

```

declare
    discount number;
    cursor c1 is select cname,amount from customers;
    custdata c1%rowtype;
begin
    open c1;
        loop
            fetch c1 into custdata;
            exit when c1%notfound;
            if custdata.amount>=1 and custdata.amount<300 then
                discount:=custdata.amount*5/100;
            elsif custdata.amount>=300 and custdata.amount<500 then
                discount:=custdata.amount*7/100;
            else
                discount:=custdata.amount*10/100;
            end if;
            dbms_output.put_line('Name ' || custdata.cname);
            dbms_output.put_line('Amount ' || custdata.amount);
            dbms_output.put_line('Discount ' || discount);
            dbms_output.put_line('-----');
        end loop;

    close c1;
end;
/

```

```

-----

declare
    cursor c1(dno number) is select sum(amount) ,count(*) from customers where
dept=dno;
    total number;
    av number;
    cnt number;
    x number;
begin
    x:=&x;
    open c1(x);
    if c1%isopen then
        dbms_output.put_line('Cursor is open');
    else
        dbms_output.put_line('Cursor is close');
    end if;

    fetch c1 into total,cnt;
    av:=total/cnt;

```

```
dbms_output.put_line('Average amount of dept ' || x || ' is ' || av);
close c1;
```

```
end;
/
```

```
-----
declare
```

```
    cnt number;
```

```
begin
```

```
    update customers set amount=amount+100 where dept=&dno;
```

```
    if sql%notfound then
```

```
        dbms_output.put_line('No such dept');
```

```
    end if;
```

```
    cnt:=sql%rowcount;
```

```
    dbms_output.put_line(cnt || ' records updated');
```

```
end;
/
```

```
=====
==
```

```
=====
==
```

```
SQL*Plus: Release 10.2.0.1.0 - Production on Thu Dec 11 08:40:50 2025
```

```
Copyright (c) 1982, 2005, Oracle. All rights reserved.
```

```
SQL> connect
```

```
Enter user-name: prince
```

```
Enter password:
```

```
Connected.
```

```
SQL> ed c:/oracle/cur1.sql
```

```
SQL> ed c:/oracle/cur5.sql
```

```
SQL> select * from customers;
```

	CNO	CNAME	AMOUNT	DOJ	CONTACT	DEPT	CITY
1	Ravi	495	10-APR-20	9983	10	Indore	
2	Sumit	715	13-APR-20	8832	20	Sagar	
3	Ajay	165	30-SEP-22		10	Sagar	
4	Vijay	935	15-FEB-23		30	Indore	
5	Sanjay	385	10-APR-20		10	Indore	
6	Gourav	55	03-NOV-25		20	Sagar	
7	Sourav	120	06-NOV-25		10	Sagar	
8	Raja	230	04-OCT-25		20	Bhopal	
9	Rani	260	16-MAY-23		30	Bhopal	

10 rows selected.

SQL> ed c:/oracle/cur5.sql

```
SQL> @ c:/oracle/cur5.sql
      end loop;
      *
```

ERROR at line 22:

ORA-06550: line 22, column 7:

PLS-00103: Encountered the symbol "LOOP" when expecting one of the following:  
if

ORA-06550: line 25, column 4:

PLS-00103: Encountered the symbol "end-of-file" when expecting one of the  
following:

end not pragma final instantiable order overriding static  
member constructor map

SQL> ed c:/oracle/cur5.sql

```
SQL> @ c:/oracle/cur5.sql
      fetch c1 into custdata;
      *
```

ERROR at line 8:

ORA-06550: line 8, column 4:

PLS-00394: wrong number of values in the INTO list of a FETCH statement

ORA-06550: line 8, column 4:

PL/SQL: SQL Statement ignored

SQL> ed c:/oracle/cur5.sql

SQL> @ c:/oracle/cur5.sql

PL/SQL procedure successfully completed.

