Exercise 5. UNION

What This Exercise Is About

This exercise provides an opportunity to work with the UNION keyword.

What You Should Be Able to Do

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

- Derive a final result by combining results from multiple SELECTs.

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

List the names and salaries for the non-managers working in department D21 showing the effects of a 10 percent raise. Use the following output as a guide. Apply and appropriate ORDER BY clause to achieve the required results. Use the column headings shown.

```
LASTNAME          FIRSTNME        WHEN                     SALARY
--------------    -----------     -------------      --------------
JEFFERSON         JAMES           BEFORE A RAISE         22180.000
JEFFERSON         JAMES           AFTER A RAISE          24398.000
JOHNSON           SYBIL           BEFORE A RAISE         17250.000
JOHNSON           SYBIL           AFTER A RAISE          18975.000
  ...               ...             ...                    ...
```

Problem 2

List the department number, employee number, and salaries of all employees in department A00.

For the last line of the report, display the sum of all the salaries.

Problem 3

For departments A00, B01, and C01, list the projects assigned to them and the employees in each department. The output should consist of up to three types of lines for each department as follows:

See expected results for clarification of the following instructions.

First line (one per department):

- Department number
- Text: DEPARTMENT
- Department name

Second line(s) (if data available - one line per project):

- Department number
- Project number
- Project name

Subsequent line(s) (if data available - one line per employee):

- Department number
- Employee number
- Last name

Problem 4

For all projects that have a project number that begins with IF, display the following:

First line:

- Text: PROJECT
- Project number
- The employee number of the employee responsible for the project
- Estimated starting date
- Estimated ending date

Subsequent line(s) (one per employee working on the project):

- Project number
- The employee number of the employee performing the activity
- Activity starting date
- Activity ending date

Sequence the results by the project number, then by employee number, and finally by the starting date.

END OF LAB