Sushanth Gowda – 1BM24CS302

Bank Database

Create 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_Jantarmantar","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_Jantarmantar",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_Jantarmantar",5000);

Queries:

1. 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_Jantarmantar	0.2000
SBI_Parliament Road	0.1000
SBI_Residency Road	0.1000
SBI_Shivaji Road	0.2000

2. 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 depositer group by customer_name having count(acc_no)>=2);

customer_name
Nikhil
NULL

3. 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_Jantarmantar	5000
SBI_Parliament Road	4000
SBI_Residency Road	2000
SBI_Shivaji Road	3000