



**Objective:** Create SELECT queries using basic data types and associated functions

## Problem 1:

Create a query displaying the employee\_id, the last name based on table employees. Create a calculated column with an alias of Weekly Salary (case and space required). Assume that the salary column contains monthly salary and that a year has 52 weeks. Round the weekly salary result to 2 decimals. Display only those records where the last\_name column is 6 characters long. Sort it by the Weekly Salary and the last\_name.

## Problem 2:

Show the maximum min\_salary value, the minimum max\_salary, and the difference between the minimum of max\_salary and maximum of min\_salary aliased as Diff based the table jobs;

## Problem 3:

Display the last name and the commission percentage for employees working in department 20 or 80. Order by last name. Add the following two columns:

- Replace null commission values with the string 'No Commission' aliased Commission.
- Replace non-null commission\_pct values with the string 'Commission' and null values with the string 'No Commission' aliased No Commission.

## Problem 4:

Display the last name and the months between today and the hire date of employees hired after 1/1/2000. Truncate the months between result to a whole number. Use Months since 2000 as an alias. Order it by Months since 2000 in descending order.

## Problem 5:

Concatenate the last name, comma and blank space, and first name together for employees' last name starting with a B. Right pad this expression with periods (.) s to fill a 50-character length.

## Problem 6:

**Part 1:** Display the department\_id and department\_name from table departments only for those records where the department\_name column contains at least one blank space sorted by department\_name.

**Part 2:** Add the following derived column to the query in part 1:

- Display the partial department\_name following the blank space and alias it with partial.
- Make sure to remove any leading or trailing blank spaces.

**Part 3:** You notice that there is one department\_name with 3 words (= two blank spaces).

- Modify the WHERE clause so that only department\_names having two blank spaces are retrieved.
- Modify the derived column partial to display only the middle word. Alias this column with middle.
- Make sure to remove any leading or trailing blank spaces.