**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

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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)

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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(\*)

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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(\*)

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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

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Hunold 9000

Greenberg 12000

Baer 10000

Higgins 12000