Institute of Engineering & Management
Department of Computer Science & Engineering
Data-Base Management System Lab for 3rd year 6th semester 2019
Code: CS 691

Date: 28/02/19

WEEK-3

Problem Statement-1: Display name of employees , department name and job name for each employee.

SQL :

```
SQL> select last_name, dname as Department, job_id
  2  from new_dep right outer join new_emp
  3  on new_dep.dno=new_emp.dno;

LAST_NAME                 DEPAR JOB_ID
------------------------- ----- ----------
Higgins                   CSE   AC_MGR
Lorentz                   CSE   IT_PROG
Hunold                    CSE   IT_PROG
Baer                      ECE   PR_REP
Austin                    ECE   IT_PROG
Pataballa                 IT    IT_PROG
Ernst                     IT    IT_PROG
Greenberg                       FI_MGR

8 rows selected.
```

Problem Statement-2: Display the department name along with no of employees and average salary of that department.

SQL :

```
SQL> select dname, count(*) as count, avg(salary)
  2  from new_dep inner join new_emp
  3  on new_dep.dno=new_emp.dno group by dname;

DNAME      COUNT AVG(SALARY)
----- ---------- -----------
IT             2        5400
CSE            3        8400
ECE            2        7400
```

Problem Statement-3: For each department, find out no. of jobs the employees are assigned to.

SQL :

```
SQL> select dname, job_id as job, count(*)
  2  from new_dep inner join new_emp
  3  on new_dep.dno=new_emp.dno group by dname, job_id;
```

```
DNAME JOB          COUNT(*)
----- ---------- ----------
ECE   IT_PROG             1
IT    IT_PROG             2
CSE   IT_PROG             2
ECE   PR_REP              1
CSE   AC_MGR              1
```

Problem Statement-4: Group by the employees based on the first character of employee first name. Display the results in alphabetic order (descending) of first character.

SQL :

```
SQL> select substr(first_name,1,1) as F, count(*) from new_emp
  2  group by substr(first_name,1,1) order by f desc;

F   COUNT(*)
- ----------
V          1
S          1
N          1
H          1
D          2
B          1
A          1

7 rows selected.
```

Problem Statement-5: Display name of those employees who get a salary more than the average salary.

SQL :

```
SQL> select last_name, salary from new_emp
  2  where salary>( select avg(salary) from new_emp );

LAST_NAME                      SALARY
------------------------- ----------
Hunold                          9000
Greenberg                      12000
Baer                           10000
Higgins                        12000
```