

SQL*Plus: Release 21.0.0.0.0 - Production on Sun Sep 21 19:50:41 2025

Version 21.3.0.0.0

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Enter user-name: system

Enter password:

Last Successful login time: Sun Sep 21 2025 16:40:29 +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 product(pid int,ProductName varchar(20),price float,qty int);
```

Table created.

```
SQL> insert into product values(101,'Mobile',1200,1);
```

1 row created.

```
SQL> insert into product values(102,'Laptop',28000,2);
```

1 row created.

```
SQL> insert into product values(103,'Pc',20000,3);
```

1 row created.

```
SQL> select * from product;
```

PID	PRODUCTNAME	PRICE	QTY
101	Mobile	1200	1
102	Laptop	28000	2
103	Pc	20000	3

Code:

Implicit cursor:

declare

id int;

pname varchar(20);

price float;

qty int;

begin

id:=&id;

select pid,ProductName,price,qty into id,pname,price,qty from product where pid=id;

if sql% found then

dbms_output.put_line(id||pname||price||qty);

end if;

end;

/

Ouput:

SQL> set serveroutput on

SQL> @C:\sql\pr61.sql

Enter value for pid: 102

old 7: pid:=&pid;

new 7: pid:=102;

select pid,ProductName,price,qty into pid,pname,price,qty where pid=pid;

SQL> @C:\sql\pr61.sql

Enter value for id: 102

```
old 7: id:=&id;
new 7: id:=102;
102Laptop280002
```

PL/SQL procedure successfully completed.

```
SQL> @C:\sql\pr61.sql
```

Enter value for id: 101

```
old 7: id:=&id;
new 7: id:=101;
101Mobile12001
```

PL/SQL procedure successfully completed.

Code: Explicit Cursor

```
declare
pid int;
pname varchar(50);
pr float;
qty int;
cursor c1(p float) is select * from product where price>=p;
begin
open c1(&p);
loop
fetch c1 into pid,pname,pr,qty;
exit when c1%notfound;
dbms_output.put_line(pid||pname||pr||qty);
end loop;
close c1;
end;
/
output:
```

```
SQL> @C:\sql\pr71.sql
```

```
Enter value for p: 101
```

```
old 8: open c1(&p);
```

```
new 8: open c1(101);
```

```
dbms_output.put_line(pid||pname||price||qty);
```

```
*
```

```
ERROR at line 12:
```

```
ORA-06550: line 12, column 34:
```

```
PLS-00201: identifier 'PRICE' must be declared
```

```
ORA-06550: line 12, column 1:
```

```
PL/SQL: Statement ignored
```

```
SQL> @C:\sql\pr71.sql
```

```
Enter value for p: 101
```

```
old 8: open c1(&p);
```

```
new 8: open c1(101);
```

```
101Mobile12001
```

```
102Laptop280002
```

```
103Pc200003
```

```
PL/SQL procedure successfully completed.
```

```
SQL> @C:\sql\pr71.sql
```

```
Enter value for p: 15000
```

```
old 8: open c1(&p);
```

```
new 8: open c1(15000);
```

```
102Laptop280002
```

```
103Pc200003
```

PL/SQL procedure successfully completed.

```
SQL> @C:\sql\pr71.sql
```

Enter value for p: 20000

old 8: open c1(&p);

new 8: open c1(20000);

102Laptop280002

103Pc200003

PL/SQL procedure successfully completed.

```
SQL> 21000
```

SP2-0226: Invalid line number

```
SQL> @C:\sql\pr71.sql
```

Enter value for p: 21000

old 8: open c1(&p);

new 8: open c1(21000);

102Laptop280002

PL/SQL procedure successfully completed.

CODE: Update Cursor

declare

pid int;

pname varchar(50);

pr float;

qty int;

cursor c1(p float) is select * from product where price>p for update;

begin

open c1(&p);

loop

fetch c1 into pid,pname,pr,qty;

```
exit when c1% notfound;

update product set price=price-2000 where current of c1;

dbms_output.put_line(pid || pname || pr || qty);

end loop;

close c1;

end;
```

OUTPUT :

SQL> set serveroutput on

SQL> @C:\sql\pr72.sql

Enter value for p: 103

old 8: open c1(&p);

new 8: open c1(103);

102Laptop260002

103Pc180003

PL/SQL procedure successfully completed.

SQL> @C:\sql\pr72.sql

Enter value for p: 102

old 8: open c1(&p);

new 8: open c1(102);

102Laptop240002

103Pc160003

PL/SQL procedure successfully completed.

SQL> select * from product;

PID	PRODUCTNAME	PRICE	QTY
101	Mobile	-800	1

102 Laptop	22000	2
------------	-------	---

103 Pc	14000	3
--------	-------	---

CODE: DELETE CURSOR

```
declare
```

```
pid int;
```

```
pname varchar(50);
```

```
pr float;
```

```
qty int;
```

```
cursor c1(p float) is select * from product where price>p for update;
```

```
begin
```

```
open c1(&p);
```

```
loop
```

```
fetch c1 into pid,pname,pr,qty;
```

```
exit when c1% notfound;
```

```
delete from product where current of c1;
```

```
dbms_output.put_line(pid||pname||pr||qty);
```

```
end loop;
```

```
close c1;
```

```
end;
```

```
/
```

OUTPUT:

```
SQL> set serveroutput on
```

```
SQL> @C:\sql\pr7.sql
```

```
SP2-0310: unable to open file "C:\sql\pr7.sql"
```

```
SQL> @C:\sql\pr73.sql
```

```
Enter value for p: 102
```

```
old 8: open c1(&p);
```

```
new 8: open c1(102);
```

```
102Laptop220002
```

```
103Pc140003
```

PL/SQL procedure successfully completed.

```
SQL> @C:\sql\pr73.sql
```

Enter value for p: 101

```
old 8: open c1(&p);
```

```
new 8: open c1(101);
```

PL/SQL procedure successfully completed.

```
SQL> select * from product;
```

PID	PRODUCTNAME	PRICE	QTY
101	Mobile	-800	1

CODE:FOR LOOP

```
declare
```

```
rec product%rowtype;
```

```
cursor c1 is select * from product;
```

```
begin
```

```
for rec in c1 loop
```

```
dbms_output.put_line(rec.pid || rec.productname || rec.price || rec.qty);
```

```
end loop;
```

```
end;
```

```
/
```

OUTPUT:

```
SQL> insert into product values(102,'Laptop',28000,2);
```

1 row created.

```
SQL> insert into product values(103,'Pc',20000,3);
```


1 row created.

SQL> select * from product;

PID	PRODUCTNAME	PRICE	QTY
101	Mobile	-800	1
102	Laptop	28000	2
103	Pc	20000	3

SQL> set serveroutput on

SQL> @C:\sql\pr74.sql

101Mobile-8001

102Laptop280002

103Pc200003

PL/SQL procedure successfully completed.

SQL> select * from product;

PID	PRODUCTNAME	PRICE	QTY
101	Mobile	-800	1
102	Laptop	28000	2
103	Pc	20000	3

SQL> @C:\sql\pr74.sql

101Mobile-8001

102Laptop280002

103Pc200003

PL/SQL procedure successfully completed.