

LAB 2- Bank Database

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4-D

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)  
);
```

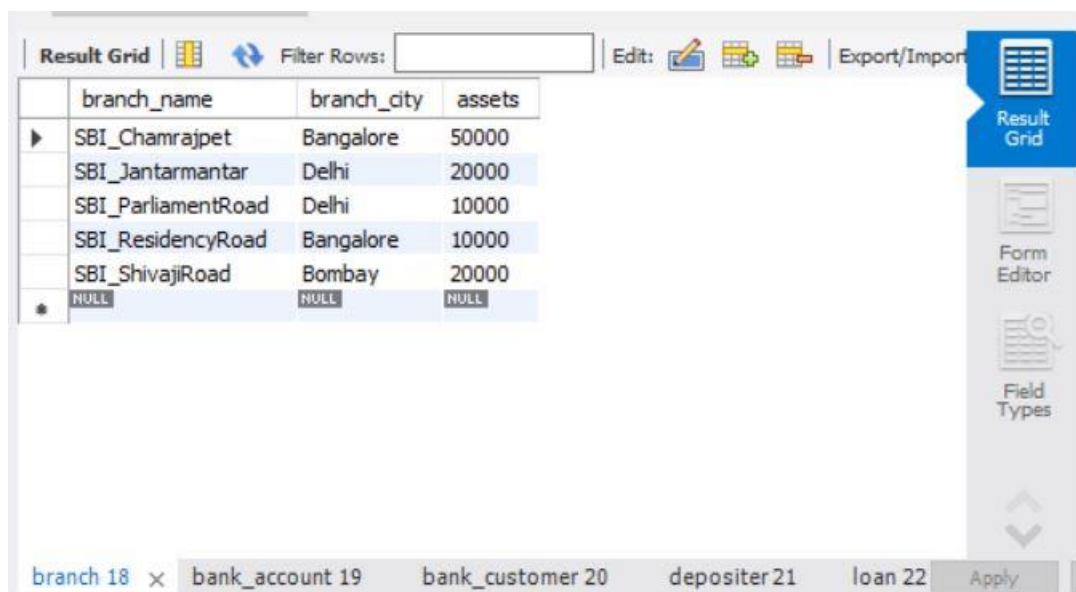
```
create table depositer (  
    customer_name varchar(10),  
    accno int,  
    primary key(customer_name, accno),  
    foreign key (customer_name) references  
bank_customer(customer_name),  
    foreign key (accno) references bank_account(accno)  
);
```

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

```



	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

```

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);

```

Result Grid			
Filter Rows:			
	accno	branch_name	balance
▶	1	SBI_Chamrajpet	2000
	2	SBI_ResidencyRoad	5000
	3	SBI_ShivajiRoad	6000
	4	SBI_ParliamentRoad	9000
	5	SBI_Jantarantar	8000
	6	SBI_ShivajiRoad	4000
	8	SBI_ResidencyRoad	4000
	9	SBI_ParliamentRoad	3000
	10	SBI_ResidencyRoad	5000
	11	SBI_Jantarantar	2000
•	NULL	NULL	NULL

Result Grid
Form Editor
Field Types

Query Output Query Output Query Output branch 18 bank_account : Apply

commit;

insert into bank_customer values ('Abhay', 'Bull_Temple_Road', 'Bangalore');




insert into bank_customer values ('Dhruv', 'Bannerghatta_Road', 'Bangalore');

insert into bank_customer values ('Mohit', 'National_College_Road', 'Bangalore');

insert into bank_customer values ('Nick', 'Akbar_Road', 'Delhi');

insert into bank_customer values ('Rahul', 'Prithviraj_Road', 'Delhi');

commit;

Result Grid			
Filter Rows: <input type="text"/>			
Edit:    Export/Import			
	customer_name	customer_street	customer_city
▶	Abhay	Bull Temple Road	Bangalore
	Dhruv	Bannergatta Road	Bangalore
	Mohit	National College Road	Bangalore
	Nick	Akbar Road	Delhi
	Rahul	Prithviraj Road	Delhi
*	NULL	NULL	NULL





Result Grid
Form Editor
Field Types
Apply

ry Output Query Output branch 18 bank_account 19 bank_customer 2 Apply

```

insert into depositer values('Abhay', 1);
insert into depositer values('Dhruv', 2);
insert into depositer values('Nick', 4);
insert into depositer values('Rahul', 5);
insert into depositer values('Abhay', 8);
insert into depositer values('Nick', 9);
insert into depositer values('Dhruv', 10);
insert into depositer values('Nick', 11);
commit;

```

Result Grid		
Filter Rows: <input type="text"/>		
Edit:    Export/Import 		
	customer_name	accno
▶	Abhay	1
	Dhruv	2
	Nick	4
	Rahul	5
	Abhay	8
	Nick	9
	Dhruv	10
	Nick	11
*	NULL	NULL

Result Grid
Form Editor
Field Types

k_account 19 bank_customer 20 **depositer 21** × loan 22 bank_account 23 Apply

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_Jantarantar', 5000);

commit;

Result Grid			
Filter Rows: <input type="text"/>			
Edit:    Export/Import 			
	loan_number	branch_name	amount
▶	1	SBI_Chamrajpet	1000
	2	SBI_ResidencyRoad	2000
	3	SBI_ShivajiRoad	3000
	4	SBI_ParliamentRoad	4000
	5	SBI_Jantarantar	5000
*	NULL	NULL	NULL

