

Bank Database

Branch:

	branch_name	branch_city	assets
▶	SBI_Chamrajpet	Bengaluru	50000
	SBI_Jantarmantar	Delhi	20000
	SBI_ParliamentRoad	Delhi	10000
	SBI_ResidencyRoad	Bengaluru	10000
	SBI_ShivajiRoad	Bombay	20000
*	NULL	NULL	NULL

BankAccount:

	Accno	branch_name	balance
▶	1	SBI_Chamrajpet	2100
	2	SBI_ResidencyRoad	5250
	4	SBI_ParliamentRoad	9450
	5	SBI_Jantarmantar	8400
	8	SBI_ResidencyRoad	4200
	9	SBI_ParliamentRoad	3150
	10	SBI_ResidencyRoad	5250
	11	SBI_Jantarmantar	2100
*	NULL	NULL	NULL

Depositor:

	customer_name	Accno
▶	Avinash	1
	Dinesh	2
	Nikil	4
	Ravi	5
	Avinash	8
	Nikil	9
	Dinesh	10
	Nikil	11

BankCustomer:

	customer_name	customerstreet	customercity
▶	Avinash	Bull temple road	Bengaluru
	Dinesh	Bannergatta road	Bengaluru
	Mohan	National college road	Bengaluru
	Nikil	Akbar road	Delhi
	Ravi	Prithviraj road	Delhi
*	NULL	NULL	NULL

Loan:

	loan_number	branch_name	Amount
▶	1	SBI_Chamrajpet	1050
	2	SBI_ResidencyRoad	2100
	3	SBI_ShivajiRoad	3150
	4	SBI_ParliamentRoad	4200
	5	SBI_Jantarmantar	5250

Queries:

1. Find all the customers who have at least two deposits at the same branch (Ex. ‘SBI_ResidencyRoad’).

```
select customer_name  
from depositer,bankaccount  
where depositer.Accno=bankaccount.Accno and bankaccount.branch_name = "SBI_ResidencyRoad"  
group by depositer.customer_name having count(depositor.customer_name)>=2;
```

Output:

	customer_name
▶	Dinesh

2. Find all the customers who have an account at *all* the branches located in a specific city (Ex. Delhi).

```
select customer_name,Accno  
from depositer where Accno in  
(Select Accno from bankaccount a,  
branch b where a.branch_name=b.branch_name and branch_city="Delhi");
```

Output:

	customer_name	Accno
▶	Ravi	5
	Nikil	11
	Nikil	4
	Nikil	9

3. Demonstrate how you delete all account tuples at every branch located in a specific city (Ex. Bombay).

```
delete from bankaccount
where branch_name in
  (select branch_name
   from branch
   where branch_city="Bombay");
```

Output:

	Accno	branch_name	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
*	NULL	NULL	NULL

4. List the Entire Loan relation in the descending order of amount.

```
select *
  from loan
 order by Amount desc;
```

Output:

	loan_number	branch_name	Amount
▶	5	SBI_Jantarmantar	5000
	4	SBI_ParlimentRoad	4000
	3	SBI_ShivajiRoad	3000
	2	SBI_ResidencyRoad	2000
	1	SBI_Chamrajpet	1000

5. Find all customer having a loan, An Account or both at the bank.

```
(select customer_name from depositer)
union
(select customer_name from bankcustomer);
```

Output:

	customer_name
▶	Avinash
	Dinesh
	Nikl
	Ravi
	Mohan

6. Create a view which gives each branch the sum of the amount of all the Loans at the branch.

```
create view loan_sum (branch_name,total_loan)
as select branch_name,sum(Amount)
from loan group by branch_name;

select * from loan_sum;
```

Output:

	branch_name	total_loan
▶	SBI_Chamrajpet	1000
	SBI_Jantarmantar	5000
	SBI_ParliamentRoad	4000
	SBI_ResidencyRoad	2000
	SBI_ShivajiRoad	3000