# Scenario 1:

CREATE OR REPLACE TRIGGER UpdateCustomerLastModified

BEFORE UPDATE ON Customers

FOR EACH ROW

BEGIN

:NEW.LastModified := SYSDATE;

END;

/

# Scenario 2:

CREATE TABLE AuditLog (

AuditID NUMBER PRIMARY KEY,

TransactionID NUMBER,

LogDate DATE,

Description VARCHAR2(255)

);

CREATE OR REPLACE TRIGGER LogTransaction

AFTER INSERT ON Transactions

FOR EACH ROW

BEGIN

INSERT INTO AuditLog (AuditID, TransactionID, LogDate, Description)

VALUES (AuditLog\_seq.NEXTVAL, :NEW.TransactionID, SYSDATE, 'Transaction logged');

END;

/

# Scenario 3:

CREATE OR REPLACE TRIGGER CheckTransactionRules

BEFORE INSERT ON Transactions

FOR EACH ROW

DECLARE

v\_Balance NUMBER;

BEGIN

IF :NEW.TransactionType = 'Withdrawal' THEN

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

IF v\_Balance < :NEW.Amount THEN

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

END IF;

ELSIF :NEW.TransactionType = 'Deposit' THEN

IF :NEW.Amount <= 0 THEN

RAISE\_APPLICATION\_ERROR(-20002, 'Deposit amount must be positive.');

END IF;

END IF;

END;

/