**Exercise 5: Triggers**

**-- Scenario 1**

CREATE OR REPLACE TRIGGER UpdateCustomerLastModified

BEFORE UPDATE ON Customers

FOR EACH ROW

BEGIN

:NEW.LastModified := SYSDATE;

END;

/

**-- Scenario 2**

CREATE OR REPLACE TRIGGER LogTransaction

AFTER INSERT ON Transactions

FOR EACH ROW

BEGIN

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

VALUES (Transactions\_SEQ.NEXTVAL, :NEW.AccountID, SYSDATE, :NEW.Amount, 'Logged');

END;

/

**-- Scenario 3**

CREATE OR REPLACE TRIGGER CheckTransactionRules

BEFORE INSERT ON Transactions

FOR EACH ROW

DECLARE

v\_Balance NUMBER;

BEGIN

SELECT Balance INTO v\_Balance FROM Accounts WHERE AccountID = :NEW.AccountID;

IF :NEW.TransactionType = 'Withdrawal' AND :NEW.Amount > v\_Balance THEN

RAISE\_APPLICATION\_ERROR(-20002, 'Insufficient Balance');

ELSIF :NEW.TransactionType = 'Deposit' AND :NEW.Amount <= 0 THEN

RAISE\_APPLICATION\_ERROR(-20003, 'Deposit must be positive');

END IF;

END;

/