

## **DISTRIBUTED DATABASE SYSTEMS LAB-1**

**Employee ( Eid, Ename,EAge, ECity, E\_Street, E\_House#, E\_Basic\_Salary, E\_Bonus,E\_Rank, E\_Department)**

- Eid is Primary key.
- E\_Rank can be “Manager, Developer, Admin”
- E\_Department can be “HR, CS, IT, Labour”
- Employee Age between 18 and 60.
- Default value for department is “CS”.

**Project( p\_id, pName, p\_bonus,duration\_in\_months, Eid)**

- Pid and Eid combine makes Primary key. NOTE: Eid in project is foreign key from Employee.

Write SQL Queries for the following statements. Take necessary assumptions wherever required (e.g., table data, default values, or database settings).

- 1- Display whole address of employee along with name, columns names must be “Emp Name” and “Address”.
- 2- Display 30% top records of Employees.
- 3- Display names of all those employees whose address is “house number 44, street no 25, Rwp”.
- 4- Display data of employees who lives in “isb or rwp or khi or lhr”. (do not use or keyword)
- 5- Display those employees whose age is more than 18 and less than 33. (do not use relational operators “> or <”.
- 6- Display all those employees whose name starts with “S” and does not contain “I” in it.
- 7- Display all cities of employee. (city name must not repeat)
- 8- Display All employees of “isb”. Employees must be displayed from younger to older. Younger first and older later.
- 9- Display name of employee and total salary of employee. (total salary is sum of basic salary and bonus)
- 10- Display total number of employees.
- 11- Display total number of employees working in each department.

- 12- Display Total expenditures of company. (total expenditures = basic salary + bonus of employee + all project bonus)
- 13- Display names of projects in which 'Ahmar' is working.
- 14- Display total project bonus of 'Danish'.
- 15- Display total expenditures of only those departments whose total expenditures are more than 1 Million. (total expenditures = sum of basic salary of all employees of that department)
- 16- Create Employee table.
- 17- Create Project table.
- 18- Insert a record in employee table, ( you must not enter edepartment and ebonus).
- 19- change basic salary of all employees, add increment of 5% to all.
- 20- Delete only those employees whose salary is above 1 Million. 21- Change data type employee bonus to "float".