

LAB-2: BANKING ENTERPRISE DATABASE

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```
create database bank;
use bank;
create table branch(branchname varchar(30),branchcity varchar(30),assets real,primary
key(branchname));
desc branch;

create table BankAccount(Accno int,branchname varchar(30),balance real,primary key(Accno),
foreign key(branchname) references branch(branchname));
desc BankAccount;

create table BankCustomer(CustomerName varchar(30),CustomerStreet
varchar(30),Customercity varchar(30),
primary key (CustomerName));
desc BankCustomer;

create table Depositer(CustomerName varchar(30),Accno integer,primary
key(CustomerName,Accno),
foreign key(CustomerName) references BankCustomer(CustomerName),
foreign key(Accno) references BankAccount(Accno));
desc Depositer;

create table Loan(loannumber int,branchname varchar(30),Amount real,primary
key(loannumber),
foreign key(BranchName) references branch(branchname));
desc Loan;

insert into branch values('SBI_Chamrajpet','Bengaluru',50000);
insert into branch values('SBI_ResidencyRoad','Bengaluru',10000);
insert into branch values('SBI_ShivajiRoad','Bombay',20000);
insert into branch values('SBI_ParlimentRoad','Delhi',10000);
insert into branch values('SBI_Jantarantar','Delhi',20000);
select *from branch;

insert into Loan values(1,'SBI_Chamrajpet',10000);
insert into Loan values(2,'SBI_ResidencyRoad',20000);
insert into Loan values(3,'SBI_ShivajiRoad',30000);
insert into Loan values(4,'SBI_ParlimentRoad',40000);
```

```
insert into Loan values(5,'SBI_Jantarmantar',30000);
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_ParlimentRoad',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_ParlimentRoad',3000);
insert into BankAccount values(10,'SBI_ResidencyRoad',5000);
insert into BankAccount values(11,'SBI_Jantarmantar',2000);
commit;
select * from BankAccount;
```

```
insert into BankCustomer values('Avinash','Bull_temple_Road','Bengaluru');
insert into BankCustomer values('Dinesh','Bannerhatta_Road','Bengaluru');
insert into BankCustomer values('Mohan','NationalCollege_Road','Bengaluru');
insert into BankCustomer values('Nikil','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('Nikil',4);
insert into Depositer values('Ravi',5);
insert into Depositer values('Avinash',8);
insert into Depositer values('Nikil',9);
insert into Depositer values('Dinesh',10);
insert into Depositer values('Nikil',11);
commit;
select * from Depositer;
```

```
SELECT c.CustomerName FROM BankCustomer c WHERE EXISTS(SELECT
d.CustomerName,COUNT(d.CustomerName) FROM Depositer d, BankAccount ba WHERE
d.accno=ba.accno AND c.CustomerName=d.CustomerName AND
ba.branchname='SBI_ResidencyRoad' GROUP BY d.CustomerName HAVING
COUNT(d.CustomerName)>=2);
```

/*Query 4*/

```
select distinct d.CustomerName from Depositer d where exists( select * from BankAccount ba
where ba.Accno=d.Accno
```

and exists (select * from branch b where b.branchname = ba.branchname and b.branchcity='Delhi'));

/*Query 5*/

```
delete from BankAccount
where branchname IN(
select branchname
from Branch
where branchcity='Bombay'
);
Select * from BankAccount;
```

The screenshot shows a database query editor with the following SQL code:

```
28 • insert into branch values('SBI_Jantarmanatar','Delhi',20000);
29 • select *from branch;
30
31 • insert into Loan values(1,'SBI_Chamrajpet',10000);
32 • insert into Loan values(2,'SBI_ResidencyRoad',20000);
33 • insert into Loan values(3,'SBI_ShivajiRoad',30000);
34 • insert into Loan values(4,'SBI_ParliamentRoad',40000);
35 • insert into Loan values(5,'SBI_Jantarmanatar',30000);
36 • select *from Loan;
37
38 • insert into BankAccount values(1,'SBI_Chamrajpet',2000);
39 • insert into BankAccount values(2,'SBI_ResidencyRoad',5000);
```

The result grid below the code shows the data for the 'branch' table:

branchname	branchcity	assets
SBI_Chamrajpet	Bengaluru	50000
SBI_Jantarmanatar	Delhi	20000
SBI_ParliamentRoad	Delhi	10000
SBI_ResidencyRoad	Bengaluru	10000
SBI_ShivajiRoad	Bombay	20000

The screenshot shows a database query editor with the following SQL code:

