

Tejas Bharadwaj

DBMS LAB 2

BANK DATABASE

```

create database bank1;

use bank1;

create table branch(branch_name varchar(20), branch_city varchar(20), assets int, primary
key(branch_name));

create table bankaccount(acc_no int, branch_name varchar(20), balance int, primary
key(acc_no), foreign key(branch_name) references branch(branch_name));

create table bankcustomer(customer_name varchar(20), customer_street varchar(20),
customer_city varchar(20),primary key(customer_name));

create table depositer(customer_name varchar(20), acc_no int primary key, foreign
key(customer_name) references bankcustomer(customer_name));

create table loan(loan_number int primary key, branch_name varchar(20), amount int,
foreign key(branch_name) references branch(branch_name));

desc branch;

desc bankaccount;

desc bankcustomer;

desc depositer;

desc loan;

insert into branch values("SBI_Chamarajpet","Bangalore",50000),("SBI_Residency
Road","Bangalore",10000),("SBI_Shivaji Road","Bangalore",20000),("SBI_Parliament
Road","Delhi",10000),("SBI_Jantarmantra","Delhi",20000);

insert into bankaccount values(1,"SBI_Chamarajpet",2000),(2,"SBI_Residency
Road",5000),(3,"SBI_Shivaji Road",6000),(4,"SBI_Parliament
Road",9000),(5,"SBI_Jantarmantra",8000);

insert into bankcustomer values('Avinash','Bull temple
road','Bangalore'),('Dinesh','Bannerghatta road','Bangalore'),('Mohan','NationalCollege
road','Bangalore'),('Nikhil','Akbar road','Delhi'),('Ravi','Prithviraj road','Delhi');

insert into depositer values('Avinash',1),('Dinesh',2),('Nikhil',4),('Ravi',5),('Nikhil',9);

insert into loan values(1,"SBI_Chamarajpet",10000),(2,"SBI_Residency
Road",2000),(3,"SBI_Shivaji Road",3000),(4,"SBI_Parliament
Road",4000),(5,"SBI_Jantarmantra",5000);

```

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

```
select branch_name, assets/100000 as "assets in lakhs"  
from branch;
```

| branch_name | assets in lakhs |
|---------------------|-----------------|
| SBI_Chamarajpet | 0.5000 |
| SBI_Jantarmanatar | 0.2000 |
| SBI_Parliament Road | 0.1000 |
| SBI_Residency Road | 0.1000 |
| SBI_Shivaji Road | 0.2000 |

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

```
select c.customer_name
```

```
from bankcustomer c
```

```
where c.customer_name=(select customer_name from depositor group by customer_name  
having count(acc_no)>=2);
```

| customer_name |
|---------------|
| Nikhil |
| NULL |

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

```
create view branch_loan as
```

```
select branch_name, sum(amount) as total_loan
```

```
from loan
```

```
group by branch_name;
```

```
select* from branch_loan;
```

| branch_name | total_loan |
|---------------------|------------|
| SBI_Chamarajpet | 10000 |
| SBI_Jantarmanatar | 5000 |
| SBI_Parliament Road | 4000 |
| SBI_Residency Road | 2000 |
| SBI_Shivaji Road | 3000 |