

/*week 4*/

```
create table borrower(  
customer_name varchar(20),  
loan_no int,  
primary key(customer_name,loan_no),  
foreign key(loan_no) references loan(loan_no)  
);
```

```
insert into borrower values('avinash',1);
```

```
insert into borrower values('dinesh',2);
```

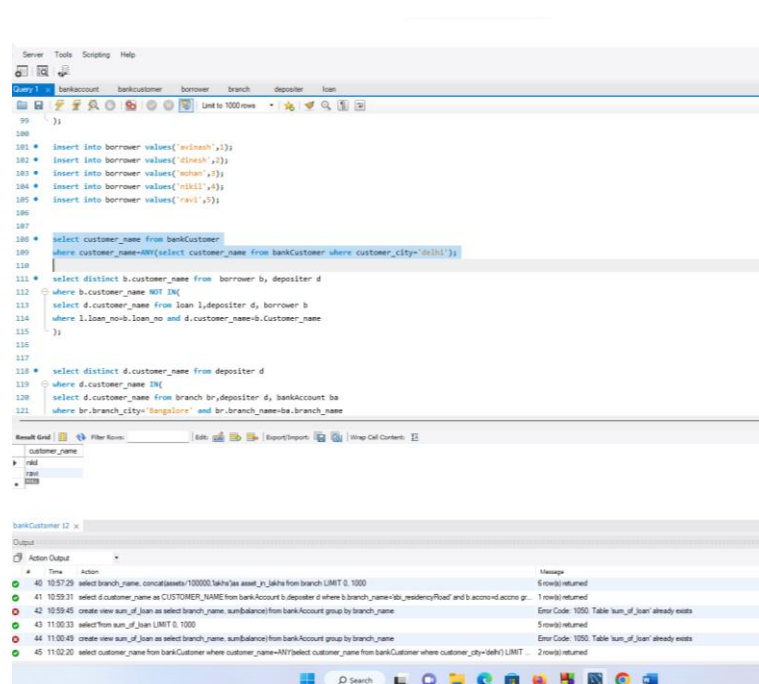
```
insert into borrower values('mohan',3);
```

```
insert into borrower values('nikil',4);
```

```
insert into borrower values('ravi',5);
```

```
select customer_name from bankCustomer
```

```
where customer_name=ANY(select customer_name from bankCustomer where  
customer_city='delhi');
```



The screenshot displays a SQL IDE interface. The main editor window contains a script with the following SQL statements:

```
99  
100  
101 * insert into borrower values('avinash',1);  
102 * insert into borrower values('dinesh',2);  
103 * insert into borrower values('mohan',3);  
104 * insert into borrower values('nikil',4);  
105 * insert into borrower values('ravi',5);  
106  
107  
108 * select customer_name from bankCustomer  
109 where customer_name=ANY(select customer_name from bankCustomer where customer_city='delhi');  
110  
111 * select distinct b.customer_name from borrower b, depositor d  
112 where b.customer_name NOT IN(  
113 select d.customer_name from loan l, depositor d, borrower b  
114 where l.loan_no=b.loan_no and d.customer_name=b.customer_name  
115 );  
116  
117 * select distinct d.customer_name from depositor d  
118 where d.customer_name IN(  
119 select d.customer_name from branch br, depositor d, bankAccount ba  
120 where br.branch_city='bangalore' and br.branch_name=ba.branch_name
```

The 'Result Grid' at the bottom shows the results of the queries:

customer_name
delhi
delhi
delhi

The 'Action Output' window at the bottom shows the execution progress and messages:

Time	Action	Message
40 10:57:29	select branch_name, concat(asset/100000, lakhs) as asset, ln_lakhs from branch LIMIT 0, 1000	5 rows returned
41 10:59:31	select d.customer_name as CUSTOMER_NAME from bankAccount b, depositor d where b.branch_name=d.branch_name and b.account_no=d.account_no	1 row(s) returned
42 10:59:45	create view sum_of_loan as select branch_name, sum(balance) from bankAccount group by branch_name	Error Code: 1050. Table 'sum_of_loan' already exists
43 11:00:33	select from sum_of_loan LIMIT 0, 1000	5 rows returned
44 11:00:49	create view sum_of_loan as select branch_name, sum(balance) from bankAccount group by branch_name	Error Code: 1050. Table 'sum_of_loan' already exists
45 11:02:20	select customer_name from bankCustomer where customer_name=ANY(select customer_name from bankCustomer where customer_city='delhi') LIMIT 0, 1000	2 rows returned

```

select distinct b.customer_name from borrower b, depositor d

where b.customer_name NOT IN(

select d.customer_name from loan l, depositor d, borrower b

where l.loan_no=b.loan_no and d.customer_name=b.Customer_name

);

