Psql

```
SQL> SET SERVEROUTPUT ON SIZE 1000000;
SQL> DECLARE
  2  message varchar2(20):='Hello, Word!';
  3  BEGIN
  4  dbms_output.put_line(message);
  5  END;
  6  /
Hello, Word!

PL/SQL procedure successfully completed.
```

```
SQL> SET SERVEROUTPUT ON SIZE 1000000;
SQL> declare
  2  a number;
  3  b number;
  4  c number;
  5  begin
  6  a:=&a;
  7  b:=&b;
  8  c:=&c;
  9  if(a>b and a>c)then
 10  dbms_output.put_line('a is maximum' || a);
 11  elsif(b>a and b>c)then
 12  dbms_output.put_line('b is maximum' ||b);
 13  else
 14  dbms_output.put_line('c is maximum' ||c);
 15  end if;
 16  end;
 17  /
Enter value for a: 23
old   6: a:=&a;
new   6: a:=23;
Enter value for b: 1
old   7: b:=&b;
new   7: b:=1;
Enter value for c: 12
old   8: c:=&c;
new   8: c:=12;
a is maximum23
```

```
SQL> declare
  2  n_times number:=10;
  3  begin
  4  for n_i in 1..n_times loop
  5  dbms_output.put_line(n_i);
  6  end loop;
  7  end;
  8  /
1
2
3
4
5
6
7
8
9
10

PL/SQL procedure successfully completed.
```

Views

```
SQL> create view sales_staff as select empno,ename,job from employee;

View created.

SQL> select * from sales_staff;

    EMPNO ENAME                    JOB
---------- ------------------------ ------------
     7369 SMITH                    CLERK
     7499 ALLEN                    SALESMAN
     7521 WARD                     SALESMAN
     7566 JONES                    MANAGER
     7654 MARTIN                   SALESMAN
     7698 BLAKE                    MANAGER
     7782 CLARK                    MANAGER
     7788 SCOTT                    ANALYST
     7839 KING                     PRESIDENT
     7844 TURNER                   SALESMAN
     7876 ADAMS                    CLERK

    EMPNO ENAME                    JOB
---------- ------------------------ ------------
     7900 JAMES                    CLERK
     7902 FORD                     ANALYST
```

```
SQL> create or replace procedure welcome_msg(p_name in varchar2)
  2  is
  3  begin
  4  dbms_output.put_line('welcome' || p_name);
  5  end;
  6  /

Procedure created.

SQL> exec welcome_msg('Anu');
welcomeAnu

PL/SQL procedure successfully completed.
```

```
SQL> create or replace procedure welcome_msg(p_name in varchar2,salary out number)
  2  is
  3  begin
  4  salary:=10000;
  5  dbms_output.put_line('welcome' || p_name);
  6  end;
  7  /

Procedure created.

SQL> var sal number;
SQL> exec welcome_msg('Anu',:sal);
welcomeAnu

PL/SQL procedure successfully completed.

SQL> print sal;

      SAL
----------
    10000
```

```
SQL> create or replace function welcome_msg2(p_name in varchar2) return varchar2
  2  is
  3  begin
  4  return ('welcome' || p_name);
  5  end;
  6  /

Function created.

SQL> declare
  2  lv_msg varchar2(250);
  3  begin
  4  lv_msg:=welcome_msg2('Anu');
  5  dbms_output.put_line(lv_msg);
  6  end;
  7  /

PL/SQL procedure successfully completed.

SQL> set serveroutput on size 10000;
SQL> declare
  2  lv_msg varchar2(250);
  3  begin
  4  lv_msg:=welcome_msg2('Anu');
  5  dbms_output.put_line(lv_msg);
  6  end;
  7  /
welcomeAnu

PL/SQL procedure successfully completed.
```

Pl/sql cursor ,trigger

```
SQL> set serveroutput on size 10000;
SQL> declare
  2  id constant number :=1;
  3  sname stud_file.name%type;
  4  mark1 stud_file.m1%type;
  5  mark2 stud_file.m2%type;
  6  total number:=0;
  7  begin
  8  select name,m1,m2 into sname,mark1,mark2 from stud_file where sid=id;
  9  total:=mark1+mark2;
 10  dbms_output.put_line('Total marks of student' ||sname|| 'with id '||id|| 'is '||total);
 11  end;
 12  /
Total marks of studentanuwith id 1is 85

PL/SQL procedure successfully completed.
```

```
SQL> declare
  2  cursor stud_cursor is select * from stud_file;
  3  stud_rec stud_cursor%rowtype;
  4  total number:=0;
  5  begin
  6  open stud_cursor;
  7  loop
  8  fetch stud_cursor into stud_rec;
  9  exit when stud_cursor%notfound or stud_cursor%rowcount>4;
 10  total:=stud_rec.m1+stud_rec.m2;
 11  dbms_output.put_line('Total marks of student'||stud_rec.name||'is: '||total);
 12  end loop;
 13  end;
 14  /
Total marks of studentanuis: 85
Total marks of studentbinuis: 93
Total marks of studentciniis: 75
Total marks of studentdiniis: 55

PL/SQL procedure successfully completed.
```