**PL/SQL**

Q1: Write a PL/SQL program to find the factorial of a given number

set serveroutput on;

declare

fact number:=1;

n number:=&n;

begin

for i in 1..n

loop

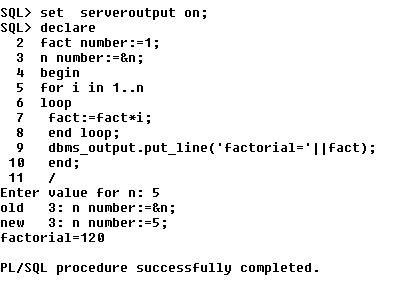
fact:=fact\*i;

end loop;

dbms\_output.put\_line('factorial='||fact);

end;

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Q2: Write a PL/SQL program to check whether the given no is prime or not

set serveroutput on;

declare

i number:=2;

f number:=1;

n number:=&n;

begin

for i in 2..n/2

loop

if n mod i=0

then

f:=0;

exit;

end if;

end loop;

if f=1

then

dbms\_output.put\_line('prime');

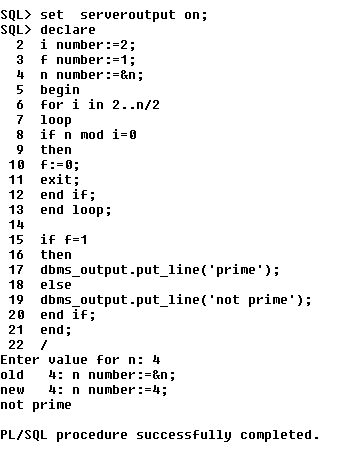
else

dbms\_output.put\_line('not prime');

end if;

end;

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**Functions**

1. Write a PL/SQL program to Check whether a number is Armstrong or not using functions

create or replace function arms(n in number)

return number is

r number;

s number;

a number;

l number;

begin

a:=n;

s:=0;

l:=length(n);

while a>0

loop

r:=mod(a,10);

s:=s+power(r,l);

a:=trunc(a/10);

end loop;

return s;

end;

/

set serveroutput on;

declare

n number:=&n;

s number;

begin

s:=arms(n);

if s=n

then

dbms\_output.put\_line('armstrong number');

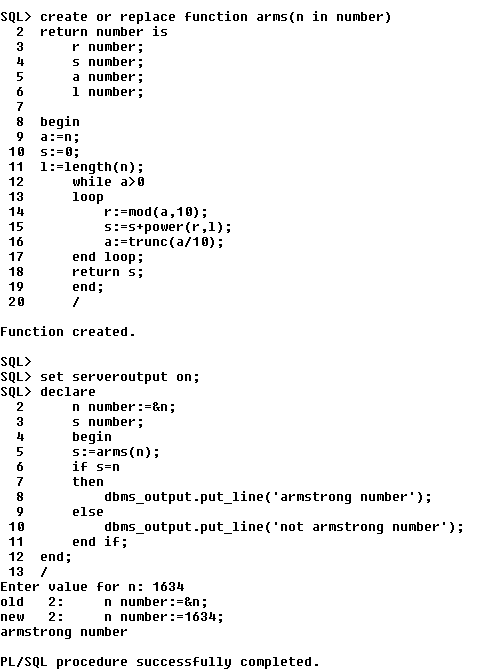
else

dbms\_output.put\_line('not armstrong number');

end if;

end;

/



1. Create table that contains itemid,item\_name & price of several items sold in a grocery shop, Using functions retrieve the item name & price from table when itemid is given as input.

create or replace function grows(id number)

return number as

s number;

n number;

nm grow.itemname%type;

p grow.price%type;

begin

s:=id;

select itemname,price into nm,p from grow where itemid=s;

dbms\_output.put\_line('Item Name'||nm);

dbms\_output.put\_line('Price'||p);

return 0;

end;

/

declare

n number:=&n;

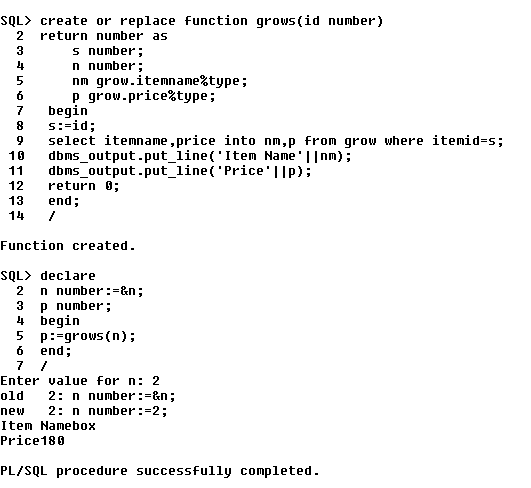
p number;

begin

p:=grows(n);

end;

/



1. Write a PL/SQL function called POW that takes two numbers as argument and return the value of the first number raised to the power of the second .

create or replace function pow(a number,b number)

return number as

p number;

begin

select power(a,b) into p from dual;

return p;

end;

/

declare

a number:=&a;

b number:=&b;

begin

dbms\_output.put\_line('Power is '||pow(a,b));

end;

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