

PLSQL ASSIGNMENT

- ◆ sqlplus sys as sysdba

SQL*Plus: Release 11.2.0.2.0 Production on Tue Jun 13 13:49:11 2023
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Enter password: oracle

Connected to:
Oracle Database 11g Express Edition Release 11.2.0.2.0 - 64bit Production

- ◆ SQL> SET SERVEROUTPUT ON;
- ◆ SQL> BEGIN
2 DBMS_OUTPUT.PUT_LINE('Hello World');
3 END;
4 /
Hello World

PL/SQL procedure successfully completed.

1) **Sum of two Numbers**

- ◆ SQL> DECLARE
2 a INTEGER;
3 b INTEGER;
4 s INTEGER;
5 BEGIN
6 a:=&a;
7 b:=&b;
8 s:=a+b;
9 DBMS_OUTPUT.PUT_LINE('Sum is :'||s);
10 END;
11 /
Enter value for a: 5
old 6: a:=&a;
new 6: a:=5;
Enter value for b: 6
old 7: b:=&b;
new 7: b:=6;
Sum is :11

2) **Factorial of a Number**

- ◆ SQL> DECLARE
2 f NUMBER:=1;
3 n NUMBER;
4 i NUMBER;
5 BEGIN
6 n:=&n;
7 FOR i IN 1..n
8 LOOP
9 f:=f*i;
10 END LOOP;
11 DBMS_OUTPUT.PUT_LINE('Factorial of '||n||' is '||f);
12 END;
13 /
Enter value for n: 5
old 6: n:=&n;
new 6: n:=5;
Factorial of 5 is 120

PL/SQL procedure successfully completed.

3) **Reverse of a Number**

```
◆ SQL> DECLARE
  2  n NUMBER;
  3  rev_n NUMBER;
  4  BEGIN
  5  n:=&n;
  6  rev_n:=0;
  7  WHILE n>0 LOOP
  8  rev_n:=(rev_n*10)+MOD(n,10);
  9  n:=FLOOR(n/10);
 10  END LOOP;
 11  DBMS_OUTPUT.PUT_LINE('Reverse is '||rev_n);
 12  END;
 13  /
```

Enter value for n: 123

old 5: n:=&n;

new 5: n:=123;

Reverse is 321

PL/SQL procedure successfully completed.

4) **Check the Number is Palindrome or Not**

```
◆ SQL> DECLARE
  2  n NUMBER;
  3  rev_n NUMBER := 0;
  4  temp_n NUMBER;
  5  BEGIN
  6  n := &n;
  7  temp_n := n;
  8  WHILE temp_n > 0 LOOP
  9  rev_n := (rev_n * 10) + MOD(temp_n, 10);
 10  temp_n := FLOOR(temp_n / 10);
 11  END LOOP;
 12  IF n = rev_n THEN
 13  DBMS_OUTPUT.PUT_LINE('The number ' || n || ' is a palindrome.');
```

14 ELSE

15 DBMS_OUTPUT.PUT_LINE('The number ' || n || ' is not a palindrome.');

16 END IF;

17 END;

18 /

Enter value for n: 121

old 6: n := &n;

new 6: n := 121;

The number 121 is a palindrome.

PL/SQL procedure successfully completed.