SUSHANT

1BM19CS164

LAB2 BANK

```
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_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', '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;

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;



select * from branch;
select * from bank_account;
select * from bank_customer;
select * from depositer;
select * from loan;

select c.customer_name
from BankCustomer c
where exists(
select d.customer_name
from Depositer d, BankAccount ba
where
d.accno=ba.accno and
c.customer_name=d.customer_name and
ba.branch_name='SBI_ResidencyRoad'
group by d.customer_name
```

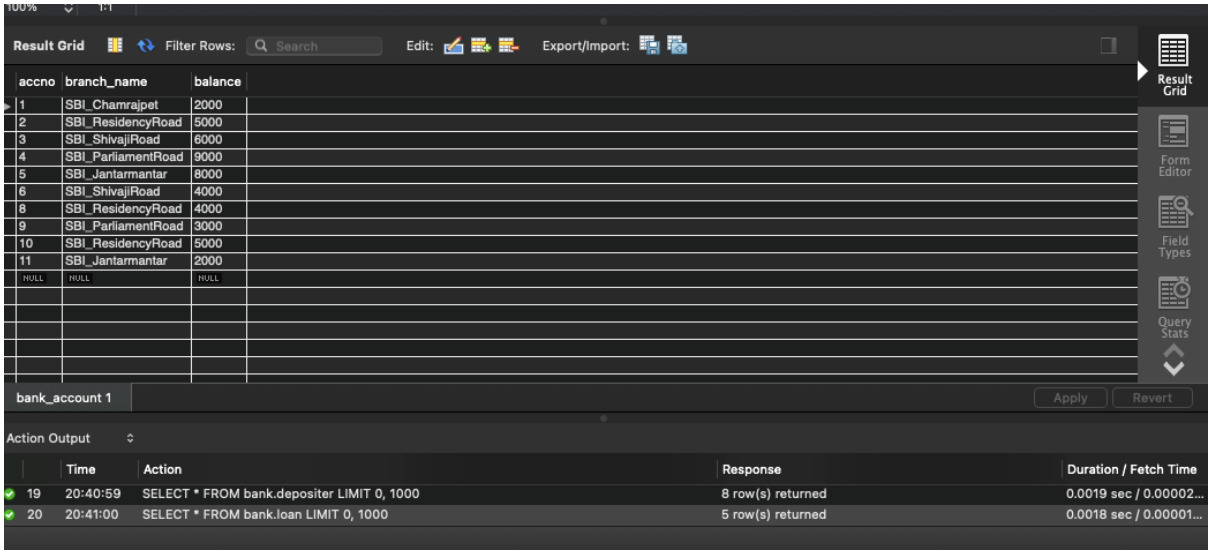
```
having count(d.customer_name)>=2
);
```

```
select distinct d.customer_name from Depositer 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'));
```

```
delete from BankAccount where branch_name in (select branch_name from branch where branch_city = 'Bombay');
select *from BankAccount;
```

OUTPUT

1.



Result Grid | Filter Rows: Search | Edit: | Export/Import:

