

Exercise 4. Column Functions and Grouping

What This Exercise Is About

This exercise provides an opportunity to work with column functions.

What You Should Be Able to Do

At the end of the lab, you should be able to:

- Code queries that use column functions

Introduction

See the data model at the start of this exercise guide to get the column names and descriptions for each table.

Required Materials

- Student handout
- *SQL Reference*

Problem List

Problem 1

For all departments, display department number and the sum of all salaries for each department. Name the derived column SUM_SALARY.

Problem 2

For all departments, display the department number and the number of employees. Name the derived column EMP_COUNT.

Problem 3

Display those departments which have more than 3 employees.

Problem 4

For all departments with at least one designer, display the number of designers and the department number. Name the derived column DESIGNER.

Problem 5

Show the average salary for men and the average salary for women for each department. Display the work department, the sex, the average salary, average bonus, average commission, and the number of people in each group. Include only those groups that have two or more people. Show only two decimal places in the averages.

Use the following names for the derived columns: AVG-SALARY, AVG-BONUS, AVG-COMM, and COUNT.

Problem 6

Display the average bonus and average commission for all departments with an average bonus greater than \$500 and an average commission greater than \$2,000. Display all averages with two digits to the right of the decimal point. Use the column headings AVG-BONUS and AVG-COMM for the derived columns.

END OF LAB