**Exercise 1: Control Structures**

**Queries:**

***Scenario 1***

DECLARE

CURSOR customer\_cur IS

SELECT customer\_id, age, loan\_interest\_rate

FROM customers

WHERE age > 60;

BEGIN

FOR cust\_rec IN customer\_cur LOOP

UPDATE customers

SET loan\_interest\_rate = loan\_interest\_rate - 1

WHERE customer\_id = cust\_rec.customer\_id;

END LOOP;

COMMIT;

END;

***Scenario 2***

DECLARE

CURSOR vip\_cur IS

SELECT customer\_id, balance

FROM customers

WHERE balance > 10000;

BEGIN

FOR vip\_rec IN vip\_cur LOOP

UPDATE customers

SET IsVIP = 'TRUE'

WHERE customer\_id = vip\_rec.customer\_id;

END LOOP;

COMMIT;

END;

***Scenario 3***

DECLARE

CURSOR loan\_cur IS

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

FROM loans l

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

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

BEGIN

FOR loan\_rec IN loan\_cur LOOP

DBMS\_OUTPUT.PUT\_LINE('Reminder: Customer ' || loan\_rec.name ||

' (ID: ' || loan\_rec.customer\_id ||

') has a loan due on ' || TO\_CHAR(loan\_rec.due\_date, 'DD-MON-YYYY') || '.');

END LOOP;

END;