**Exercise 6: Cursors**

**Scenario 1: Generate monthly statements for all customers**

DECLARE

CURSOR cust\_cursor IS

SELECT cust\_id, name, balance

FROM customers;

cust\_data cust\_cursor%ROWTYPE;

BEGIN

OPEN cust\_cursor;

LOOP

FETCH cust\_cursor INTO cust\_data;

EXIT WHEN cust\_cursor%NOTFOUND;

DBMS\_OUTPUT.PUT\_LINE('Statement for customer ' || cust\_data.cust\_id || ': ' || cust\_data.name);

DBMS\_OUTPUT.PUT\_LINE('Balance: ' || cust\_data.balance);

END LOOP;

CLOSE cust\_cursor;

END;

**Scenario 2: Apply annual fee to all accounts**

DECLARE

CURSOR acct\_cursor IS

SELECT account\_id, balance

FROM accounts;

acct\_data acct\_cursor%ROWTYPE;

BEGIN

OPEN acct\_cursor;

LOOP

FETCH acct\_cursor INTO acct\_data;

EXIT WHEN acct\_cursor%NOTFOUND;

UPDATE accounts

SET balance = balance - 10

WHERE account\_id = acct\_data.account\_id;

END LOOP;

CLOSE acct\_cursor;

END;

**Scenario 3: Update the interest rate for all loans based on a new policy**DECLARE

CURSOR loan\_cursor IS

SELECT loan\_id, interest\_rate

FROM loans;

loan\_data loan\_cursor%ROWTYPE;

BEGIN

OPEN loan\_cursor;

LOOP

FETCH loan\_cursor INTO loan\_data;

EXIT WHEN loan\_cursor%NOTFOUND;

UPDATE loans

SET interest\_rate = interest\_rate \* 1.05

WHERE loan\_id = loan\_data.loan\_id;

END LOOP;

CLOSE loan\_cursor;

END;