

Some Practice Database SQL Questions

WorksOn Database:

emp (eno, ename, bdate, title, salary, dno)

proj (pno, pname, budget, dno)

dept (dno, dname, mgreno)

workson (eno, pno, resp, hours)

DEPARTMENT TABLE (dept)

DNO	DNAME	MGRENO
D1	Consulting	1001
D2	Development	1002
D3	Research	1003

EMPLOYEE TABLE (emp)

ENO	ENAME	BDATE	TITLE	SALARY	DNO
1001	Alice	1980-03-10	Manager	85000	D1
1002	Bob	1985-07-14	EE	40000	D2
1003	Charlie	1990-01-20	SA	37000	D1
1004	David	1988-09-12	EE	32000	D3
1005	Eve	1992-11-05	Manager	90000	D2

PROJECT TABLE (proj)

PNO	PNAME	BUDGET	DNO
501	Alpha	120000	D1
502	Beta	45000	D2
503	Gamma	75000	D3
504	Delta	200000	D1

WORKSON TABLE (workson)

ENO	PNO	RESP	HOURS
1001	501	Manager	15
1002	502	Developer	8
1003	501	Consultant	12
1004	503	Tester	9
1005	504	Manager	18

SQL Practice Questions

- 1) Write an SQL query that returns the project number and name for projects with a budget greater than \$100,000.
- 2) Write an SQL query that returns all works on records where hours worked is less than 10 and the responsibility is 'Manager'.
- 3) Write an SQL query that returns the employees (number and name only) who have a title of 'EE' or 'SA' and make more than \$35,000.
- 4) Write an SQL query that returns the employees (name only) in department 'D1' ordered by decreasing salary.
- 5) Write an SQL query that returns the departments (all fields) ordered by ascending department name.
- 6) Write an SQL query that returns the employee name, department name, and employee title.
- 7) Write an SQL query that returns the project name, hours worked, and project number for all works on records where hours > 10.
- 8) Write an SQL query that returns the project name, department name, and budget for all projects with a budget < \$50,000.
- 9) Write an SQL query that returns the employee numbers and salaries of all employees in the 'Consulting' department ordered by descending salary.
- 10) Write an SQL query that returns the employee name, project name, employee title, and hours for all works on records.