SET SERVEROUTPUT ON;

CREATE TABLE accounts (

account\_id NUMBER PRIMARY KEY,

customer\_id NUMBER,

account\_type VARCHAR2(20),

balance NUMBER

);

CREATE TABLE employees (

emp\_id NUMBER PRIMARY KEY,

name VARCHAR2(50),

department VARCHAR2(30),

salary NUMBER

);

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

INSERT INTO accounts VALUES (102, 2, 'current', 5000);

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

INSERT INTO employees VALUES (1, 'Alice', 'Sales', 50000);

INSERT INTO employees VALUES (2, 'Bob', 'HR', 45000);

INSERT INTO employees VALUES (3, 'Charlie', 'Sales', 47000);

COMMIT;

CREATE OR REPLACE PROCEDURE ProcessMonthlyInterest AS

rows\_updated NUMBER;

BEGIN

UPDATE accounts

SET balance = balance + (balance \* 0.01)

WHERE account\_type = 'savings';

rows\_updated := SQL%ROWCOUNT;

DBMS\_OUTPUT.PUT\_LINE(rows\_updated || ' savings accounts updated with interest.');

END;

/

CREATE OR REPLACE PROCEDURE UpdateEmployeeBonus(

dept IN VARCHAR2,

bonus\_pct IN NUMBER

) AS

rows\_updated NUMBER;

BEGIN

UPDATE employees

SET salary = salary + (salary \* bonus\_pct / 100)

WHERE department = dept;

rows\_updated := SQL%ROWCOUNT;

DBMS\_OUTPUT.PUT\_LINE(rows\_updated || ' employees in ' || dept || ' got bonus.');

END;

/

CREATE OR REPLACE PROCEDURE TransferFunds(

from\_account IN NUMBER,

to\_account IN NUMBER,

amount IN NUMBER

) AS

from\_balance NUMBER;

BEGIN

SELECT balance INTO from\_balance FROM accounts WHERE account\_id = from\_account FOR UPDATE;

IF from\_balance < amount THEN

RAISE\_APPLICATION\_ERROR(-20001, 'Insufficient balance.');

END IF;

UPDATE accounts SET balance = balance - amount WHERE account\_id = from\_account;

UPDATE accounts SET balance = balance + amount WHERE account\_id = to\_account;

DBMS\_OUTPUT.PUT\_LINE('Transferred ' || amount || ' from account ' || from\_account || ' to account ' || to\_account);

COMMIT;

END;

/

BEGIN

ProcessMonthlyInterest;

UpdateEmployeeBonus('Sales', 10);

TransferFunds(101, 102, 1000);

END;

/