

Government Engineering College, Thrissur

# **APPLICATION SOFTWARE DEVELOPMENT LAB**

Documentation -

Exp4 – SET VARIOUS CONSTRAINTS

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## EXPERIMENT : 4

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**AIM :** Creating a database to set various constraints.

**DESCRIPTION :**

### **CONSTRAINTS**

Constraints are the rules that we can apply on the type of data in a table. That is, we can specify the limit on the type of data that can be stored in a particular column in a table using constraints.

The available constraints in SQL are:

**NOT NULL:** This constraint tells that we cannot store a null value in a column. That is, if a column is specified as NOT NULL then we will not be able to store null in this particular column any more.

**UNIQUE:** This constraint when specified with a column, tells that all the values in the column must be unique. That is, the values in any row of a column must not be repeated.

**PRIMARY KEY:** A primary key is a field which can uniquely identify each row in a table. And this constraint is used to specify a field in a table as primary key.

**FOREIGN KEY:** A Foreign key is a field which can uniquely identify each row in a another table. And this constraint is used to specify a field as Foreign key.

**CHECK:** This constraint helps to validate the values of a column to meet a particular condition. That is, it helps to ensure that the value stored in a column meets a specific condition.

**DEFAULT:** This constraint specifies a default value for the column when no value is specified by the user.

### **EXECUTION STEPS:**

1. Create and use a database say mess using the following commands

a. `mysql> create database mess;`

b. `mysql> use mess;`

2. Execute the batch script for the 4th Experiment (exp4.sql) using either of the following commands to create the data tables.

To run the SQL script files,

1. Login in to the MySQL Server using `# mysql -u root -p`

2. Use the SQL files as source files for executing the script while logged in to the ser

`# source sql file exp4.sql`