

Tutorial -SQL Exercises 1

Consider the following employee database with three tables (emp, dept, salgrade).

EMP Table

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	13-JUN-83	800		20
7499	ALLEN	SALESMAN	7698	15-AUG-83	1600	300	30
7521	WARD	SALESMAN	7698	26-MAR-84	1250	500	30
7566	JONES	MANAGER	7839	31-OCT-83	2975		20
7654	MARTIN	SALESMAN	7698	05-DEC-83	1250	1400	30
7698	BLAKE	MANAGER	7839	11-JUN-84	2850		30
7782	CLARK	MANAGER	7839	14-MAY-84	2450		10
7788	SCOTT	ANALYST	7566	05-MAR-84	3000		20
7839	KING	PRESIDENT		09-JUL-84	5000		10
7844	TURNER	SALESMAN	7698	04-JUN-84	1500	0	30
7876	ADAMS	CLERK	7788	04-JUN-84	1100		20
7900	JAMES	CLERK	7698	23-JUL-84	950		30
7902	FORD	ANALYST	7566	05-DEC-83	3000		20
7934	MILLER	CLERK	7782	21-NOV-83	1300		10

DEPT Table

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

SALGRADE Table

GRADE	LOSAL	HISAL
1	700	1200
2	1201	1400
3	1401	2000
4	2001	3000
5	3001	9999

Formulate and run SQL queries for all the questions.

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1. List all the employees whose salary is between 1000 and 2000. Show employee name, department and salary.
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ENAME	DEPTNO	SAL
ALLEN	30	1600
WARD	30	1250
MARTIN	30	1250
TURNER	30	1500
ADAMS	20	1100
MILLER	10	1300

6 records selected.

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2. Display all the different types of occupations.
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JOB
ANALYST
CLERK
MANAGER
PRESIDENT
SALESMAN

5 records selected.

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3. List details of employees in departments 10 and 30.
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EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7499	ALLEN	SALESMAN	7698	15-AUG-83	1600	300	30
7521	WARD	SALESMAN	7698	26-MAR-84	1250	500	30
7654	MARTIN	SALESMAN	7698	05-DEC-83	1250	1400	30
7698	BLAKE	MANAGER	7839	11-JUN-84	2850		30
7844	TURNER	SALESMAN	7698	04-JUN-84	1500	0	30
7900	JAMES	CLERK	7698	23-JUL-84	950		30
7782	CLARK	MANAGER	7839	14-MAY 84	2450		10
7839	KING	PRESIDENT		09-JUL-84	5000		10
7934	MILLER	CLERK	7782	21-NOV-83	1300		10

9 records selected.

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4. Display all employees who were recruited during 1983, giving their name, department and hire-date.
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<u>ENAME</u>	<u>DEPTNO</u>	<u>HIREDATE</u>
SMITH	20	13-JUN-83
ALLEN	30	15-AUG-83
JONES	20	31-OCT-83
MARTIN	30	05-DEC-83
FORD	20	05-DEC-83
MILLER	10	21-NOV-83

6 records selected.

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5. List the names and jobs of all clerks in department 20.
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<u>ENAME</u>	<u>JOB</u>
SMITH	CLERK
ADAMS	CLERK

2 records selected.

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6. List the employees whose names have TH or LL in them.
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<u>ENAME</u>
SMITH
ALLEN
MILLER

3 records selected

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7. List the department numbers and names in department name order.
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<u>DEPTNO</u>	<u>DNAME</u>
10	ACCOUNTING
40	OPERATIONS
20	RESEARCH
30	SALES

4 records selected.

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8. List all the information in a table called SALGRADE.
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<u>GRADE</u>	<u>LOSAL</u>	<u>HISAL</u>
1	700	1200
2	1201	1400
3	1401	2000
4	2001	3000
5	3001	9999

5 records selected.

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9. Find the names, jobs, salaries and commissions of all employees who do not have managers.
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<u>ENAME</u>	<u>JOB</u>	<u>SAL</u>	<u>COMM</u>
KING	PRESIDENT	5000	

1 record selected.