**Assignment No. 06 :**

**Basic Cursor :**

declare

eid int;

en varchar(50);

sal float;

dept varchar(20);

cursor c1 is select \* from employee;

begin

open c1;

loop

fetch c1 into eid,en,sal,dept;

exit when c1%NOTFOUND;

dbms\_output.put\_line(eid||' '||en||' '||sal||' '||dept);

end loop;

close c1;

end;

/

=======================================================================================

SQL\*Plus: Release 21.0.0.0.0 - Production on Tue Sep 9 06:58:06 2025

Version 21.3.0.0.0

Copyright (c) 1982, 2021, Oracle. All rights reserved.

Enter user-name: system

Enter password:

Last Successful login time: Tue Sep 09 2025 06:11:11 +05:30

Connected to:

Oracle Database 21c Express Edition Release 21.0.0.0.0 - Production

Version 21.3.0.0.0

SQL> create table employee(eid int,ename varchar(50),salary float,dept varchar(20));

Table created.

SQL> commit;

Commit complete.

SQL> insert into employee values(101,'Edward',200000,'Testing');

1 row created.

SQL> insert into employee values(102,'Suzie',150000,'Analysis');

1 row created.

SQL> insert into employee values(103,'Kalix',300000,'Developer');

1 row created.

SQL> set serveroutput on;

SQL> @C:\Users\ASUS\Desktop\DBMS\_Practs\PLSQL\cursor.sql

101 Edward 200000 Testing

102 Suzie 150000 Analysis

103 Kalix 300000 Developer

PL/SQL procedure successfully completed.

**Parameterized cursor :**

declare

v\_dept varchar(20);

cursor c1(p\_dept employee.dept%type) is select \* from employee where dept=p\_dept;

eid number;

en varchar(50);

sal number;

f\_dept varchar(20);

begin

v\_dept:='&dept\_name';

open c1(v\_dept);

loop

fetch c1 into eid, en, sal, f\_dept;

exit when c1%NOTFOUND;

dbms\_output.put\_line(eid||' '||en||' '||sal||' '||f\_dept);

end loop;

close c1;

end;

/

=======================================================================================

SQL> desc employee;

Name Null? Type

----------------------------------------- -------- ----------------------------

EID NUMBER(38)

ENAME VARCHAR2(50)

SALARY FLOAT(126)

DEPT VARCHAR2(20)

SQL> select \* from employee;

EID ENAME SALARY

---------- -------------------------------------------------- ----------

DEPT

--------------------

101 Edward 200000

Testing

102 Suzie 150000

Analysis

103 Kalix 300000

Developer

SQL> set serveroutput on;

SQL> @C:\Users\ASUS\Desktop\DBMS\_Practs\PLSQL\p\_cur.sql

Enter value for dept\_name: Analysis

old 9: v\_dept:='&dept\_name';

new 9: v\_dept:='Analysis';

102 Suzie 150000 Analysis

PL/SQL procedure successfully completed.

**Cursor For Loop :**

declare

rec employee%rowtype;

avg\_sal float;

cursor c1 is select \* from employee for update;

begin

select avg(salary) into avg\_sal from employee;

for rec in c1 loop

if rec.salary<avg\_sal then

update employee set salary=salary+500 where current of c1;

end if;

end loop;

end;

/

=======================================================================================

SQL> @C:\Users\ASUS\Desktop\DBMS\_Practs\PLSQL\cur\_for\_loop.sql

PL/SQL procedure successfully completed.

SQL> select \* from employee;

EID ENAME SALARY

---------- -------------------------------------------------- ----------

DEPT

--------------------

101 Edward 200500

Testing

102 Suzie 150500

Analysis

103 Kalix 300000

Developer

**Cursor For Delete operation :**

declare

eid int;

en varchar(50);

sal float;

dept varchar(20);

cursor c1 is select \* from employee where salary<=200000 for update;

begin

open c1;

loop

fetch c1 into eid,en,sal,dept;

exit when c1%NOTFOUND;

delete from employee where current of c1;

end loop;

close c1;

end;

/

=======================================================================================

SQL> select \* from employee;

EID ENAME SALARY

---------- -------------------------------------------------- ----------

DEPT

--------------------

101 Edward 200500

Testing

102 Suzie 150500

Analysis

103 Kalix 300000

Developer

SQL> @C:\Users\ASUS\Desktop\DBMS\_Practs\PLSQL\cur\_updt.sql

PL/SQL procedure successfully completed.

SQL> select \* from employee;

EID ENAME SALARY

---------- -------------------------------------------------- ----------

DEPT

--------------------

101 Edward 200500

Testing

103 Kalix 300000

Developer

SQL>