

WEEK 4 QUERIES

```
insert into bankaccount values(12,"SBI_MantriMarg",2000);
```

```
insert into branch values("SBI_MantriMarg","Delhi",200000);
```

```
insert into depositer values("Nikil",12);
```

```
create table borrower(customername varchar(50), loannumber int,
```

```
foreign key(customername) references bankcustomer(customername),
```

```
foreign key(loannumber) references loan(loannumber));
```

```
insert into borrower values("Avinash",1),("Dinesh",2),("Mohan",3),("Nikil",4),("Ravi",5);
```

QUERIES

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

```
select d.customername from branch b, depositer d, bankaccount ba where
```

```
b.branchcity='Delhi' and d.accno=ba.accno and b.branchname=ba.branchname
```

```
group by d.customername having count(distinct b.branchname)= (select count(distinct  
b.branchname) from branch b where b.branchcity='Delhi');
```

Result Grid		Filter Rows:
	customername	
▶	niki	

- Find all customers who have a loan at the bank but do not have an account.

```
select distinct b.customername from borrower b, depositer d
where b.customername NOT IN(
    select d.customername from loan l, depositer d, borrower b
    where l.loannumber=b.loannumber and
    d.customername=b.customername
);
```

Result Grid		Filter Rows:
	customername	
▶	Mohan	

- Find all customers who have both an account and a loan at the Bangalore branch

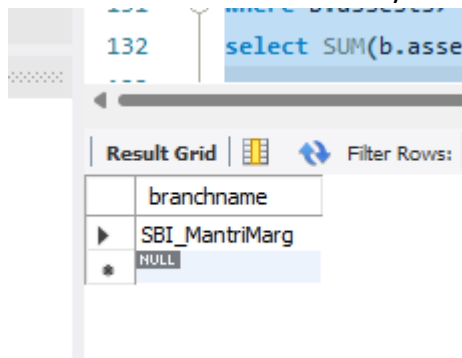
```
select distinct d.customername from depositer d
where d.customername IN(
    select d.customername from branch br, depositer d, bankaccount ba
    where br.branchcity='Bangalore' and br.branchname=ba.branchname
    and ba.acno=d.acno and customername IN(
    select customername from borrower)
);
```

Result Grid		Filter Rows:
	customername	
▶	avinash	
	dinesh	

- Find the names of all branches that have greater assets than all branches located in Bangalore.

```
select b.branchname from branch b
where b.assets> ALL (
```

```
select SUM(b.assests) from branch b
where b.branchcity='Banglore' );
```

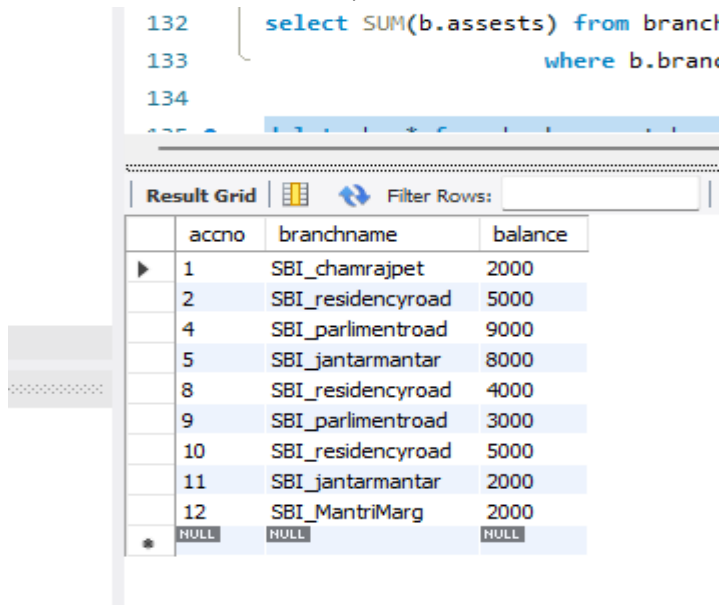


The screenshot shows a SQL query editor with the text: `select SUM(b.assests) from branch b where b.branchcity='Banglore');`. Below the editor is a 'Result Grid' tab. The grid has one column labeled 'branchname'. It contains two rows: 'SBI_MantriMarg' and a row with a star icon and the word 'NULL'.

branchname
SBI_MantriMarg
NULL

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

```
delete ba.* from bankaccount ba, branch b where branchcity='bombay' and
ba.branchname=b.branchname;
select * from bankaccount;
```



The screenshot shows a SQL query editor with the text: `select SUM(b.assests) from branch b where b.branchcity='bombay' and ba.branchname=b.branchname;`. Below the editor is a 'Result Grid' tab. The grid has four columns: 'accno', 'branchname', and 'balance'. It contains 12 rows of account data and a final row with a star icon and 'NULL' values.

accno	branchname	balance
1	SBI_chamrajpet	2000
2	SBI_residencyroad	5000
4	SBI_parlimentroad	9000
5	SBI_jantarmanatar	8000
8	SBI_residencyroad	4000
9	SBI_parlimentroad	3000
10	SBI_residencyroad	5000
11	SBI_jantarmanatar	2000
12	SBI_MantriMarg	2000
NULL	NULL	NULL

- Update the Balance of all accounts by 5%

```
UPDATE bankaccount set balance=(balance + (balance*0.05));
select * from bankaccount;
```

Result Grid			
Filter Rows:			
	accno	branchname	balance
▶	1	SBI_chamrajpet	2100
	2	SBI_residencyroad	5250
	4	SBI_parlimentroad	9450
	5	SBI_jantarantar	8400
	8	SBI_residencyroad	4200
	9	SBI_parlimentroad	3150
	10	SBI_residencyroad	5250
	11	SBI_jantarantar	2100
	12	SBI_MantriMarg	2100
✱	NULL	NULL	NULL

- Demonstrate how to delete branches loacted in banglore

delete b.*,ba.* from branch b, bankaccount ba,loan l

Where b.branchcity="Banglore" and b.branchname=ba.branchname

And l.branchname=ba.branchname;

select * from branch;

select * from bankaccount;

select * from loan;

Result Grid			
Filter Rows:			
	branchname	branchcity	assests
▶	SBI_jantarantar	delhi	20000
	SBI_parlimentroad	delhi	10000
	SBI_shivajiroad	bombay	20000
✱	NULL	NULL	NULL

150 • `select * from branch;`

Result Grid



Filter Rows:

	accno	branchname	balance
▶	3	SBI_shivajiroad	6000
	4	SBI_parlimentroad	9000
	5	SBI_jantarmantar	8000
	6	SBI_shivajiroad	4000
	9	SBI_parlimentroad	3000
	11	SBI_jantarmantar	2000
*	NULL	NULL	NULL

Result Grid



Filter Rows:

Edit:



	loannumber	branchname	amount
▶	3	SBI_shivajiroad	3000
	4	SBI_parlimentroad	4000
	5	SBI_jantarmantar	5000
*	NULL	NULL	NULL