**Exercise 1: Control Structures**

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

BEGIN

-- Update loan interest rates directly with a set-based operation

UPDATE customers

SET loan\_interest\_rate = loan\_interest\_rate \* 0.99

WHERE age > 60;

DBMS\_OUTPUT.PUT\_LINE('Discount applied to eligible customers.');

END;

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

BEGIN

-- Update VIP status directly with a set-based operation

UPDATE customers

SET is\_vip = TRUE

WHERE balance > 10000;

DBMS\_OUTPUT.PUT\_LINE('VIP status updated for eligible customers.');

END;

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

DECLARE

CURSOR loan\_cursor IS

SELECT customer\_id, loan\_due\_date

FROM loans

WHERE loan\_due\_date BETWEEN SYSDATE AND SYSDATE + 30;

v\_customer\_id loans.customer\_id%TYPE;

v\_loan\_due\_date loans.loan\_due\_date%TYPE;

BEGIN

-- Open the cursor to loop through due loans and send reminders

OPEN loan\_cursor;

LOOP

FETCH loan\_cursor INTO v\_customer\_id, v\_loan\_due\_date;

EXIT WHEN loan\_cursor%NOTFOUND;

DBMS\_OUTPUT.PUT\_LINE('Reminder: Customer ' || v\_customer\_id || ', your loan is due on ' || TO\_CHAR(v\_loan\_due\_date, 'YYYY-MM-DD'));

END LOOP;

CLOSE loan\_cursor;

DBMS\_OUTPUT.PUT\_LINE('Reminders sent for loans due within the next 30 days.');

END;

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