**PL/SQL:**

**Exercise 1: Control Structures**

**Scenario 1: 1% Interest Rate Discount for Customers Above 60yrs:**

SET SERVEROUTPUT ON;

BEGIN

FOR cust IN (SELECT CustomerID, TRUNC(MONTHS\_BETWEEN(SYSDATE, DOB)/12) AS Age FROM Customers) LOOP

IF cust.Age > 60 THEN

UPDATE Loans

SET InterestRate = InterestRate - (InterestRate \* 0.01)

WHERE CustomerID = cust.CustomerID;

DBMS\_OUTPUT.PUT\_LINE('Discount applied for CustomerID: ' || cust.CustomerID);

END IF;

END LOOP;

COMMIT;

END;

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**OUTPUT:**

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**Scenario 2:** A customer can be promoted to VIP status based on their balance.

SET SERVEROUTPUT ON;

DECLARE

vip\_count NUMBER := 0;

non\_vip\_count NUMBER := 0;

BEGIN

FOR cust IN (SELECT CustomerID, Balance FROM Customers) LOOP

IF cust.Balance > 10000 THEN

UPDATE Customers

SET IsVIP = 'TRUE'

WHERE CustomerID = cust.CustomerID;

vip\_count := vip\_count + 1;

ELSE

UPDATE Customers

SET IsVIP = 'FALSE'

WHERE CustomerID = cust.CustomerID;

non\_vip\_count := non\_vip\_count + 1;

END IF;

END LOOP;

COMMIT;

DBMS\_OUTPUT.PUT\_LINE('VIP Customers Updated: ' || vip\_count);

DBMS\_OUTPUT.PUT\_LINE('Non-VIP Customers Updated: ' || non\_vip\_count);

END;

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**Scenario 3:** The bank wants to send reminders to customers whose loans are due within the next 30 days.

SET SERVEROUTPUT ON;

BEGIN

FOR loan\_rec IN (

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

FROM Loans l

JOIN Customers c ON l.CustomerID = c.CustomerID

WHERE l.EndDate BETWEEN SYSDATE AND SYSDATE + 30

) LOOP

DBMS\_OUTPUT.PUT\_LINE('Reminder: Dear ' || loan\_rec.Name || ', your loan is due on ' || TO\_CHAR(loan\_rec.EndDate, 'DD-MON-YYYY') || '.');

END LOOP;

END;

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**OUTPUT:**

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