

Lab Assignment – 5

1. Use the BANKING Schema of lab assignment – 4.
 - a. Display all account_numbers, branch_name and corresponding branch_city.
 - b. Find the customer names and their loan numbers for all customers having a loan at some branch.
 - c. Find the name, loan number and loan amount of all customers; rename the column name *loan_number* as *loan_id*.
 - d. Find the names of all branches that have greater assets than some branch located in 'Kochi'.
 - e. Display all customers having a loan in 'Kollam' branch in the ascending order of their names.
 - f. Find all the customers who have at least two accounts at the Main branch.
 - g. Find the balances of all accounts held by the customer with name 'Mekha'.
 - h. For every customer, find the number of loans he/she owns.
 - i. Find all customers who have either an account or a loan (but not both) at the bank.
 - j. Find the number of depositors for each branch.
 - k. Find the Cartesian product borrower x loan.
2. COMPANY database:

EMPLOYEE (SSN, Fname, Lname, Address, Sex, Salary, SuperSSN, DNO)

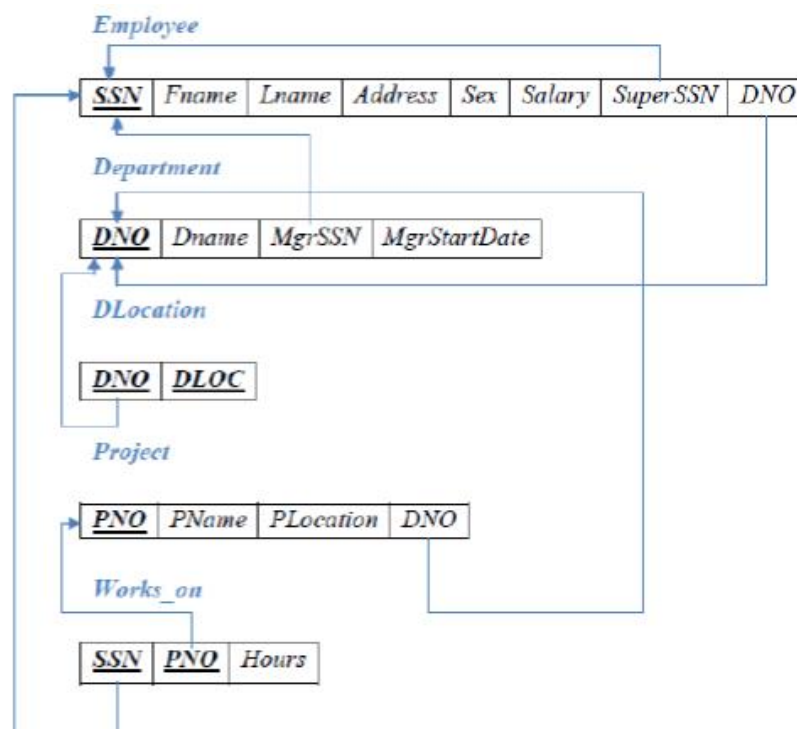
DEPARTMENT (DNO, Dname, MgrSSN, MgrStartDate)

DLOCATION (DNO, DLOC)

PROJECT (PNO, PName, PLocation, DNO)

WORKS_ON (SSN, PNO, Hours)

Schema Diagram



- a. Create the above tables by properly specifying the primary keys and the foreign keys
- b. Enter at least three tuples for each relation.
- c. Retrieve the name and address of all employees who work for the 'Research' department.
- d. For every project located in 'Stafford', list the project number, the controlling department number, and the department manager's last name, address, and birth date.
- e. Retrieve the names of all employees who do not have supervisors.
- f. Find the maximum salary, the minimum salary, and the average salary among employees who work for the 'Research' department.
- g. For each department, retrieve the department number, the number of employees in the department, and their average salary.
- h. For each project, retrieve the project number, project name, and the number of employees who work on that project.
- i. For each project on which more than two employees work, retrieve the project number, project name, and the number of employees who work on that project.
- j. Retrieve the name of each dept and number of employees working in each department which has at least 2 employees