ASSIGNMENT NO : 5 (A)

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Roll No : 26
Batch : TE - B2

PROBLEM STATEMENT :

Write a PL/SQL code block to calculate the area of a circle for a value of radius varying from 5 to 9. Store the radius and the corresponding values of calculated area in an empty table named areas, consisting of two columns, radius and area

Output :

student@student-OptiPlex-3050:~$ -h 192.168.2.232 -u TEB26 -p
-h: command not found
student@student-OptiPlex-3050:~$ mysql -h 192.168.2.232 -u TEB26 -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 37
Server version: 5.6.41 MySQL Community Server (GPL)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database area_26;
Query OK, 1 row affected (0.00 sec)

mysql> use area_26;
Database changed
mysql> create table Circle_area
    -> (radius int,area float);
Query OK, 0 rows affected (0.28 sec)

mysql> desc Circle_area;
+--------+---------+------+-----+---------+-------+
| Field | Type | Null | Key | Default | Extra |
+--------+---------+------+-----+---------+-------+
| radius | int(11) | YES | | NULL | |

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| area   | float   | YES |     | NULL   |      |
+--------+---------+------+-----+---------+-------+
2 rows in set (0.13 sec)

mysql> drop procedure if exists Find_Circle_Area;
Query OK, 0 rows affected, 1 warning (0.00 sec)

mysql> drop procedure if exists Find_Circle_Area;
Query OK, 0 rows affected, 1 warning (0.00 sec)

mysql>
mysql> delimiter //
mysql>
mysql> create procedure Find_Circle_Area()
    -> BEGIN
    -> declare r int;
    -> declare a float;
    ->
    -> set r = 5;
    ->    loop_label:  LOOP
    ->       IF  r > 9 THEN
    ->          LEAVE  loop_label;
    ->       END  IF;
    ->
    ->       set a = 3.14 * r * r;
    ->          insert into tbl_area(Radius,Area) values(r,a);
    ->
    ->          set r = r + 1;
    ->
    ->    END LOOP;
    ->
    -> END;
    ->
    ->  //
Query OK, 0 rows affected (0.00 sec)

mysql>
mysql> delimiter ;
mysql> call Find_Circle_Area();
ERROR 1146 (42S02): Table 'area_26.tbl_area' doesn't exist
mysql> drop procedure if exists Find_Circle_Area;
Query OK, 0 rows affected (0.00 sec)

mysql>
```

```
mysql> delimiter //
mysql>
mysql> create procedure Find_Circle_Area()
    -> BEGIN
    -> declare r int;
    -> declare a float;
    ->
    -> set r = 5;
    ->    loop_label:  LOOP
    ->       IF  r > 9 THEN
    ->          LEAVE  loop_label;
    ->       END  IF;
    ->
    ->       set a = 3.14 * r * r;
    ->          insert into Circle_area(radius,area) values(r,a);
    ->
    ->          set r = r + 1;
    ->
    ->    END LOOP;
    ->
    -> END;
    ->
    ->  //
Query OK, 0 rows affected (0.00 sec)
mysql>
mysql> delimiter ;
mysql> call Find_Circle_Area();
Query OK, 1 row affected (0.29 sec)

mysql> select * from Circle_area;
+--------+--------+
| radius | area   |
+--------+--------+
|     5 |   78.5 |
|     6 | 113.04 |
|     7 | 153.86 |
|     8 | 200.96 |
|     9 | 254.34 |
+--------+--------+
5 rows in set (0.00 sec)

mysql>
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