



Databases with MySQL

Exercises *SQL Sub-Querys*

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Use the database that was provided to solve the following queries.(USE EXERCISE).

- 1) Find the employees with the lowest and highest salaries for each Job. Order by highest to lowest salary.

	ENAME	JOB	SAL
▶	KING	PRESIDENT	50000
	SCOTT	ANALYST	30000
	FORD	ANALYST	30000
	JONES	MANAGER	29000
	ALLEN	SALESMAN	16000

- 2) Find the employees with the lowest salaries for each Job. Order by salary.

	ENAME	JOB	SAL
▶	SMITH	CLERK	8000
	WARD	SALESMAN	12500
	MARTIN	SALESMAN	12500
	CLARK	MANAGER	24500
	SCOTT	ANALYST	30000
	FORD	ANALYST	30000

- 3) Find the employees that were hired most recently in each department. Order by hire date.

	DEPTNO	ENAME	HIREDATE
▶	30	JAMES	2023-12-17
	10	MILLER	2024-01-23
	20	ADAMS	2025-05-23



- 4) Show the following details for each employee earning a salary greater than the average for your department. Sort by department number.

	ENAME	SAL	DEPTNO
▶	KING	5000.00	10
	JONES	4900.00	20
	SCOTT	3000.00	20
	FORD	3000.00	20
	ALLEN	1600.00	30

- 5) Use subqueries to find the departments that don't have employees.

	DEPTNO	DNAME
▶	40	OPERATIONS

- 6) Find the following information for the department that spends most on salaries each year.

	DEPTNO	COMPENSATION
▶	20	130500.00

- 7) On what year were the greatest number of employees hired?

	YEAR	NUMBER_OF_EMPLOYEES
▶	2023	10