**Cursor Programs**

**Simple Cursor:**

DECLARE

eid employee.empid%TYPE;

en employee.empname%TYPE;

sal employee.salary%TYPE;

dept employee.department%TYPE;

CURSOR c1 IS

SELECT empid, empname, salary, department FROM employee;

BEGIN

OPEN c1;

LOOP

FETCH c1 INTO eid, en, sal, dept;

EXIT WHEN c1%NOTFOUND;

DBMS\_OUTPUT.PUT\_LINE(eid || ' ' || en || ' ' || TO\_CHAR(sal) || ' ' || dept);

END LOOP;

CLOSE c1;

END;

/

**Cursor For loop:**

declare

cursor c1 is

select empid, emp\_sal from emp;

avg\_sal number;

begin

select avg(emp\_sal) into avg\_sal from emp;

for rec in c1 loop

if rec.emp\_sal < avg\_sal then

update emp

set emp\_sal = emp\_sal + 500

where empid = rec.empid;

end if;

end loop;

commit;

end;

/

**Cursor For Update:**

declare

empid int;

emp\_name varchar(20);

emp\_sal float;

emp\_dept varchar(20);

cursor c1 is

select \* from emp where emp\_sal < 6500 for update;

begin

open c1;

loop

fetch c1 into empid, emp\_name, emp\_sal, emp\_dept;

exit when c1%NOTFOUND;

dbms\_output.put\_line(empid || ' ' || emp\_name || ' ' || emp\_sal);

delete from emp where current of c1;

end loop;

close c1;

end;

/

**Cursor For Parameterised:**

declare

eid int;

en varchar(20);

sal float;

dept varchar(20);

nm varchar(20);

cursor c1(nm) is select \* from employee where dept=nm ;

begin

open c1(&nm);

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;

/

**Output:**

SQL\*Plus: Release 21.0.0.0.0 - Production on Tue Sep 9 12:18:21 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 12:12:59 +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 employee2(empid int,emp\_name varchar(20),emp\_sal float,emp\_dept varchar(2));

Table created.

SQL> create table emp(empid int,emp\_name varchar(20),emp\_sal float,emp\_dept varchar(20));

Table created.

SQL> insert into emp values(11,'Divya',5000,'computer');

1 row created.

SQL> insert into emp values(12,'Sejal',6000,'IT');

1 row created.

SQL> insert into emp values(13,'Kartika',9000,'AIDS');

1 row created.

SQL> insert into emp values(14,'Kaustubh',9000,'AIML');

1 row created.

SQL> insert into emp values(15,'Nil',9000,'computer');

1 row created.

SQL> desc emp;

Name Null? Type

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EMPID NUMBER(38)

EMP\_NAME VARCHAR2(20)

EMP\_SAL FLOAT(126)

EMP\_DEPT VARCHAR2(20)

SQL> select \* from emp;

EMPID EMP\_NAME EMP\_SAL EMP\_DEPT

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11 Divya 5000 computer

12 Sejal 6000 IT

13 Kartika 9000 AIDS

14 Kaustubh 9000 AIML

15 Nil 9000 computer

SQL> set serveroutput on

SQL> @C:\Users\System05\Desktop\Divya13105\cursor\_loop.sql

PL/SQL procedure successfully completed.

SQL> select empid, emp\_sal from emp;

EMPID EMP\_SAL

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11 5500

12 6500

13 9000

14 9000

15 9000

SQL> SELECT empid, emp\_name, emp\_sal, emp\_dept FROM emp ORDER BY empid;

EMPID EMP\_NAME EMP\_SAL EMP\_DEPT

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11 Divya 5500 computer

12 Sejal 6500 IT

13 Kartika 9000 AIDS

14 Kaustubh 9000 AIML

15 Nil 9000 computer

SQL> set srveroutput on

SP2-0735: unknown SET option beginning "srveroutpu..."

SQL> set serveroutput on

SQL> @C:\Users\System05\Desktop\Divya13105\cursor\_update1.sql

101 Dipa 5500

PL/SQL procedure successfully completed.

SQL> select \* from emp;

EMPID EMP\_NAME EMP\_SAL EMP\_DEPT

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12 Sejal 6500 IT

13 Kartika 9000 AIDS

14 Kaustubh 9000 AIML

15 Nil 9000 computer