

## SQL- Lab 4

### Question 1

#### DESCRIPTION:

The following relations keep track of a banking enterprise. Create the tables with proper primary key and references.

1. BRANCH (branch-name: varchar(10), branch-city:varchar(10), assets:numeric(8,2))
2. ACCOUNT (accno:int, branch-name:varchar(10), balance:numeric(8,2))
3. CUSTOMER (customer-no: varchar(5), customer-name:varchar(1), customer-street:varchar(15), customer-city:varchar(10))
4. LOAN (loan-number:int, branch-name:varchar(10), amount:numeric(8,2))
5. DEPOSITOR (customer-no:varchar(5), accno:int)
6. BORROWER (customer-no:varchar(5), loan-number:int)

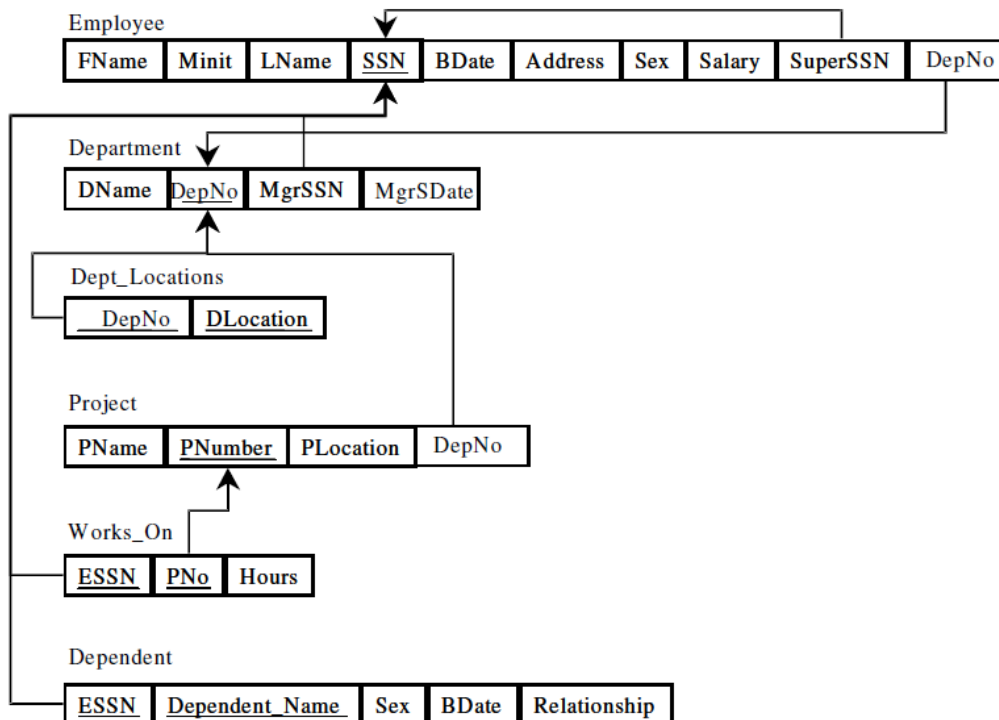
#### Queries:

Enter at least three tuples for each relation and write each of the following queries in SQL.

1. Find all the customers who have at least two accounts at the 'Main' branch.
2. Find the average account balance at the 'Kollam' branch.
3. Find the number of depositors for each branch.
4. Find the names of all branches where the average account balance is more than RS. 1,2000.
5. Find all customers who have a loan, an account, or both.
6. Find all customers who have both a loan and an account.
7. Find the number of branches that currently have loans.
8. Find the average loan amount for each branch.
9. Find all customers with more than one loan.
10. Find the total of all loan amounts

## Question 2

Consider the logical schema given below. Create tables along with the constraints based on it, insert appropriate data and answer the following queries:



1. List the names of all employees who work in department 5.
2. List the names and salaries of all employees ordered by salary.
3. List the name of employees whose salary is between 30000 and 50000.
4. List the name and salary of employees who lives in Kollam.
5. List the name of employees who doesn't have a supervisor.
6. List department number and number of employees in departments that have more than 2 employees, ordered by department number.
7. List the ESSN of employees who works on project 3388 or project 1945.
8. List the location of department 1, 3, and 5.
9. List the name of all female employees.