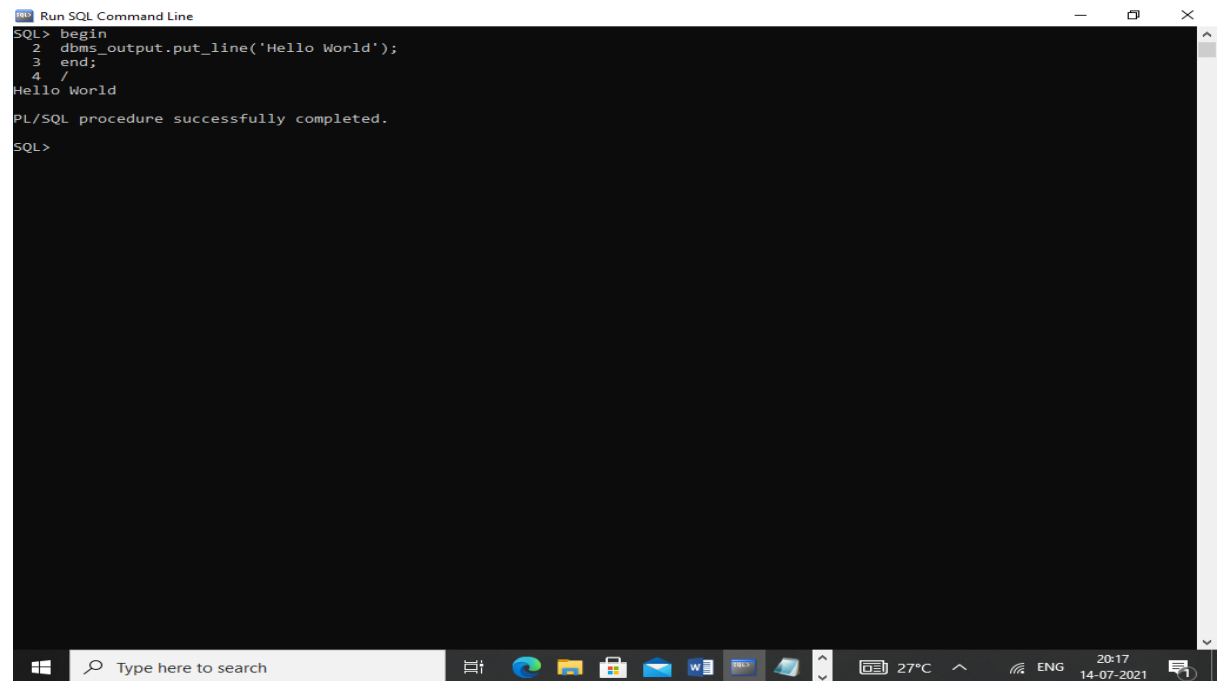


Practical 1 : dbms 2

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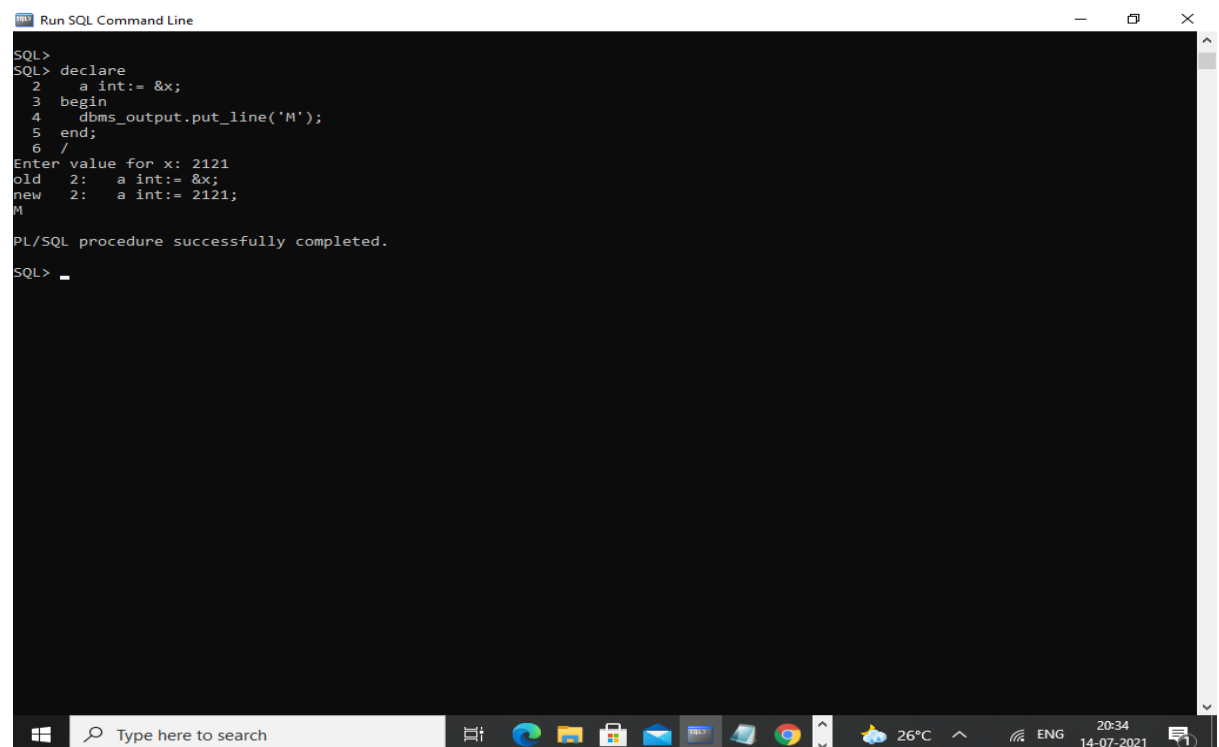
1. Write a PL/SQL block to display the message "hello world".



```
Run SQL Command Line
SQL> begin
2  dbms_output.put_line('Hello World');
3  end;
4  /
Hello World
PL/SQL procedure successfully completed.
SQL>
```

The screenshot shows a Windows taskbar at the bottom with a search bar and various application icons. The system tray on the right displays the temperature as 27°C, the language as ENG, and the date and time as 20:17 on 14-07-2021.

2. Write a PL/SQL block which will read a number from the user and display it on the screen.



```
Run SQL Command Line
SQL> declare
2  a int:= &x;
3  begin
4  dbms_output.put_line('M');
5  end;
6  /
Enter value for x: 2121
old 2:  a int:= &x;
new 2:  a int:= 2121;
M
PL/SQL procedure successfully completed.
SQL> _
```

The screenshot shows a Windows taskbar at the bottom with a search bar and various application icons. The system tray on the right displays the temperature as 26°C, the language as ENG, and the date and time as 20:34 on 14-07-2021.

3. Write a PL/SQL block to read a message from user and display it.

