**Example 1: Control Structures**

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

DECLARE

CURSOR customer\_cursor IS SELECT customer\_id FROM customers WHERE age > 60;

BEGIN

DBMS\_OUTPUT.PUT\_LINE('Applying senior discount...');

FOR cust\_rec IN customer\_cursor LOOP

UPDATE loans SET interest\_rate = interest\_rate - 1

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

DBMS\_OUTPUT.PUT\_LINE('Applied 1% discount to customer ' || cust\_rec.customer\_id);

END LOOP;

COMMIT;

END;

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

DECLARE

CURSOR customer\_cursor IS SELECT customer\_id FROM customers WHERE balance > 10000;

BEGIN

DBMS\_OUTPUT.PUT\_LINE('Updating VIP status...');

FOR cust\_rec IN customer\_cursor LOOP

UPDATE customers SET isVIP = 'TRUE'

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

DBMS\_OUTPUT.PUT\_LINE('Customer ' || cust\_rec.customer\_id || ' is now VIP');

END LOOP;

COMMIT;

END;

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

DECLARE

CURSOR loan\_cursor IS SELECT l.loan\_id, c.customer\_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;

BEGIN

DBMS\_OUTPUT.PUT\_LINE('Checking loan due dates...');

FOR loan\_rec IN loan\_cursor

LOOP

DBMS\_OUTPUT.PUT\_LINE(

'Reminder: ' || loan\_rec.name ||

' (ID:' || loan\_rec.customer\_id ||

') has loan ' || loan\_rec.loan\_id ||

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

);

END LOOP;

END;

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