



**Course Name: DBMS Lab**

**Course Code: CSEG2146**

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## Experiment 15:

**Title:** To understand the concepts of implicit and explicit cursor.

**Objective:** Students can implement the idea of implicit and explicit cursor.

1. Using implicit cursor update the salary by an increase of 10% for all the records in EMPLOYEES table, and finally display how many records have been updated. If no records exist display the message “No Change”.

```
1  DECLARE
2      v_rows_updated NUMBER;
3  BEGIN
4      UPDATE EMPLOYEES
5      SET SALARY=SALARY*1.10;
6      v_rows_updated := SQL%ROWCOUNT;
7      IF v_rows_updated>0 THEN
8          DBMS_OUTPUT.PUT_LINE(v_rows_updated || 'records updated');
9      ELSE
10         DBMS_OUTPUT.PUT_LINE('No Change');
11     END IF;
12 END;
13 /
```

Results	Explain	Describe	Saved SQL	History
1records updated				
1 row(s) updated.				

- Using explicit cursor fetch the employee name, employee\_id and salary of all the records from EMPLOYEES table.

```
1  DECLARE
2      CURSOR emp_cursor IS
3          SELECT EMPLOYEE_ID, FIRST_NAME, LAST_NAME, SALARY FROM EMPLOYEES;
4
5      v_employee_id EMPLOYEES.EMPLOYEE_ID%TYPE;
6      v_first_name EMPLOYEES.FIRST_NAME%TYPE;
7      v_last_name EMPLOYEES.LAST_NAME%TYPE;
8      v_salary EMPLOYEES.SALARY%TYPE;
9  BEGIN
10     OPEN emp_cursor;
11
12     LOOP
13         FETCH emp_cursor INTO v_employee_id, v_first_name, v_last_name, v_salary;
14
15         EXIT WHEN emp_cursor%NOTFOUND;
16
17         DBMS_OUTPUT.PUT_LINE('Employee ID: ' || v_employee_id ||
18                               ', Name: ' || v_first_name || ' ' || v_last_name ||
19                               ', Salary: ' || v_salary);
20     END LOOP;
21
22     CLOSE emp_cursor;
23 END;
24 /
```

Results	Explain	Describe	Saved SQL	History
Employee ID: 2, Name: Jane Smith, Salary: 3300 Employee ID: 3, Name: Sam Brown, Salary: 2750 Employee ID: 1, Name: John Doe, Salary: 2200 Employee ID: 4, Name: Anna Johnson, Salary: 3850  Statement processed.  0.12 seconds				

- Using explicit cursor Insert the records from EMPLOYEES table for the columns employee\_id, Last\_Name and salary for those records whose salary exceeds 2500 into a new table TEMP\_EMP

```

1 CREATE TABLE TEMP_EMP(
2     EMPLOYEE_ID NUMBER,
3     LAST_NAME VARCHAR(50),
4     SALARY NUMBER(10,2)
5 );

```

Results

Explain

Describe

Saved SQL

History

Table created.

0.03 seconds

```

1 DECLARE
2     CURSOR emp_cur IS
3         SELECT Employee_ID, Last_Name, Salary
4         FROM Employees
5         WHERE Salary > 2500;
6     v_emp_id EMPLOYEES.Employee_ID%TYPE;
7     v_last_name EMPLOYEES.Last_Name%TYPE;
8     v_salary EMPLOYEES.Salary%TYPE;
9 BEGIN
10     OPEN emp_cur;
11     LOOP
12         FETCH emp_cur INTO v_emp_id, v_last_name, v_salary;
13         EXIT WHEN emp_cur%NOTFOUND;
14         INSERT INTO TEMP_EMP (Employee_ID, Last_Name, Salary)
15         VALUES (v_emp_id, v_last_name, v_salary);
16     END LOOP;
17     CLOSE emp_cur;
18     COMMIT;
19 END;

```

1 SELECT \* FROM TEMP\_EMP;

Results

Explain

Describe

Saved SQL

History

EMPLOYEE_ID	LAST_NAME	SALARY
2	Smith	3300
3	Brown	2750
4	Johnson	3850

3 rows returned in 0.01 seconds

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