25-06-2024 Advanced Explicit Cursor Concepts Cursors with Parameters

1.DECLARE

CURSOR emp_cursor

(p deptno NUMBER, p job VARCHAR2) IS

SELECT employee_id, last_name

FROM employees

WHERE department_id = p_deptno

AND job id = p job;

BEGIN

OPEN emp cursor (80, 'SA REP');

CLOSE emp_cursor;

OPEN emp_cursor (60, 'IT_PROG');

END;

The FOR UPDATE Clause

2.DECLARE

CURSOR emp cursor IS

SELECT employee id, last name, department name

FROM employees, departments

WHERE employees.department id =

departments.department_id

AND employees.department_id = 80

FOR UPDATE OF salary NOWAIT;

The WHERE CURRENT OF Clause

3.DECLARE

CURSOR sal cursor IS

SELECT e.department id, employee id, last name, salary

FROM employees e, departments d

WHERE d.department id = e.department id

and d.department id = 60

FOR UPDATE OF salary NOWAIT;

BEGIN

FOR emp record IN sal cursor

LOOP

IF emp record.salary < 5000 THEN

UPDATE employees

SET salary = emp_record.salary * 1.10

WHERE CURRENT OF sal cursor;

END IF;

END LOOP;

END;

Handling Exceptions

Sample predefined exceptions:

- NO_DATA_FOUND
- TOO MANY ROWS
- INVALID CURSOR
- ZERO DIVIDE
- DUP_VAL_ON_INDEX

User-Defined Exception

DECLARE

e_invalid_department EXCEPTION;

BEGIN

UPDATE departments

SET department name = '&p department desc'

WHERE department id = &p department number;

IF SQL%NOTFOUND THEN

RAISE e invalid department;

END IF;

EXCEPTION

WHEN e_invalid_department THEN

DBMS OUTPUT.PUT LINE('No such department id.'); END;