

Third Year B. Tech (EL & CE)

Semester: V

Subject: Data Base Management System

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Class: TY

Roll No: 52

Batch: A3

Experiment No: 01

Name of the Experiment: SQL- DDL Commands

Performed on: 13/09/2023

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Problem Statement:

create, alter, drop, rename, truncate, description(All Basic commands: show: databases, tables, use database, create tables, drop: database, tables, description of table)

Code:

```
MySQL 8.0 Command Line Client - Unicode
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 8.0.34 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> SHOW DATABASE;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'DAT
ABASE' at line 1
mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sakila |
| sys |
| world |
+-----+
6 rows in set (0.00 sec)

mysql> CREATE DATABASE University;
Query OK, 1 row affected (0.00 sec)

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sakila |
| sys |
| university |
| world |
+-----+
7 rows in set (0.00 sec)

mysql> USE University;
Database changed
mysql> CREATE TABLE Student(student_id int(20), studentname varchar(20), semester int(2), contact int(10), address varchar(40));
Query OK, 0 rows affected, 3 warnings (0.01 sec)
```

```
MySQL 8.0 Command Line Client - Unicode
sakila
sys
university
world
-----
7 rows in set (0.00 sec)

mysql> USE University;
Database changed
mysql> CREATE TABLE Student(student_id int(20), studentname varchar(20), semester int(2), contact int(10), address varchar(40));
Query OK, 0 rows affected, 3 warnings (0.01 sec)

mysql> SHOW TABLES;
+-----+
| Tables_in_university |
+-----+
| student               |
+-----+
1 row in set (0.01 sec)

mysql> DESC Student;
+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+
| student_id | int           | YES  |     | NULL    |       |
| studentname | varchar(20)   | YES  |     | NULL    |       |
| semester   | int           | YES  |     | NULL    |       |
| contact     | int           | YES  |     | NULL    |       |
| address     | varchar(40)   | YES  |     | NULL    |       |
+-----+
5 rows in set (0.01 sec)

mysql> CREATE TABLE Course(credit int(3), title varchar(10), teacher varchar(20));
Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql> SHOW TABLES;
+-----+
| Tables_in_university |
+-----+
| course               |
| student              |
+-----+
2 rows in set (0.00 sec)

mysql> DESC Course;
+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+
| credit | int           | YES  |     | NULL    |       |
| title  | varchar(10)   | YES  |     | NULL    |       |
| teacher | varchar(20)   | YES  |     | NULL    |       |
+-----+
```

```
MySQL 8.0 Command Line Client - Unicode
course
student
-----
2 rows in set (0.00 sec)

mysql> DESC Course;
+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+
| credit | int           | YES  |     | NULL    |       |
| title  | varchar(10)   | YES  |     | NULL    |       |
| teacher | varchar(20)   | YES  |     | NULL    |       |
+-----+
3 rows in set (0.00 sec)

mysql> CREATE TABLE Stay(accomodation varchar(20), services varchar(20), timings int(5));
Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql> SHOW TABLES;
+-----+
| Tables_in_university |
+-----+
| course               |
| stay                 |
| student              |
+-----+
3 rows in set (0.00 sec)

mysql> DESC Stay;
+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+
| accomodation | varchar(20)   | YES  |     | NULL    |       |
| services     | varchar(20)   | YES  |     | NULL    |       |
| timings      | int           | YES  |     | NULL    |       |
+-----+
3 rows in set (0.00 sec)

mysql> DROP TABLE Stay;
Query OK, 0 rows affected (0.01 sec)

mysql> SHOW TABLES;
+-----+
| Tables_in_university |
+-----+
| course               |
| student              |
+-----+
2 rows in set (0.00 sec)
```

```
MySQL 8.0 Command Line Client - Unicode

mysql> DESC Stay;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| accomodation | varchar(20) | YES | | NULL | |
| services | varchar(20) | YES | | NULL | |
| timings | int | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> DROP TABLE Stay;
Query OK, 0 rows affected (0.01 sec)

mysql> SHOW TABLES;
+-----+
| Tables_in_university |
+-----+
| course |
| student |
+-----+
2 rows in set (0.00 sec)

mysql> DROP DATABASE University;
Query OK, 2 rows affected (0.01 sec)

mysql> SHOW TABLES;
ERROR 1046 (3D000): No database selected
mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sakila |
| sys |
| world |
+-----+
6 rows in set (0.00 sec)

mysql> _
```

Post Lab Questions:

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SQL- DDL Commands -

create, alter, drop, rename, truncate, description (All Basic Commands: grow: databases, tables, use database, create tables, drop: database, tables, description of table)

① Create Database -

CREATE DATABASE database_name;

→ This command is used to create a new database in a database management system (DBMS)

② ALTER DATABASE:

ALTER DATABASE database_name
[modification-options];

→ used to ~~delete~~ modify an existing database, such as changing its name or character set.

③ DROP DATABASE:

DROP DATABASE database_name;

→ used to delete an existing data base and its associated data permanently.

④ RENAME DATABASE:

RENAME DATABASE old-database_name
to new-database_name

→ used to rename an existing database

⑤ TRUNCATE TABLE:

TRUNCATE TABLE table_name;

→ used to remove all rows from a table while keeping the table structure intact

⑥ CREATE TABLE:

```
CREATE TABLE table-name(  
    column1 data type 1,  
    column2 data type 2,  
    ...
```

2.

⑦ ALTER TABLE:

ALTER TABLE table-name [modification
-options];

→ used to modify an existing table's structure, such as adding, modifying, or dropping columns.

⑧ DROP TABLE:

DROP TABLE table_name;

→ This command is used to delete an existing table and all its data permanently.

⑨ SHOW DATABASES;

SHOW DATABASES;

→ Used to list all the databases available in the current DBMS.

⑩ SHOW TABLES:

SHOW TABLES;

→ Used to list all the tables in the currently selected database.

⑪ USE DATABASE:

USE database_name;

→ Used to select a specific database for further operations.

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(12) DESCRIBE TABLE
(or DESCRIBE or SHOW COLUMNS FROM);

DESCRIBE table_name;

→ used to display information about the columns and their data types in a specific table.

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o/p, chaps 1 & 2