

Revision

Topic: SQL

Write the SQL solutions for the ten queries below in order to implement them in the next lab session. Check with your tutor if you can test your answers by running the queries on a target DBMS (e.g. MySQL or Oracle)

For convenience, we are repeating the relational schema below.

DEPT (DEPTNO, DNAME, LOC);

EMP (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO);

1. Add a new employee named Swanton in department 30. Swanton unique number is 7999. Verify your update.
 2. Increase the salary of all clerks by \$500. Verify your update. *Hint: use Update command.*
 3. How much will it cost the company if we give a rise of 20% of the salary of all salesmen? *Hint: you are not updating the data, just finding out the cost.*
 4. Who is the manager of the employee Allen? Verify your answer by looking at the data in the concerned table(s).
 5. Find the total salary of all employees in the research department.
 6. What is the average salary of an employee in the company?
 7. For each manager, list his/her name plus names and jobs of all the employees he/she manages. *Hint: use aliases.*
 8. Find the subtotal salaries for all Clerks, Analysts and Salesmen. Then list the names and salaries of all employees who fit in those categories ordered by the job and salaries within that job. *Hint: use views.*
 9. For both the Accounting and the Sales departments, list the names and salaries for all their employees and the average and maximum salary within each department. *Hint: write two queries.*
 10. Sack all managers and delete all their data. *Hint: Referential integrity.*
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