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Enrollment number - 21162101012

Branch - CBA , Batch - 31

DBMS Practical 15

**Institute of computer technology
Ganpat university
B.tech. CSE (CBA/BDA/CS)**

(2CSE301) DATABASE MANAGEMENT SYSTEM

PRACTICAL 15 (Stored Function)

1. Create a function findmax() which returns max number from given two number.

```
mycli -h haribol64 -
5.1 kb/s 4.9 kb/s 12:44:13 PM
mycli -h haribol64 -

MariaDB yash@haribol64 in prac_15 > delimiter //
Changed delimiter to //
Time: 0.000s

MariaDB yash@haribol64 in prac_15 > create function findmax(a int, b int) returns int
--> deterministic
--> begin
--> declare max int;
--> if a>b then
--> set max=a;
--> elseif b>a then
--> set max=b;
--> end if;
--> return max;
--> end
--> //

Query OK, 0 rows affected
Time: 0.011s

MariaDB yash@haribol64 in prac_15 > select findmax(10,20)//
+-----+
| findmax(10,20) |
+-----+
| 20             |
+-----+

1 row in set
Time: 0.007s

MariaDB yash@haribol64 in prac_15 >

(Delimiter [//] will end the line) [F3] Multiline: ON
```

2. Create a function findgrade() Calculate grade based on marks and returns grade.

Marks

Grade

Marks>=90

A+

Marks<90 and Marks>=80

A

Marks <80 and Marks >=70

B+

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| | |
|--------------------------|----|
| Marks <70 and Marks >=60 | B |
| Marks <60 and Marks >=50 | C+ |
| Marks <50 and Marks >=40 | C |
| Marks <40 | F |

```
mycli -h haribol64 -
772.0 b/s 4.1 kb/s 12:49:05 PM
mycli -h haribol64 -

MariaDB yash@haribol64 in prac_15 > create function findgrade(a int) returns varchar(3)
--> deterministic
--> begin
--> declare grade varchar(3);
--> if a>=90 then
--> set grade="A+";
--> elseif a>=80 then
--> set grade="A";
--> elseif a>=70 then
--> set grade="B+";
--> elseif a>=60 then
--> set grade="B";
--> elseif a>=50 then
--> set grade="C+";
--> elseif a>=40 then
--> set grade="C";
--> else
--> set grade="F";
--> end if;
--> return grade;
--> end
--> //

Query OK, 0 rows affected
Time: 0.009s

MariaDB yash@haribol64 in prac_15 > select findgrade(90)//
+-----+
| findgrade(90) |
+-----+
| A+            |
+-----+

1 row in set
Time: 0.008s

MariaDB yash@haribol64 in prac_15 >
```

3. Create function which returns Percentage of student from student table based on rollno.

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```
mycli -h haribol64 -
496.0 b/s 7.8 kb/s 12:50:18 PM
mycli -h haribol64 -

MariaDB yash@haribol64 in prac_15 > drop function findper;
--> //
You're about to run a destructive command.
Do you want to proceed? (y/n): y
Your call!
Query OK, 0 rows affected
Time: 0.008s

MariaDB yash@haribol64 in prac_15 > create function findper(a int) returns int
--> deterministic
--> begin
--> declare p int;
--> select Percentage into p from Student where a=rollno;
--> return p;
--> end
--> //
Query OK, 0 rows affected
Time: 0.009s

MariaDB yash@haribol64 in prac_15 > select findper(1)//
+-----+
| findper(1) |
+-----+
| 80         |
+-----+

1 row in set
Time: 0.007s

MariaDB yash@haribol64 in prac_15 >

(Delimiter [//] will end the line) [F3] Multiline: ON
```

4. Create function which returns number of student from student table based on branch.

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```
mycli -h haribol64 ~
MariaDB yash@haribol64 in (none) > use prac_15;
You are now connected to database "prac_15" as user "yash"
Time: 0.000s

MariaDB yash@haribol64 in prac_15 > delimiter //
Changed delimiter to //
Time: 0.000s

MariaDB yash@haribol64 in prac_15 > create function findno(a text) returns int
--> deterministic
--> begin
--> declare p int;
--> select count(*) into p from Student where a=branch;
--> return p;
--> end
--> //

Query OK, 0 rows affected
Time: 0.009s

MariaDB yash@haribol64 in prac_15 > select findno("CBA");//
+-----+
| findno("CBA") |
+-----+
| 3             |
+-----+

1 row in set
Time: 0.005s

MariaDB yash@haribol64 in prac_15 > 
```

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5. Create a function that returns yesterday's date.

