**1. Control Structure:**

**Code:**

--Customers table creation:

CREATE TABLE customers (

customer\_id NUMBER PRIMARY KEY,

customer\_name VARCHAR2(100),

age NUMBER,

balance NUMBER(10,2),

interest\_rate NUMBER(5,2),

is\_vip VARCHAR2(5) DEFAULT 'FALSE'

);

INSERT INTO customers VALUES (1, 'Srini', 65, 12000.00, 7.5, 'FALSE');

INSERT INTO customers VALUES (2, 'Rajesh', 45, 8000.00, 6.0, 'FALSE');

INSERT INTO customers VALUES (3, 'John', 70, 5000.00, 8.0, 'FALSE');

INSERT INTO customers VALUES (4, 'Dwayne', 30, 15000.00, 6.5, 'FALSE');

INSERT INTO customers VALUES (5, 'Tuco', 62, 11000.00, 7.0, 'FALSE');

--Loan Table Creation

CREATE TABLE loans (

loan\_id NUMBER PRIMARY KEY,

customer\_id NUMBER REFERENCES customers(customer\_id),

due\_date DATE

);

INSERT INTO loans VALUES (101, 1, SYSDATE + 10);

INSERT INTO loans VALUES (102, 2, SYSDATE + 45);

INSERT INTO loans VALUES (103, 3, SYSDATE + 5);

INSERT INTO loans VALUES (104, 4, SYSDATE + 29);

INSERT INTO loans VALUES (105, 5, SYSDATE - 2);

COMMIT;

-- Scenario 1:

BEGIN

UPDATE customers

SET interest\_rate = interest\_rate - (interest\_rate \* 0.01)

WHERE age > 60;

DBMS\_OUTPUT.PUT\_LINE('Updated Interest Rates for Customers over 60:');

FOR i IN (SELECT customer\_id, customer\_name, interest\_rate FROM customers WHERE age > 60) LOOP

DBMS\_OUTPUT.PUT\_LINE('Customer ID: ' || i.customer\_id || ', Name: ' || i.customer\_name || ', New Interest Rate: ' || i.interest\_rate);

END LOOP;

END;

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--Scenario 2:

BEGIN

UPDATE customers

SET is\_vip = 'TRUE'

WHERE balance > 10000;

DBMS\_OUTPUT.PUT\_LINE('VIP Customers (Balance > 10,000):');

FOR j IN (SELECT customer\_id, customer\_name, balance, is\_vip FROM customers WHERE is\_vip = 'TRUE') LOOP

DBMS\_OUTPUT.PUT\_LINE('Customer ID: ' || j.customer\_id || ', Name: ' || j.customer\_name || ', Balance: ' || j.balance || ', VIP: ' || j.is\_vip);

END LOOP;

END;

/

--Scenario 3:

DECLARE

CURSOR loan\_cursor IS

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

FROM loans l

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

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

loan\_rec loan\_cursor%ROWTYPE;

BEGIN

OPEN loan\_cursor;

LOOP

FETCH loan\_cursor INTO loan\_rec;

EXIT WHEN loan\_cursor%NOTFOUND;

DBMS\_OUTPUT.PUT\_LINE(

'Reminder: Customer ' || loan\_rec.customer\_name ||

' (ID: ' || loan\_rec.customer\_id || ') - Loan ID: ' ||

loan\_rec.loan\_id || ' is due on ' ||

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

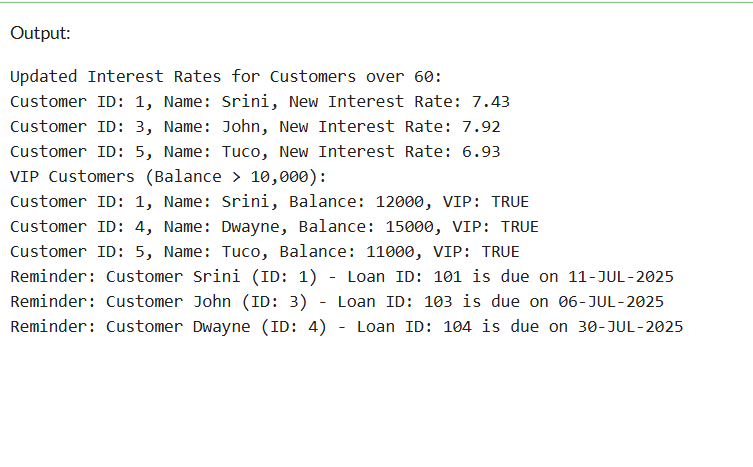
);

END LOOP;

CLOSE loan\_cursor;

END;

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**Output:**