-- Step 1: Create the Employee table CREATE TABLE Employee ( emp\_id INT PRIMARY KEY, dept\_id INT, emp\_name VARCHAR(50), DoJ DATE, salary DECIMAL(10, 2), commission DECIMAL(10, 2), -- Initially empty (NULL) job\_title VARCHAR(50) ); -- Insert sample data (example purposes) INSERT INTO Employee (emp\_id, dept\_id, emp\_name, DoJ, salary, job\_title) VALUES (1, 101, 'Alice', TO\_DATE('2010-01-15', 'YYYY-MM-DD'), 12000, 'Manager'), (2, 102, 'Bob', TO\_DATE('2005-04-20', 'YYYY-MM-DD'), 9000, 'Senior Developer'), (3, 103, 'Charlie', TO\_DATE('2021-08-01', 'YYYY-MM-DD'), 2500, 'Intern'), (4, 101, 'David', TO\_DATE('2015-03-12', 'YYYY-MM-DD'), 5000, 'Developer'); //Task 1: Stored Procedure to Record Employee Commission CREATE OR REPLACE PROCEDURE Update\_Commission AS BEGIN FOR emp IN (SELECT emp\_id, salary, DoJ FROM Employee) LOOP **DECLARE** years\_of\_experience INT; commission\_rate DECIMAL(5, 4); BEGIN -- Calculate years of experience years\_of\_experience := FLOOR(MONTHS\_BETWEEN(SYSDATE, emp.DoJ) / 12); -- Determine commission based on conditions IF emp.salary > 10000 THEN commission\_rate := 0.004; -- 0.4% ELSIF emp.salary < 10000 AND years\_of\_experience > 10 THEN commission\_rate := 0.0035; -- 0.35% ELSIF emp.salary < 3000 THEN commission\_rate := 0.0025; -- 0.25% ELSE commission\_rate := 0.0015; -- 0.15% END IF; -- Update the employee's commission **UPDATE** Employee SET commission = emp.salary \* commission\_rate WHERE emp\_id = emp.emp\_id; END: END LOOP; -- Commit the changes COMMIT; END; EXEC Update\_Commission;

//Task 2: PL/SQL Function to Return Manager's Name by Department ID

```
CREATE OR REPLACE FUNCTION Get_Manager_Name(dept_id_param INT) RETURN VARCHAR2 AS
    manager_name VARCHAR2(50);
BEGIN
    -- Find the name of the employee who is the manager of the given department
    SELECT emp_name
    INTO manager_name
    FROM Employee
    WHERE dept_id = dept_id_param AND job_title = 'Manager'
    FETCH FIRST 1 ROWS ONLY; -- In case there are multiple managers, just return
the first one
    RETURN manager_name;
EXCEPTION
    WHEN NO_DATA_FOUND THEN
        RETURN 'No manager found';
    WHEN TOO_MANY_ROWS THEN
        RETURN 'Multiple managers found';
END;
SELECT Get_Manager_Name(101) AS Manager_Name FROM dual;
```