**Name :**

**Roll No :**

**Title :** Write and execute PL/SQL stored procedure and function to perform a suitable task on the database. Demonstrate its use.

mysql> show databases;

+ +

| Database |

+ +

| information\_schema |

| mysql |

| performance\_schema |

| sli\_prac |

| sys |

| teit\_dbms |

+ +

6 rows in set (0.00 sec)

mysql> use sli\_prac; Database changed

# \*\*PROCEDURE EXAMPLES\*\*

**\*Example 1:**

mysql> delimiter //

mysql> create procedure pr()

-> begin

-> select id,name from emp;

-> end

-> //

Query OK, 0 rows affected (0.34 sec)

mysql> delimiter ;

mysql> call pr();

+ + +

| id | name |

+ + +

| 1000 | John |

| 1002 | Frank |

| 1003 | Jonas |

| 1004 | John |

+ + +

4 rows in set (0.15 sec)

Query OK, 0 rows affected (0.19 sec)

# \*Example 2:

mysql> delimiter //

mysql> create procedure helloworld()

-> begin

-> select 'Hello World!';

-> end

-> //

Query OK, 0 rows affected (0.93 sec) mysql> delimiter ;

mysql> call helloworld();

+ +

| Hello World! |

+ +

| Hello World! |

+ +

1 row in set (0.09 sec)

Query OK, 0 rows affected (0.11 sec)

# \*Example 3:

mysql> delimiter //

mysql> create procedure cal\_sum()

-> begin

-> declare a,b,c int;

-> set a=10;

-> set b=20;

-> set c=a+b;

-> select a,b,c as sum;

-> end //

Query OK, 0 rows affected (0.02 sec) mysql> delimiter ;

mysql> call cal\_sum();

+ + + +

| a | b | sum |

+ + + +

| 10 | 20 | 30 |

+ + + +

1 row in set (0.00 sec)

Query OK, 0 rows affected (0.01 sec)

# \*\*FUNCTION EXAMPLES\*\*

**\*Example 1:**

mysql> create function hello(p char(20))

-> returns char(20) deterministic

-> return concat('Hello ',p); Query OK, 0 rows affected (0.54 sec) mysql> select hello('World');

+ +

| hello('World') |

+ +

| Hello World |

+ +

1 row in set (0.11 sec)

# \*Example 2:

mysql> delimiter $$

mysql> create function cal\_grade(s1 int,s2 int,s3 int)

-> returns varchar(20) deterministic

-> begin

-> declare t int;

-> declare grade varchar(20);

-> set t=(s1+s2+s3)/3;

-> if t>80 then

-> set grade='Distinction';

-> elseif (t>=75 and t<=80) then

-> set grade='A+';

-> elseif (t>=71 and t<=74) then

-> set grade='A';

-> elseif (t>=65 and t<=70) then

-> set grade='B+';

-> elseif (t>=60 and t<=64) then

-> set grade='B';

-> elseif (t>=55 and t<=59) then

-> set grade='C+';

-> elseif ( t>=50 and t<=54 ) then

-> set grade='C';

-> elseif ( t>=35 and t<=40 ) then

-> set grade='FAIL';

-> end if;

-> return (grade);

-> end $$

Query OK, 0 rows affected (0.01 sec) mysql> delimiter ;

mysql> select Roll\_no,Name,sub1,sub2,sub3,cal\_grade(sub1,sub2,sub3) as Grade from stud;

+ + + + + + +

| Roll\_no | Name | sub1 | sub2 | sub3 | Grade |

+ + + + + + +

| 1 | John | 90 | 95 | 97 | Distinction |

| 2 | Mark | 80 | 85 | 77 | Distinction |

| 3 | Jonas | 65 | 64 | 63 | B |

| 4 | Jay | 50 | 55 | 60 | C+ |

| 5 | Frank | 35 | 30 | 40 | FAIL |

+ + + +

5 rows in set (0.00 sec)

+ + +