**Exercise –**

 **Department**

* dept\_id (Primary Key)
* dept\_name

 **Employee**

* emp\_id (Primary Key)
* emp\_name
* salary
* dept\_id (Foreign Key referencing Department(dept\_id))

 **Project**

* proj\_id (Primary Key)
* proj\_name
* dept\_id (Foreign Key referencing Department(dept\_id))

 **Works\_On**

* emp\_id (Foreign Key referencing Employee(emp\_id))
* proj\_id (Foreign Key referencing Project(proj\_id))
* hours\_worked

Q 1. Write SQL queries to create the tables Department, Employee, Project, and Works\_On as described above.

Q 2. Write the SQL queries to insert the sample data into all four tables.

Q 3. Write a query to retrieve all employees' names and their salaries.

Q 4. List the employee name, department name, and salary for all employees.

Q 5. List all employees and the projects they are working on.

Q 6. Find the total hours worked by each employee.

Q 7. List the names of employees whose salary is greater than the average salary of all employees.

Q 8. Find the names of departments that have no projects assigned to them.

Q 9. List the total number of hours worked on projects for each department.

Q 10. Find the highest-paid employee in each department.

Q 11. List the employees who are working on the maximum number of projects.

Q 12. Find pairs of employees who have the same salary.

Q 13. Write a query to increase the salary of employees working in the HR department by 10%.

Q 14. Delete employees who have worked less than 5 hours on any project.

Q 15. List the names of employees whose salary is greater than the average salary of their respective departments.

Q 16. List Employees Working on Projects from Their Own Department (Use join with subquery).

Q 17. List Projects with Employees Having Above Average Salary in Their Department (Use join with subquery).