DBMSL

31147

## A Ssignment 7

Date of Completion Date of Submission.

Title: PLISQL Stored Procedure and Store Function.

Problem H. T.

White a stored Procedure namely proc Grade for the calegoryation of customer If purchases by customer in year is 20000 and >= 10000 then customer will be placed in platinum category If purchase by customer is between 9999 and 5000 category in gold if purchase between 4999 and 2000 category is silver white a PLISQI block for using procedure created with above requirement Customer (auxt id name, total purchase) category (cust-id, name, closs)

Learning Objectives:

1) Understand the concept of procedure in MSQL.

2) Understand IN, OUT, TNOUT parameters for Procedures

3) Undestand the functions implementation

Learning Outcomes.

1) Implement and learn about procedure with and without parameters.
2) Learn the use of function in MSSL.

SIN & HIW requirements.

- MYSQL

Theory:

A stored procedure is a proposed son code that you can save, so the code can be reused once and over again, some it as stored procedure, and the call it to execute it you want over a stored procedure, and the call it to execute it you can also pass parameters to a stored procedure, so that the stored procedure can set based on the parameter value.

The stored procedure can set based on the parameter value.

Advantages of procedure:
1) Reduces network traffic 11) Centralize buis eness Disadvantages of procedure: i) Resources Mages 11) Troubleshooting III) Maintenances ( We can pass parameters to procedures in three ways 1) IN parameters 2) OUT parameters 3) IN out parameters A procedure may or may not seturn a value so a stored procedure: DROP Procedure IF EXISTS proc\_name; DELIMITER CREATE PROCEDURE proc-name parami type! parcima type2) BEGIN SQL statements and queries END 11 DELIMITER; Procedure can be invoked by CALL proc name (param); parame); Functions: A function is a named PL SQI block w a protedure. The major difference is that a. roturn a value, but a lettered procedure may or may not return value.

Systax CREATE FUNCTION fur name (parameter) Rotrorn data you [characteristic] BEGIN my sai statements AFTURN Expression, END. ER Diagram custid category Customer (total purdane Source Lade parameterized procedure DELIMITER !

CREATE PROCEDURE picc grade (IN cost no INT, OUT classagged VARGUAR (100)) BEGIN

DECLARE total price INT;

SCLECT total-purchase into total price From customer WHERE cust id = cust no; IF total price BETWEEN 10000 AND 20000 THEN

SET day assigned = "Hatinum";

ELBETT total price BETWEEN 5000 AND 9999 THEN

ser day original = "Gold";

FISHER total price BETWEEN 2000 AND 4999 THEN For charassigned = "silver";

FND IF

WEETE enlegery SET class assigned where cout id-court no;

```
cust id | cust name | class
          Will
      1
                       NULL
       2
          John
                       NULL
       3
          Smith
                       NULL
      4
          James
                       NULL
       5
          Harry
                       NULL
      6
          Donald
                       NULL
       7
          New
                       NULL
rows in set (0.00 sec)
ysql> SELECT * FROM customer;
                  total purchase
cust id | name
          Will
      1
                               2000
       2
          John
                               5000
       3
          Smith
                              4999
      4
          James
                              9989
      5
          Harry
                             15000
      6
          Donald
                             10000
      7
         New
                              5200
rows in set (0.01 sec)
ysql> CALL proc_grade_parametized2(1,@cat);
uery OK, 1 row affected (0.01 sec)
ysql> SELECT @cat;
@cat
Silver
row in set (0.00 sec)
ysql> SELECT * FROM category;
cust_id | cust_name | class
          Will
      1
                       Silver
      2
          John
                       NULL
      3
          Smith
                       NULL
      4
          James
                       NULL
      5
          Harry
                       NULL
      6
          Donald
                       NULL
```

MySQL 8.0 Command Line Client

ysql> SELECT \* FROM category;

Euration	
CREATE FUNCTION Sure-grade (cust no INT) RETURNS VAR	CHAR (100)
BEGIN	
DECLARE Cust down VARCHAR(100);	0
DECLARE total-price INT;	
SELECT total purchase TNTO total price FROM customer WHERE	cust id = cust no
IF total price BETWEEN 10000 AND 20000 THEN	
SET cust-class = "Platinum";	
FISETE Jotal price BETWEEN 5000 AND 9999 THEN	
SET cust class = "Gold";	
ELSETE total-price BETHEEN 2000 AND 4999 THEN	
SET cust class = "silver";	
END IF;	
UPDATE category SET class = Cust-class WHERE cust it = cust RETURN cust-class;	No.
KETURN cust class,	A CONTRACTOR
ENO /	
Test Case:	
Category Table Customer Jable	
cust-id cust-name class cust-id cust-name tota	Lourchase
	000
5 Harry NULL 5 Harry 15	000
> CALL procgrade (1, Ocat); After category Upgs	
SELECT Boot custid Buthome	class
	Silver
! _ silver_1 5 Havey	Patinum
> CALL proc grade (5, Qcat);	400
SELECT COLCOT	
[ @cot ]	
1 Platinum!	1
Carl signi	
Conclusion:	ad abound
We have understood and successfully implemented procedure and stored function in PH 591.	el species
quetous son some species and son	