Database and

Management System

Lab

Lab Experiment – 10

Name: Shubhojit Mitra

Roll No: R2142230051

Sap_ID: 500123812

B.Tech CSE, SEM-III, B-2

Title: Create the following views in SQL on the COMPANY database schema presented in Experiment 2

1. A view that has the department name, manager name, and manager salary for every department.

```
CREATE VIEW dept_manager_view AS

SELECT D.Dname AS department_name, E.Fname AS manager_name, E.Salary AS

manager_salary
FROM department D

JOIN employee E ON D.Mgr_ssn = E.Ssn;

+-----+

| department_name | manager_name | manager_salary|
+-----+

| Research | Franklin | 40000.00 |

| Administration | Jennifer | 43000.00 |

+-----+
```

2. A view that has the employee name, supervisor name, and employee salary for each employee who works in the 'Research' department

3. A view that has the project name, controlling department name, number of employees, and total hours worked per week on the project for each project.

```
CREATE VIEW project_summary_view AS

SELECT P.Pname AS project_name, D.Dname AS controlling_department,

COUNT(DISTINCT W.Essn) AS num_employees, SUM(W.Hours) AS total_hours

FROM project P

JOIN department D ON P.Dnum = D.Dnumber

JOIN works_on W ON P.Pnumber = W.Pno

GROUP BY P.Pname, D.Dname;
```

4. A view that has the project name, controlling department name, number of employees, and total hours worked per week on the project for each project with more than one employee working on it.