**Exercise 3: Stored Procedures**

For the given scenerios we mainly need 2 tables :  
1.**accounts** having main columns as accID,accType,bal

2.**employees** having mainly the columns as deptID,sal  
  
  
**Question:** Write a stored procedure **ProcessMonthlyInterest** that calculates and updates the balance of all savings accounts by applying an interest rate of 1% to the current balance.

CREATE OR REPLACE PROCEDURE ProcessMonthlyInterest IS

BEGIN

UPDATE accounts

SET bal = bal + (bal \* 0.01) WHERE accType= 'Savings';

END;

/  
  
**Question:** Write a stored procedure **UpdateEmployeeBonus** that updates the salary of employees in a given department by adding a bonus percentage passed as a parameter.

CREATE OR REPLACE PROCEDURE UpdateEmployeeBonus( dept\_id IN NUMBER,

bonus\_percent IN NUMBER) IS

BEGIN

UPDATE employees

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

WHERE deptID = dept\_id;

END;

/

**Question:** Write a stored procedure **TransferFunds** that transfers a specified amount from one account to another, checking that the source account has sufficient balance before making the transfer.

CREATE OR REPLACE PROCEDURE TransferFunds( from\_acc IN NUMBER, to\_acc IN NUMBER,

amnt IN NUMBER) IS

from\_balance NUMBER;

BEGIN

SELECT bal INTO from\_balance FROM accounts WHERE accID= from\_acc;

IF from\_balance >= amnt THEN

UPDATE accounts

SET bal = bal - amnt

WHERE accID = from\_acc;

UPDATE Accounts

SET bal = bal + amnt

WHERE accID = to\_acc;

DBMS\_OUTPUT.PUT\_LINE('Transfer successful.');

ELSE

DBMS\_OUTPUT.PUT\_LINE('Insufficient balance.');

END IF;

END;

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