

WEEK 3

1. Create the above tables by properly specifying the primary keys and the foreign Keys.

```
USE MYSQL;

create database bank_insurance;

create table branch(
branchname char(20) primary key,
branchcity char(20),
assets int
);

create table bankaccount(
accno int,
branchname char(20),
balance int,
primary key (accno, branchname),
foreign key (branchname) references branch(branchname)
);

create table bankcustomer(
customername char(20) primary key,
customerstreet char(20),
customercity char(20)
);

create table loan(
loanno int,
branchname char(20),
amount int,
primary key(loanno, branchname),
foreign key (branchname) references branch(branchname)
);

create table depositer(
customername char(20),
accno int,
primary key(customername, accno),
foreign key (customername) references bankcustomer(customername),
foreign key (accno) references bankaccount(accno)
);
```

2. Enter at least five tuples for each relation.

```
insert into branch values('SBI_Chamrajpet','Bangalore',50000),
('SBI_ResidencyRoad','Bangalore',10000),
('SBI_ShivajiRoad','Bombay',20000),
('SBI_ParliamentRoad','Delhi',10000),
('SBI_Jantarmanatar','Delhi',20000);
```

```
insert into bankaccount values (1,'SBI_Chamrajpet',2000),
(2,'SBI_ResidencyRoad',5000),
(3,'SBI_ShivajiRoad',6000),
(4,'SBI_ParliamentRoad',9000),
(5,'SBI_Jantarmanatar',8000),
(6,'SBI_ShivajiRoad',4000),
(8,'SBI_ResidencyRoad',4000),
(9,'SBI_ParliamentRoad',3000),
(10,'SBI_ResidencyRoad',5000),
(11,'SBI_Jantarmanatar',2000);
```

```
insert into bankcustomer values ('Avinash','Bull_Temple_Road','Bangalore'),
('Dinesh','Bannerghatta_Road','Bangalore'),
('Mohan','NationalCollege_Road','Bangalore'),
('Nikil','Akbar_Road','Delhi'),
('Ravi','Prithviraj_Road','Delhi');
```

```
insert into depositor values ('Avinash',1),
('Dinesh',2),
('Nikil',4),
('Ravi',5),
('Avinash',8),
('Nikil',9),
('Dinesh',10),
('Nikil',11);
```

```
insert into loan values (1,'SBI_Chamrajpet',1000),
(2,'SBI_ResidencyRoad',2000),
(3,'SBI_ShivajiRoad',3000),
(4,'SBI_ParliamentRoad',4000),
(5,'SBI_Jantarmanatar',5000);
```

	accno	branchname	balance
▶	1	SBI_Chamrajpet	2000
	2	SBI_ResidencyRoad	5000
	3	SBI_ShivajiRoad	6000
	4	SBI_ParliamentRoad	9000
	5	SBI_Jantarantar	8000
	6	SBI_ShivajiRoad	4000
	8	SBI_ResidencyRoad	4000
	9	SBI_ParliamentRoad	3000
	10	SBI_ResidencyRoad	5000
	11	SBI_Jantarantar	2000
★	NULL	NULL	NULL

	customername	customerstreet	customercity
▶	Avinash	Bull_Temple_Road	Bangalore
	Dinesh	Bannergatta_Road	Bangalore
	Mohan	NationalCollege_Road	Bangalore
	Nikil	Akbar_Road	Delhi
	Ravi	Prithviraj_Road	Delhi
★	NULL	NULL	NULL

	branchname	branchcity	assets
▶	SBI_Chamrajpet	Bangalore	50000
	SBI_Jantarantar	Delhi	20000
	SBI_ParliamentRoad	Delhi	10000
	SBI_ResidencyRoad	Bangalore	10000
	SBI_ShivajiRoad	Bombay	20000
★	NULL	NULL	NULL

	customername	accno
▶	Avinash	1
	Dinesh	2
	Nikil	4
	Ravi	5
	Avinash	8
	Nikil	9
	Dinesh	10
	Nikil	11
★	NULL	NULL

	loanno	branchname	amount
▶	1	SBI_Chamrajpet	1000
	2	SBI_ResidencyRoad	2000
	3	SBI_ShivajiRoad	3000
	4	SBI_ParliamentRoad	4000
	5	SBI_Jantarantar	5000
★	NULL	NULL	NULL

3. Display the branch name and assets from all branches in lakhs of rupees and rename the assets column to 'assets in lakhs'.

create view asset_in_lakh(branch_name,assets_in_lakhs) as select branchname,assets/100000 from branch;

	branch_name	assets_in_lakhs
▶	SBI_Chamrajpet	0.5000
	SBI_Jantarantar	0.2000
	SBI_ParliamentRoad	0.1000
	SBI_ResidencyRoad	0.1000
	SBI_ShivajiRoad	0.2000

4. Find all the customers who have at least two accounts at the same branch (ex. SBI_ResidencyRoad).

```
select customername from depositer where accno in  
(select accno from bankaccount where branchname like '%Resi%')  
group by customername having count(customername)>=2;
```

	customername
►	Dinesh

5. CREATE A VIEW WHICH GIVES EACH BRANCH THE SUM OF THE AMOUNT OF ALL THE LOANS AT THE BRANCH.

```
create view loan_total(branch_name, loan_total) as select branchname,amount from  
loan group by branchname;
```

	branch_name	loan_total
►	SBI_Chamrajpet	1000
	SBI_Jantarmantar	5000
	SBI_ParliamentRoad	4000
	SBI_ResidencyRoad	2000
	SBI_ShivajiRoad	3000