```

The screenshot shows a database IDE with a SQL query editor and a results pane. The query is as follows:

```

100
101
102 * Insert into borrower values('vinash',1);
103 * Insert into borrower values('divish',2);
104 * Insert into borrower values('nohan',3);
105 * Insert into borrower values('nikhil',4);
106
107
108
109 select customer_name from bankCustomer
110 where customer_name<>(select customer_name from bankCustomer where customer_city='delhi');
111
112 select distinct b.customer_name from borrower b, depositor d
113 where b.customer_name NOT IN(
114 select d.customer_name from loan l, depositor d, borrower b
115 where l.loan_no=b.loan_no and d.customer_name=b.Customer_name
116 );
117
118
119 select distinct d.customer_name from depositor d
120 where d.customer_name IN(
121 select d.customer_name from branch br, depositor d, bankAccount ba
122 where br.branch_city='Bangalore' and br.branch_name=ba.branch_name

```

The results pane shows a single row with the customer name 'nohan'.

```

select distinct d.customer_name from depositor d

where d.customer_name IN(

select d.customer_name from branch br, depositor d, bankAccount ba

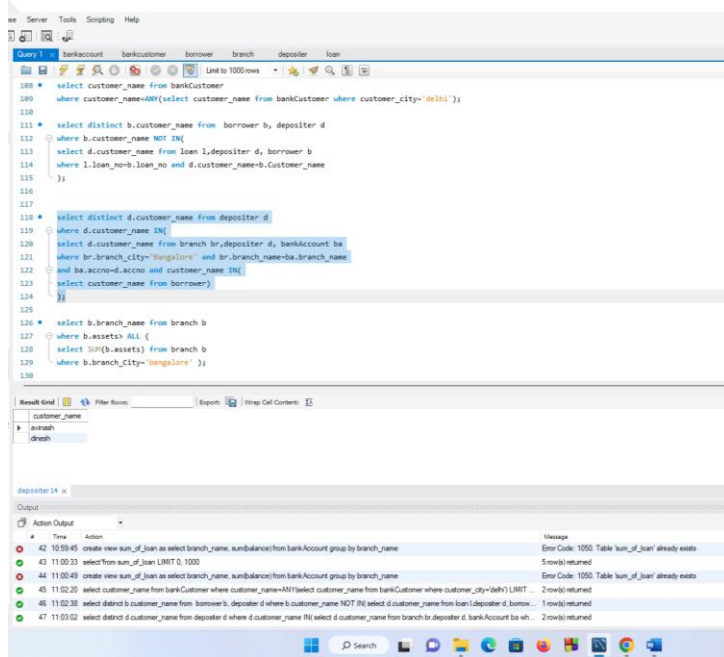
where br.branch_city='Bangalore' and br.branch_name=ba.branch_name

and ba.accno=d.accno and customer_name IN(

select customer_name from borrower)

);

