Exercise 3 : Stored Procedure

CREATE OR REPLACE PROCEDURE ProcessMonthlyInterest IS

BEGIN

    FOR c\_bank IN (

        SELECT Balance, AccountType, AccountID FROM Accounts

    ) LOOP

        IF c\_bank.AccountType = 'Savings' THEN

            UPDATE Accounts

            SET Balance = Balance \* 1.01,

                LastModified = SYSDATE

            WHERE AccountID = c\_bank.AccountID;

        END IF;

    END LOOP;

END;

/

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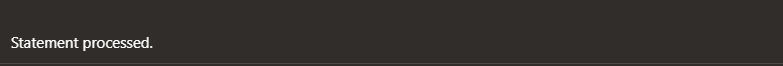
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BEGIN

ProcessMonthlyInterest;

END;

/



SELECT \* FROM Accounts;

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CREATE OR REPLACE PROCEDURE UpdateEmployeeBonus (

    p\_bonus      NUMBER,

    p\_department VARCHAR2

) IS

BEGIN

    FOR c\_employee IN (

        SELECT EmployeeID, Department, Salary FROM Employees

    ) LOOP

        IF c\_employee.Department = p\_department THEN

            UPDATE Employees

            SET Salary = Salary + p\_bonus

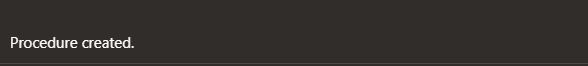
            WHERE EmployeeID = c\_employee.EmployeeID;

        END IF;

    END LOOP;

END;

/



BEGIN

UpdateEmployeeBonus(2000,'IT');

END;

/



Select \* from Employees;

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CREATE OR REPLACE PROCEDURE TransferFunds(SourceAccountID NUMBER , DestinationAccountID NUMBER,p\_amount NUMBER) IS

v\_balance Number;

MaxTransactionID NUMBER;

BEGIN

    SELECT MAX(TransactionID) into MaxTransactionID FROM Transactions;

    SELECT Balance into v\_balance FROM Accounts WHERE AccountID=SourceAccountID;

if(v\_balance < p\_amount) THEN

    dbms\_output.put\_line('Insufficient Balance');

RETURN;

END IF;

UPDATE Accounts SET Balance=Balance-p\_amount , LastModified = SYSDATE WHERE AccountID=SourceAccountID;

UPDATE Accounts SET Balance=Balance+p\_amount , LastModified = SYSDATE WHERE AccountID=DestinationAccountID;

INSERT INTO Transactions (TransactionID, AccountID, TransactionDate,Amount ,TransactionType)

VALUES (MaxTransactionID+1, SourceAccountID,SYSDATE,p\_amount,'Withdrawal');

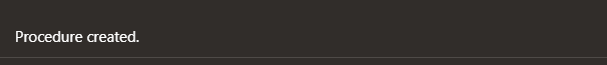
INSERT INTO Transactions (TransactionID, AccountID, TransactionDate,Amount ,TransactionType)

VALUES (MaxTransactionID+2, DestinationAccountID,SYSDATE,p\_amount,'Deposit');

dbms\_output.put\_line('Transaction was Successful');

END;

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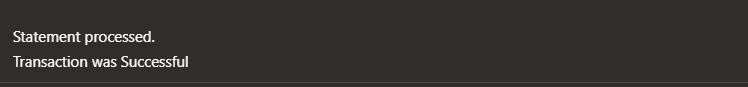


Begin

TransferFunds(1,2,200);

END;

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SELECT \* FROM Transactions;

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