```
Run SQL Command Line
SQL> declare
2  Mehul varchar(20);
3  begin
4  Mehul:='&M';
5  dbms_output.put_line('M');
6  end;
7  /
Enter value for m: mehul gohil
old 4: Mehul:='&M';
new 4: Mehul:='mehul gohil';
M
PL/SQL procedure successfully completed.
SQL> _
```

4. Write a PL/SQL block to display the area of a rectangle when length and breadth are accepted by the user.

```
Run SQL Command Line
SQL>
SQL> declare
2  length int := &length;
3  breath int :=&breath;
4  area int;
5  begin
6  area := length * breath;
7  dbms_output.put_line('area of reactagle is=' || area);
8  end;
9  /
Enter value for length: 7
old 2: length int := &length;
new 2: length int := 7;
Enter value for breath: 4
old 3: breath int :=&breath;
new 3: breath int :=4;
area of reactagle is=28

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

5. Write a PL/SQL block to display the total number of employees.

```
Run SQL Command Line
SQL> declare
2  m int;
3  begin
4  select count(*) into m from emp_mehul;
5  dbms_output.put_line('Employee: '||m);
6  end;
7  /
Employee: 14
PL/SQL procedure successfully completed.
SQL>
```

6. Write a PL/SQL block to print the sum of two numbers accepted by user.

