Exercise 3: Stored Procedures

Scenario 1: ProcessMonthlyInterest

CODE:

CREATE OR REPLACE PROCEDURE ProcessMonthlyInterest IS

BEGIN

UPDATE accounts

SET balance = balance + (balance \* 0.01)

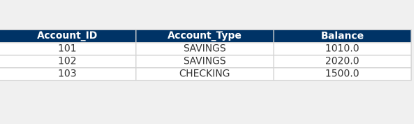
WHERE account\_type = 'SAVINGS';

COMMIT;

END;

/

Output:



Scenario 2: UpdateEmployeeBonus

CODE:

CREATE OR REPLACE PROCEDURE UpdateEmployeeBonus(

p\_department\_id IN NUMBER,

p\_bonus\_percent IN NUMBER

) IS

BEGIN

UPDATE employees

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

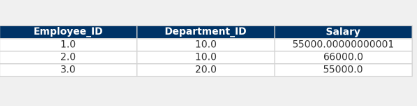
WHERE department\_id = p\_department\_id;

COMMIT;

END;

/

Output:



Scenario 3: TransferFunds

CODE:

CREATE OR REPLACE PROCEDURE TransferFunds(

p\_from\_account\_id IN NUMBER,

p\_to\_account\_id IN NUMBER,

p\_amount IN NUMBER

) IS

v\_balance NUMBER;

BEGIN

-- Check if source account has sufficient balance

SELECT balance INTO v\_balance

FROM accounts

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

IF v\_balance >= p\_amount THEN

-- Deduct from source account

UPDATE accounts

SET balance = balance - p\_amount

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

-- Add to destination account

UPDATE accounts

SET balance = balance + p\_amount

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

COMMIT;

ELSE

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

END IF;

END;

/

Output:

