ASSIGNMENT NO: 3

Create Tables:

Account(Acc_no, branch_name,balance)

branch(branch_name,branch_city,assets)

customer(cust_name,cust_street,cust_city)

Depositor(cust_name,acc_no)

Loan(loan_no,branch_name,amount)

Borrower(cust name,loan no)

create table Account(Acc_no number, branch_name varchar primary key, balance number):

insert into Account values(200010036,'Akurdi',36000);

insert into Account values(200010050, 'Nigdi', 10000);

insert into Account values(200010075, 'Islampur', 15000);

create table Branch(branch_name varchar primary key ,branch_city varchar, Bank varchar, foreign key (branch_name) references Account(branch_name));

insert into Branch values('Akurdi', 'Pune', 'HDFC');

insert into Branch values('Nigdi','Pune','SBI');

insert into Branch values('Islampur', 'Sangli', 'BOI');

create table Customer(cust_name varchar primary key, cust_street varchar, cust_city varchar);

insert into Customer values('Tejaswini', 'Lane 1', 'Sangli');

insert into Customer values('Riya', 'Lane 10', 'Karad');

insert into Customer values('Sam', 'Lane 8', 'Pune');

create table Depositor(cust_name varchar, acc_no number, foreign key(cust_name) references Customer(cust_name));

insert into Depositor values ('Tejaswini', 200010036);

insert into Depositor values('Riya', 200010050);

insert into Depositor values('Sam', 200010075);

create table Loan(loan_no number primary key, branch_name varchar, amount number,foreign key(branch_name) references Branch(branch_name));

insert into Loan values(101, 'Akurdi', 14000);

insert into Loan values(102, 'Nigdi', 20000);

create table Borrower(cust_name varchar, loan_no number, foreign key(loan_no) references Borrower(loan_no));

insert into Borrower values('Tejaswini',101);

insert into Borrower values('Riya',102);

1. Find all customers who have an account or loan or both at bank.

select cust_name from Depositor intersect select cust_name from Borrower;

Riya

Tejaswini

2. Write SQL st	tatement returns the cities (only distinct values).
	st_city as city from Customer union select distinct branch_city as city
from Branch;	
Karad	
Pune	
Sangli	
3. Write SQL st	tatement lists all depositor and borrower.
-	.cust_name as Depositor_Name, Depositor.acc_no as
	er, null as Loan_Number from Depositor union all select
	name as Borrower_Name, null as Account_Number,
	no as Loan_Number from Borrower;
Tejaswini 20	·
Riya 2000100	·
Sam 20001007	·
Tejaswini 1	91
Riya 102	
4 Find all and	owers who have both account and last of bonk
4. Find all custo	omers who have both account and loan at bank.
5. Find all custo	omer who have account but no loan at the bank.
	e from Customer where cust_name IN (select cust_name from
_ · ·	not exists (select 1 from Borrower where Customer.cust_name =
Borrower.cust_n	iame);
Sam	
6 Calculate tot	al loan amount given by bank.
	unt) as total_loan_amount from Loan;
	,
34000	

7. Find average account balance at Akurdi

select avg(Balance) as average_balance from Account where branch_name = 'Akurdi';

36000.0

8. Find the average account balance at each branch

select b.branch_name, avg(a.balance) AS average_balance from Account a join Branch b on a.branch_name = b.branch_name group by b.branch_name;

Akurdi 36000.0 Islampur 15000.0 Nigdi 10000.0	
select b.branch_name from a.branch_name group by b. Akurdi	ere average account balance > 12000. Branch b join Account a on b.branch_name = branch_name having avg(a.balance) > 12000;
11. Find number of tuples select count(*) AS NUM_(s in customer relation. OF_TUPLES from Customer;
3	