17/10/2025 BANK DATABASE 1BM24CS286

1)

create database Bank;  
use Bank;  
create table Branch(branch\_name varchar(20),branch\_city varchar(20),assets int,  
primary key(branch\_name));  
  
create table BankAccount(acc\_no int,branch\_name varchar(20),balance int,  
primary key(acc\_no,branch\_name),  
foreign key(branch\_name) references Branch(branch\_name));  
  
create table BankCustomer(customer\_name varchar(20),customer\_street varchar(30),customer\_city varchar(20),  
primary key(customer\_name));  
  
create table Depositor(customer\_name varchar(20),acc\_no int,  
primary key(customer\_name,acc\_no),  
foreign key(customer\_name) references BankCustomer(customer\_name),  
foreign key(acc\_no) references BankAccount(acc\_no));  
  
create table Loan(loan\_number int,branch\_name varchar(20),amount int,  
primary key(branch\_name),  
foreign key(branch\_name) references Branch(branch\_name));

2)  
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\_ParliamentRoad','Delhi',10000);  
insert into Branch values('SBI\_Jantarmantar','Delhi',20000);  
  
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\_ParliamentRoad',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\_ParliamentRoad',3000);  
insert into BankAccount values(10,'SBI\_ResidencyRoad',5000);  
insert into BankAccount values(11,'SBI\_Jantarmantar',2000);  
  
insert into BankCustomer values('Avinash','Bull\_temple\_Road','Bangalore');  
insert into BankCustomer values('Dinesh','Bannergatta\_Road','Bangalore');  
insert into BankCustomer values('Mohan','NationalCollege\_Road','Bangalore');  
insert into BankCustomer values('Nikhil','Akbar\_Road','Delhi');  
insert into BankCustomer values('Ravi','Prithviraj\_Road','Delhi');  
  
insert into Depositor values('Avinash',1);  
insert into Depositor values('Dinesh',2);  
insert into Depositor values('Nikhil',4);  
insert into Depositor values('ravi',5);  
insert into Depositor values('Avinash',8);  
insert into Depositor values('Nikhil',9);  
insert into Depositor values('Dinesh',10);  
insert into Depositor values('Nikhil',11);  
  
insert into Loan values(1,'SBI\_Chamrajpet',1000);  
insert into Loan values(2,'SBI\_ResidencyRoad',2000);  
insert into Loan values(3,'SBI\_ShivajiRoad',3000);  
insert into Loan values(4,'SBI\_ParliamentRoad',4000);  
insert into Loan values(5,'SBI\_Jantarmantar',5000);

QUERIES

3)

select branch\_name as BRANCH\_NAME,(Assets\_in\_Lakhs)/100000 as Assets\_in\_lakhs\_of\_rupees

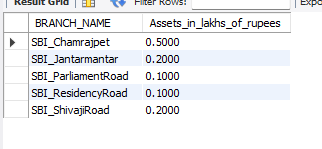
from Branch

group by branch\_name;

alter table Branch

change column assets Assets\_in\_Lakhs int;

select \* from Branch;



4)

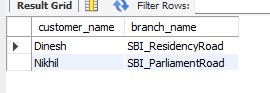
select d.customer\_name,ba.branch\_name

from bankAccount ba, Depositor d

where d.acc\_no=ba.acc\_no

group by d.customer\_name,ba.branch\_name

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



5)

create view Branch\_loanSummary as

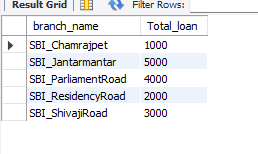
select b.branch\_name,sum(l.amount) as Total\_loan

from Loan l,Branch b

where l.branch\_name=b.branch\_name

group by branch\_name;

select \* from Branch\_loanSummary;



ADDITIONAL QUERIES

1)

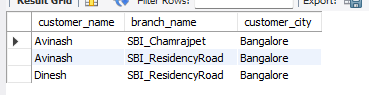
select d.customer\_name,ba.branch\_name,bc.customer\_city

from BankAccount ba,Depositor d,BankCustomer bc

where bc.customer\_name=d.customer\_name and ba.acc\_no=d.acc\_no

group by d.customer\_name,ba.branch\_name,bc.customer\_city

having bc.customer\_city='Bangalore';



2)

SELECT DISTINCT c.customer\_name

FROM BankCustomer c

WHERE c.customer\_name NOT IN (

SELECT d.customer\_name FROM Depositor d)

AND c.customer\_city IN (

SELECT b.branch\_city

FROM Branch b

JOIN Loan l ON b.branch\_name = l.branch\_name);

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AI-generated content may be incorrect.

3)

SELECT DISTINCT c.customer\_name

FROM BankCustomer c, Depositor d, BankAccount a, Branch b1, Loan l, Branch b2

WHERE c.customer\_name = d.customer\_name

AND d.acc\_no = a.acc\_no

AND a.branch\_name = b1.branch\_name

AND l.branch\_name = b2.branch\_name

AND b1.branch\_city = 'Bangalore'

AND b2.branch\_city = 'Bangalore';

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AI-generated content may be incorrect.

4)

SELECT b1.branch\_name

FROM Branch b1

WHERE b1.assets\_in\_lakhs > ALL (

SELECT b2.assets\_in\_lakhs

FROM Branch b2

WHERE b2.branch\_city = 'Bangalore');

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5)

DELETE FROM BankAccount

WHERE branch\_name IN (

SELECT b.branch\_name

FROM Branch b

WHERE b.branch\_city = 'Bombay');

select \* from bankaccount;

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AI-generated content may be incorrect.

6)

UPDATE BankAccount

SET balance = balance \* 1.05

WHERE acc\_no > 0;

select \* from BankAccount;

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