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DBMS II Practical

1) Write a PL/SQL block to display the message “hello world”

```
Select Run SQL Command Line

SQL> begin
  2  dbms_output.put_line('hello world');
  3  end;
  4  /
hello world

PL/SQL procedure successfully completed.

SQL>
```

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

```
SQL> declare
  2  a int := &a;
  3  begin
  4  dbms_output.put_line(a);
  5  end;
  6  /
Enter value for a: 3
old   2: a int := &a;
new   2: a int := 3;
3

PL/SQL procedure successfully completed.

SQL>
```

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

```
SQL> declare
  2  msg varchar(20) := '&msg';
  3  begin
  4  dbms_output.put_line('You entered : '|| msg);
  5  end;
  6  /
Enter value for msg: hello
old   2: msg varchar(20) := '&msg';
new   2: msg varchar(20) := 'hello';
You entered : hello

PL/SQL procedure successfully completed.

SQL>
```

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

```
SQL> declare
  2  l int := &length;
  3  b int := &breadth;
  4  area int;
  5  begin
  6  area := l * b;
  7  dbms_output.put_line('Area of rectangle :: '||area);
  8  end;
  9  /
Enter value for length: 3
old   2: l int := &length;
new   2: l int := 3;
Enter value for breadth: 4
old   3: b int := &breadth;
new   3: b int := 4;
Area of rectangle :: 12

PL/SQL procedure successfully completed.

SQL>
```

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

```
SQL> declare
  2  en int;
  3  begin
  4  select count(*) into en from emp_devangi;
  5  dbms_output.put_line(en);
  6  end;
  7  /
14

PL/SQL procedure successfully completed.

SQL> ■
```

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

```
SQL> declare
  2  a int := &a;
  3  b int := &b;
  4  c int;
  5  begin
  6  c := a + b;
  7  dbms_output.put_line('Sum of two numbers :: '|| c);
  8  end;
  9  /
Enter value for a: 5
old   2: a int := &a;
new   2: a int := 5;
Enter value for b: 3
old   3: b int := &b;
new   3: b int := 3;
Sum of two numbers :: 8

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’.

```
SQL> begin
  2  dbms_output.put_line('You can lead a horse to water but you can''t make him drink');
  3  end;
  4  /
You can lead a horse to water but you can't make him drink

PL/SQL procedure successfully completed.

SQL>
```

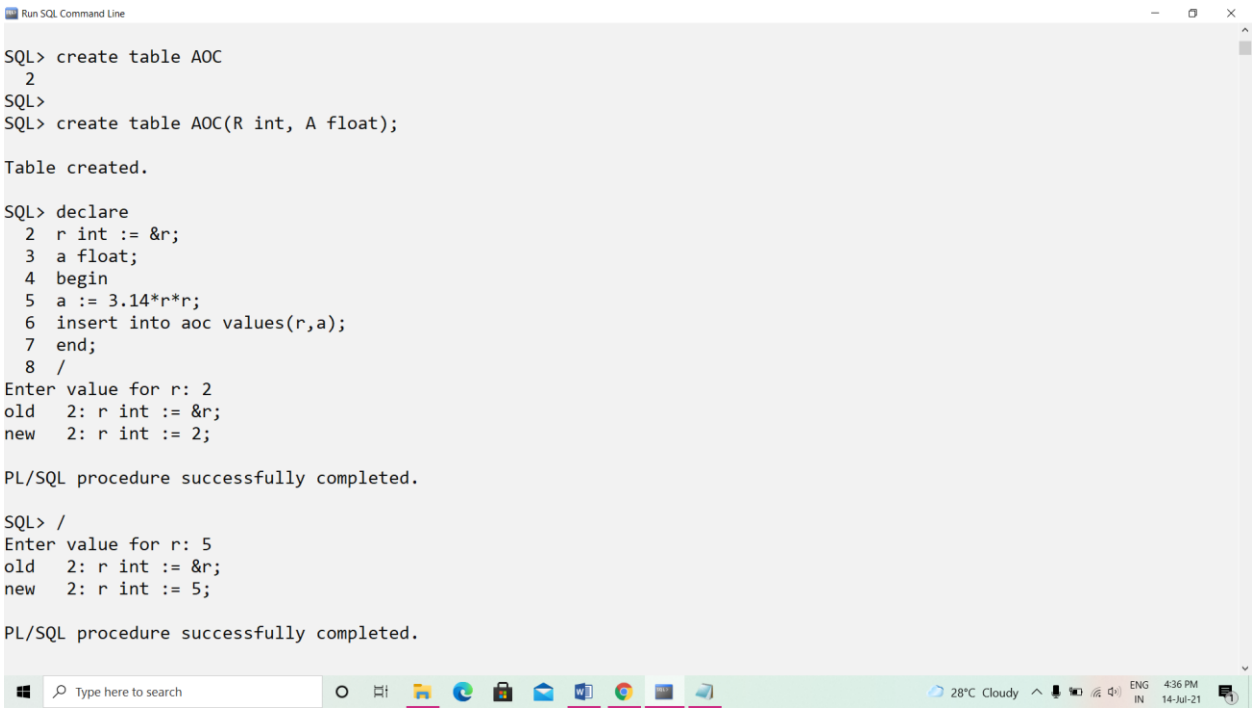
8) Write a PL/SQL block to print the name and job of an employee who is working as clerk earning salary of RS 1700

```
SQL> declare
  2  en varchar(10);
  3  j varchar(10);
  4  begin
  5  select ename,job into en,j from emp_devangi where job='CLERK' and SAL=1300;
  6  dbms_output.put_line('Employee '||en|| 'is working as '||j);
  7  end;
  8  /
Employee MILLERis working as CLERK

PL/SQL procedure successfully completed.