SQL> set serveroutput on

SQL> @ c:/oracle/cur5.sql

Name Ravi

Amount 495

Discount 34.65

-----  
Name Sumit

Amount 715

Discount 71.5

-----  
Name Ajay

Amount 165

Discount 8.25

-----  
Name Vijay

Amount 935

Discount 93.5  
-----

Name Sanjay

Amount 385

Discount 26.95  
-----

Name Gourav

Amount 55

Discount 2.75  
-----

Name Sourav

Amount 120

Discount 6  
-----

Name Raja

Amount 230

Discount 11.5  
-----

Name Rani

Amount 260

Discount 13  
-----

Name Gaurav

Amount 300

Discount 21  
-----

PL/SQL procedure successfully completed.

SQL> select \* from customers;

CNO	CNAME	AMOUNT	DOJ	CONTACT	DEPT	CITY
1	Ravi	495	10-APR-20	9983	10	Indore
2	Sumit	715	13-APR-20	8832	20	Sagar
3	Ajay	165	30-SEP-22		10	Sagar
4	Vijay	935	15-FEB-23		30	Indore
5	Sanjay	385	10-APR-20		10	Indore
6	Gourav	55	03-NOV-25		20	Sagar
7	Sourav	120	06-NOV-25		10	Sagar
8	Raja	230	04-OCT-25		20	Bhopal
9	Rani	260	16-MAY-23		30	Bhopal
10	Gaurav	300	15-NOV-25	3394	40	Gwalior

10 rows selected.

```
SQL> ed c:/oracle/cur5.sql
```

```
SQL> create table estudents(rollno number,marks number,grade char);
```

Table created.

```
SQL> insert into estudents values(1,65,null);
```

1 row created.

```
SQL> insert into estudents values(2,35,null);
```

1 row created.

```
SQL> insert into estudents values(3,85,null);
```

1 row created.

```
SQL> insert into estudents values(4,45,null);
```

1 row created.

```
SQL> insert into estudents values(5,65,null);
```

1 row created.

```
SQL> commit;
```

Commit complete.

```
SQL> select * from students;
```

```
select * from students
      *
```

ERROR at line 1:

ORA-00942: table or view does not exist

```
SQL> select * from estudents;
```

ROLLNO	MARKS	G
1	65	
2	35	
3	85	
4	45	
5	65	

```
SQL> ed c:/oracle/cur6.sql
```

```
SQL> @ c:/oracle/cur6.sql
```

PL/SQL procedure successfully completed.

SQL> select \* from estudents;

ROLLNO	MARKS	G
1	65	A
2	35	C
3	85	A
4	45	C
5	65	A

SQL> ed c:/oracle/cur6.sql

SQL> ed c:/oracle/cur7.sql

SQL> @ c:/oracle/cur7.sql

Name Ravi

Amount 495

=====

PL/SQL procedure successfully completed.

SQL> ed c:/oracle/cur7.sql

SQL> @ c:/oracle/cur7.sql

Name Vijay

Amount 935

=====

PL/SQL procedure successfully completed.

SQL> select \* from customers;

CNO	CNAME	AMOUNT	DOJ	CONTACT	DEPT	CITY
1	Ravi	495	10-APR-20	9983	10	Indore
2	Sumit	715	13-APR-20	8832	20	Sagar
3	Ajay	165	30-SEP-22		10	Sagar
4	Vijay	935	15-FEB-23		30	Indore
5	Sanjay	385	10-APR-20		10	Indore
6	Gourav	55	03-NOV-25		20	Sagar
7	Sourav	120	06-NOV-25		10	Sagar
8	Raja	230	04-OCT-25		20	Bhopal
9	Rani	260	16-MAY-23		30	Bhopal
10	Gaurav	300	15-NOV-25	3394	40	Gwalior

10 rows selected.

```
SQL> ed c:/oracle/cur7.sql
```

```
SQL> @ c:/oracle/cur7.sql
```

```
Enter value for cid: 7
```

```
old 5:          cid:=&cid;
```

```
new 5:          cid:=7;
```

```
cid:=7;
```

```
*
```

```
ERROR at line 5:
```

```
ORA-06550: line 5, column 2:
```

