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LAB-2 : BANKING ENTERPRISE DATABASE

Queries

(i) Create the tables by properly specifying the primary keys and foreign keys.
(ii) Enter atleast five tuples for each relation.
(iii) Find all the customers who have atleast two accounts at the Main branch.
(iv) Find all the customers who have an account at all the branches located in a specific city.
(v) Demonstrate how you delete all account tuples at every branch located in a specific city.

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));

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

Query 2 –

```
use Bank;

insert into Branch values('SBI_Chamarajpet','Bangalore',50000);
insert into Branch values('SBI_RuidengRoad','Bangalore',10000);
insert into Branch values('SBI_ShivajiRoad','Bangalore',20000);
```

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```
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_Ruidency Road', 2000);
insert into Loan values( 1, 'SBI_Chamrajpat', 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_chamrajpat', 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_RuedicneyRoad', 4000);
insert into BankAccount values( 9, 'SBI_ParliamentRoad', 3000);
insert into BankAccount values( 10, 'SBI_RuideneyRoad', 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', 'BannerghattaRoad', 'Bangalore');
insert into BankCustomer values('Mohan', 'NationalCollegeRoad', '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', 4);
select * from Depositor;
```

Query 3 -

```
use Bank;
select c.customer_name
from BankCustomer c
where exists (
select d.customer_name
from Depositor d, BankAccount ba
where d.accno = ba.accno
and c.customer_name = d.customer_name
and ba.branch_name = 'SBI - Residency Road'
group by d.customer_name
having count (d.customer_name) >= 2);
```

Query 4 -

```
use Bank;
select distinct d.customer_name.
from Depositor 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 c
select branch_name
from Branch
where branch_city = 'Bombay');
select * from BankAccount;
```