Group A

Assignment No 5

• 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.

```
mysql> create database calculation;
Query OK, 1 row affected (0.01 sec)
mysql> use calculation;
Database changed
mysql> create table areas(r numeric(2), area numeric(14,2));
Query OK, 0 rows affected (0.02 sec)
mysql> delimiter //
mysql> create procedure proc_area()
  -> begin
  -> declare r numeric(2);
  -> declare area numeric(10,2);
  -> declare pi numeric(4,2);
  -> set pi = 3.14;
  -> set r = 5;
  -> 11
  ->:
  \rightarrow while r<=9 do
  \rightarrow set area = pi * power(r,2);
  -> insert into areas values(r,area);
  -> set r = r + 1;
  -> end
  -> while 11;
  -> end
  ->//
Query OK, 0 rows affected (0.01 sec)
mysql> delimiter;
mysql> call proc_area();
Query OK, 1 row affected (0.02 sec)
```

mysql> select * from areas;

++
r area
++
5 78.50
6 113.04
7 153.86
8 200.96
9 254.34
++
5 rows in set (0.01 sec)

Conclusion: Successfully implemented the PL/SQL code block to calculate the area of a circle for a value of radius varying from 5 to 9.

Date:	
Marks obtained:	
Sign of course	
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