```
Code:
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```
mysql> drop database if exists A7;
mysql> create database A7;
mysql> use A7;
Database changed
mysql>
mysql> CREATE TABLE customer(
     id INT,
  ->
      cust_name VARCHAR(20),
  -> total_purchase INT,
      PRIMARY KEY(id)
  ->
  ->
      );
Query OK, 0 rows affected (0.05 sec)
mysql> CREATE TABLE category(
     cust id INT,
     name VARCHAR(20),
      class VARCHAR(20),
  ->
  -> FOREIGN KEY(cust_id) REFERENCES customer(id) ON DELETE CASCADE
  ->
      );
Query OK, 0 rows affected (0.05 sec)
mysql>
mysql> INSERT INTO customer VALUES(1,"Prathamesh",9000);
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO customer VALUES(2,"Aditya",15000);
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO customer VALUES(3,"Varun",3000);
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO customer VALUES(4,"Prachi",2000);
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO customer VALUES(5,"Utkarsh",11000);
Query OK, 1 row affected (0.02 sec)
mysql> delimiter //
mysql> CREATE PROCEDURE decideCategory(IN total_purchase INT, OUT class VARCHAR(20))
  -> BEGIN
  -> IF total_purchase<= 20000 AND total_purchase>=10000 THEN SET class="PLATINUM";
  -> END IF;
  -> IF total_purchase<10000 AND total_purchase >= 5000 THEN SET class="GOLD";
  -> END IF;
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-> IF total_purchase<5000 AND total_purchase >=2000 THEN SET class="SILVER";
  -> END IF;
  -> END;
  -> //
Query OK, 0 rows affected (0.02 sec)
mysql>
mysql> CREATE PROCEDURE proc_category()
  -> BEGIN
     DECLARE cust name VARCHAR(20);
  ->
      DECLARE b INT default 0;
      DECLARE cust id INT;
  ->
  ->
      DECLARE total_purchase INT;
  ->
      DECLARE class INT:
      DECLARE c1 cursor for SELECT * FROM customer;
  ->
      DECLARE CONTINUE handler for NOT found SET b=1;
  ->
  ->
      OPEN c1;
  ->
      repeat
  ->
      FETCH c1 INTO cust_id,cust_name,total_purchase;
  ->
      IF NOT b THEN
  ->
        CALL decideCategory(total_purchase,@class);
        INSERT INTO category VALUES(cust id,cust name,@class);
  ->
  ->
      END IF:
      until b END repeat;
  ->
  -> END;
  -> //
Query OK, 0 rows affected (0.01 sec)
mysql> delimiter;
mysql> SELECT * FROM category;
Empty set (0.00 sec)
mysql>
mysql> CALL proc_category();
mysql> SELECT * FROM category;
+----+
| cust_id | name | class |
+----+
    1 | Prathamesh | GOLD |
    2 | Aditya | PLATINUM |
    3 | Varun
            | SILVER |
    4 | Prachi | SILVER |
    5 | Utkarsh | PLATINUM |
+----+
5 rows in set (0.00 \text{ sec})
mysql>
mysql> delimiter //
mysql> CREATE FUNCTION insertCategory(cust_id INT) RETURNS VARCHAR(20) deterministic
```

```
-> BEGIN
  -> DECLARE total purchase INT;
  -> DECLARE class VARCHAR(20);
  -> DECLARE cust_name VARCHAR(20);
  -> SELECT customer.cust_name,customer.total_purchase INTO cust_name,total_purchase FROM
customer WHERE customer.id=cust_id;
  -> CALL decideCategory(total_purchase,@class);
  -> INSERT INTO category VALUES(cust_id,cust_name,@class);
  -> RETURN @class;
  -> END;
  -> //
Query OK, 0 rows affected (0.02 sec)
mysql> delimiter;
mysql> DELETE FROM category;
Query OK, 5 rows affected (0.02 sec)
mysql>
mysql> SELECT insertCategory(1);
+----+
| insertCategory(1) |
+----+
| GOLD |
+-----+
1 row in set (0.01 sec)
mysql> SELECT * FROM category;
+----+
| cust_id | name | class |
+----+
   1 | Prathamesh | GOLD |
+----+
1 row in set (0.00 sec)
mysql>
```

