**LAB EXERCISES**

**EX.NO:04**

**APPLYING BUILT-IN FUNCTIONS**

**AIM:**

**To create a table ‘Student’ with marks field for 10 students and to apply built-in functions to do calculations.**

**PROCEDURE:**

1. **Using the database 'College':**

* **mysql> USE College;**
* **Database changed**

1. **Creating a table 'Student':**

* **mysql> CREATE TABLE Student(Regno char(7), Name varchar(20),Dept varchar(15), Class varchar(11),ITE int(3), RDBMS int(3),BCS int(3));**
* **Query OK, 0 rows affected, 3 warnings (0.05 sec)**
* **mysql> DESCRIBE Student;**

1. **Inserting rows in 'Student':**

* **mysql> INSERT INTO Student VALUES('CI1001','Harish’,'Civil', 'First Year',45,68,30);**
* **Query OK, 1 row affected (0.01 sec)**
* **mysql> INSERT INTO Student VALUES('C11002','Murugan','Civil', 'Second Year',80,85,95);**
* **Query OK, 1 row affected (0.01 sec)**
* **mysql> INSERT INTO Student VALUES('ME1001','Dharun', 'Mech', 'Third Year',66,75,77);**
* **Query OK, 1 row affected (0.01 sec)**
* **mysql> INSERT INTO Student VALUES('ME1002', 'Arun', 'Mech', 'Second Year',93,85,74);**
* **Query OK, 1 row affected (0.01 sec)**
* **mysql> INSERT INTO Student VALUES ('EE1001','Anitha', 'EEE', 'First Year',45,48,50);**
* **Query OK, 1 row affected (0.01 sec)**
* **mysql> INSERT INTO Student VALUES ('EE1002', 'Balan', 'EEE', 'Third Year',35,38,45);**
* **Query OK, 1 row affected (0.01 sec)**
* **mysql> INSERT INTO Student VALUES ('EC1001','Kiran', 'ECE', 'Second Year',72,68,69);**
* **Query OK, 1 row affected (0.01 sec)**
* **mysql> INSERT INTO Student VALUES ('EC1002', 'Keerthi', 'ECE', Third Year',98,96,94);**
* **Query OK, 1 row affected (0.01 sec)**
* **mysql> INSERT INTO Student VALUES ('CO1001','Priya', 'Computer', 'Third Year',72,78,94);**
* **Query OK, 1 row affected (0.01 sec)**
* **mysql> INSERT INTO Student VALUES ('CO1002', 'Gokul', 'Computer', 'First Year',70,86,89);**
* **Query OK, 1 row affected (0.01 sec)**
* **mysql> SELECT\* FROM Student;**
* **10 rows in set (0.00 sec)**

1. **Applying Built-in functions:**

**a) COUNT():**

* **mysql> SELECT COUNT(\*) FROM Student;**
* **1 row in set (0.01 sec)**

**b) SUM():**

* **mysql> SELECT SUM(ITE+RDBMS+BCS) AS Mark FROM Student GROUP BY Regno;**
* **11 rows in set (0.01 sec)**

**c) MAX():**

* **mysql> SELECT MAX(BCS) FROM Student WHERE Dept=’Mech’;**

**d) MIN():**

* **mysql> SELECT MIN(RDBMS) FROM Student WHERE Dept=’Civil’;**

**e) STD();**

* **mysql> SELECT STD(ITE) FROM Student;**

**f) AVG();**

* **mysql> SELECT AVG(BCS) FROM Student WHERE Dept=’EEE’;**

**RESULT:**

**Thus the above MYSQL commands are executed and the output is obtained.**