**CONTROLL STRUCTURE**

**Scenario 1:** The bank wants to apply a discount to loan interest rates for customers above 60 years old.

**CODE**

DECLARE

CURSOR cust\_cursor IS

SELECT c.customer\_id, c.date\_of\_birth, l.loan\_id, l.interest\_rate

FROM customers c

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

new\_interest\_rate LOANS.INTEREST\_RATE%TYPE;

customer\_age NUMBER;

BEGIN

FOR cust\_rec IN cust\_cursor LOOP

-- Calculate age

customer\_age := TRUNC((SYSDATE - cust\_rec.date\_of\_birth) / 365.25);

IF customer\_age > 60 THEN

-- Apply a 1% discount to the current interest rate

new\_interest\_rate := cust\_rec.interest\_rate \* 0.99;

-- Update the loan's interest rate

UPDATE loans

SET interest\_rate = new\_interest\_rate

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

END IF;

END LOOP;

-- Commit the changes

COMMIT;

EXCEPTION

WHEN OTHERS THEN

-- Rollback in case of an error

ROLLBACK;

RAISE;

END;

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

**CODE :**

DECLARE

CURSOR cust\_cursor IS

SELECT customer\_id, balance

FROM customers;

vip\_status VARCHAR2(5) := 'TRUE';

BEGIN

FOR cust\_rec IN cust\_cursor LOOP

IF cust\_rec.balance > 10000 THEN

-- Set IsVIP flag to TRUE

UPDATE customers

SET is\_vip = vip\_status

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

END IF;

END LOOP;

-- Commit the changes

COMMIT;

EXCEPTION

WHEN OTHERS THEN

-- Rollback in case of an error

ROLLBACK;

RAISE;

END;

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

**CODE :**

DECLARE

CURSOR due\_loans\_cursor IS

SELECT l.customer\_id, l.loan\_id, l.due\_date, c.customer\_name

FROM loans l

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

WHERE l.due\_date BETWEEN SYSDATE AND SYSDATE + 30;

BEGIN

FOR due\_loan\_rec IN due\_loans\_cursor LOOP

-- Print reminder message

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

END LOOP;

END;