

```

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;
/
=====
==

=====
==

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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
       4 Vijay          935 15-FEB-23
       5 Sanjay         385 10-APR-20
       6 Gourav          55 03-NOV-25
       7 Sourav          120 06-NOV-25
       8 Raja            230 04-OCT-25
       9 Rani            260 16-MAY-23

```

10 Gaurav

300 15-NOV-25

3394

40 Gwalior

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
```