

Lab1: DDL COMMANDS

Data Definition Language is used to describe the structure/schema of database elements. These statements are used to create, alter, or drop data structures in an instance of SQL Server. DDL Commands are as follows:

- CREATE - to create objects in the database
- ALTER - alters the structure of the database
- DROP - delete objects from the database
- TRUNCATE - remove all records from a table, including all spaces allocated for the records are removed
- COMMENT - add comments to the data dictionary
- RENAME - rename an object

Some more commands:

- SHOW - to list databases or tables
- USE - to use/choose the database
- DESCRIBE - to expose the details of object (table), showing how table is formed.

```
mysql> create database gces;  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> show databases;  
+-----+  
| Database                |  
+-----+  
| information_schema      |  
| gces                    |  
| mysql                   |  
| performance_schema     |  
| phpmyadmin              |  
+-----+  
5 rows in set (0.03 sec)
```

```
mysql> use gces;
Database changed
mysql> show tables;
Empty set (0.00 sec)
```

```
mysql> create table student (rollno int, fname varchar(15),
lname varchar(15), age int, mobile bigint);
Query OK, 0 rows affected (0.40 sec)
```

```
mysql> show tables;
+-----+
| Tables_in_gces |
+-----+
| student        |
+-----+
1 row in set (0.00 sec)
```

```
mysql> describe student;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| rollno | int(11)       | YES  |     | NULL    |       |
| fname  | varchar(15)   | YES  |     | NULL    |       |
| lname  | varchar(15)   | YES  |     | NULL    |       |
| age    | int(11)       | YES  |     | NULL    |       |
| mobile | bigint(20)    | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.02 sec)
```

```
mysql> alter table student add gender varchar(2);
mysql> alter table student modify gender varchar(6);
mysql> alter table student change gender gend varchar(5);
mysql> alter table student drop gend;
mysql> alter table student modify lname varchar(20) COMMENT
'last name';
```

```
mysql> describe student;
mysql> show full columns from student;
```

```
mysql> create table teacher (id int, `teacher name`
varchar(30));
Query OK, 0 rows affected (0.23 sec)
```

```
mysql> show tables;
+-----+
| Tables_in_gces |
+-----+
| student        |
| teacher        |
+-----+
2 rows in set (0.00 sec)
```

```
mysql> describe teacher;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id             | int(11)       | YES  |     | NULL    |       |
| teacher name   | varchar(30)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.02 sec)
```

```
mysql> drop table teacher;
Query OK, 0 rows affected (0.09 sec)
```

```
mysql> show tables;
+-----+
| Tables_in_gces |
+-----+
| student        |
+-----+
1 row in set (0.00 sec)
```

```
mysql> rename table student to new_student;
Query OK, 0 rows affected (0.13 sec)
```

```
mysql> describe student;
ERROR 1146 (42S02): Table 'gces.student' doesn't exist
mysql> describe new_student;
```

Field	Type	Null	Key	Default	Extra
rollno	int(11)	YES		NULL	
fname	varchar(20)	YES		NULL	
lname	varchar(20)	YES		NULL	
age	int(11)	YES		NULL	
mobile	bigint(20)	YES		NULL	

5 rows in set (0.03 sec)

```
mysql> drop table new_student;
Query OK, 0 rows affected (0.07 sec)
```

```
mysql> show tables;
Empty set (0.00 sec)
```

```
mysql> drop database gces;
```