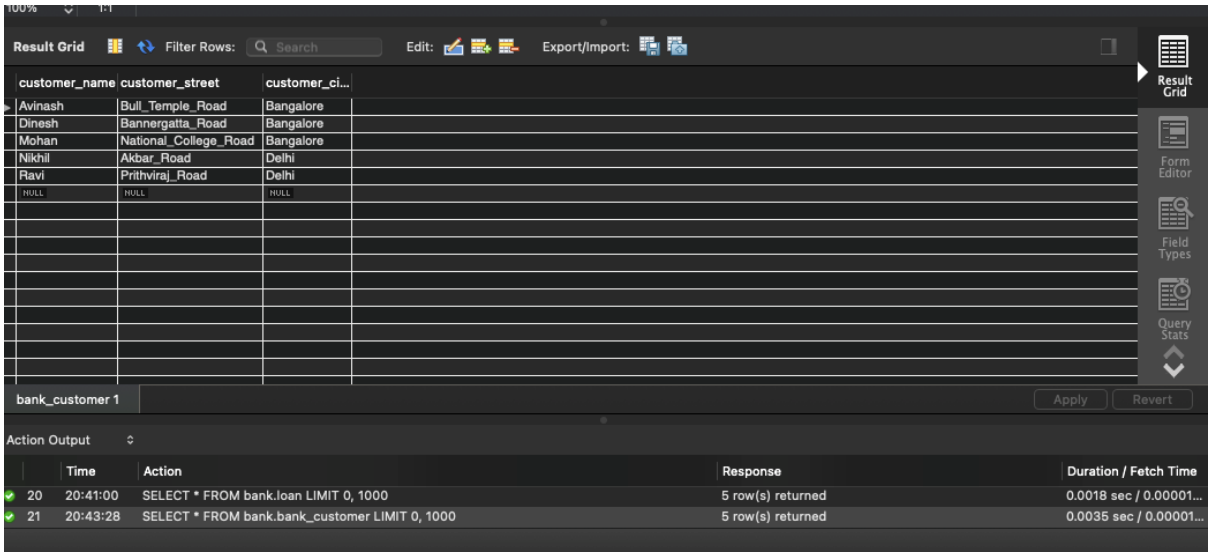
accno	branch_name	balance
1	SBI_Chamrajpet	2000
2	SBI_ResidencyRoad	5000
3	SBI_ShivajiRoad	6000
4	SBI_ParliamentRoad	9000
5	SBI_Jantarmantar	8000
6	SBI_ShivajiRoad	4000
8	SBI_ResidencyRoad	4000
9	SBI_ParliamentRoad	3000
10	SBI_ResidencyRoad	5000
11	SBI_Jantarmantar	2000
NULL	NULL	NULL

bank_account 1 | Apply | Revert

Action Output

	Time	Action	Response	Duration / Fetch Time
19	20:40:59	SELECT * FROM bank.depositer LIMIT 0, 1000	8 row(s) returned	0.0019 sec / 0.00002...
20	20:41:00	SELECT * FROM bank.loan LIMIT 0, 1000	5 row(s) returned	0.0018 sec / 0.00001...

2.



Result Grid | Filter Rows: Search | Edit: | Export/Import:

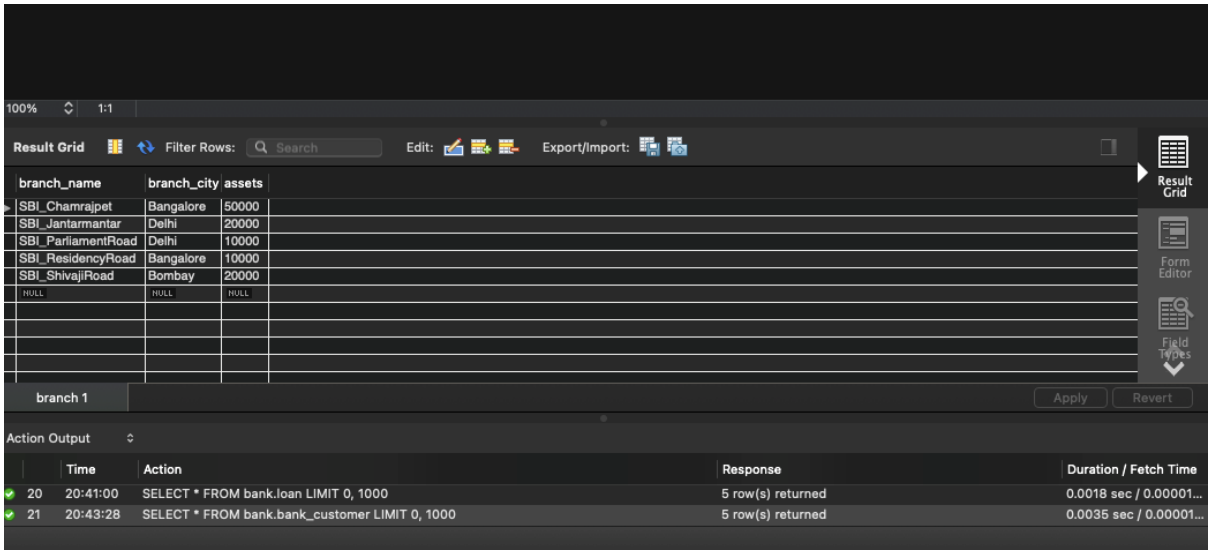
customer_name	customer_street	customer_ci...
Avinash	Bull_Temple_Road	Bangalore
Dinesh	Bannergatta_Road	Bangalore
Mohan	National_College_Road	Bangalore
Nikhil	Akbar_Road	Delhi
Ravi	Prithviraj_Road	Delhi
NULL	NULL	NULL

