**Database Laboratory Assignment # 3**

Create the company database with following relational schema and instance. Create relevant primary and foreign keys.



Write SQL Statements for the following queries.

1. For every project located in ‘Stafford’, list the project name, the controlling department name, and the department manager’s name, address, and birth date.
2. If every employee working on the ‘ProductX’ project is given a 10 percent raise, show the resulting salaries along with names of the employees.
3. Retrieve a list of employees and the projects they are working on, ordered by department and, within each department, ordered alphabetically by last name, then first name.
4. Retrieve the names of all employees and their direct managers in department 5 who work more than 10 hours per week on the ProductX project.
5. Retrieve the Essns of all employees who work the same (project, hours) combination on some project that employee ‘John Smith’ (whose Ssn =‘123456789’) works on. [Use nested query structure]
6. Find the sum of the salaries of all employees of the ‘Research’ department, as well as the maximum salary, the minimum salary, and the average salary in this department.
7. For each department that has more than or equal to 3 employees, retrieve the department number and the number of its employees who are making more than $30,000.
8. Create a view named “Dept\_empdetails” consisting deptwise employee count and total salary of employees. Then, insert few more employee records in the EMPLOYEE relation. Now, display the content of the view.
9. Create a view called “Payroll” with SSN, Employee Name, Dno and Salary. Display the content of the view. Now, increase salary of all employees in Dno = 5 through Payroll view. Now, Display the details of all employees from EMPLOYEE relation after the update. [THE SALARY must be automatically updated in EMPLOYEE relation]

**Deadline of Submission: 01/02/2021**