Exercise 1: Control Structures

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Scenario 1:
DECLARE
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CURSOR customer_cursor IS
    SELECT customer_id, age, loan_interest_rate
    FROM customers;
  v_customer_id customers.customer_id%TYPE;
  v_age customers.age%TYPE;
  v_loan_interest_rate customers.loan_interest_rate%TYPE;
BEGIN
  OPEN customer_cursor;
  LOOP
    FETCH customer_cursor INTO v_customer_id, v_age, v_loan_interest_rate;
    EXIT WHEN customer_cursor%NOTFOUND;
    IF v_age > 60 THEN
      UPDATE customers
      SET loan_interest_rate = loan_interest_rate - 0.01
      WHERE customer_id = v_customer_id;
    END IF;
  END LOOP;
  CLOSE customer_cursor;
  COMMIT;
END;
Scenario 2:
DECLARE
  CURSOR customer_cursor IS
    SELECT customer_id, balance
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FROM customers;
v_customer_id customers.customer_id%TYPE;
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v_balance customers.balance%TYPE;

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BEGIN
 OPEN customer_cursor;
 LOOP
    FETCH customer_cursor INTO v_customer_id, v_balance;
    EXIT WHEN customer_cursor%NOTFOUND;
    IF v_balance > 10000 THEN
      UPDATE customers
      SET IsVIP = TRUE
     WHERE customer_id = v_customer_id;
    END IF;
 END LOOP;
 CLOSE customer_cursor;
 COMMIT;
END;
Scenario 3:
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 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 ' || v_loan_due_date);
 END LOOP;
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CLOSE loan_cursor;
END;
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