**Scenario 1: Process Monthly Interest (1% for Savings Accounts)**

CREATE OR REPLACE PROCEDURE ProcessMonthlyInterest AS

BEGIN

UPDATE accounts

SET balance = balance + (balance \* 0.01)

WHERE account\_type = 'SAVINGS';

COMMIT;

END;

/

**Output:**

|  |  |
| --- | --- |
| **account\_id** | **balance** |
| 101 | 10,100.00 |

**Scenario 2: Update Employee Bonus by Department**

CREATE OR REPLACE PROCEDURE UpdateEmployeeBonus (

p\_dept\_id IN NUMBER,

p\_bonus\_percent IN NUMBER

) AS

BEGIN

UPDATE employees

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

WHERE department\_id = p\_dept\_id;

COMMIT;

END;

/

**Command:**

EXEC UpdateEmployeeBonus(10, 5);

**Output:**

|  |  |  |  |
| --- | --- | --- | --- |
| **emp\_id** | **department\_id** | **salary (before)** | **salary (after 5%)** |
| 201 | 10 | 50,000 | 52,500 |

**Scenario 3: Transfer Funds Between Accounts**

CREATE OR REPLACE PROCEDURE TransferFunds (

p\_source\_account\_id IN NUMBER,

p\_dest\_account\_id IN NUMBER,

p\_amount IN NUMBER

) AS

v\_balance NUMBER;

BEGIN

-- Check source account balance

SELECT balance INTO v\_balance FROM accounts

WHERE account\_id = p\_source\_account\_id FOR UPDATE;

IF v\_balance < p\_amount THEN

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

END IF;

-- Deduct from source

UPDATE accounts

SET balance = balance - p\_amount

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

-- Add to destination

UPDATE accounts

SET balance = balance + p\_amount

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

COMMIT;

END;

/

**Command:**

EXEC TransferFunds(101, 102, 500);

**Output:**

|  |  |  |
| --- | --- | --- |
| **account\_id** | **before** | **after** |
| 101 | 5,000 | 4,500 |
| 102 | 2,000 | 2,500 |