

```

declare
    cid customers.cno%type;
    name customers cname%type;
    cursor c1 is select cno,cname from customers where dept=20;
begin
    open c1;
    loop
        fetch c1 into cid,name;
        exit when c1%notfound;
        dbms_output.put_line(cid || ' ' || name);
    end loop;
    dbms_output.put_line('No. of records ' || c1%rowcount);
    close c1;
end;
/

-----
declare
    cursor c1 is select * from customers;
    custdata customers%rowtype;
begin
    open c1;
    loop
        fetch c1 into custdata;
        exit when c1%notfound;
        dbms_output.put_line(custdata.cno);
        dbms_output.put_line(custdata.cname);
        dbms_output.put_line(custdata.dept);
    end loop;
    close c1;
end;
/

-----
declare
    cursor c1 is select city,count(*) from customers group by city;
    cityname customers.city%type;
    cnt number;
begin
    open c1;
    loop
        fetch c1 into cityname,cnt;
        exit when c1%notfound;
        dbms_output.put_line('City ' || cityname || ' exists ' || cnt || '
times');
    end loop;
    close c1;
end;
/

```

```

-----
declare
    amt1 number:=0;
    amt2 number:=0;
    amt3 number:=0;
    amt4 number:=0;
    cursor c1 is select * from customers;
    custdata customers%rowtype;
begin
    open c1;
    loop
        fetch c1 into custdata;
        exit when c1%notfound;
        if custdata.dept=10
        then
            amt1:=amt1+custdata.amount;
        elsif custdata.dept=20
        then
            amt2:=amt2+custdata.amount;
        elsif custdata.dept=30
        then
            amt3:=amt3+custdata.amount;
        elsif custdata.dept=40
        then
            amt4:=amt4+custdata.amount;
        end if;
    end loop;
    dbms_output.put_line('-----');
    dbms_output.put_line('Dept ' || amt1);
    dbms_output.put_line('Dept ' || amt2);
    dbms_output.put_line('Dept ' || amt3);
    dbms_output.put_line('Dept ' || amt4);
    dbms_output.put_line('-----');
    close c1;
end;
/
-----
```

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```

SQL> connnect
SP2-0042: unknown command "connnect" - rest of line ignored.
SQL> connect
Enter user-name: prince/sagar
Connected.
SQL> ed c:/oracle/cur1.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	Gaurav	300	15-NOV-25	3394	40	Gwalior

10 rows selected.

SQL> ed c:/oracle/loop7.sql

SQL> ed c:/oracle/loop8.sql

SQL> ed c:/oracle/loop6.sql

SQL> ed c:/oracle/cur1.sql

SQL> select cno,cname from customers;

CNO	CNAME
1	Ravi
2	Sumit
3	Ajay
4	Vijay
5	Sanjay
6	Gourav
7	Sourav
8	Raja
9	Rani
10	Gaurav

10 rows selected.

SQL> ed c:/oracle/cur1.sql

SQL> set serveroutput on

SQL> @ c:/oracle/cur1.sql  
cid customers.cno%type;;  
\*

ERROR at line 2:

ORA-06550: line 2, column 25:

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

```
begin function package pragma procedure subtype type use
<an identifier> <a double-quoted delimited-identifier> form
current cursor
```

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

```
SQL> @ c:/oracle/cur1.sql
1
Ravi
```

```
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/cur1.sql
```

```
SQL> @ c:/oracle/cur1.sql
1
Ravi
2
Sumit
```

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

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

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

```
SQL> @ c:/oracle/cur1.sql
1
Ravi
2
Sumit
3
```

```
Ajay  
4  
Vijay  
5  
Sanjay  
6  
Gourav  
7  
Sourav  
8  
Raja  
9  
Rani  
10  
Gaurav
```

PL/SQL procedure successfully completed.

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

```
SQL> @ c:/oracle/cur1.sql  
1 Ravi  
2 Sumit  
3 Ajay  
4 Vijay  
5 Sanjay  
6 Gourav  
7 Sourav  
8 Raja  
9 Rani  
10 Gaurav
```

PL/SQL procedure successfully completed.

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

```
SQL> @ c:/oracle/cur1.sql  
1 Ravi  
2 Sumit  
3 Ajay  
4 Vijay  
5 Sanjay  
6 Gourav  
7 Sourav  
8 Raja  
9 Rani  
10 Gaurav  
No. of records 10
```

PL/SQL procedure successfully completed.

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

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

```
2 Sumit
6 Gourav
8 Raja
No. of records 3
```

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

```
SQL> ed c:/oracle/cur1.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	Gaurav	300	15-NOV-25	3394	40	Gwalior

```
10 rows selected.
```

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

```
SQL> ed c:/oracle/cur2.sql
```

```
SQL> @ c:/oracle/cur2.sql
```

```
1
Ravi
10
2
Sumit
20
3
Ajay
10
4
Vijay
30
5
Sanjay
10
```

```
6
Gourav
20
7
Sourav
10
8
Raja
20
9
Rani
30
10
Gaurav
40
```

PL/SQL procedure successfully completed.

```
SQL> ed c:/oracle/cur2.sql
```

```
SQL> ed c:/oracle/cur3.sql
```

```
SQL> ed c:/oracle/cur2.sql
```

```
SQL> ed c:/oracle/cur3.sql
```

```
SQL> ed c:/oracle/cur3.sql
```

```
SQL> @ c:/oracle/cur3.sql
      exit when c1%notfound;
      *
```

ERROR at line 8:

ORA-06550: line 8, column 3:

PLS-00103: Encountered the symbol "EXIT" when expecting one of the following:  
. ( , % ; limit

```
SQL> ed c:/oracle/cur3.sql
```

```
SQL> @ c:/oracle/cur3.sql
      select custdata.city, count(*) as total from customers group by
custdata.city;
      *
```

ERROR at line 9:

ORA-06550: line 9, column 3:

PLS-00428: an INTO clause is expected in this SELECT statement

ORA-06550: line 11, column 24:

PLS-00201: identifier 'TOTAL' must be declared

ORA-06550: line 11, column 3:

PL/SQL: Statement ignored

```
SQL> ed c:/oracle/cur3.sql
```

```
SQL> select city,count(*) from customers group by city;
```

CITY	COUNT(*)
Bhopal	2
Gwalior	1
Sagar	4
Indore	3

```
SQL> ed c:/oracle/cur3.sql
```

```
SQL> @ c:/oracle/cur3.sql
City Bhopal exists 2 times
City Gwalior exists 1 times
City Sagar exists 4 times
City Indore exists 3 times
```

PL/SQL procedure successfully completed.

```
SQL> ed c:/oracle/cur3.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	Gaurav	300	15-NOV-25	3394	40	Gwalior

10 rows selected.

```
SQL> ed c:/oracle/cur4.sql
```

```
SQL> @ c:/oracle/cur4.sql
```

```
-----  
Dept 1165  
Dept 1000  
Dept 1195  
Dept 300
```

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

```
SQL> select dept,sum(amount) from customers group by dept;
```

DEPT	SUM(AMOUNT)
30	1195
20	1000
40	300
10	1165

30	1195
20	1000
40	300
10	1165

```
SQL> ed c:/oracle/cur4.sql  
=====
```