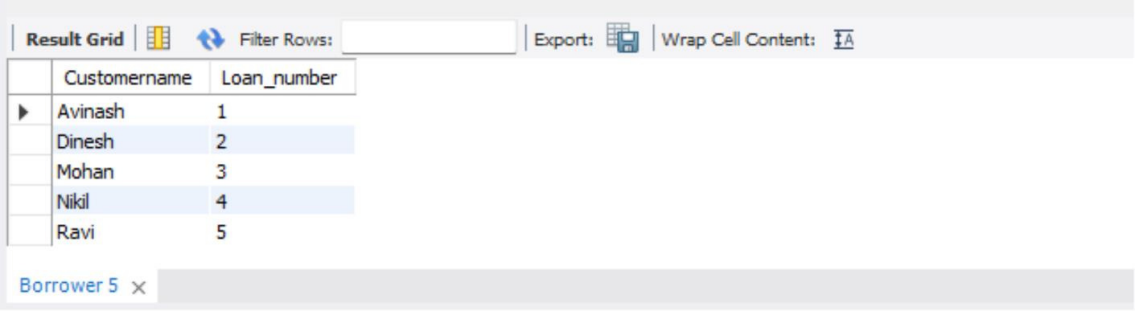


Swastik_week4

```
create table Borrower(  
  Customername varchar(20),  
  Loan_number int,  
  foreign key(Customername) references BankCustomer(Customername),  
  foreign key(Loan_number) references Loan(Loan_number)  
);  
  
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);  
  
insert into branch values("SBI_MantriMarg","Delhi",200000);  
insert into BankAccount values(12,"SBI_MantriMarg",2000);  
insert into Depositer values("Nikil",12);
```

Select new table. (SELECTION)

```
select * from Borrower;
```



The screenshot shows a database query result grid. At the top, there are tabs for 'Result Grid', 'Filter Rows', 'Export', and 'Wrap Cell Content'. Below these is a table with two columns: 'Customername' and 'Loan_number'. The table contains five rows of data: Avinash (1), Dinesh (2), Mohan (3), Nikil (4), and Ravi (5). The table is titled 'Borrower 5' at the bottom.

Customername	Loan_number
Avinash	1
Dinesh	2
Mohan	3
Nikil	4
Ravi	5

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

```
select d.Custormername from branch b, Depositer d, BankAccount ba
where
b.Branch_city='Delhi' and d.Accno=ba.Accno and
b.Branch_name=ba.Branch_name
group by d.Custormername having count(distinct b.Branch_name)=
(select count(distinct b.Branch_name) from branch b where
b.Branch_city='Delhi');
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
Customername			
Nikil			

Result 6 x

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

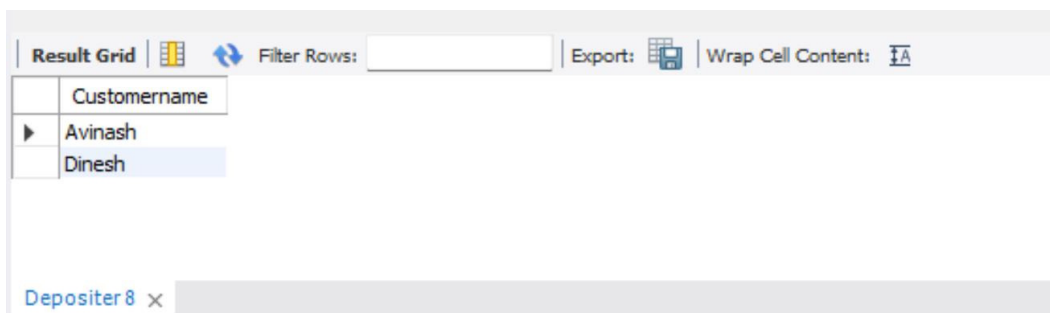
```
select distinct b.Custormername from Borrower b, Depositer d
where b.Custormername NOT IN(
    select d.Custormername from Loan l,Depositer d, Borrower b
    where l.Loan_number=b.Loan_number and
    d.Custormername=b.Custormername
);
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
Customername			
Mohan			

Result 7 x

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

```
select distinct d.Custormername from Depositer d
where d.Custormername IN(
    select d.Custormername from branch br,Depositer d,
    BankAccount ba
    where br.Branch_city='Bangalore' and
    br.Branch_name=ba.Branch_name
    and ba.accno=d.accno and Custormername IN(
        select Custormername from Borrower)
    );
```

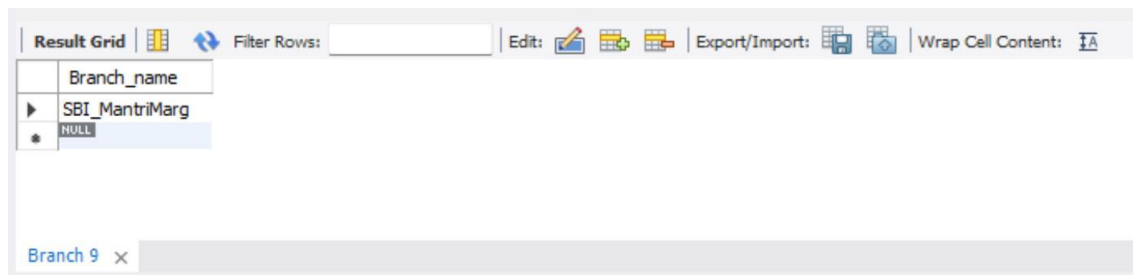


The screenshot shows a database query result grid. The header row is labeled 'Custormername'. The data rows are 'Avinash' and 'Dinesh'. The grid is titled 'Depositer 8'.