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

```
ORA-06550: line 5, column 2:
```

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

```
ORA-06550: line 6, column 10:
```

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

```
ORA-06550: line 6, column 2:
```

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

```
SQL> ed c:/oracle/cur7.sql
```

```
SQL> @ c:/oracle/cur7.sql
```

```
Enter value for x: 3
```

```
old 6:          x:=&x;
```

```
new 6:          x:=3;
```

```
Name Ajay
```

```
Amount 165
```

```
=====
```

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

```
SQL> @ c:/oracle/cur7.sql
```

```
Enter value for x: 7
```

```
old 6:          x:=&x;
```

```
new 6:          x:=7;
```

```
Name Sourav
```

```
Amount 120
```

```
=====
```

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

```
SQL> ed c:/oracle/cur7.sql
```

```
SQL> @ c:/oracle/cur7.sql
```

```
Enter value for x: 77
```

```
old 6:          x:=&x;
```

```
new 6:          x:=77;
```

```
No record found
```

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

```
SQL> @ c:/oracle/cur7.sql
```

```
Enter value for x: 5
```

```
old 6:          x:=&x;
```

```
new 6:          x:=5;
```

```
Name Sanjay
```

```
Amount 385
```

```
=====
```

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

```
SQL> ed c:/oracle/cur7.sql
```

```
SQL> ed c:/oracle/cur8.sql
```

```
SQL> @ c:/oracle/cur8.sql
```

```
Average amount of dept 10 is 291.25
```

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

```
SQL> @ c:/oracle/cur8.sql
```

```
Average amount of dept 10 is 291.25
```

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

```
SQL>
```

```
SQL> @ c:/oracle/cur8.sql
```

```
Average amount of dept 10 is 291.25
```

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

```
SQL> ed c:/oracle/cur8.sql
```

```
SQL> @ c:/oracle/cur8.sql
```

```
Enter value for x: 10
```

```
old 7:          open c1(&x);
```

```
new 7:          open c1(10);
```

```
          dbms_output.put_line('Average amount of dept ' || x || ' is ' ||  
av);
```

```
*
```

```
ERROR at line 10:
```

```
ORA-06550: line 10, column 53:
```

```
PLS-00306: wrong number or types of arguments in call to 'X'
```

```
ORA-06550: line 10, column 3:
```

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

```
SQL> ed c:/oracle/cur8.sql
```

```
SQL> @ c:/oracle/cur8.sql
```

```

Enter value for x: 20
old 8:      x:=&x;
new 8:      x:=20;
Average amount of dept 20 is 333.333333333333333333333333333333

```

PL/SQL procedure successfully completed.

```

SQL> @ c:/oracle/cur8.sql
Enter value for x: 30
old 8:      x:=&x;
new 8:      x:=30;
Average amount of dept 30 is 597.5

```

PL/SQL procedure successfully completed.

```
SQL> ed c:/oracle/cur8.sql
```

```
SQL> ed c:/oracle/cur9.sql
```

```

SQL> @ c:/oracle/cur9.sql
Amount Updated

```

PL/SQL procedure successfully completed.

```
SQL> select * from customers;
```

CNO	CNAME	AMOUNT	DOJ	CONTACT	DEPT	CITY
1	Ravi	595	10-APR-20	9983	10	Indore
2	Sumit	715	13-APR-20	8832	20	Sagar
3	Ajay	265	30-SEP-22		10	Sagar
4	Vijay	935	15-FEB-23		30	Indore
5	Sanjay	485	10-APR-20		10	Indore
6	Gourav	55	03-NOV-25		20	Sagar
7	Sourav	220	06-NOV-25		10	Sagar
8	Raja	230	04-OCT-25		20	Bhopal
9	Rani	260	16-MAY-23		30	Bhopal
10	Gaurav	300	15-NOV-25	3394	40	Gwalior

