**Exercise 3: Stored Procedures :**

SET SERVEROUTPUT ON;

BEGIN

EXECUTE IMMEDIATE 'DROP TABLE accounts';

EXCEPTION WHEN OTHERS THEN NULL;

END;

/

BEGIN

EXECUTE IMMEDIATE 'DROP TABLE employees';

EXCEPTION WHEN OTHERS THEN NULL;

END;

/

CREATE TABLE accounts (

account\_id NUMBER PRIMARY KEY,

customer\_id NUMBER,

balance NUMBER,

account\_type VARCHAR2(20)

);

CREATE TABLE employees (

emp\_id NUMBER PRIMARY KEY,

name VARCHAR2(50),

department VARCHAR2(50),

salary NUMBER

);

INSERT INTO accounts VALUES (101, 1, 10000, 'SAVINGS');

INSERT INTO accounts VALUES (102, 2, 15000, 'CURRENT');

INSERT INTO accounts VALUES (103, 3, 20000, 'SAVINGS');

INSERT INTO employees VALUES (1, 'Ravi', 'Sales', 40000);

INSERT INTO employees VALUES (2, 'Sneha', 'Finance', 45000);

INSERT INTO employees VALUES (3, 'Ajith', 'Sales', 42000);

COMMIT;

CREATE OR REPLACE PROCEDURE ProcessMonthlyInterest IS

BEGIN

UPDATE accounts

SET balance = balance + (balance \* 0.01)

WHERE UPPER(account\_type) = 'SAVINGS';

DBMS\_OUTPUT.PUT\_LINE('Interest applied to all savings accounts.');

COMMIT;

END;

/

CREATE OR REPLACE PROCEDURE UpdateEmployeeBonus (

p\_dept IN VARCHAR2,

p\_bonus\_pct IN NUMBER

) IS

BEGIN

UPDATE employees

SET salary = salary + (salary \* p\_bonus\_pct / 100)

WHERE LOWER(department) = LOWER(p\_dept);

DBMS\_OUTPUT.PUT\_LINE('Bonus of ' || p\_bonus\_pct || '% applied to ' || p\_dept || ' department.');

COMMIT;

END;

/

CREATE OR REPLACE PROCEDURE TransferFunds (

p\_from\_account IN NUMBER,

p\_to\_account IN NUMBER,

p\_amount IN NUMBER

) IS

v\_balance NUMBER;

BEGIN

SELECT balance INTO v\_balance

FROM accounts

WHERE account\_id = p\_from\_account;

IF v\_balance < p\_amount THEN

RAISE\_APPLICATION\_ERROR(-20001, 'Not enough balance in source account.');

END IF;

UPDATE accounts

SET balance = balance - p\_amount

WHERE account\_id = p\_from\_account;

UPDATE accounts

SET balance = balance + p\_amount

WHERE account\_id = p\_to\_account;

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

COMMIT;

END;

/

BEGIN

DBMS\_OUTPUT.PUT\_LINE('----- Executing ProcessMonthlyInterest -----');

ProcessMonthlyInterest;

DBMS\_OUTPUT.PUT\_LINE('----- Executing UpdateEmployeeBonus (Sales, 10%) -----');

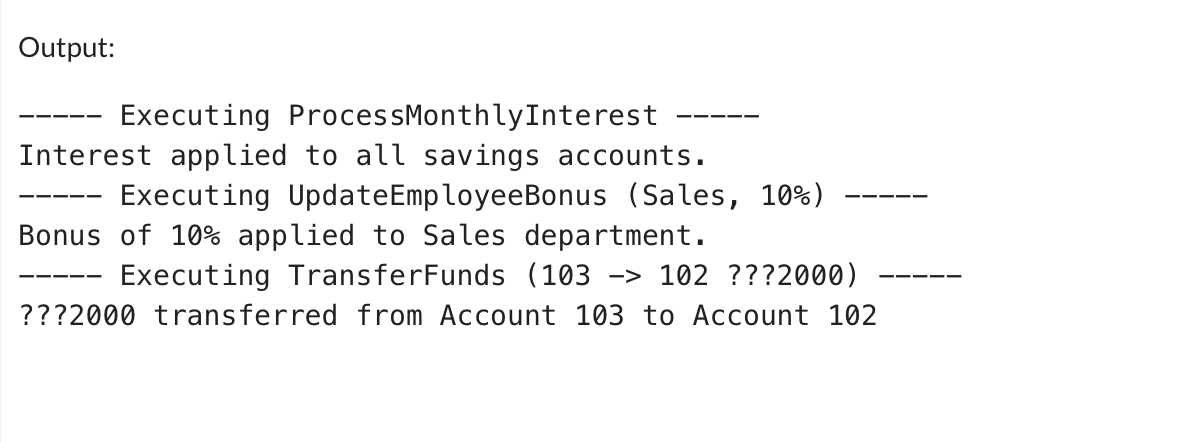
UpdateEmployeeBonus('Sales', 10);

DBMS\_OUTPUT.PUT\_LINE('----- Executing TransferFunds (103 -> 102 ₹2000) -----');

TransferFunds(103, 102, 2000);

END;

**OUTPUT :**

****