

Writing PL/SQL block to demonstrate Cursors.

To write a Cursor to display the list of Employees and Total Salary Department wise.

INPUT

DECLARE

 cursor c1 is select * from dept;

 cursor c2 is select * from emp;

 s emp.sal%type;

BEGIN

 for i in c1 loop

 s:=0;

 dbms_output.put_line ('-----');

dbms_output.put_line ('Department is : ' || i.deptno || ' Department name is: ' || i.dname);

 dbms_output.put_line ('-----');

 for j in c2 loop

 if (i.deptno=j.deptno) then

 s:=s+j.sal;

 dbms_output.put_line(j.empno|| ' ' || j.ename || ' ' || j.sal);

 end if;

 end loop;

 dbms_output.put_line('-----');

 dbms_output.put_line('Total salary is: ' || s);

 dbms_output.put_line('-----');

 end loop;

END;

RESULT:

SQL> @abc

Department is :10 Department name is : ACCOUNTING

7782 CLARK 2450

7839 KING 5000

7934 MILLER 1300

Total salary is: 8750

Department is :20 Department name is:RESEARCH

7369 SMITH 800
7566 JONES 2975
7788 SCOTT 3000
7876 ADAMS 1100
7902 FORD 3000

Total salary is: 10875

Department is :30 Department name is:SALES

7499 ALLEN 1600
7521 WARD 1250
7654 MARTIN 1250
7698 BLAKE 2850
7844 TURNER 1500
7900 JAMES 950

Total salary is: 9400

Department is :40 Department name is:OPERATIONS

Total salary is: 0

PL/SQL procedure successfully completed.

Writing PL/SQL CURSOR

To write a Cursor to display the list of employees who are Working as a Managers or Analyst.

INPUT

DECLARE

```
    cursor c(jb varchar2) is select ename from emp where job=jb;  
    em emp.job%type;
```

BEGIN

```
    open c('MANAGER');  
    dbms_RESULT.put_line(' EMPLOYEES WORKING AS MANAGERS ARE:');  
    loop  
        fetch c into em;  
        exit when c%notfound;  
        dbms_RESULT.put_line(em);  
    end loop;  
    close c;
```

```
    open c('ANALYST');  
    dbms_RESULT.put_line(' EMPLOYEES WORKING AS ANALYST ARE:');  
    loop  
        fetch c into em;  
        exit when c%notfound;  
        dbms_RESULT.put_line(em);  
    end loop;  
    close c;
```

END;

RESULT:

EMPLOYEES WORKING AS MANAGERS ARE:

JONES

BLAKE

CLARK

EMPLOYEES WORKING AS ANALYST ARE:

SCOTT

FORD

PL/SQL procedure successfully completed.

Writing PL/SQL CURSOR

To write a Cursor to display List of Employees from Emp Table in PL/SQL block

INPUT

DECLARE

cursor c is select empno, ename, deptno, sal from emp ;

i emp.empno%type;

j emp.ename%type;

k emp.deptno%type;

l emp.sal%type;

BEGIN

open c;

dbms_RESULT.put_line('Empno, name, deptno, salary of employees are:= ');

loop

fetch c into i, j, k, l;

exit when c%notfound;

dbms_RESULT.put_line(i||' '||j||' '||k||' '||l);

end loop;

close c;

END;

RESULT:

SQL> @EMP

Empno,name,deptno,salary of employees are:=

7369	SMITH	20	800
7499	ALLEN	30	1600
7521	WARD	30	1250
7566	JONES	20	2975
7654	MARTIN	30	1250
7698	BLAKE	30	2850
7782	CLARK	10	2450
7788	SCOTT	20	3000
7839	KING	10	5000
7844	TURNER	30	1500
7876	ADAMS	20	1100

7900	JAMES	30	950
7902	FORD	20	3000
7934	MILLER	10	1300

PL/SQL procedure successfully completed.

Writing PL/SQL CURSOR

To write a Cursor to find employee with given job and deptno.

INPUT

DECLARE

cursor c1(j varchar2, dn number) is select empno, ename from emp where job=j and deptno=dn;

row1 emp%rowtype;

jb emp.job%type;

d emp.deptno%type;

BEGIN

jb:='&jb';

d:='&d';

open c1(jb,d);

fetch c1 into row1.empno,row1.ename;

if c1%notfound then

dbms_RESULT.put_line('Employee does not exist');

else

dbms_RESULT.put_line('empno is:'||row1.empno||' ' ||'employee name is:'|| row1.ename);

end if;

END;

RESULT:

SQL> @CUR

Enter value for jb: MANAGER

old 7: jb:='&jb';

new 7: jb:='MANAGER';

Enter value for d: 20

old 8: d:='&d';

new 8: d:=20;

empno is:7566 employee name is:JONES

PL/SQL procedure successfully completed.

```
SQL> /  
Enter value for jb: CLERK  
old 7: jb:='&jb';  
new 7: jb:='CLERK';  
Enter value for d: 40  
old 8: d:='&d';  
new 8: d:=40;  
Employee does not exist  
PL/SQL procedure successfully completed.
```