

WEEK 4

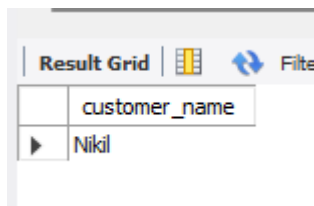
Find all the customers who have an account at all the branches located in a specific city (Ex. Delhi).

```
select customer_name , count(distinct(ba.branch_name)) from Depositer d,BankAccount  
ba,branch b
```

```
where d.Accno =ba.Accno AND ba.branch_name=b.branch_name and branch_city =  
'Delhi'
```

```
group by customer_name
```

```
having count(distinct ba.branch_name) = (select count(branch_name) from branch where  
branch_city = 'Delhi');
```



	customer_name
▶	Nikhil

```
create table Borrower
```

```
(Customer_name varchar(20),
```

```
loan_no int,
```

```
primary key(Customer_name,loan_no),
```

```
foreign key(Customer_name) references bankcustomer(Customer_name) on delete cascade,
```

```
foreign key(Loan_no) references Loan(Loan_no) on delete cascade
```

```
);
```

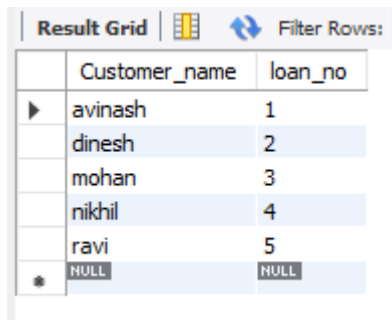
```
desc Borrower;
```

```
set foreign_key_checks=0;
```

```
set global foreign_key_checks=0;
```

```
insert into borrower values('avinash',1),('dinesh',2),('mohan',3),('nikhil',4),('ravi',5);
```

```
select * from Borrower;
```



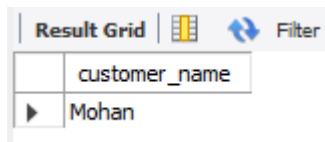
The screenshot shows a 'Result Grid' with two columns: 'Customer_name' and 'loan_no'. It contains six rows of data. The first five rows have customer names and loan numbers, while the last row has NULL values for both.

	Customer_name	loan_no
▶	avinash	1
	dinesh	2
	mohan	3
	nikhil	4
	ravi	5
*	NULL	NULL

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

```
select customer_name from bankcustomer
```

```
where customer_name not in(select customer_name from depositer);
```



The screenshot shows a 'Result Grid' with one column: 'customer_name'. It contains one row with the name 'Mohan'.

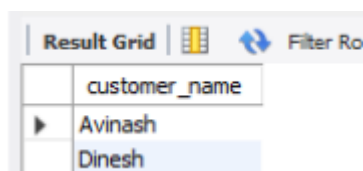
	customer_name
▶	Mohan

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

```
select Customer_name
```

```
from bankaccount b,loan l,branch br
```

```
where l.branch_name=br.branch_name and br.branch_name=b.branch_name and  
br.branch_city='Bangalore';
```



The screenshot shows a 'Result Grid' with one column: 'customer_name'. It contains two rows with the names 'Avinash' and 'Dinesh'.

	customer_name
▶	Avinash
	Dinesh

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

```
select customer_name
```

```
from borrower
```

```
where customer_name not in(select customer_name from depositer);
```

Result Grid	
	customer_name
▶	mohan
	nikhil

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

```
select branch_name
```

```
from branch
```

```
where assets > ALL(select assets from branch where branch_city="Bangalore");
```

Result Grid	
	branch_name
▶	SBI_ahmedbad
	SBI_amritsar
*	NULL

Update the Balance of all accounts by 5%

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

```
select * from bankAccount;
```

Result Grid		Filter Rows:	
	Accno	branch_name	balance
▶	1	SBI_Chamrajpet	2100
	2	SBI_ResidencyRoad	5250
	3	SBI_ShivajiRoad	6300
	4	SBI_ParlimentRoad	9450
	5	SBI_Jantarmantar	8400
	6	SBI_ShivajiRoad	4200
	8	SBI_ResidencyRoad	4200
*	NULL	NULL	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 branch_city='bombay'and ba.branch_name=b.branch_name;
```

```
select distinct d.customer_name from depositer d
```

```
where d.customer_name in(  
select d.customer_name from branch b, depositer d, bankAccount ba  
where b.branch_city='bangalore' and b.branch_name=ba.branch_name  
and ba.accno=d.accno and customer_name IN(select customer_name from borrower)  
);
```

Result Grid	
	customer_name
▶	Avinash
	Dinesh