DBMS LAB-2

→ Query 1

```
create database Bank;
use Bank;

create table Branch (
branch_name varchar (30),
branch_city varchar (30),
assets real,
primary key (branch_name);

create table BankCustomer (
customer_name varchar (30),
customer_street varchar (30),
customer_city varchar (30),
primary key (customer_name));

create table BankAccount (
accno int,
branch_name varchar (30),
balance real,
primary key (accno),
foreign key (branch_name) references Branch (branch_name));

create table Depositor (
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));
```

```sql
create table Loans (
loan_number int,
branch_name varchar (30),
Amount real,
primary key (loan_number),
foreign key (branch_name) references Branch (branch_name));
```

→ Query 2

```sql
use Bank;


insert into Branch values ('SBI_Chamrajpet', 'Bangalore', 50000);
insert into Branch values ('SBI_ResidencyRoad', 'Bangalore', 10000);
insert into Branch values ('SBI_ShivajiRoad', 'Bangalore', 20000);
insert into Branch values ('SBI_ParliamentRoad', '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_ParliamentRoad', 4000);
insert into Loan values (5, 'SBI_Jantarmantar', 5000);
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_ParliamentRoad', 9000);
insert into BankAccount values (5, 'SBI_Jantarmantar', 8000);
insert into BankAccount values (6, 'SBI_ShivajiRoad', 4000);
```

```sql
insert into BankAccount values (8, 'SBI_ResidencyRoad', 4000);
insert into BankAccount values (9, 'SBI_ParliamentRoad', 3000);
insert into BankAccount values (10, 10, 'SBI_ResidencyRoad', 5000);
insert into BankAccount values (110, 'SBI_Jantaumantar', 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;
```

→ Query 3

```sql
use Bank;


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 Residency Road'
groupby d.customer_name
having count (d.customer_name) >= 2);
```

→ **Query 4**

```
use Bank;


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'));
```

→ **Query 5**

```
use Bank;
delete from BankAccount
where branch_name in (
select branch_name
from branch
where branch_city = 'Bombay');
select * from Bank account;
```