Result Grid
Form Editor
Field Types

k_account 19 bank_customer 20 depositer 21 **loan 22** × bank_account 23 Apply

```

select * from branch;

select * from bank_account;

select * from bank_customer;

select * from depositer;

select * from loan;

```

Additional Queries:

```

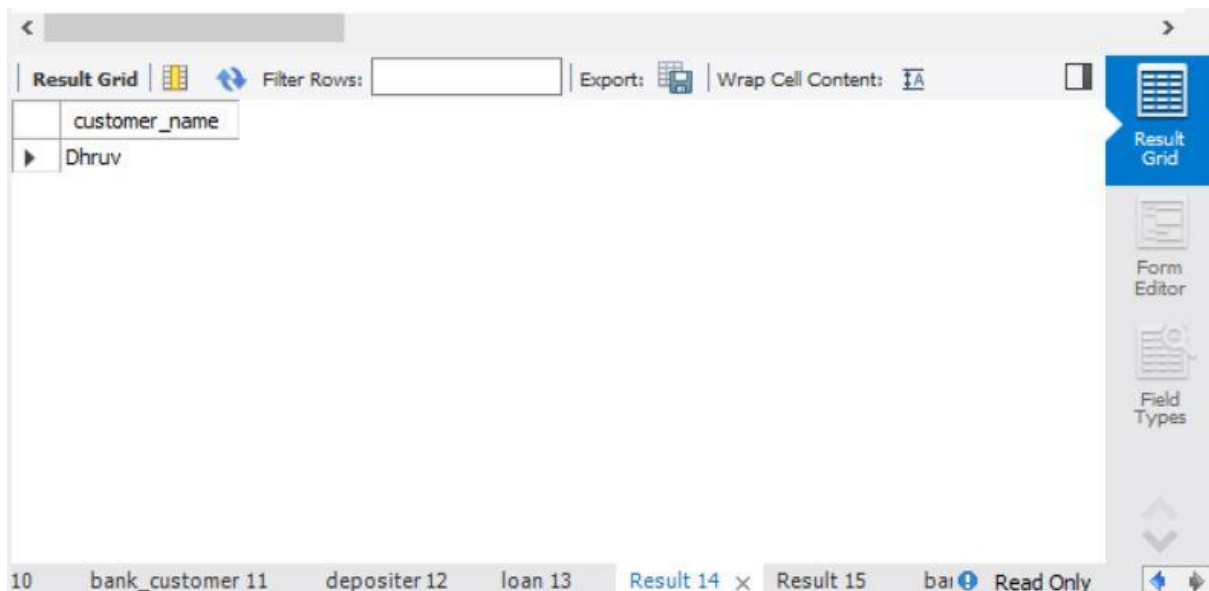
select distinct c.customer_name from bank_customer c, bank_account b
where exists(select d.customer_name, count(d.customer_name) from
depositer d, bank_account ba where ba.accno = d.accno and

```

```

c.customer_name = d.customer_name and ba.branch_name =
'SBI_ResidencyRoad' group by d.customer_name having
count(d.customer_name) >= 2);

```



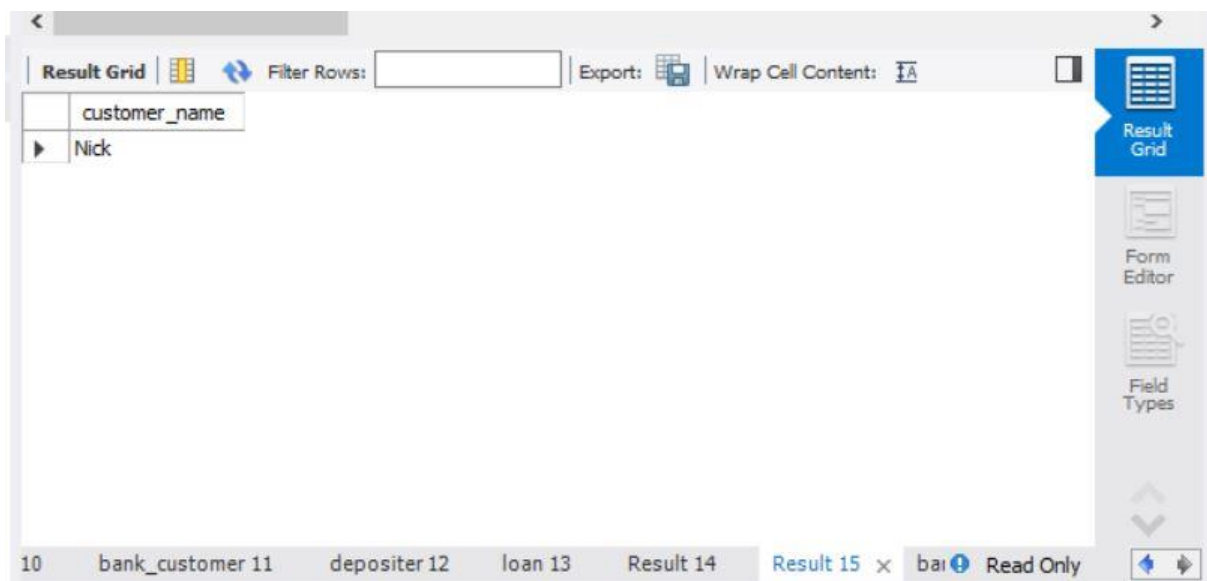
```

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');
```



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


Result Grid				Filter Rows:				Edit:				Export/Import:				Wrap			
	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																

Result Grid
Form Editor
Field Types

10
bank_customer 11
depositer 12
loan 13
Result 14
Result 15
bai
Apply
Revert