```
30
31 • insert into Loan values(1,'SBI_Chamrajpet',10000);
32 • insert into Loan values(2,'SBI_ResidencyRoad',20000);
33 • insert into Loan values(3,'SBI_ShivajiRoad',30000);
34 • insert into Loan values(4,'SBI_ParliamentRoad',40000);
35 • insert into Loan values(5,'SBI_Jantarmanatar',30000);
36 • select *from Loan;
37
```

The result grid below the code shows the data for the 'Loan' table:

loannumber	branchname	Amount
1	SBI_Chamrajpet	10000
2	SBI_ResidencyRoad	20000
3	SBI_ShivajiRoad	30000
4	SBI_ParliamentRoad	40000
5	SBI_Jantarmanatar	30000

The screenshot shows a database query editor with the following SQL code:

```
49 • select * from BankAccount;
50
51 • insert into BankCustomer values('Avinash','Buli_temple_Road','Bengaluru');
52 • insert into BankCustomer values('Dinash','Bannanatta_Road','Bengaluru');
```

The result grid below the code shows the data for the 'BankAccount' table:

Accno	branchname	balance
1	SBI_Chamrajpet	2000
2	SBI_ResidencyRoad	5000
4	SBI_ParliamentRoad	9000
5	SBI_Jantarmanatar	8000
8	SBI_ResidencyRoad	-4000
9	SBI_ParliamentRoad	3000
10	SBI_ResidencyRoad	5000
11	SBI_Jantarmanatar	2000

```

51 • insert into BankCustomer values('Avinash','Bull_temple_Road','Bengaluru');
52 • insert into BankCustomer values('Dinesh','Bannergetta_Road','Bengaluru');
53 • insert into BankCustomer values('Mohan','NationalCollege_Road','Bengaluru');
54 • insert into BankCustomer values('Nikil','Akbar_Road','Delhi');
55 • insert into BankCustomer values('Ravi','Prithviraj_Road','Delhi');
56 • select * from BankCustomer;
57
58 • insert into Depositer values('Avinash',1);

```

Result Grid

CustomerName	CustomerStreet	CustomerCity
Avinash	Bull_temple_Road	Bengaluru
Dinesh	Bannergetta_Road	Bengaluru
Mohan	NationalCollege_Road	Bengaluru
Nikil	Bull_temple_Road	Bengaluru
Ravi	Bull_temple_Road	Bengaluru

```

66 • COMMIT;
67 • select * from Depositer;
68

```

Result Grid

CustomerName	Accno
Avinash	1
Dinesh	2
Nikil	4
Ravi	5
Avinash	8
Nikil	9
Dinesh	10
Nikil	11

Depositer42 x

```

69 • SELECT c.CustomerName FROM BankCustomer c WHERE EXISTS(SELECT
70 d.CustomerName,COUNT(d.CustomerName) FROM Depositer d, BankAccount ba WHERE
71 d.accno=ba.accno AND c.CustomerName=d.CustomerName AND ba.branchname='SBI_ResidencyRoad' GROUP BY d.CustomerName HAVING COUNT(d.CustomerName)>=2);
72
73 /*Query 4
74 select distinct d.CustomerName from Depositer d where exists( select * from BankAccount ba where ba.Accno=d.Accno

```

Result Grid

CustomerName
Dinesh

```

73 /*Query 4*/
74
75 • select distinct d.CustomerName from Depositer d where exists( select * from BankAccount ba where ba.Accno=d.Accno
76 and exists (select * from branch b where b.branchname = ba.branchname and b.branchcity='Delhi')));
77
78 /*select d.CustomerName from depositer d,branch b, bankaccount a
79 where b.branchname=a.branchname
80 AND a.accno=d.accno
81 and branchcity='Delhi'
82 group by d.CustomerName

```

Result Grid

CustomerName
Ravi
Nikil

```
88      /*Query 5*/
89      delete from BankAccount
90      where branchname IN(
91      select branchname
92      from Branch
93      where branchcity='Bombay'
94      );
95      select * from BankAccount; /* 3rd row deleted*/
96
97      SELECT d.CustomerName
```

Result Grid

	Accno	branchname	balance
1	SBI_Chamrajpet		2000
2	SBI_ResidencyRoad		5000
4	SBI_ParliamentRoad		9000
5	SBI_Jantamantar		8000
8	SBI_ResidencyRoad		4000
9	SBI_ParliamentRoad		3000
10	SBI_ResidencyRoad		5000
11	SBI_Jantamantar		2000

Form Editor