Practical 6

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Aim: To write and execute PL-SQL programs for retrieving data using a cursor and

to demonstrate various cursors. [Implicit and Explicit Cursors].

1) Write a PL-SQL block to print deptno, dname, and Count of number of

employees working in each department.(use scott schema)

```
declare
CURSOR cur_record
is
select d.deptno,dname,count(empno)as no_of_employees
from emp e full outer join dept d
on e.deptno=d.deptno
group by d.deptno,dname;

begin

for rec in cur_record loop
dbms_output.put_line(rec.deptno || ' ' || rec.dname || ' ' || ' '
|| rec.no_of_employees);
end loop;

end;
/

SQL> @D:\dbms\prac6\q1.sql
10 ACCOUNTING   3
40 OPERATIONS   0
20 RESEARCH   5
30 SALES   6
```

2) Write a PL-SQL block using cursor to print the deptno for those departments

where three or more employees are working.

```
DECLARE

CURSOR cur_record
is select deptno,count (empno)as no_of_employees
from emp
group by deptno
having count(empno)>=3;

begin
for rec in cur_record loop
dbms_output.put_line(rec.deptno || ' ' || rec.no_of_employees);
```

```
end loop;
end;
/
SQL> @D:\dbms\prac6\q2.sql
30 6
20 5
10 3

PL/SQL procedure successfully completed.
```

3) Write a PL-SQL block using cursor to print bottom five employees as per

sal.(Display empno, ename, and sal).

```
DECLARE

CURSOR cur_record
is
select empno,ename,sal
from (select * from emp order by sal)
where rownum<=5;

begin
for rec in cur_record loop
dbms_output.put_line(rec.empno || ' ' || rec.ename || ' ' ||
rec.sal);
end loop;
end;
/


SQL> @D:\dbms\prac6\q3.sql
7369 SMITH 800
7900 JAMES 950
7876 ADAMS 1100
7521 WARD 1250
7654 MARTIN 1250

PL/SQL procedure successfully completed.
```

4) Write a PL-SQL block using cursor to print the empno,ename,sal,deptno

Of those employees whose sal is greater than 2000.(use cursor for loop to

read a Record at a time).

```
declare

begin
for emp_record in (select empno,ename,sal,deptno from emp)
LOOP
IF emp_record.sal>2000 Then
```

```
    dbms_output.put_line(emp_record.empno || ' ' || emp_record.ename ||
' ' || emp_record.sal || ' '  || emp_record.sal ||
emp_record.deptno);
end IF;
end loop;
end;
/


SQL> @D:\dbms\prac6\q4.sql
7566 JONES 2975 297520
7698 BLAKE 2850 285030
7782 CLARK 2450 245010
7788 SCOTT 3000 300020
7839 KING 5000 500010
7902 FORD 3000 300020

PL/SQL procedure successfully completed.
```