

## **ASSIGNMENT 8**

Create a database named college

Create a table name student in college database with following structure  
roll,name,class,marks,age with respective data types.

Insert at least 7 entries in it.

1) Create a procedure to pass the range of marks as input and print names of the students who lie in the range.

```
mysql> create procedure display(in x int, in y int) begin select marks from student where marks  
between x and y; end&&
```

```
Query OK, 0 rows affected (0.18 sec)
```

```
mysql> delimiter ;
```

```
mysql> call display(50,80);
```

```
+-----+
```

```
| marks |
```

```
+-----+
```

```
| 69.36 |
```

```
| 78.56 |
```

```
| 56.23 |
```

```
+-----+
```

```
3 rows in set (0.01 sec)
```

```
Query OK, 0 rows affected (0.01 sec)
```

2) Create a procedure to display the summary table of the student record. including sum, average, minimum and maximum of marks.

```
mysql> create procedure summary() begin select sum(marks) as Sum, avg(marks) as Average, min(marks) as Minimum, max(marks) as Maximum from student; end;&&
```

Query OK, 0 rows affected (0.11 sec)

```
mysql> delimiter ;
```

```
mysql> call summary();
```

|                    |                   |         |         |
|--------------------|-------------------|---------|---------|
| Sum                | Average           | Minimum | Maximum |
| 468.23999786376953 | 66.89142826625279 | 42.36   | 89.25   |

1 row in set (0.01 sec)

Query OK, 0 rows affected (0.01 sec)

3) Create a procedure to input the roll number of student and output the marks of the same.

```
mysql> delimiter &&
```

```
mysql> create procedure get_marks(in rno int, out mks float) begin select marks into mks from student where roll=rno;
```

Query OK, 0 rows affected (0.10 sec)

```
mysql> call get_marks(4,@mks);
```

Query OK, 1 row affected (0.00 sec)

```
mysql> select @mks;
```

|                   |
|-------------------|
| @mks              |
| 78.55999755859375 |

1 row in set (0.00 sec)

4) Create a procedure to input the minimum and maximum roll number and output the average of the marks in the given range of roll numbers.

```
mysql> delimiter &&
mysql> create procedure accept(in a float, inout b float)
    -> begin
    -> select avg(marks) into b from student where roll between a and b;
    -> end &&
Query OK, 0 rows affected (0.10 sec)
mysql> delimiter ;
mysql> set @a = 2;
mysql> set @b = 6;

mysql> call accept(@a,@b);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select @b;
+-----+
| @b    |
+-----+
| 68.52999877929688 |
+-----+
1 row in set (0.00 sec)
```

5) Write a procedure to find the count of students whose marks are below 70%

```
mysql> delimiter &&
mysql> create procedure value() begin select count(marks) from student where marks<70;
end&&
Query OK, 0 rows affected (0.11 sec)
```

```
mysql> delimiter ;
mysql> call value();
+-----+
| count(marks) |
+-----+
| 4 |
+-----+
1 row in set (0.00 sec)
```

```
Query OK, 0 rows affected (0.00 sec)
```