bank_customer 1 | Apply | Revert

Action Output

	Time	Action	Response	Duration / Fetch Time
20	20:41:00	SELECT * FROM bank.loan LIMIT 0, 1000	5 row(s) returned	0.0018 sec / 0.00001...
21	20:43:28	SELECT * FROM bank.bank_customer LIMIT 0, 1000	5 row(s) returned	0.0035 sec / 0.00001...

3.



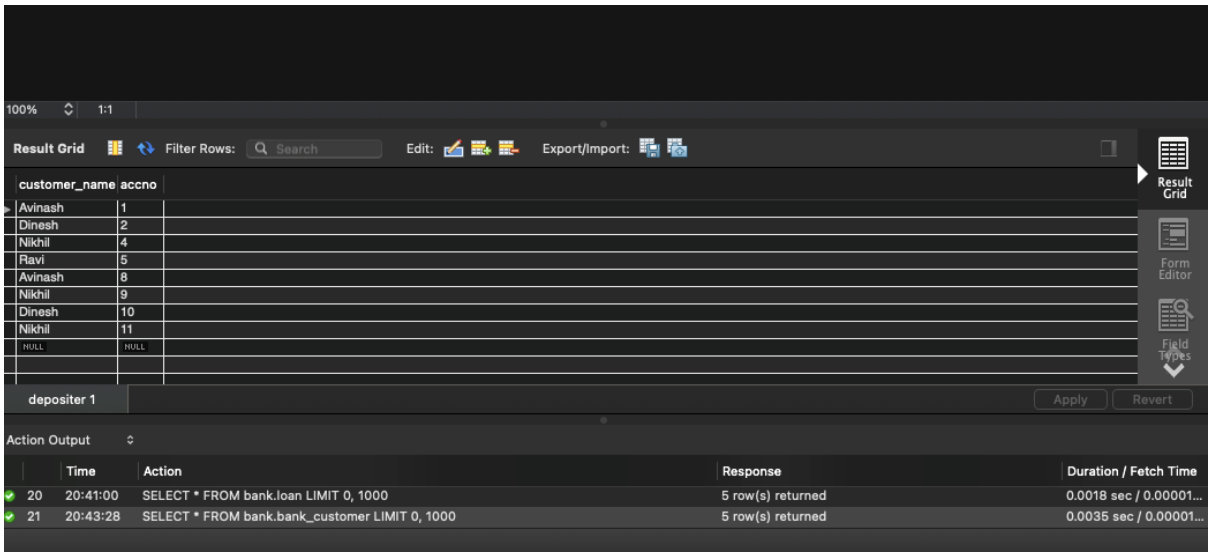
branch_name	branch_city	assets
SBI_Chamrajpet	Bangalore	50000
SBI_Jantarmantar	Delhi	20000
SBI_ParliamentRoad	Delhi	10000
SBI_ResidencyRoad	Bangalore	10000
SBI_ShivajiRoad	Bombay	20000
NULL	NULL	NULL

branch 1

Action Output

	Time	Action	Response	Duration / Fetch Time
20	20:41:00	SELECT * FROM bank.loan LIMIT 0, 1000	5 row(s) returned	0.0018 sec / 0.00001...
21	20:43:28	SELECT * FROM bank.bank_customer LIMIT 0, 1000	5 row(s) returned	0.0035 sec / 0.00001...

4.



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

depositer 1

Action Output

	Time	Action	Response	Duration / Fetch Time
20	20:41:00	SELECT * FROM bank.loan LIMIT 0, 1000	5 row(s) returned	0.0018 sec / 0.00001...
21	20:43:28	SELECT * FROM bank.bank_customer LIMIT 0, 1000	5 row(s) returned	0.0035 sec / 0.00001...

customer_name
Dinesh
NULL

5.

6.

	customer_name
▶	Ravi
	Nikhil

7.