EXP NO: 08	
DATA: 07/04/2022	Factorial in PL/SQL

Aim: Write PL/SQL program to find factorial of a number.

Description about the problem:

- Write a pl/SQL program for finding the factorial of a number
- The factorial of a number is the product of all the integers from 1 to that number. For example, the factorial of 6 is 1*2*3*4*5*6 = 720. Factorial is not defined for negative numbers, and the factorial of zero is one, 0! = 1

Queries:

```
➤ declare
       fac number :=1;
      n number :=5;
   begin
      while n>0 loop
        fac:=n*fac;
        n=n-1;
      end loop;
      dbms_output.put_line(fac);
  end;
➤ declare
       fac number :=1;
       n number :=10;
  begin
      while n>0 loop
         fac:=n*fac;
         n=n-1;
      end loop;
      dbms_output.put_line(fac);
  end;
```

Result:

Successfully implemented Pl/SQL code to find factorial of a number.





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Actions 🗸



Run Script

Name	Session 08
Description	1. write a pl/SQL program for finding the factorial of a number 2. Execute the below-given programs s1 and s2 and submit the results. Txt 1 create table emp_grade(empno number, grade char(1)); Declare Emp_rec emp%rowtype; Cursor c is select * into emp_rec from emp; Begin Open c; If c%ISOPEN then Loop Fetch c into emp_rec; If c%notfound then Exit; Endif; If emp_rec.sal <= 1400 then Insert into emp_grade values(emp_rec.empno,'C'); Elsif emp_rec.sal between 1401 and 2000 then Insert into emp_garde values(em_rec.empno,'A'); Endif End loop; Else Open c; Endif; End; Txt 2 Declare a number; b number; c number; Begin dbms_output.put_line('Enter a:'); a:=&a dbms_output.put_line('Enter b:'); b:=&b dbms_output.put_line('Enter c:'); c:=&c if (a>b) and (a>c) then dbms_output.putline('A is Maximum'); elsif (b>a) and (b>c) then dbms_output.putline('B is Maximum'); else dbms_output.putline('C is Maximum'); end if; End; / SET SERVEROUTPUT ON
Area	-
Visibility	Publicly Shareable - available via unlisted URL
Contributor	RA1911027010007
Share Link	https://livesql.oracle.com/apex/livesql/s/nds07samkmwoq1facl87qdrj2
Tags	-
Script Results	We cannot determine the last run date for this script. What's This?
Last Updated	Thursday April 28, 2022 (Created 6 days ago)
	9 Statements, 2,371 bytes

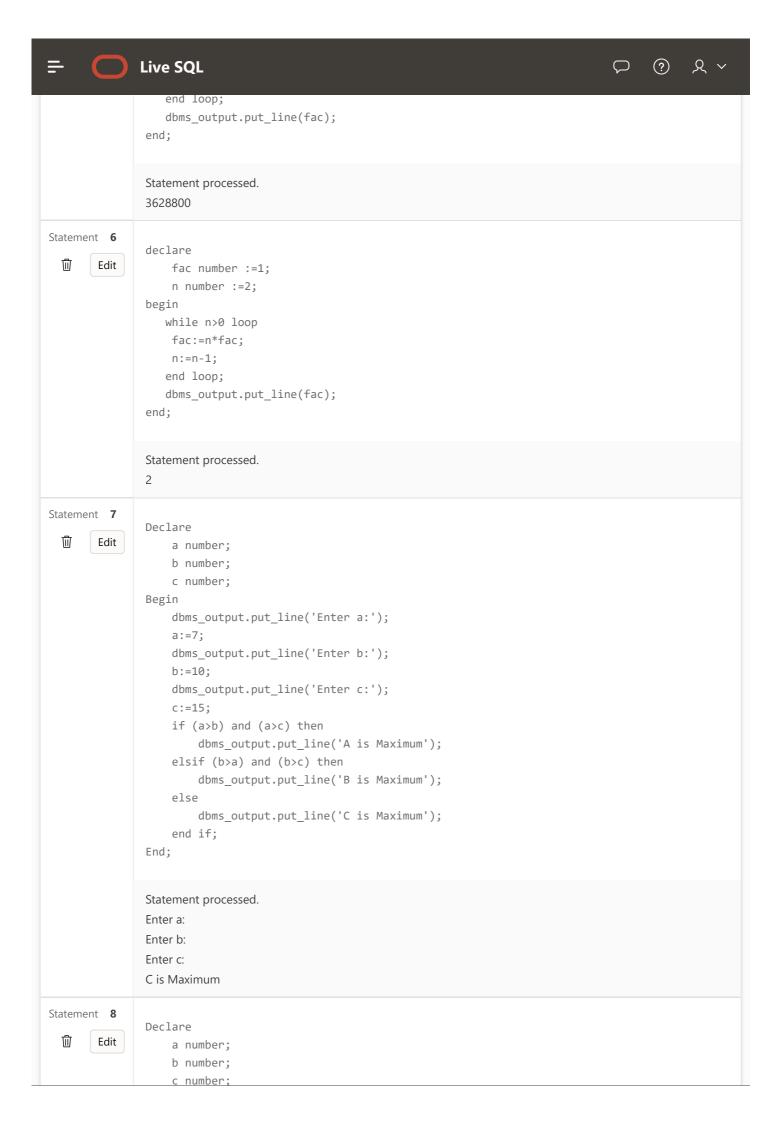
Statement 1



Edit

declare fac number :=1; n number :=5; begin while n>0 loop fac:=n*fac; n:=n-1; end loop; dbms_output.put_line(fac);







```
a:=7;
dbms_output.put_line('Enter b:');
b:=10;
dbms_output.put_line('Enter c:');
c:=15;
if (a>b) and (a>c) then
    dbms_output.put_line('A is Maximum');
elsif (b>a) and (b>c) then
    dbms_output.put_line('B is Maximum');
else
    dbms_output.put_line('C is Maximum');
end if;
```

Statement processed.

Enter a:

Enter b:

Enter c:

C is Maximum

Statement 9





```
Declare
    a number;
   b number;
    c number;
Begin
   dbms_output.put_line('Enter a:');
    a:=16;
    dbms_output.put_line('Enter b:');
    b:=10;
    dbms_output.put_line('Enter c:');
    c:=15;
    if (a>b) and (a>c) then
        dbms_output.put_line('A is Maximum');
    elsif (b>a) and (b>c) then
        dbms_output.put_line('B is Maximum');
    else
        dbms_output.put_line('C is Maximum');
    end if;
End;
```

Statement processed.

Enter a:

Enter b:

Enter c:

A is Maximum

Script Update Details