

## Exp - 12 PL/SQL Cursors

Aim : To manipulate data using PL/SQL cursors.

Cursor : A cursor is a temporary work area created in the system memory when a SQL statement is executed. A cursor contains information on a select statement & the rows of data accessed by it. This temporary work area is used to store the data retrieved from db, & manipulate this data. A cursor can hold more than one row but can process only one row at a time.

Q1 } PL/SQL to update salaries of all employees who work in deptno 20 by 15%. If none salary are updated display message 'None of the salaries were updated.'

Declare

num ~~no~~ number(5);

Begin

update emp set sal = sal + sal \* 0.15 where deptno = 20;

if SQL%NOTFOUND then

dbms\_output.put\_line('none of the salaries were updated');

elsif SQL%FOUND then

num := SQL%ROWCOUNT;



Output :-

salaries for 5 employees are updated

```
dbms_output.putline('salaries for' || num || 'employees are  
updated');  
end if;  
end;
```


Q2) Using cursors, write a PL/SQL block to display  
Empno, ename & Deptno from Emp db.

```
Declare  
Cursor C1 is select empno, ename, deptno from emp;  
  
EMPNUM EMPemp.empno % Type;  
EMPNAME emp.ename % Type;  
DEPTNUM emp.deptno % Type;  
  
Begin Open C1;  
Loop Fetch C1 into empnum, ename, deptnum;  
if C1 % notfound then  
    exit;  
else  
    dbms_output.put_line(EMPNUM || ' ' || EMPNAME || '  
    ' || DEPTNUM);  
end if;  
END Loop;  
end;
```



## Output :-

7369	Smith	20
7499	Allen	30
7521	Ward	30
7566	Jones	20
7654	Martin	30
7698	Blake	30
7782	<del>Clark</del> Clark	10
7788	Scott	20
7839	King	10
7844	Turner	30
7876	Adams	20
7900	James	30
7902	Ford	20
7934	Miller	10



Q3) Using cursors, write a PL/SQL block to find the name & salary of first five highly paid employees.

Declare

cursor c-emp is

select ename, salary

from emp

Order by salary desc;

v-ename emp.ename%Type;

v-salary emp.salary%Type;

v-counter ~~emp~~. NUMBER := 1;

Begin

OPEN c-emp;

Loop

Fetch c-emp into v-ename, v-salary;

Exit when c-emp%NOTFOUND OR v-counter > 5;

dbms\_output.put\_line('EmployeeName: ' || v-ename || 'Salary: ' ||  
v-salary);

v-counter := v-counter + 1;

END LOOP;

CLOSE c-emp;

END;



## Output

Employee Name : King      Salary : 5000

Employee Name : Ford      Salary : 3450

Employee Name : Scott      Salary : 3450

Employee Name : Jones      Salary : 3421.25

Employee Name : Blake      Salary : 2850

