**Exercise 6: Cursors**

Scenario 1: Generate Monthly Statements

DECLARE

CURSOR c\_transactions IS

SELECT customer\_id, transaction\_id, transaction\_date, amount

FROM transactions

WHERE TO\_CHAR(transaction\_date, 'YYYY-MM') = TO\_CHAR(SYSDATE, 'YYYY-MM');

BEGIN

FOR rec IN c\_transactions LOOP

DBMS\_OUTPUT.PUT\_LINE('Customer: ' || rec.customer\_id ||

', Transaction ID: ' || rec.transaction\_id ||

', Date: ' || rec.transaction\_date ||

', Amount: ' || rec.amount);

END LOOP;

END;

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Scenario 2: Apply Annual Fee

DECLARE

CURSOR c\_accounts IS

SELECT account\_id, balance

FROM accounts;

BEGIN

FOR rec IN c\_accounts LOOP

UPDATE accounts

SET balance = balance - 100 -- assuming the fee is 100

WHERE account\_id = rec.account\_id;

END LOOP;

COMMIT;

END;

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Scenario 3: Update Loan Interest Rates

DECLARE

CURSOR c\_loans IS

SELECT loan\_id, interest\_rate

FROM loans;

BEGIN

FOR rec IN c\_loans LOOP

UPDATE loans

SET interest\_rate = rec.interest\_rate \* 1.05 -- assuming a 5% increase

WHERE loan\_id = rec.loan\_id;

END LOOP;

COMMIT;

END;

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