

P5

Problem Statement:

PL/SQL: Increase salary by 10% for employees with salary less than average; log updates in increment_salary table.

Code:

```
-- P5: MySQL implementation to increase salaries below average and log
CREATE TABLE emp (
    emp_no INT PRIMARY KEY,
    salary DOUBLE
);

CREATE TABLE increment_salary (
    id INT AUTO_INCREMENT PRIMARY KEY,
    emp_no INT,
    old_salary DOUBLE,
    new_salary DOUBLE,
    updated_on TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);

-- Procedure
DELIMITER $$

CREATE PROCEDURE increase_below_avg()
BEGIN
    DECLARE avg_sal DOUBLE;
    SELECT AVG(salary) INTO avg_sal FROM emp;
    -- Update and log
    UPDATE emp
    SET salary = salary * 1.10
    WHERE salary < avg_sal;

    -- Populate increment_salary log (simple approach)
    INSERT INTO increment_salary(emp_no, old_salary, new_salary)
    SELECT emp_no, salary/1.10, salary FROM emp WHERE salary < avg_sal * 1.10;
END$$
DELIMITER ;

-- Call:
CALL increase_below_avg();
```