**Assignment-4.2 Solution**

DELIMITER //

CREATE PROCEDURE calc\_total\_salary\_per\_dept()

BEGIN

DECLARE done INT DEFAULT 0;

DECLARE v\_dept VARCHAR(100);

DECLARE v\_total\_salary DECIMAL(15,2);

-- Cursor will select distinct departments

DECLARE dept\_cursor CURSOR FOR

SELECT DISTINCT emp\_dept FROM employees;

-- Declare exit handler

DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;

-- Open cursor

OPEN dept\_cursor;

read\_loop: LOOP

FETCH dept\_cursor INTO v\_dept;

IF done = 1 THEN

LEAVE read\_loop;

END IF;

-- Calculate total salary for current department

SELECT SUM(salary)

INTO v\_total\_salary

FROM employees

WHERE emp\_dept = v\_dept;

-- Insert into summary table

INSERT INTO dept\_salary\_summary (dept\_name, total\_salary, calc\_time)

VALUES (v\_dept, v\_total\_salary, NOW());

END LOOP;

CLOSE dept\_cursor;

END //

DELIMITER ;

call calc\_total\_salary\_per\_dept();