```

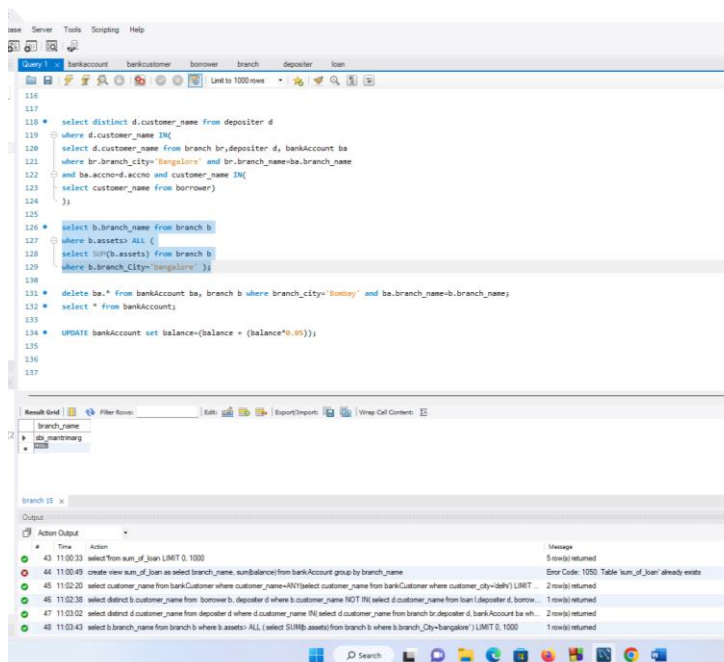


select b.branch_name from branch b

where b.assets> ALL (

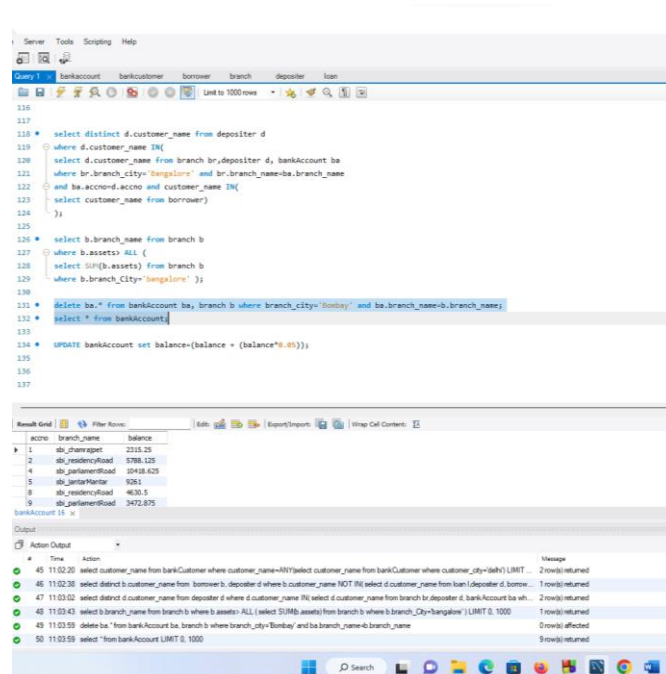
select SUM(b.assets) from branch b

where b.branch_City='bangalore');



```
delete ba.* from bankAccount ba, branch b where branch_city='Bombay' and
ba.branch_name=b.branch_name;

select * from bankAccount;
```



```
UPDATE bankAccount set balance=(balance + (balance*0.05));
```

```
delete from branch where branch_city='bangalore';
```

```
select * from branch;
```

base Server Tools Scripting Help

Query 1 bankaccount bankcustomer borrower branch depositor loan

```

117
118 * select distinct d.customer_name from depositor d
119 * where d.customer_name IN(
120 * select d.customer_name from branch br, depositor d, bankaccount ba
121 * where br.branch_city='bangalore' and br.branch_name=ba.branch_name
122 * and ba.account_id=accno and customer_name IN(
123 * select customer_name from borrower)
124 * );
125
126 * select b.branch_name from branch b
127 * where b.assets> ALL (
128 * select SUM(b.assets) from branch b
129 * where b.branch_city='bangalore' );
130
131 * delete ba,* from bankaccount ba, branch b where branch_city='Bombay' and ba.branch_name=b.branch_name;
132 * select * from bankaccount;
133
134 * UPDATE bankAccount set balance=(balance + (balance*0.05));
135 * delete from branch where branch_city='bangalore';
136 * select * from branch;
137
138

```

Result Grid

branch_name	branch_city	assets
ib_tanishapet	bangalore	50000
ib_tanishapet	delhi	20000
ib_tanishapet	delhi	20000
ib_tanishapet	delhi	10000
ib_tanishapet	bangalore	10000
ib_tanishapet	bombay	20000

branch 17

Output

#	Time	Action	Message
48	11:03:43	select b.branch_name from branch b where b.assets> ALL (select SUM(b.assets) from branch b where b.branch_city='bangalore') LIMIT 0, 1000	1 row(s) returned
49	11:03:59	delete ba,* from bankAccount ba, branch b where branch_city='Bombay' and ba.branch_name=b.branch_name	0 row(s) affected
50	11:03:59	select * from bankAccount LIMIT 0, 1000	0 row(s) returned
51	11:04:20	UPDATE bankAccount set balance=balance + (balance*0.05)	0 row(s) affected Rows matched: 9 Changed: 9 Warnings: 0
52	11:07:13	delete from branch where branch_city='bangalore'	Error Code: 1451 Cannot delete or update a parent row: a foreign key constraint exists
53	11:07:23	select * from branch LIMIT 0, 1000	0 row(s) returned