SQL>
```

9) Write a PL/SQL block to calculate simple interest where principle, rate and time are accepted by the user

```
SQL> declare
  2  p int := &p;
  3  r int := &r;
  4  t int := &t;
  5  cal int;
  6  begin
  7  cal := (p * r * t)/100;
  8  dbms_output.put_line('Simple interest : '||cal);
  9  end;
 10  /
Enter value for p: 1000
old   2: p int := &p;
new   2: p int := 1000;
Enter value for r: 3
old   3: r int := &r;
new   3: r int := 3;
Enter value for t: 5
old   4: t int := &t;
new   4: t int := 5;
Simple interest : 150

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.

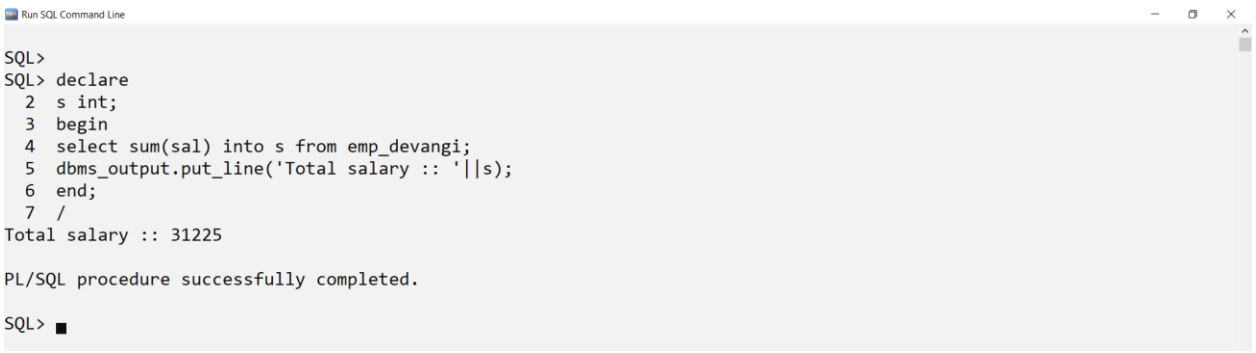


11)

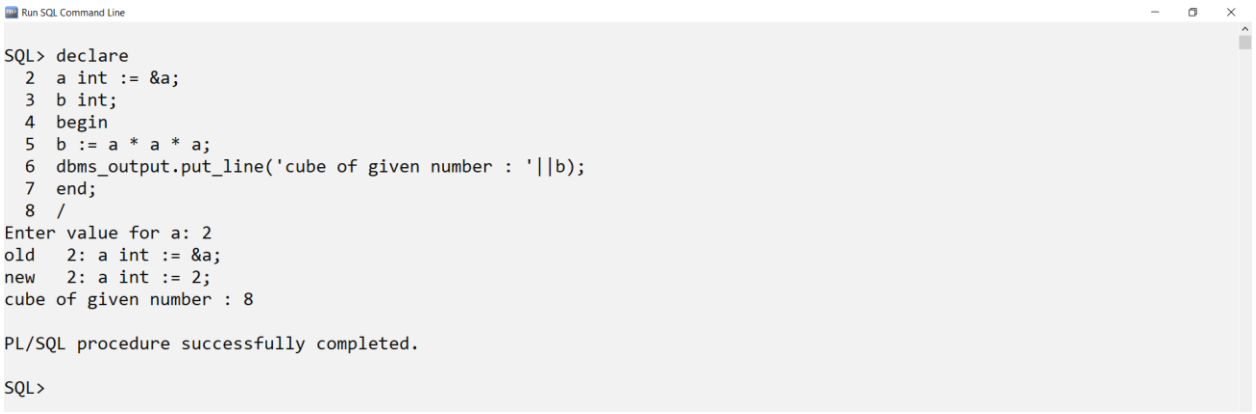
12) Write a PL/SQL block to print the total number of employees working as MANAGER in dept 10.

```
SQL> declare
  2  en int;
  3  begin
  4  select count(*) into en from emp_devangi where job='MANAGER' and deptno=10;
  5  dbms_output.put_line('Total number of employees working as MANAGER are :: '||en);
  6  end;
  7  /
Total number of employees working as MANAGER are :: 1

PL/SQL procedure successfully completed.

SQL> ■
```

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



14) Write a PL/SQL block to find the cube of a number



15) Write a block to print the message 'I'm a user'

```
SQL> begin
  2  dbms_output.put_line('I''m a user');
  3  end;
  4  /
I'm a user

PL/SQL procedure successfully completed.

SQL>
```