

Queries:

```
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;
```

```
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;
```

```
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;
```

```
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;
```

```
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;
```

	accno	branch_name	balance
▶	1	SBI_Chamrajpet	2000
	2	SBI_ResidencyRoad	5000
	3	SBI_ShivajiRoad	6000
	4	SBI_ParliamentRoad	9000
	5	SBI_Jantarmanatar	8000
	6	SBI_ShivajiRoad	4000
	8	SBI_ResidencyRoad	4000
	9	SBI_ParliamentRoad	3000
	10	SBI_ResidencyRoad	5000
	11	SBI_Jantarmanatar	2000
*	NULL	NULL	NULL

Bank Account Table

	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

Bank Customer Table

	branch_name	branch_city	assets
▶	SBI_Chamrajpet	Bangalore	50000
	SBI_Jantarmanatar	Delhi	20000
	SBI_ParliamentRoad	Delhi	10000
	SBI_ResidencyRoad	Bangalore	10000
	SBI_ShivajiRoad	Bombay	20000
*	NULL	NULL	NULL

Branch Table

	customer_name	accno
▶	Avinash	1
	Dinesh	2
	Nikhil	4
	Ravi	5
	Avinash	8
	Nikhil	9
	Dinesh	10
	Nikhil	11
•	NULL	NULL

Depositor Table

	loan_number	branch_name	amount
▶	1	SBI_Chamrajpet	1000
	2	SBI_ResidencyRoad	2000
	3	SBI_ShivajiRoad	3000
	4	SBI_ParliamentRoad	4000
	5	SBI_Jantarmantar	5000
•	NULL	NULL	NULL

Loan Table

Query 3 :

use bank;

select distinct c.customer_name

from bank_customer c, bank_account b

where exists(select d.customer_name, count(d.customer_name)

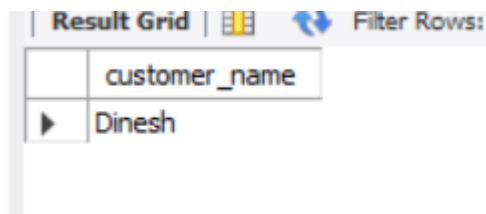
from depositor d, bank_account ba

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);

Output:



customer_name
Dinesh

Query 4:

use bank;

select d.customer_name from depositer d,branch b,bank_account a

where b.branch_name=a.branch_name

AND a.accno=d.accno

and branch_city='Delhi'

group by d.customer_name

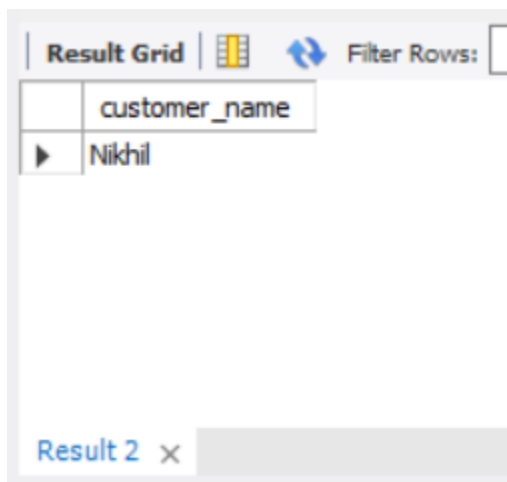
HAVING COUNT(distinct b.branch_name)=(

SELECT COUNT(branch_name)

FROM branch

WHERE branch_city='Delhi');

Output:



customer_name
Nikhil

Result 2 x

Query 5:

delete from bank_account

where branch_name in

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(select branch_name from branch where branch_city = 'Bombay');
```

```
select * from bank_account;
```

Output:

	accno	branch_name	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
*	NULL	NULL	NULL