**Practical no :6**

**Simple cursor**

declare

eid int;

en varchar(20);

esal float(20);

dept varchar(30);

cursor c1 is select \* from employee;

being

open c1;

loop

fetch c1 into eid,en,esal,dept;

exit when c1%NOTFOUND;

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

end loop;

close c1;

end;

/

SQL\*Plus: Release 21.0.0.0.0 - Production on Thu Sep 4 19:47:50 2025

Version 21.3.0.0.0

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Enter user-name: system

Enter password:

Last Successful login time: Thu Sep 04 2025 18:42:00 +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 (empid int ,empname varchar(20),empsal float(20), dept varchar(30));

Table created.

SQL> insert into employee values (101,'mohit',40000,'computer');

1 row created.

SQL> insert into employee values (102,'rohit',20000,'IT');

1 row created.

SQL> insert into employee values (102,'sohit',60000,'technical');

1 row created.

SQL> desc employee;

Name Null? Type

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EMPID NUMBER(38)

EMPNAME VARCHAR2(20)

EMPSAL FLOAT(20)

DEPT VARCHAR2(30)

SQL> select \* from employee;

EMPID EMPNAME EMPSAL DEPT

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101 mohit 40000 computer

102 rohit 20000 IT

102 sohit 60000 technical

SQL> set serveroutput on

SQL> @C:\Users\HP\OneDrive\Desktop\TE-A1\cursorprog.sql

101 mohit 40000 computer

102 rohit 20000 IT

102 sohit 60000 technical

PL/SQL procedure successfully completed.

**Delete /update cursor**

declare

empid int;

empname varchar(20);

empsal float;

dept varchar(20);

cursor c1 is

select \* from employee1 where empsal < 50000 for update;

begin

open c1;

loop

fetch c1 into empid,empname,empsal,dept;

exit when c1%NOTFOUND;

dbms\_output.put\_line(empid || ' ' || empname || ' ' || empsal||' '||dept);

delete from employee1 where current of c1;

end loop;

close c1;

end;

/

SQL\*Plus: Release 21.0.0.0.0 - Production on Tue Sep 9 22:29:40 2025

Version 21.3.0.0.0

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Enter user-name: system

Enter password:

Last Successful login time: Tue Sep 09 2025 22:27:34 +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 employee1 (empid int ,empname varchar(20),empsal float(20), dept varchar(30));

Table created.

SQL> insert into employee1 values (101,'mohit',40000,'computer');

1 row created.

SQL> insert into employee1 values (102,'rohit',20000,'IT');

1 row created.

SQL> insert into employee1 values (102,'sohit',60000,'technical');

1 row created.

SQL> insert into employee1 values (103,'gohit',90000,'technical');

1 row created.

SQL> insert into employee1 values (104,'priya',70000,'IT');

1 row created.

SQL> insert into employee1 values (105,'siya',80000,'computer');

1 row created.

SQL> select \* from employee1;

EMPID EMPNAME EMPSAL DEPT

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101 mohit 40000 computer

102 rohit 20000 IT

102 sohit 60000 technical

103 gohit 90000 technical

104 priya 70000 IT

105 siya 80000 computer

6 rows selected.

SQL> @C:\Users\HP\OneDrive\Desktop\TE-A1\deleteupcur.sql

101 mohit 40000 computer

102 rohit 20000 IT

PL/SQL procedure successfully completed.

SQL> select\*from employee1;

EMPID EMPNAME EMPSAL DEPT

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102 sohit 60000 technical

103 gohit 90000 technical

104 priya 70000 IT

105 siya 80000 computer

**For loop cursor :**

declare

rec employee1%rowtype;

cursor c1 is select \* from employee1 FOR UPDATE;

avg\_sal float;

begin

select avg(empsal) into avg\_sal from employee1;

for rec in c1 loop

if rec.empsal < avg\_sal then

UPDATE employee1 set empsal = empsal + 500

where current of c1;

end if;

end loop;

end;

/

SQL> @C:\Users\HP\OneDrive\Desktop\TE-A1\forcursorloop.sql

PL/SQL procedure successfully completed.

SQL> set serveroutput on

SQL> @C:\Users\HP\OneDrive\Desktop\TE-A1\forcursorloop.sql

PL/SQL procedure successfully completed.

SQL> SELECT id, name, empsal, dept FROM employee1;

SELECT id, name, empsal, dept FROM employee1

\*

ERROR at line 1:

ORA-00904: "NAME": invalid identifier

SQL> SELECT empid, empname, empsal, dept FROM employee1;

EMPID EMPNAME EMPSAL DEPT

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102 sohit 61500 technical

103 gohit 90000 technical

104 priya 71500 IT

105 siya 80000 computer

**Parameter cursor:**

declare

v\_dept varchar(20);

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

empid number;

empname varchar(50);

empsal number;

dept varchar(20);

begin

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

open c1(v\_dept);

loop

fetch c1 into empid, empname, empsal, dept;

exit when c1%NOTFOUND;

dbms\_output.put\_line(empid||' '||empname||' '||empsal||' '||dept);

end loop;

close c1;

end;

/

SQL> @C:\Users\HP\OneDrive\Desktop\TE-A1\parametercur.sql

Enter value for dept\_name: computer

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

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

PL/SQL procedure successfully completed.

SQL> select \* from employee1;

EMPID EMPNAME EMPSAL DEPT

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

102 sohit 61500 technical

103 gohit 90000 technical

104 priya 71500 IT

105 siya 80000 computer