

PL/SQL 6-1

Agustín Alejandro Mota Hinojosa

November 26, 2023

Contents

1	Vocabulary	1
2	Try/Solve it	1

1 Vocabulary

1. Explicit Cursor
2. Cursor
3. CLOSE
4. Oracle Server
5. Implicit cursor
6. OPEN
7. FETCH
8. Active set

2 Try/Solve it

1. An implicit cursor is defined by Oracle Server when you do DML statements and a explicit cursor is a user declared for queries that return one row.
2. The SELECT statement
3. Two circumstances when you need an explicit cursor:
 - (a) When you have a statement that returns more than one row.
 - (b) To produce a report of all employees
4. CURRENCIES tables:
 - (a) Display all the rows in CURRENCIES:

```
DECLARE
```

```
    CURSOR currencies_cur IS SELECT currency_code, currency_name FROM WF_CURRENCIES ORDER BY  
    v_curr_name WF_CURRENCIES.currency_name%TYPE;  
    v_curr_code WF_CURRENCIES.currency_code%TYPE;
```

```
BEGIN
```

```
    OPEN currencies_cur;
```

```

    LOOP
        FETCH currencies_cur INTO v_curr_code, v_curr_name;
        EXIT WHEN currencies_cur%NOTFOUND;
        DBMS_OUTPUT.PUT_LINE(v_curr_code || ', ' || v_curr_name);
    END LOOP;
END;
```

- (b) Read and display all the rows in the countries table where region = 5:

```

DECLARE
    CURSOR countries_cur IS SELECT
        country_name,national_holiday_name,national_holiday_date
    FROM WF_COUNTRIES WHERE REGION_ID = 5;
    v_country_name WF_COUNTRIES.country_name%TYPE;
    v_nat_holiday_name WF_COUNTRIES.national_holiday_name%TYPE;
    v_nat_holiday_date WF_COUNTRIES.national_holiday_date%TYPE;
BEGIN
    OPEN countries_cur;
    LOOP
        FETCH countries_cur INTO v_country_name, v_nat_holiday_name, v_nat_holiday_date;
        EXIT WHEN countries_cur%NOTFOUND;
        DBMS_OUTPUT.PUT_LINE(v_country_name || ', ' || v_nat_holiday_name || ', ' || v_nat_holiday_date);
    END LOOP;
END;
```

5. Three guidelines for fetching data from a cursor

- (a) Include the same number of variables in the INTO clause of the FETCH statement as columns in the SELECT statement
- (b) Match each variable to correspond to the columns position in the cursor definition.
- (c) Use %TYPE to insure data types are compatible between variable and table.