10 rows selected.

```
SQL> ed c:/oracle/cur9.sql
```

```

SQL> @ c:/oracle/cur9.sql
cnt=sql%rowcount;
*

```

ERROR at line 5:

ORA-06550: line 5, column 5:

PLS-00103: Encountered the symbol "=" when expecting one of the following:

:= . ( @ % ;

ORA-06550: line 6, column 2:  
PLS-00103: Encountered the symbol "DBMS\_OUTPUT"  
ORA-06550: line 6, column 49:  
PLS-00103: Encountered the symbol ";" when expecting one of the following:  
. ( , \* % & - + / at mod remainder rem <an identifier>  
<a double-quoted delimited-identifier> <an exponent (\*\*)> as  
from into || multiset bulk

SQL> ed c:/oracle/cur9.sql

SQL> @ c:/oracle/cur9.sql  
4 records updated

PL/SQL procedure successfully completed.

SQL> ed c:/oracle/cur9.sql

SQL>  
SQL> @ c:/oracle/cur9.sql  
0 records updated

PL/SQL procedure successfully completed.

SQL> ed c:/oracle/cur9.sql

SQL> ed c:/oracle/cur9.sql

SQL> @ c:/oracle/cur9.sql  
SP2-0042: unknown command "xdeclare" - rest of line ignored.  
SP2-0042: unknown command "cnt number" - rest of line ignored.  
cnt:=sql%rowcount;  
\*

ERROR at line 6:  
ORA-06550: line 6, column 2:  
PLS-00201: identifier 'CNT' must be declared  
ORA-06550: line 6, column 2:  
PL/SQL: Statement ignored  
ORA-06550: line 7, column 23:  
PLS-00201: identifier 'CNT' must be declared  
ORA-06550: line 7, column 2:  
PL/SQL: Statement ignored

SQL> ed c:/oracle/cur9.sql

SQL> @ c:/oracle/cur9.sql  
No such dept  
0 records updated

PL/SQL procedure successfully completed.

SQL> ed c:/oracle/cur9.sql

SQL>

SQL> @ c:/oracle/cur9.sql

Enter value for dno: 10

old 4: update customers set amount=amount+100 where dept=&dno;

new 4: update customers set amount=amount+100 where dept=10;

4 records updated

PL/SQL procedure successfully completed.

SQL> @ c:/oracle/cur9.sql

Enter value for dno: 40

old 4: update customers set amount=amount+100 where dept=&dno;

new 4: update customers set amount=amount+100 where dept=40;

1 records updated

PL/SQL procedure successfully completed.

SQL> @ c:/oracle/cur9.sql

Enter value for dno: 99

old 4: update customers set amount=amount+100 where dept=&dno;

new 4: update customers set amount=amount+100 where dept=99;

No such dept

0 records updated

PL/SQL procedure successfully completed.

SQL> ed c:/oracle/cur9.sql

SQL> ed c:/oracle/cur8.sql

SQL> @ c:/oracle/cur8.sql

Enter value for x: 10

old 8: x:=&x;

new 8: x:=10;

Average amount of dept 10 is 591.25

PL/SQL procedure successfully completed.

SQL> ed c:/oracle/cur8.sql

SQL> @ c:/oracle/cur8.sql

Enter value for x: 10

old 8: x:=&x;

new 8: x:=10;

open c1;

\*

```
ERROR at line 9:  
ORA-06550: line 9, column 2:  
PLS-00306: wrong number or types of arguments in call to 'C1'  
ORA-06550: line 9, column 2:  
PL/SQL: SQL Statement ignored
```

```
SQL> ed c:/oracle/cur8.sql
```

```
SQL> @ c:/oracle/cur8.sql  
Enter value for x: 10  
old   8:          x:=&x;  
new   8:          x:=10;  
Cursor is open  
Average amount of dept 10 is 591.25
```

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

```
SQL> ed c:/oracle/cur8.sql
```

```
SQL> ed c:/oracle/cur5.sql
```