-- Scenario 1

DECLARE

CURSOR cur\_customers IS

SELECT CustomerID, DOB

FROM Customers;

v\_CustomerID Customers.CustomerID%TYPE;

v\_DOB Customers.DOB%TYPE;

v\_Age NUMBER;

BEGIN

FOR rec IN cur\_customers LOOP

v\_CustomerID := rec.CustomerID;

v\_DOB := rec.DOB;

v\_Age := TRUNC(MONTHS\_BETWEEN(SYSDATE, v\_DOB) / 12);

IF v\_Age > 60 THEN

UPDATE Loans

SET InterestRate = InterestRate - 1

WHERE CustomerID = v\_CustomerID;

END IF;

END LOOP;

COMMIT;

END;

/

-- Scenario 2

ALTER TABLE Customers ADD (IsVIP VARCHAR2(5));

DECLARE

CURSOR cur\_customers IS

SELECT CustomerID, Balance

FROM Customers;

v\_CustomerID Customers.CustomerID%TYPE;

v\_Balance Customers.Balance%TYPE;

BEGIN

FOR rec IN cur\_customers LOOP

v\_CustomerID := rec.CustomerID;

v\_Balance := rec.Balance;

IF v\_Balance > 10000 THEN

UPDATE Customers

SET IsVIP = 'TRUE'

WHERE CustomerID = v\_CustomerID;

END IF;

END LOOP;

COMMIT;

END;

/

-- Scenario 3

DECLARE

CURSOR cur\_loans IS

SELECT l.LoanID, l.CustomerID, c.Name, l.EndDate

FROM Loans l

JOIN Customers c ON l.CustomerID = c.CustomerID

WHERE l.EndDate BETWEEN SYSDATE AND SYSDATE + 30;

v\_LoanID Loans.LoanID%TYPE;

v\_CustomerID Loans.CustomerID%TYPE;

v\_Name Customers.Name%TYPE;

v\_EndDate Loans.EndDate%TYPE;

BEGIN

FOR rec IN cur\_loans LOOP

v\_LoanID := rec.LoanID;

v\_CustomerID := rec.CustomerID;

v\_Name := rec.Name;

v\_EndDate := rec.EndDate;

DBMS\_OUTPUT.PUT\_LINE('Reminder: Dear ' || v\_Name || ', your loan with ID ' || v\_LoanID || ' is due on ' || v\_EndDate || '. Please ensure timely payment.');

END LOOP;

END;

/