**Exercise 1: Control Structures**

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

DECLARE

CURSOR customer\_cursor IS

SELECT customer\_id, age, interest\_rate

FROM customers

WHERE age > 60;

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

v\_interest\_rate customers.interest\_rate%TYPE;

BEGIN

FOR customer\_rec IN customer\_cursor LOOP

v\_interest\_rate := customer\_rec.interest\_rate \* 0.99;

UPDATE customers

SET interest\_rate = v\_interest\_rate

WHERE customer\_id = customer\_rec.customer\_id;

COMMIT;

END LOOP;

END;

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**Scenario 2: Set IsVIP to TRUE for Customers with a Balance Over $10,000**

DECLARE

CURSOR balance\_cursor IS

SELECT customer\_id, balance

FROM customers

WHERE balance > 10000;

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

BEGIN

FOR balance\_rec IN balance\_cursor LOOP

UPDATE customers

SET IsVIP = TRUE

WHERE customer\_id = balance\_rec.customer\_id;

COMMIT;

END LOOP;

END;

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**Scenario 3: Send Reminders to Customers with Loans Due Within the Next 30 Days**

DECLARE

CURSOR loan\_cursor IS

SELECT loan\_id, customer\_id, due\_date

FROM loans

WHERE due\_date BETWEEN SYSDATE AND SYSDATE + 30;

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

v\_due\_date loans.due\_date%TYPE;

v\_customer\_name customers.customer\_name%TYPE;

BEGIN

FOR loan\_rec IN loan\_cursor LOOP

SELECT customer\_name

INTO v\_customer\_name

FROM customers

WHERE customer\_id = loan\_rec.customer\_id;

DBMS\_OUTPUT.PUT\_LINE(v\_customer\_name || ', your loan (ID: ' || loan\_rec.loan\_id || ') is due on ' || TO\_CHAR(loan\_rec.due\_date, 'DD-MON-YYYY') || '.');

END LOOP;

END;

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