Control Structures

1. DECLARE

v\_customer\_id NUMBER;

v\_customer\_age NUMBER;

v\_loan\_interest\_rate NUMBER;

BEGIN

FOR customer\_rec IN (SELECT customer\_id, age, loan\_interest\_rate

FROM customers

WHERE age > 60)

LOOP

v\_customer\_id := customer\_rec.customer\_id;

v\_customer\_age := customer\_rec.age;

v\_loan\_interest\_rate := customer\_rec.loan\_interest\_rate;

v\_loan\_interest\_rate := v\_loan\_interest\_rate \* 0.99;

UPDATE customers

SET loan\_interest\_rate = v\_loan\_interest\_rate

WHERE customer\_id = v\_customer\_id;

DBMS\_OUTPUT.PUT\_LINE('Customer ' || v\_customer\_id || ' (Age: ' || v\_customer\_age || ') - New interest rate: ' || v\_loan\_interest\_rate);

END LOOP;

END;

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1. ALTER TABLE Customers ADD (IsVIP VARCHAR2(3));

BEGIN

FOR customer\_rec IN (SELECT CustomerID, Balance FROM Customers)

LOOP

IF customer\_rec.Balance > 10000 THEN

UPDATE Customers

SET IsVIP = 'YES'

WHERE CustomerID = customer\_rec.CustomerID;

ELSE

UPDATE Customers

SET IsVIP = 'NO'

WHERE CustomerID = customer\_rec.CustomerID;

END IF;

END LOOP;

END;

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1. DECLARE

v\_customer\_id NUMBER;

v\_loan\_due\_date DATE;

BEGIN

FOR loan\_rec IN (SELECT customer\_id, due\_date

FROM loans

WHERE due\_date BETWEEN SYSDATE AND SYSDATE + 30)

LOOP

v\_customer\_id := loan\_rec.customer\_id;

v\_loan\_due\_date := loan\_rec.due\_date;

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

END LOOP;

END;

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