**Exercise 1:**

**Scenario 1: Apply 1% Discount for Customers Above 60**

PL/SQL Implementation:

BEGIN

FOR cus IN (

SELECT

c.CustomerID,

TRUNC(MONTHS\_BETWEEN(SYSDATE, c.DOB)/12) AS age,

l.LoanID

FROM Customers c

JOIN Loans l ON c.CustomerID = l.CustomerID

)

LOOP

IF cus.age >= 60 THEN

UPDATE Loans

SET InterestRate = InterestRate - 1.0

WHERE LoanID = cus.LoanID;

DBMS\_OUTPUT.PUT\_LINE('Senior citizen discount applied for Customer ID: ' || cus.CustomerID);

END IF;

END LOOP;

COMMIT;

END;

/

**Scenario 2: Promote Customers to VIP Based on Balance**

PL/SQL Implementation:

BEGIN

FOR rec IN (

SELECT CustomerID

FROM Customers

WHERE Balance > 10000 AND NVL(IsVIP, 'N') <> 'Y'

) LOOP

UPDATE Customers

SET IsVIP = 'Y'

WHERE CustomerID = rec.CustomerID;

DBMS\_OUTPUT.PUT\_LINE('Customer ID ' || rec.CustomerID || ' promoted to VIP.');

END LOOP;

COMMIT;

END;

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**Scenario 3: Reminders for Loans Due in Next 30 Days**

PL/SQL Implementation:

DECLARE

CURSOR loan\_cursor IS

SELECT l.LoanID, c.Name, l.DueDate

FROM Loans l

JOIN Customers c ON c.CustomerID = l.CustomerID

WHERE l.DueDate BETWEEN SYSDATE AND SYSDATE + 30;

BEGIN

FOR rec IN loan\_cursor LOOP

DBMS\_OUTPUT.PUT\_LINE('Reminder: Loan ID ' || rec.LoanID ||

' for customer ' || rec.Name ||

' is due on ' || TO\_CHAR(rec.DueDate, 'DD-MON-YYYY'));

END LOOP;

END;

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