

CS23401 Database Management Systems

Course Instructor: V P Jayachitra

Week 6 Assignment

Use the employee, department, project, works_on, and dependent records. (refer Company database.pdf)

Note: Add one record with YOUR name and register number in the EMPLOYEE table.

Select clause and aggregate function

1. Find employees who HAVE a supervisor
2. Find employees with middle initial
3. Count total number of employees
4. Find highest and lowest salaries
5. Count employees per department
6. Find min and max salary per department
7. Count male and female employees
8. Total hours worked per project
9. Find departments with more than 2 employees
10. Find projects with total hours > 50
11. Find employees with more than 1 dependent

String functions manipulate text data: UPPER, LOWER, SUBSTR, LENGTH, CONCAT, TRIM, REPLACE, etc

Date functions: SYSDATE (current date), MONTHS_BETWEEN (difference), ADD_MONTHS, TRUNC, EXTRACT, TO_DATE, TO_CHAR.

12. Convert names to uppercase
13. Extract city from address
14. Calculate employee age
15. Find employees born in specific year 1970

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Sub queries

1. Find all employees who earn more than the average salary
2. Find employees working in departments located in 'Houston'
3. Find employees who have at least one dependent
4. Find departments name with more than 3 employees
5. Find employees name who work on ALL projects
6. Find projects with no assigned employees
7. Find departments with no employees
8. Find second highest salary
9. Calculate age of each employee
10. Find employees with more dependents than average
11. Find employees working on all projects
12. Find department with highest average salary
13. Find employees in Research department