**Exercise 1: Control Structures**

**Scenario 1: Discount for customers above 60 years old**

DECLARE

CURSOR cust\_cursor IS

SELECT cust\_id, cust\_age, loan\_rate

FROM customer\_table;

cust\_data cust\_cursor%ROWTYPE;

BEGIN

OPEN cust\_cursor;

LOOP

FETCH cust\_cursor INTO cust\_data;

EXIT WHEN cust\_cursor%NOTFOUND;

IF cust\_data.cust\_age > 60 THEN

UPDATE customer\_table

SET loan\_rate = loan\_rate - 0.01

WHERE cust\_id = cust\_data.cust\_id;

END IF;

END LOOP;

CLOSE cust\_cursor;

END;

**Scenario 2: Promote customers to VIP status based on balance**  
DECLARE

CURSOR vip\_cursor IS

SELECT cust\_id, balance\_amount

FROM customer\_table;

vip\_data vip\_cursor%ROWTYPE;

BEGIN

OPEN vip\_cursor;

LOOP

FETCH vip\_cursor INTO vip\_data;

EXIT WHEN vip\_cursor%NOTFOUND;

IF vip\_data.balance\_amount > 10000 THEN

UPDATE customer\_table

SET is\_vip = 'TRUE'

WHERE cust\_id = vip\_data.cust\_id;

END IF;

END LOOP;

CLOSE vip\_cursor;

END;

**Scenario 3: Send reminders for loans due in the next 30 days**DECLARE

CURSOR loan\_cursor IS

SELECT loan\_id, cust\_id, due\_date

FROM loan\_table

WHERE due\_date <= SYSTIMESTAMP + INTERVAL '30' DAY;

loan\_data loan\_cursor%ROWTYPE;

BEGIN

OPEN loan\_cursor;

LOOP

FETCH loan\_cursor INTO loan\_data;

EXIT WHEN loan\_cursor%NOTFOUND;

DBMS\_OUTPUT.PUT\_LINE('Reminder: Loan ' || loan\_data.loan\_id || ' for customer ' || loan\_data.cust\_id || ' is due on ' || loan\_data.due\_date);

END LOOP;

CLOSE loan\_cursor;

END;