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 (1BM19CS176)

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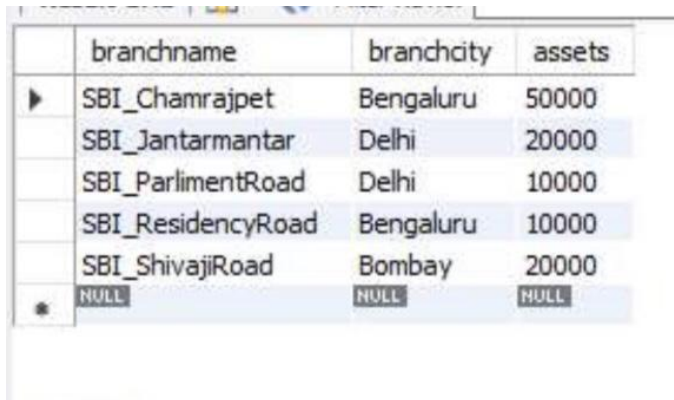   foreign key (branch_name) references branch(branch_name)
);

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),

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

branchname	branchcity	assets
SBI_Chamrajpet	Bengaluru	50000
SBI_Jantarmantar	Delhi	20000
SBI_ParlimentRoad	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_Jantarmantar', 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_Jantarmantar', 2000);
commit;
select * from bank_account;
```

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

insert into bank_customer values ('Avinash', 'Bull_Temple_Road', 'Bangalore');
insert into bank_customer values ('Dinesh', 'Bannergatta_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	Bannergatta_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('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;

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 Conten

	CustomerName
▶	Ravi
	Nikil

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

Result Grid | Filter Rows: | Edi

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