1	Assignment A7
	THE REPORT OF THE PARTY OF THE
	Date of Completion: 28/09/2020
	Date of Submission: 12/10/2020 10/2
	The sylvery that is a sold for the first of the
	Title: PLISQL Stored Procedure & Function.
	and other links or my
	Problem Statement:
	Writing a stored procedure decide Category
	for categorization of customer IF
	purchase <= 20,000 } >= 10,000 then
	platinum category if purchase between
	5000 & 10,000 then gold category, if
	purchase between 2000 & 5000 then
	silver category. Whomas and a second
	Objective: And the state of the
100	. To understand PLISQL Stored procedure
	· To understand PL/SQL Stored procedure.
	a more distributed to the said with
_	Outcome:
_	Students will be able to
	· Write PLISQL Stored procedures.
1	· Write PLISAL stored functions
_	whomas with himselves with the
_	SIW & HIW Requirements:
_	MYSQL, Windows/linux, is processor, PLISQL.
_	
_	

	Theory:
	MYSQL:
	It supports 2 kinds of routines.
	It supports 2 kinds s. The
	(1) Stored Procedures:
	A procedure is a sub routine in a
	regular scripting language, stored
	in a database.
	IN a adjubace.
63788	· Create a stored procedure.
	Create procedure decide (ategory (params)
	begin begin
444	inthe sembert of the prome constitution
	beerd; it look me to make some
	were word in some whose in the state of the
	· calling a procedure
	Syntax:
	call decide Category (params)
*	- Links tost of antichar it.
~	· dropping a procedure:
	drop procedure decide Category;
	10 NO 3 (12) 19 1
	· Parameter modes
	Toba in Bric 1311 13 17 711 2 Charles
	1) IN: Value must be passed, original
	value is retained after procedure
	execution.
-	The committee of the second se



OUT: Value can change within the procedure E value is returned to calling application INOUT: We can pass initial value, the procedure may change it & then return it. · Stored Function: A stored function is a set of SQL statements that perform some operation 4 reform a single value. Creating Stored function Syntax: my in trivial decid many B. man 14 minner create function function (params) return datatype [characteristics] CNOT DETERMINISTIC cerpte foricition insertichment Coust of be localend; At Asimo Calling a Stored Function A stored function can be called inside a procedure or select Statement. Deterministic function: They always return the same result any time they are called with a specific set of input values.

3-53	Non deterministic function:
	returns different result each time.
	OUL TOOM
2.2	PLISAL - 1-1 - 1000 AND CAL TUDIN
	Stored procedure:
	A should procedure is a named Pulsa.
	black which performs a specific
18	tosk
30	Syntax: exec proc_name (params)
	20/0V J-0 2 D 7V0+ 3400 P
	Stored Function:
_	A function is a stored PLISQL
	block which is mis similar to a
	procedure the major difference is a
	function must always return a value.
_	· Stored function:
	A PACE TO THE PACE
	CREATE FUNCTION insert Category (GUST id INT)
_	RETURNS VARCHAR (20) deterministic
_	BEGIN
	DECLARE LOT - P INT;
100	DECLARE Closs VARCHAR(20);
	DECLARE cust-name VARCHAR(20);
	SERIECT CUSTOMEY. CUST-name customertot-p
	INTO CUST-name, tot-p From customer WHERE Customer. id = cust-id
	CAU decide Category (tot-p, @class)
	INSERT INTO Category VALUES (Custia)
	Cust name, (Qaclass)

Altra C	RETURN @ class
	END;
- 1	
	· Stored procedure with params:
	CREATE PROCEDURE decide Category (IN Lot - PINT,
	OUT CLOSS VARCHAR (20)
	BEGIN
	If tot-p <= 20000 AND #tot-p>= 10000
	THEN SET Class = "PLATINUM";
	END IF;
ř	IF tot-p < 10000 AND tot-p >>=5000
	THEN SET CLASS: "GOLD",
	END IF :
14	IF tot-p <5000 AND tot-p>=2000
	THEN SET Class = "Silver",
	END IF;
	END;
	CONCLUSION:
	Thus we implemented
	1) Stored procedure without parameters
	2) Stored procedure with parameters
	3) Stored Functions.
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