpsar', 200000);

INSERT INTO Loan (Loan\_no, Branch\_name, amount) VALUES (203, 'Bandra', 130000);

INSERT INTO Loan (Loan\_no, Branch\_name, amount) VALUES (204, 'wardha', 30000);

INSERT INTO Loan (Loan\_no, Branch\_name, amount) VALUES (205, 'deolali', 30000);

INSERT INTO Loan (Loan\_no, Branch\_name, amount) VALUES (206, 'hadpsar', 320000);

INSERT INTO Loan (Loan\_no, Branch\_name, amount) VALUES (207, 'jamdarwadi', 40000);

INSERT INTO Loan (Loan\_no, Branch\_name, amount) VALUES (208, 'ravet', 70000);

INSERT INTO Loan (Loan\_no, Branch\_name, amount) VALUES (209, 'Bandra', 300000);

INSERT INTO borrower (cust\_name, Loan\_no) VALUES ('riya', 201);

INSERT INTO borrower (cust\_name, Loan\_no) VALUES ('akaay', 202);

INSERT INTO borrower (cust\_name, Loan\_no) VALUES ('siya', 203);

INSERT INTO borrower (cust\_name, Loan\_no) VALUES ('sanjay', 204);

INSERT INTO borrower (cust\_name, Loan\_no) VALUES ('pranav', 205);

INSERT INTO borrower (cust\_name, Loan\_no) VALUES ('pranav', 206);

INSERT INTO borrower (cust\_name, Loan\_no) VALUES ('ashu', 207);

INSERT INTO borrower (cust\_name, Loan\_no) VALUES ('sam', 208);

INSERT INTO borrower (cust\_name, Loan\_no) VALUES ('apurva', 209);

INSERT INTO depositor (cust\_name, Acc\_no) VALUES ('pranav', 101);

INSERT INTO depositor (cust\_name, Acc\_no) VALUES ('riya', 102);

INSERT INTO depositor (cust\_name, Acc\_no) VALUES ('akaay', 103);

INSERT INTO depositor (cust\_name, Acc\_no) VALUES ('siya', 104);

INSERT INTO depositor (cust\_name, Acc\_no) VALUES ('sam', 105);

INSERT INTO depositor (cust\_name, Acc\_no) VALUES ('sam', 106);

INSERT INTO depositor (cust\_name, Acc\_no) VALUES ('akaay', 107);

select Branch\_name from loan;

select Loan\_no

from loan

where Branch\_name = 'hadpsar' and amount >10000;

Select borrower.cust\_name,

loan.Loan\_no,loan.amount

FROM borrower

Inner join loan on borrower.Loan\_no = loan.Loan\_no;

Select cust\_name from borrower

Inner join loan on borrower.Loan\_no = loan.Loan\_no and loan.Branch\_name= 'hadpsar'

order by cust\_name Asc;

SELECT DISTINCT cust\_name

FROM Customer

WHERE cust\_name IN (SELECT cust\_name FROM Depositor) OR cust\_name IN (SELECT cust\_name FROM Borrower);

SELECT distinct cust\_name FROM Depositor

WHERE cust\_name IN (SELECT cust\_name FROM Borrower);

SELECT cust\_name FROM Depositor

WHERE cust\_name NOT IN (SELECT cust\_name FROM Borrower);

SELECT branch\_name, AVG(balance) AS avg\_balance

FROM Account

GROUP BY branch\_name;

SELECT branch\_name, COUNT(DISTINCT Depositor.cust\_name) AS num\_depositors

FROM Account

JOIN Depositor ON Account.acc\_no = Depositor.acc\_no

GROUP BY branch\_name ;

SELECT cust\_name, cust\_city

FROM Customer

WHERE cust\_name LIKE 'P%';

SELECT DISTINCT branch\_city FROM Branch;

SELECT branch\_name

FROM Account

GROUP BY branch\_name

HAVING AVG(balance) > 12000;

SELECT COUNT(\*) AS num\_tuples

FROM Customer;

SELECT SUM(amount) AS total\_loan\_amount

FROM Loan;

DELETE FROM Borrower

WHERE loan\_no IN (

SELECT loan\_no FROM Loan WHERE amount BETWEEN 130000 AND 150000);

DELETE FROM Loan

WHERE amount BETWEEN 130000 and 150000;

select \* from borrower;

select \* from loan;

DELETE FROM Borrower

WHERE loan\_no IN (

SELECT loan\_no FROM Loan WHERE Branch\_name IN (SELECT Branch\_name FROM Branch WHERE Branch\_city = 'pune'));

DELETE FROM Loan

WHERE Branch\_name IN (SELECT Branch\_name FROM Branch WHERE Branch\_city = 'pune');

DELETE FROM Depositor

WHERE acc\_no IN (

SELECT acc\_no FROM Account WHERE Branch\_name IN (SELECT Branch\_name FROM Branch WHERE Branch\_city = 'pune'));

DELETE FROM Account

WHERE Branch\_name IN (SELECT Branch\_name FROM Branch WHERE Branch\_city = 'pune');

DELETE FROM Branch

WHERE Branch\_city = 'pune';

select\* from branch;