

SUSHMITHA Y V

1BM19CS165

LAB-2 : BANKING ENTERPRISE DATABASE

BANKING ENTERPRISE DATABASE

```
create database bank;
```

```
use bank;
```

```
create table branch (  
    branch_name varchar(25),  
    branch_city varchar(15),  
    assets int,  
    primary key (branch_name)  
);
```

```
create table bank_account (  
    accno int,  
    branch_name varchar(25),  
    balance int,  
    primary key (accno),  
    foreign key (branch_name) references branch(branch_name)  
);
```

```
create table bank_customer (  
    customer_name varchar(10),  
    customer_street varchar(25),  
    customer_city varchar(15),  
    primary key (customer_name)  
);
```

```
create table depositer (  
    customer_name varchar(10),  
    accno int,  
    primary key(customer_name, accno),  
    foreign key (customer_name) references bank_customer(customer_name),  
    foreign key (accno) references bank_account(accno)  
);
```

```
create table loan (  
    loan_number int,  
    branch_name varchar(25),  
    amount int,  
    primary key (loan_number),
```

```
foreign key (branch_name) references branch(branch_name)
);
```

```
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_Jantarmanatar', 'Delhi', 20000);
commit;
select * from branch;
```



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

```
insert into bank_account values(1, 'SBI_Chamrajpet', 2000);
insert into bank_account values(2, 'SBI_ResidencyRoad', 5000);
insert into bank_account values(3, 'SBI_ShivajiRoad', 6000);
insert into bank_account values(4, 'SBI_ParliamentRoad', 9000);
insert into bank_account values(5, 'SBI_Jantarmanatar', 8000);
insert into bank_account values(6, 'SBI_ShivajiRoad', 4000);
insert into bank_account values(8, 'SBI_ResidencyRoad', 4000);
insert into bank_account values(9, 'SBI_ParliamentRoad', 3000);
insert into bank_account values(10, 'SBI_ResidencyRoad', 5000);
insert into bank_account values(11, 'SBI_Jantarmanatar', 2000);
commit;
select * from bank_account;
```

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

```

insert into bank_customer values ('Avinash', 'Bull_Temple_Road', 'Bangalore');
insert into bank_customer values ('Dinesh', 'Bannerghatta_Road', 'Bangalore');
insert into bank_customer values ('Mohan', 'National_College_Road', 'Bangalore');
insert into bank_customer values ('Nikhil', 'Akbar_Road', 'Delhi');
insert into bank_customer values ('Ravi', 'Prithviraj_Road', 'Delhi');
commit;
select * from bank_customer;

```

customer_name	customer_street	customer_city
Avinash	Bull_Temple_Road	Bangalore
Dinesh	Bannerghatta_Road	Bangalore
Mohan	National_College_Road	Bangalore
Nikhil	Akbar_Road	Delhi
Ravi	Prithviraj_Road	Delhi
NULL	NULL	NULL

```

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);
commit;
select * from depositer;

```

	CustomerName	Accno
▶	Avinash	1
	Dinesh	2
	Nikil	4
	Ravi	5
	Avinash	8
	Nikil	9
	Dinesh	10
	Nikil	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);
commit;
select * from loan;

```

	loannumber	branchname	Amount
▶	1	SBI_Chamrajpet	10000
	2	SBI_ResidencyRoad	20000
	3	SBI_ShivajiRoad	30000
	4	SBI_ParlimentRoad	40000
	5	SBI_Jantarmantar	30000
★	NULL	NULL	NULL

```

select distinct c.customer_name from bank_customer c, bank_account b where exists(select
d.customer_name, count(d.customer_name) from depositer d, bank_account ba where ba.accno
= d.accno and
c.customer_name = d.customer_name and ba.branch_name = 'SBI_ResidencyRoad' group by
d.customer_name having count(d.customer_name)>=2);

```

Result Grid		Filter Rows:	Edit:
	CustomerName		
▶	Dinesh		
✱	NULL		

select distinct d.customer_name from depositer d where exists(select * from bank_account ba where ba.accno=d.accno and exists (select * from branch b where b.branch_name = ba.branch_name and b.branch_city='Delhi'));

Result Grid		Filter Rows:	Export:	Wrap Cell Content
	CustomerName			
▶	Ravi			
	Niki			

delete from bank_account where branch_name in (select branch_name from branch where branch_city = 'Bombay');

Result Grid		Filter Rows:	Edit
	Accno	branchname	balance
▶	1	SBI_Chamrajpet	2000
	2	SBI_ResidencyRoad	5000
	4	SBI_ParliamentRoad	9000
	5	SBI_Jantarmantar	8000
	8	SBI_ResidencyRoad	4000
	9	SBI_ParliamentRoad	3000
	10	SBI_ResidencyRoad	5000
	11	SBI_Jantarmantar	2000