**Exercise 3 : Stored Procedures**

**Scenario 1 :**

Code (Input) :-

CREATE OR REPLACE PROCEDURE ProcessMonthlyInterest IS

BEGIN

FOR acc IN (

SELECT AccountID, Balance

FROM Accounts

WHERE AccountType = 'Savings'

) LOOP

UPDATE Accounts

SET Balance = acc.Balance \* 1.01

WHERE AccountID = acc.AccountID;

DBMS\_OUTPUT.PUT\_LINE('Interest applied to Account ID: ' || acc.AccountID);

END LOOP;

END;

/

BEGIN

ProcessMonthlyInterest;

END;

/

SELECT \* FROM Accounts WHERE AccountType = 'Savings';

Output :-

A screenshot of a computer

AI-generated content may be incorrect.

**Scenario 2 :**

Code (Input) :-

CREATE OR REPLACE PROCEDURE UpdateEmployeeBonus (

p\_dept IN VARCHAR2,

p\_percent IN NUMBER

) IS

BEGIN

UPDATE Employees

SET Salary = Salary + (Salary \* p\_percent / 100)

WHERE Department = p\_dept;

DBMS\_OUTPUT.PUT\_LINE('Bonus applied to department: ' || p\_dept);

END;

/

BEGIN

UpdateEmployeeBonus('IT', 10); -- 10% bonus to IT department

END;

/

SELECT Name, Department, Salary FROM Employees WHERE Department = 'IT';

Output :-

A screenshot of a computer error

AI-generated content may be incorrect.

**Scenario 3 :**

Code (Input) :-

CREATE OR REPLACE PROCEDURE TransferFunds (

p\_source\_account IN NUMBER,

p\_target\_account IN NUMBER,

p\_amount IN NUMBER

) IS

v\_source\_balance NUMBER;

BEGIN

SELECT Balance INTO v\_source\_balance

FROM Accounts

WHERE AccountID = p\_source\_account;

IF v\_source\_balance >= p\_amount THEN

UPDATE Accounts

SET Balance = Balance - p\_amount

WHERE AccountID = p\_source\_account;

UPDATE Accounts

SET Balance = Balance + p\_amount

WHERE AccountID = p\_target\_account;

DBMS\_OUTPUT.PUT\_LINE('₹' || p\_amount || ' transferred from Account ' || p\_source\_account || ' to Account ' || p\_target\_account);

ELSE

DBMS\_OUTPUT.PUT\_LINE('Transfer failed: Insufficient balance in Account ' || p\_source\_account);

END IF;

END;

/

BEGIN

TransferFunds(1, 2, 200);

END;

/

SELECT AccountID, Balance FROM Accounts;

Output :-

A screenshot of a computer

AI-generated content may be incorrect.