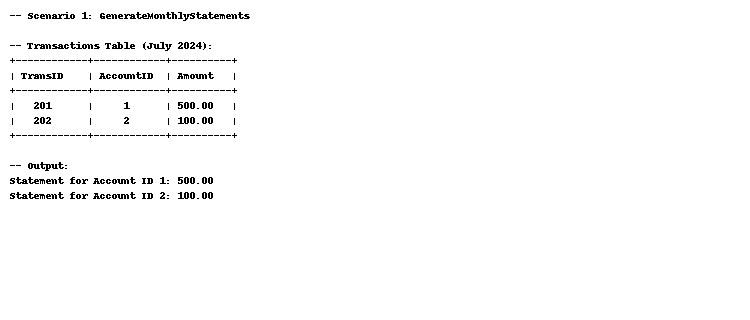
# Exercise 6: Cursors

## Scenario 1

-- Exercise 6: Cursors  
  
-- Scenario 1: GenerateMonthlyStatements  
DECLARE  
 CURSOR c\_trans IS  
 SELECT \* FROM Transactions WHERE EXTRACT(MONTH FROM TransactionDate) = EXTRACT(MONTH FROM SYSDATE);  
 rec c\_trans%ROWTYPE;  
BEGIN  
 OPEN c\_trans;  
 LOOP  
 FETCH c\_trans INTO rec;  
 EXIT WHEN c\_trans%NOTFOUND;  
 DBMS\_OUTPUT.PUT\_LINE('Statement for Account ID ' || rec.AccountID || ': ' || rec.Amount);  
 END LOOP;  
 CLOSE c\_trans;  
END;  
/

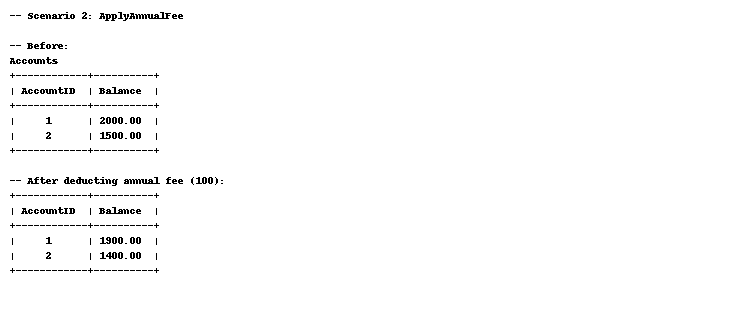
Output:



## Scenario 2

-- Scenario 2: ApplyAnnualFee  
DECLARE  
 CURSOR c\_acc IS SELECT \* FROM Accounts;  
 rec c\_acc%ROWTYPE;  
BEGIN  
 FOR rec IN c\_acc LOOP  
 UPDATE Accounts SET Balance = Balance - 100 WHERE AccountID = rec.AccountID;  
 END LOOP;  
END;  
/

Output:



## Scenario 3

-- Scenario 3: UpdateLoanInterestRates  
DECLARE  
 CURSOR c\_loan IS SELECT \* FROM Loans;  
 rec c\_loan%ROWTYPE;  
BEGIN  
 FOR rec IN c\_loan LOOP  
 UPDATE Loans SET InterestRate = InterestRate \* 1.02 WHERE LoanID = rec.LoanID;  
 END LOOP;  
END;  
/

Output:

