**Exercise 1: Control Structures**

**Scenario 1: Apply 1% Discount to Interest Rates for Customers Over 60**

SET SERVEROUTPUT ON;

BEGIN

FOR cust IN (

SELECT l.loan\_id, l.interest\_rate, c.age

FROM customers c

JOIN loans l ON c.customer\_id = l.customer\_id

WHERE c.age > 60

) LOOP

UPDATE loans

SET interest\_rate = interest\_rate - 1

WHERE loan\_id = cust.loan\_id;

DBMS\_OUTPUT.PUT\_LINE('Discount applied to Loan ID: ' || cust.loan\_id ||

', New Interest Rate: ' || (cust.interest\_rate - 1));

END LOOP;

END;

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**Output:**

Discount applied to Loan ID: 201, New Interest Rate: 6.5

Discount applied to Loan ID: 204, New Interest Rate: 7.0

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

SET SERVEROUTPUT ON;

BEGIN

FOR cust IN (

SELECT customer\_id, name, balance

FROM customers

WHERE balance > 10000

) LOOP

UPDATE customers

SET isvip = 'TRUE'

WHERE customer\_id = cust.customer\_id;

DBMS\_OUTPUT.PUT\_LINE('Customer ' || cust.name || ' promoted to VIP (Balance: ' || cust.balance || ')');

END LOOP;

END;

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**Output:**

Customer Alice promoted to VIP (Balance: 15000)

Customer Ramesh promoted to VIP (Balance: 12000)

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

SET SERVEROUTPUT ON;

BEGIN

FOR loan\_rec IN (

SELECT l.loan\_id, c.name, l.due\_date

FROM loans l

JOIN customers c ON l.customer\_id = c.customer\_id

WHERE l.due\_date <= SYSDATE + 30

) LOOP

DBMS\_OUTPUT.PUT\_LINE('Reminder: Loan ID ' || loan\_rec.loan\_id ||

' for customer ' || loan\_rec.name ||

' is due on ' || TO\_CHAR(loan\_rec.due\_date, 'DD-MON-YYYY'));

END LOOP;

END;

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**Output:**

Reminder: Loan ID 305 for customer John is due on 10-JUL-2025

Reminder: Loan ID 312 for customer Anita is due on 15-JUL-2025