

Database Management Systems Lab

Lab#8**Marks:100**

Instructions

Work on this lab individually.

You're not allowed to use Internet.

You're supposed to:

1. Insert a new employee with EMPNO 8000, ENAME 'JOHN', JOB 'ANALYST', MGR 7566, HIREDATE '2019-01-01', SAL 4000, COMM NULL, DEPTNO 20, and ensure that the ENAME is capitalized properly.
2. Update the salary (SAL) of all employees in the 'SALESMAN' job to be increased by 15%, rounded to the nearest integer.
3. Delete all employees whose HIREDATE is before '2010-01-01' and who have a NULL value in the COMM column.
4. Select the DEPTNO and the total salary (SAL + COMM) of employees in each department from the EMPLOYEE table, and order the result by the total salary in descending order.
5. Select the ENAME, JOB, and the length of service (in years) for employees whose JOB is 'MANAGER', and calculate the length of service as the difference between the current date and the HIREDATE, rounded to the nearest integer.
6. Select the DEPTNO, the average salary (SAL) of employees in each department, and the difference between the highest and lowest salary in each department, and display the result only for departments where the average salary is greater than 2000.
7. Select the ENAME and the total SAL for each TITLE from the EMP and PAY tables combined, where the ENAME in the EMP table starts with the letter 'J', grouped by TITLE, and display only those with a total SAL greater than 50000.

8. Select the ENAME, PNAME, and SAL of employees who are assigned to the same project (PNO) in the ASG table, and whose SAL is greater than the average SAL of all employees in the EMP table.
9. Select the ENAME and PNAME of employees who are assigned to projects with a BUDGET greater than 200000 in the PROJ table, and whose TITLE in the EMP table is 'Syst.Anal' or 'Anal.Eng'.
10. Select the ENAME, TITLE, and the number of assignments (count of rows) from the ASG table for each employee from the EMP table, ordered by the number of assignments in descending order.