Cognizant PL/SQL Tasks – Exercise 3: Stored Procedures

# Scenario 1: Monthly Interest for Savings Accounts

Procedure to apply 1% interest to savings accounts.

PL/SQL Code:

CREATE OR REPLACE PROCEDURE ProcessMonthlyInterest IS  
BEGIN  
 FOR acc IN (SELECT account\_id, balance FROM savings\_accounts) LOOP  
 UPDATE savings\_accounts  
 SET balance = balance + (balance \* 0.01)  
 WHERE account\_id = acc.account\_id;  
  
 DBMS\_OUTPUT.PUT\_LINE('Interest applied to account ID: ' || acc.account\_id);  
 END LOOP;  
END;  
/

Sample Output:

Interest applied to account ID: 101  
Interest applied to account ID: 102

# Scenario 2: Employee Bonus by Department

Procedure to update employee salaries based on bonus percentage.

PL/SQL Code:

CREATE OR REPLACE PROCEDURE UpdateEmployeeBonus (  
 p\_dept\_id IN employees.department\_id%TYPE,  
 p\_bonus\_pct IN NUMBER  
) IS  
BEGIN  
 FOR emp IN (SELECT employee\_id, salary FROM employees WHERE department\_id = p\_dept\_id) LOOP  
 UPDATE employees  
 SET salary = salary + (salary \* p\_bonus\_pct / 100)  
 WHERE employee\_id = emp.employee\_id;  
  
 DBMS\_OUTPUT.PUT\_LINE('Bonus applied to Employee ID: ' || emp.employee\_id);  
 END LOOP;  
END;  
/

Sample Output:

Bonus applied to Employee ID: 201  
Bonus applied to Employee ID: 202