Custormername
Avinash
Dinesh

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

```
select b.Branch_name from Branch b
where b.assets> ALL (
    select SUM(b.assets) from Branch b
    where b.Branch_City='Bangalore' );
```

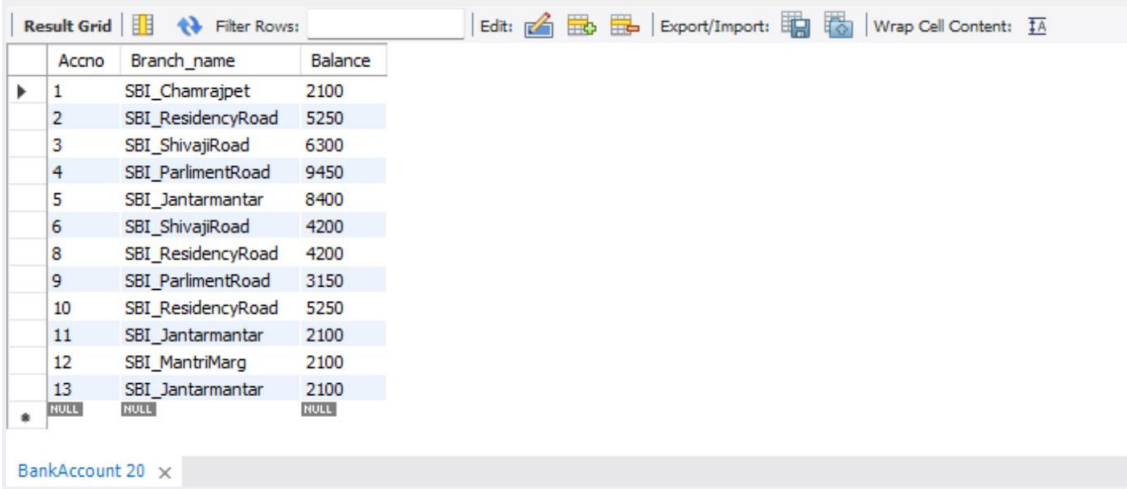


The screenshot shows a database query result grid. The header row is labeled 'Branch_name'. The data rows are 'SBI_MantriMarg' and 'NULL'. The grid is titled 'Branch 9'.

Branch_name
SBI_MantriMarg
NULL

5. Update the Balance of all accounts by 5%

UPDATE BankAccount set Balance=(Balance + (Balance*0.05));



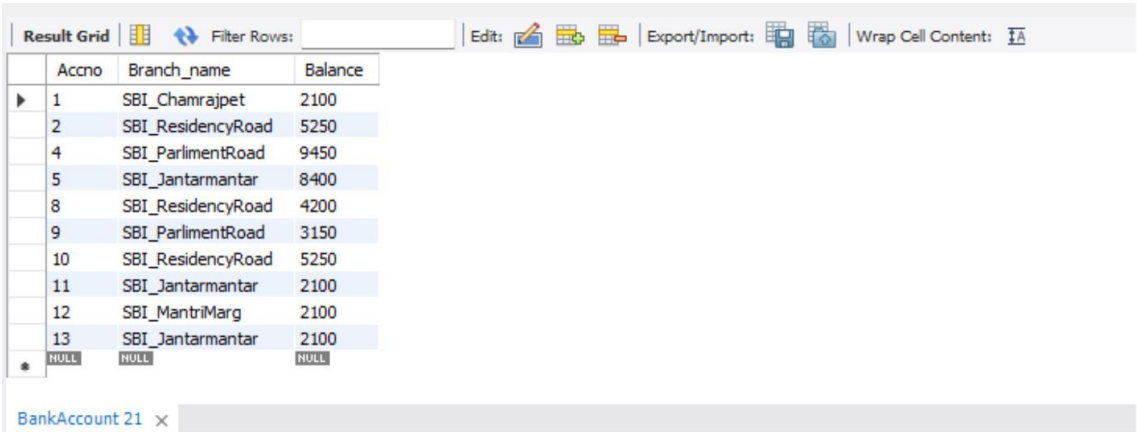
	Accno	Branch_name	Balance
▶	1	SBI_Chamrajpet	2100
	2	SBI_ResidencyRoad	5250
	3	SBI_ShivajiRoad	6300
	4	SBI_ParliamentRoad	9450
	5	SBI_Jantarmantra	8400
	6	SBI_ShivajiRoad	4200
	8	SBI_ResidencyRoad	4200
	9	SBI_ParliamentRoad	3150
	10	SBI_ResidencyRoad	5250
	11	SBI_Jantarmantra	2100
	12	SBI_MantriMarg	2100
	13	SBI_Jantarmantra	2100
*	NULL	NULL	NULL

BankAccount 20

6. 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
branch_city='Bombay' and ba.Branch_name=b.Branch_name;

select * from BankAccount;



	Accno	Branch_name	Balance
▶	1	SBI_Chamrajpet	2100
	2	SBI_ResidencyRoad	5250
	4	SBI_ParliamentRoad	9450
	5	SBI_Jantarmantra	8400
	8	SBI_ResidencyRoad	4200
	9	SBI_ParliamentRoad	3150
	10	SBI_ResidencyRoad	5250
	11	SBI_Jantarmantra	2100
	12	SBI_MantriMarg	2100
	13	SBI_Jantarmantra	2100
*	NULL	NULL	NULL

BankAccount 21