MES College of Engineering Pune-01

Department of Computer Engineering

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Semester/Year: 5th/2020	**Roll No: 047**
Date of Performance:	**Date of Submission:**
Examined By:	**Experiment No: Part A-01**

GROUP: A ASSIGNMENT NO: 01

AIM: Study of Open Source Relational Databases : MySQL

OBJECTIVES:

- To develop basic, intermediate and advanced Database programming skills.
- To develop basic Database administration skill.

APPRATUS:

- Operating System recommended: 64-bit Open source Linux or its derivative
- SQL Database: MySql: 5.5.54

INSTALLATION STEP:

Step 1: Open terminal

Alt+Ctrl+t

Step 2: Update your system

sudo apt-get update

Step 3: ***Install MySQL***

sudo apt-get install mysql-server

Step 4: Root Login

mysql -u root -p

Step 5: ***Create a New Database***

create database mydatabase;

Step 6:*Exit MySQL.*

exit

For see the version use:m*ysql --version*

QUESTIONS:

1. What is Relational Database Management System?
2. What is Mysql Server?
3. What are the features of MySql?
4. What is default port for mysql server?
5. List the different Datatypes in MySql.
6. Explain DML,DDL,and DCL with syntax
7. Write down the command to get list of databases and tables in MySql**.**

Q1 What is Relational Database Management System?

Ans A relational database is a type of database that stores and provides access to data points that are related to one another. Relational databases are based on the relational model, an intutive straightforward way of representing data in tables. In relational database, each row in the table is a record with unique ID is called a key. The columns of the table hold, attributes of the data, and each record usually has a value for each attribute, making it easy to establish the relationships among data inputs.

Q2 What is MySQL server?

Ans MySQL server is a SQL complaint server, in other words it is a relational model database server. The MySQL database software is a server system that consists of a multithread SQL server that supports different back ends, several different client programs and libraries, administrative tools, and a wide range of API's.

Q3 What are the features of MySQL?

Ans The features of MySQL are:

1] Easy to use

2] It is secure.

3] MySQL follows the working of a client/server architecture

4] Free to download
5] High flexibility
6] It is scalable
7] Allows roll-back
8] Memory efficieny
9] Compatible of many operating systems

Q4 What is the default port of MySQL server?

Ans Port 3306 is the ~~default~~ default port for MySQL server.

Q5 List the different datatypes in MySQL.

Ans The different datatypes in MySQL are:
1] char (size)
2] varchar (size)
3] Int (size)
4] date
5] datetime (fsp)
6] timestamp (fsp)
7] float (p)
8] bool
9] boolean.

Q6 Explain DML, DDL and DCL with syntax.

Ans

DML :

Data manipulation language (DML) statements are used for managing data within schema objects DML deals with data manipulation and therefore includes most common SQL statements such as SELECT, etc.

Syntax

INSERT : INSERT INTO Table_Name VALUES ();

SELECT : SELECT * from table_name ;

UPDATE : UPDATE table_name set to (calculation);

DELETE : DELETE from table_name ;

DDL :

Data definition language (DDL) statements are used to define the database structure or schema. DDL decides how the data should exist in the database.

CREATE : CREATE TABLE table_name (....);

ALTER : ALTER TABLE table_name ADD Col_name datatype ();

DROP : DROP table_name

TRUNCATE : TRUNCATE TABLE table_name

DCL :

DCL is the abstract data control language . DCL statements allow you to control who has access to specific Object in your database

GRANT : GRANT { ALL | statement [,] } TO security_account [

REVOKE : REVOKE INSERT ON *.* FROM '....';

Q7 Write down the command to get list of databases and tables in MySQL.

Ans Command to get list of databases : show databases.

Command to get list of tables : show tables.