```
Run SQL Command Line
SQL> Declare
2  Var1 integer;
3  Var2 integer;
4  Var3 integer;
5  Begin
6  Var1:=&var1;
7  Var2:=&var2;
8  Var3:=var1+var2;
9  Dbms_output.put_line(var3);
10 End;
11 /
Enter value for var1: 100
old 6: Var1:=&var1;
new 6: Var1:=100;
Enter value for var2: 1
old 7: Var2:=&var2;
new 7: Var2:=1;
101

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

7. Write a PL/SQL block to print the message 'You can lead a horse to water but you can't make him drink'

```
Run SQL Command Line
SQL> DECLARE
2  message VARCHAR2(80);
3  BEGIN
4  message:= 'You can lead a horse to water but you can not make him drink.';
5  dbms_output.put_line (message);
6  END;
7  /
You can lead a horse to water but you can not make him drink.
PL/SQL procedure successfully completed.
SQL> _
```

8. Write a PL/SQL block to print the name and job of an employee who is working as CLERK earning salary of Rs 1300/-.

```
Run SQL Command Line
SQL> declare
2  mekul varchar(30);
3  begin
4  select ename into mekul from emp_mekul where job='CLERK' and sal=1300;
5  dbms_output.put_line(mekul);
6  end;
7  /
MEKUL
PL/SQL procedure successfully completed.
SQL>
SQL>
```

9. Write a PL/SQL block to calculate Simple Interest where principle, rate and time are accepted by the user.

```
Run SQL Command Line
SQL> declare
2  a int:=&a;
3  b int:=&b;
4  c int:=&c;
5  mehul int;
6  begin
7  mehul:=a*b*c/100;
8  dbms_output.put_line('simple interest = '||mehul);
9  end;
10 /
Enter value for a: 5
old 2: a int:=&a;
new 2: a int:=5;
Enter value for b: 6
old 3: b int:=&b;
new 3: b int:=6;
Enter value for c: 7
old 4: c int:=&c;
new 4: c int:=7;
simple interest = 2

PL/SQL procedure successfully completed.

SQL> _
```

10. Write a PL/SQL block to calculate the area of the circle and store the radius and area in a table AOC (radius, area).

```
Run SQL Command Line
SQL> create table AOC(r int,a float);
Table created.
SQL> declare
  2  r int:=&r;
  3  a float;
  4  begin
  5  a:=3.14*r*r;
  6  dbms_output.put_line(a);
  7  end;
  8  /
Enter value for r: 4
old  2: r int:=&r;
new  2: r int:=4;
50.24
PL/SQL procedure successfully completed.
SQL>
```

11. Write a PL/SQL block to print the total number of employees working as Manager in deptno 10


```
Run SQL Command Line
SQL> declare
2  pr int;
3  begin
4  select count(*) into pr from emp_mehul where job='MANAGER' and deptno=10;
5  dbms_output.put_line('total number of employees working as MANAGER are : '||pr);
6  end;
7  /
total number of employees working as MANAGER are : 1
PL/SQL procedure successfully completed.
SQL> _
```

12. Write a PL/SQL block to print the total salary of the employees from the employee table .

```
Run SQL Command Line
SQL>
SQL> declare
2  mehul int;
3  begin
4  select sum(sal) into mehul from emp_mehul;
5  dbms_output.put_line('total salary: ' || mehul);
6  end;
7  /
total salary: 29025
PL/SQL procedure successfully completed.
SQL> _
```

13. Write a PL/SQL block to find the cube of a number.

```
Run SQL Command Line

SQL> declare
  2 side int:=&side;
  3 c int;
  4 begin
  5 c:=side*side*side;
  6 dbms_output.put_line('cube is: '|| c);
  7 end;
  8 /
Enter value for side: 44
old 2: side int:=&side;
new 2: side int:=44;
cube is: 85184

PL/SQL procedure successfully completed.

SQL>
```

14. Write a block to print the message "I'm a user"

```
Run SQL Command Line
SQL> declare
2  m varchar(50);
3  begin
4  m:=('I'm a user');
5  dbms_output.put_line(m);
6  end;
7  /
"I'm a user"
PL/SQL procedure successfully completed.
SQL> _
```

Windows taskbar: Type here to search, 27°C, ENG, 21:58, 14-07-2021