

Ex:No: 14

Date:

HIGH LEVEL PROGRAMMING EXTENSIONS (PROCEDURES)

Aim:

To implement procedures using program in MySQL.

Program 1:

Create a simple procedure to get all the records from the table 'student_info' which have the following data:

```
mysql> select * from student_info;
```

id	Name	Address	Subject
100	Aarav	Delhi	Computers
101	YashPal	Amritsar	History
105	Gaurav	Jaipur	Literature
110	Rahul	Chandigarh	History

Program 2:

Create a stored procedure GetCustomerLevel() that accepts two parameters customer number and customer level.

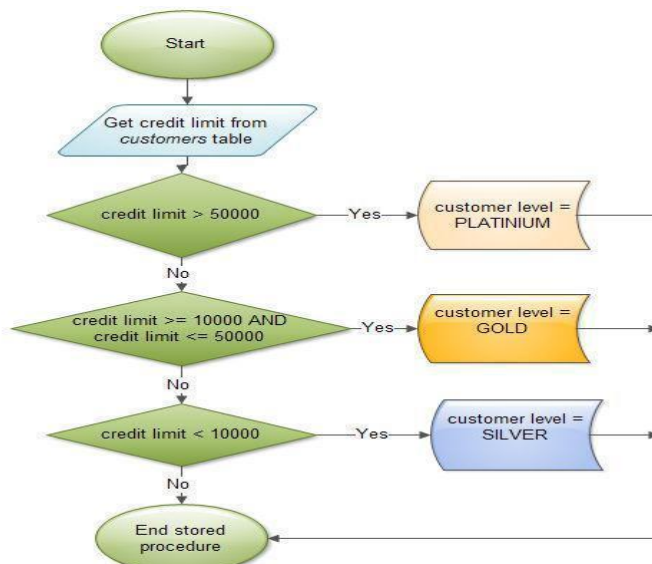
□ First, it gets the credit limit from the customers table. □

Then, based on the credit limit, it determines the customer level:

PLATINUM , GOLD , an SILVER. □

The parameter p_customerlevel stores the level of the customer and is used by the calling program.

The following flowchart demonstrates the logic of determining customer level.



The table 'customers' should have the following attributes:

customers(cno
, cname, creditlimit)

OUTPUTS :

Program 1:

```
mysql> CREATE PROCEDURE student_info()  
-> select * from student_info;  
Query OK, 0 rows affected (0.00 sec)  
  
mysql> call student_info();  
+-----+  
| stuid | name | area | subject |  
+-----+  
| 201 | raj | chennai | dbms |  
| 202 | rahul | hyderabad | ooad |  
| 203 | rahim | munbai | java |  
| 204 | vikas | kochi | python |  
+-----+  
4 rows in set (0.00 sec)  
  
Query OK, 0 rows affected (0.00 sec)
```

Program 2:

```
mysql> DELIMITER $$  
mysql>  
mysql> CREATE PROCEDURE GetCustomerLevel(  
-> in p_customerNumber int(11),  
-> out p_customerLevel varchar(10))  
-> BEGIN  
-> DECLARE creditlim double;  
->  
-> SELECT creditlimit INTO creditlim  
-> FROM customers  
-> WHERE customerNumber = p_customerNumber;  
->  
-> IF creditlim > 50000 THEN  
-> SET p_customerLevel = 'PLATINUM';  
-> ELSEIF (creditlim <= 50000 AND creditlim >= 10000) THEN  
-> SET p_customerLevel = 'GOLD';  
-> ELSEIF creditlim < 10000 THEN  
-> SET p_customerLevel = 'SILVER';  
-> END IF;  
->  
-> END$$  
Query OK, 0 rows affected (0.00 sec)
```

RESULT: Thus the program in MySQL executed successfully.