# Day 2 database Task

#### **Question 1: INSERT INTO and VALUE Functions**

Write an SQL query to insert a new employee into the employees table with the following details:

emp\_no: 500001

birth\_date: January 1, 1980

first name: 'Jane'

last\_name: 'Smith'

• gender: 'F'

hire\_date: Current date (use a value function like CURDATE()).

Then, insert a corresponding record into the dept\_emp table to assign Jane to department 'd005' starting today with an end date of '9999-01-01'.

## **Question 2: ALTER, CASE, and Simple JOIN**

Modify the employees table to add a new column full\_name (VARCHAR(30)). Then, update the full\_name column for all employees by concatenating first\_name and last\_name with a space in between. Use a CASE statement to set full\_name to 'Unknown' if either first\_name or last\_name is NULL. Join the employees table with the current\_dept\_emp view to only update employees currently in department 'd005'.

#### Question 3: UPDATE, WHERE, and CAST

Update the salaries table to increase the salary by 10% for employees who are currently in department 'd009' (use the current\_dept\_emp view). Ensure the salary is stored as an integer by using CAST. Only update salaries where the to\_date is '9999-01-01' (indicating current records).

### Question 4: VIEW, GROUP BY, HAVING, and Set Functions

Create a view named dept\_salary\_stats that shows the average salary (use AVG) and the number of employees (use COUNT) per department for employees currently employed (based on to\_date = '9999-01-01' in salaries). Use a simple join between salariesandcurrent\_dept\_emp. Filter the results to only show departments with an average salary greater than 60,000 using HAVING. Include the department name by joining with the departments` table.