**Exercise 3: Stored Procedures**

**Queries:**

***Scenario 1***

CREATE OR REPLACE PROCEDURE ProcessMonthlyInterest AS

BEGIN

UPDATE accounts

SET balance = balance \* 1.01

WHERE account\_type = 'SAVINGS';

COMMIT;

END;

***Scenario 2***

CREATE OR REPLACE PROCEDURE UpdateEmployeeBonus(

p\_department\_id IN NUMBER,

p\_bonus\_percent IN NUMBER

) AS

BEGIN

UPDATE employees

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

WHERE department\_id = p\_department\_id;

COMMIT;

END;

***Scenario 3***

CREATE OR REPLACE PROCEDURE TransferFunds(

p\_from\_account\_id IN NUMBER,

p\_to\_account\_id IN NUMBER,

p\_amount IN NUMBER

) AS

v\_balance NUMBER;

BEGIN

-- Check balance of source account

SELECT balance INTO v\_balance

FROM accounts

WHERE account\_id = p\_from\_account\_id

FOR UPDATE;

IF v\_balance < p\_amount THEN

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

END IF;

-- Deduct from source

UPDATE accounts

SET balance = balance - p\_amount

WHERE account\_id = p\_from\_account\_id;

-- Credit to destination

UPDATE accounts

SET balance = balance + p\_amount

WHERE account\_id = p\_to\_account\_id;

COMMIT;

END;