Scenario 1: Apply a Discount to Loan Interest Rates for Customers Above 60 Years Old

DECLARE

v\_CustomerID Customers.CustomerID%TYPE;

v\_DOB Customers.DOB%TYPE;

v\_Age NUMBER;

v\_LoanID Loans.LoanID%TYPE;

v\_InterestRate Loans.InterestRate%TYPE;

BEGIN

FOR customer\_rec IN (SELECT CustomerID, DOB FROM Customers) LOOP

v\_CustomerID := customer\_rec.CustomerID;

v\_DOB := customer\_rec.DOB;

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

IF v\_Age > 60 THEN

FOR loan\_rec IN (SELECT LoanID, InterestRate FROM Loans WHERE CustomerID = v\_CustomerID) LOOP

v\_LoanID := loan\_rec.LoanID;

v\_InterestRate := loan\_rec.InterestRate;

UPDATE Loans

SET InterestRate = v\_InterestRate - 1

WHERE LoanID = v\_LoanID;

END LOOP;

END IF;

END LOOP;

COMMIT;

END;

Scenario 2: Promote Customers to VIP Status Based on Their Balance

ALTER TABLE Customers ADD (IsVIP CHAR(1));

DECLARE

v\_CustomerID Customers.CustomerID%TYPE;

v\_Balance Customers.Balance%TYPE;

BEGIN

FOR customer\_rec IN (SELECT CustomerID, Balance FROM Customers) LOOP

v\_CustomerID := customer\_rec.CustomerID;

v\_Balance := customer\_rec.Balance;

IF v\_Balance > 10000 THEN

UPDATE Customers

SET IsVIP = 'T'

WHERE CustomerID = v\_CustomerID;

ELSE

UPDATE Customers

SET IsVIP = 'F'

WHERE CustomerID = v\_CustomerID;

END IF;

END LOOP;

COMMIT;

END;

Scenario 3: Send Reminders for Loans Due Within the Next 30 Days

DECLARE

v\_CustomerID Loans.CustomerID%TYPE;

v\_CustomerName Customers.Name%TYPE;

v\_EndDate Loans.EndDate%TYPE;

BEGIN

FOR loan\_rec IN (SELECT CustomerID, EndDate FROM Loans WHERE EndDate BETWEEN SYSDATE AND SYSDATE + 30) LOOP

v\_CustomerID := loan\_rec.CustomerID;

v\_EndDate := loan\_rec.EndDate;

SELECT Name INTO v\_CustomerName

FROM Customers

WHERE CustomerID = v\_CustomerID;

DBMS\_OUTPUT.PUT\_LINE('Reminder: Loan for customer ' || v\_CustomerName || ' (CustomerID: ' || v\_CustomerID || ') is due on ' || TO\_CHAR(v\_EndDate, 'YYYY-MM-DD'));

END LOOP;

END;