Assignment No. = 7 Date:

Title: PL/SQL stored procedure and stored function.

Problem Statement:
Write a stored procedure namely proc_grade for the categorization of customer. If purchase by customer in year is <= 20000 and >= 10000 then customer will be placed in platinum category. If purchase is between 9999 and 5000, then category is gold and if purchase is between 4999 and 2000 then category is silver. Write a PL/SQL block of code using procedure created with above requirement.
Customer (cust_id, name, total_purchase)
Category (cust_id, name, class)

Objective:
1. Understand PL/SQL stored procedure.
2. Understand PL/SQL stored function.

Outcome:
We will be able to implement and understan stored functions and procedures.

Requirements:
Fedora 29, i5 processor, mouse, keyboard, monitor, 8 GB RAM, MySQL

Date :

Theory:

Stored Procedure: A stored procedure is a named PL/SQL block which performs one or more specific task. This is similar to a procedure in another programming language. A procedure has a header and a body. The header consists of the name of the procedure and parameter list. The body consists of declaration section, execution section and reception section similar to a general PL/SQL block. A procedure is similar to an anonymous PL/SQL block but it is named for reported usage.

Syntax:

```
Create [or Replace] Procedure proc_name (
 list of parameters
)
Is declaration section
Begin
    execution section
Exception
    exception section
End;
```

Date :

Stored Function: A function is a named PL/SQL block which is similar to a procedure. The major difference between a procedure and a function is, a function must always return a value, but a procedure may or may not return a value.

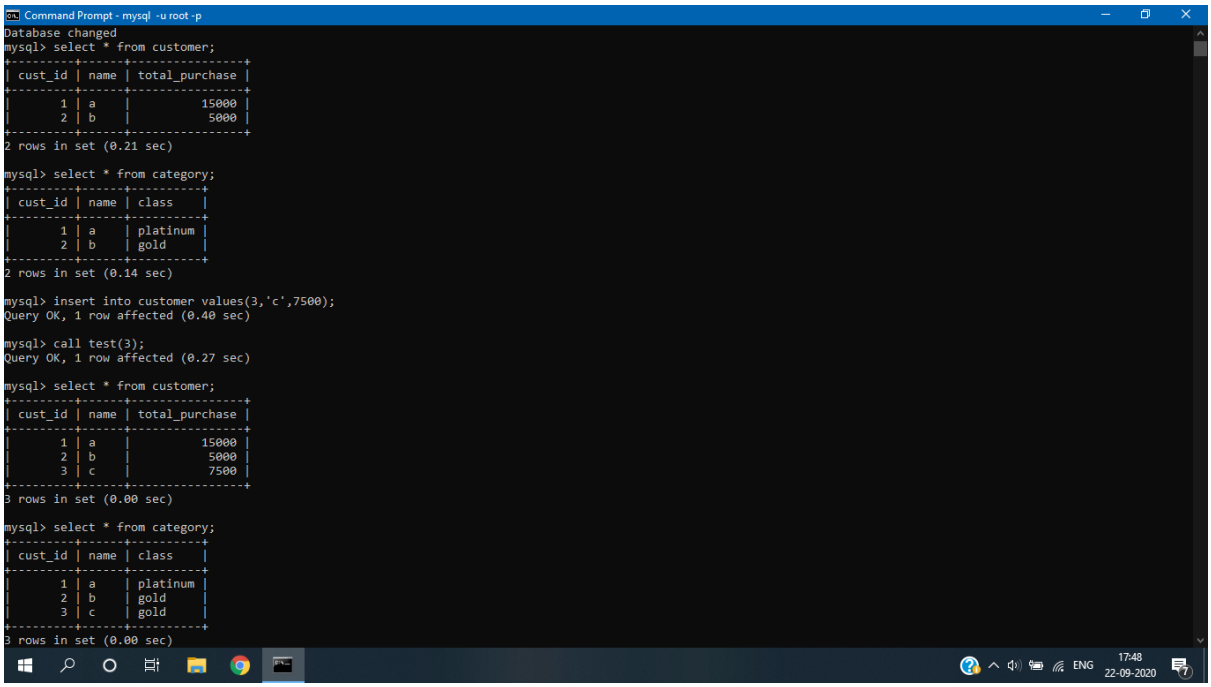
Syntax:

```
Create [or Replace] Function function_name (
  parameters
)
Is
    declaration section
Begin
    execution section
Return  value_1
Exception
Return  value_2
End;
```

Conclusion:

We have successfully understood and implemented stored procedure and function.

Output


Command Prompt - mysql -u root -p
Database changed
mysql> select * from customer;
+---------+------+----------------+
| cust_id | name | total_purchase |
+---------+------+----------------+
| 1 | a | 15000 |
| 2 | b | 5000 |
+---------+------+----------------+
2 rows in set (0.21 sec)
mysql> select * from category;
+---------+------+----------+
| cust_id | name | class |
+---------+------+----------+
| 1 | a | platinum |
| 2 | b | gold |
+---------+------+----------+
2 rows in set (0.14 sec)
mysql> insert into customer values(3,'c',7500);
Query OK, 1 row affected (0.40 sec)
mysql> call test(3);
Query OK, 1 row affected (0.27 sec)
mysql> select * from customer;
+---------+------+----------------+
| cust_id | name | total_purchase |
+---------+------+----------------+
1	a	15000
2	b	5000
3	c	7500
+---------+------+----------------+
3 rows in set (0.00 sec)
mysql> select * from category;
+---------+------+----------+
| cust_id | name | class |
+---------+------+----------+
1	a	platinum
2	b	gold
3	c	gold
+---------+------+----------+
3 rows in set (0.00 sec)
ENG
17:48
22-09-2020