

Practical no.08

```
student@student:~$ sudo mysql
[sudo] password for student:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 8.0.36-0ubuntu0.22.04.1 (Ubuntu)
```

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> use sli_prac;
Database changed
mysql> delimiter //
mysql> create procedure pr()
-> begin
-> select id , name from emp;
-> end
-> //
```

Query OK, 0 rows affected (0.28 sec)

```
mysql> delimiter ;
mysql> create table emp (id int primary key, Name varchar(15) not null,
Address varchar(30));
Query OK, 0 rows affected (0.56 sec)
```

```
mysql> insert into emp values(1003, 'ABC', 'Pune');
Query OK, 1 row affected (0.10 sec)
```

```
mysql> insert into emp values(1004, 'XYZ', 'Mumbai');
Query OK, 1 row affected (0.08 sec)
```

```
mysql> insert into emp values(1005, 'PQR', 'Nagpur');
Query OK, 1 row affected (0.06 sec)
```

```
mysql> insert into emp values(1006, 'STU', 'Nanded');
Query OK, 1 row affected (0.10 sec)
```

```
mysql> insert into emp values(1007, 'MNO', 'Amravati');
Query OK, 1 row affected (0.08 sec)
```

```
mysql> delimiter ;
mysql> call pr();
```

```

+-----+-----+
| id    | name  |
+-----+-----+
| 1003  | ABC   |
| 1004  | XYZ   |
| 1005  | PQR   |
| 1006  | STU   |
| 1007  | MNO   |
+-----+-----+
5 rows in set (0.00 sec)

```

Query OK, 0 rows affected (0.00 sec)

```

mysql> delimiter //
mysql> create procedure helloworld()
    -> begin
    -> select 'Hello World!';
    -> end
    -> //
Query OK, 0 rows affected (0.11 sec)

```

```

mysql> delimiter ;
mysql> call helloworld();
+-----+
| Hello World! |
+-----+
| Hello World! |
+-----+
1 row in set (0.00 sec)

```

Query OK, 0 rows affected (0.00 sec)

```

mysql>
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 (0.22 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 (0.00 sec)

```
mysql> create function hello (p char(20))
-> returns char(20) deterministic
-> return concat('Hello' ,p);
```

Query OK, 0 rows affected (0.11 sec)

```
mysql> select hello('World');
```

```
+-----+
| hello('World') |
+-----+
| HelloWorld      |
+-----+
1 row in set (0.01 sec)
```

```
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 (0.12 sec)

```
mysql> delimiter ;
```

```
mysql> create table stud (Roll_no int primary key, Name varchar(20), sub1
int, sub2 int, sub3 int, Grade varchar(30));
```

Query OK, 0 rows affected (0.45 sec)

mysql> insert into stud values (1, 'abc', 56, 89, 79, 'a');

Query OK, 1 row affected (0.08 sec)

mysql> insert into stud values (2, 'xyz', 86, 89, 99, 'a');

Query OK, 1 row affected (0.09 sec)

mysql> insert into stud values (3, 'mno', 89, 78, 95, 'a');

Query OK, 1 row affected (0.09 sec)

mysql> insert into stud values (4, 'pqr', 99, 98, 90, 'a');

Query OK, 1 row affected (0.08 sec)

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	abc	56	89	79	A+
2	xyz	86	89	99	Distinction
3	mno	89	78	95	Distinction
4	pqr	99	98	90	Distinction

4 rows in set (0.01 sec)

mysql> insert into stud values (5, 'jkl', 32, 44, 50, 'a');

Query OK, 1 row affected (0.07 sec)

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	abc	56	89	79	A+
2	xyz	86	89	99	Distinction
3	mno	89	78	95	Distinction
4	pqr	99	98	90	Distinction
5	jkl	32	44	50	NULL

5 rows in set (0.01 sec)