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```
mycli -h haribol64 -
0.0 b/s 0.0 b/s 12:53:46 PM
mycli -h haribol64 -

| findno("CBA") |
+-----+
| 3             |
+-----+

1 row in set
Time: 0.005s

MariaDB yash@haribol64 in prac_15 > create function yesterdaydate() returns date
--> deterministic
--> begin
--> declare b date;
--> select date_sub(curdate(), interval 1 day) into b;
--> return b;
--> end
--> //

Query OK, 0 rows affected
Time: 0.006s

MariaDB yash@haribol64 in prac_15 > select yesterdaydate()//
+-----+
| yesterdaydate() |
+-----+
| 2022-11-23      |
+-----+

1 row in set
Time: 0.003s

MariaDB yash@haribol64 in prac_15 >

(Delimiter [//] will end the line) [F3] Multiline: ON
```

6. Create a function that returns tommorrow's date.

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```
mycli -h haribol64 ~
0.0 b/s 0.0 b/s 12:54:15 PM
mycli -h haribol64 ~

| yesterdaydate() |
+-----+
| 2022-11-23      |
+-----+

1 row in set
Time: 0.003s

MariaDB yash@haribol64 in prac_15 > create function tomorrowdate() returns date
--> deterministic
--> begin
--> declare b date;
--> select date_add(curdate(), interval 1 day) into b;
--> return b;
--> end
--> //

Query OK, 0 rows affected
Time: 0.009s

MariaDB yash@haribol64 in prac_15 > select tomorrowdate();//
+-----+
| tomorrowdate() |
+-----+
| 2022-11-25      |
+-----+

1 row in set
Time: 0.008s

MariaDB yash@haribol64 in prac_15 >

(Delimiter [//] will end the line) [F3] Multiline: ON
```

7. Create a function that Calculate number of days between two date and returns it

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```
mycli -h haribol64 -
26.1 kb/s 38.3 kb/s 1:03:06 PM
mycli -h haribol64 -

| tomorrowdate() |
+-----+
| 2022-11-25     |
+-----+

1 row in set
Time: 0.008s

MariaDB yash@haribol64 in prac_15 > create function diff(d1 date, d2 date) returns int
--> deterministic
--> begin
--> declare da int;
--> select datediff(d1,d2) into da;
--> return da;
--> end
--> //

Query OK, 0 rows affected
Time: 0.009s

MariaDB yash@haribol64 in prac_15 > select datediff("2022-11-24","2002-10-10");//
+-----+
| datediff("2022-11-24","2002-10-10") |
+-----+
| 7350                                |
+-----+

1 row in set
Time: 0.008s

MariaDB yash@haribol64 in prac_15 >

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```

8. Create a function that Calculate number of days between today and your birthdate returns it.

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```
mycli -h haribol64 ~
752.0 b/s 528.0 b/s 1:03:42 PM

| datediff("2022-11-24","2002-10-10") |
+-----+
| 7350 |
+-----+

1 row in set
Time: 0.008s

MariaDB yash@haribol64 in prac_15 > create function bday(d1 date) returns int
--> deterministic
--> begin
--> declare x int;
--> select datediff(d1,curdate()) into x;
--> return x;
--> end
--> //

Query OK, 0 rows affected
Time: 0.011s

MariaDB yash@haribol64 in prac_15 > select bday("2002-10-10");//
+-----+
| bday("2002-10-10") |
+-----+
| -7350 |
+-----+

1 row in set
Time: 0.008s

MariaDB yash@haribol64 in prac_15 >

(Delimiter [//] will end the line) [F3] Multiline: ON
```

9. Create a function that Calculate Age From Date Of Birth and returns age.

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```
mycli -h haribol64 ~
752.0 b/s 528.0 b/s 1:03:42 PM
mycli -h haribol64 ~

| datediff("2022-11-24","2002-10-10") |
+-----+
| 7350 |
+-----+

1 row in set
Time: 0.008s

MariaDB yash@haribol64 in prac_15 > create function bday(d1 date) returns int
--> deterministic
--> begin
--> declare x int;
--> select datediff(d1,curdate()) into x;
--> return x;
--> end
--> //

Query OK, 0 rows affected
Time: 0.011s

MariaDB yash@haribol64 in prac_15 > select bday("2002-10-10");//
+-----+
| bday("2002-10-10") |
+-----+
| -7350 |
+-----+

1 row in set
Time: 0.008s

MariaDB yash@haribol64 in prac_15 >

(Delimiter [//] will end the line) [F3] Multiline: ON
```