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Semester: 4
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Practical 01: Implementation of DDL Commands

Objective: Implementation of DDL commands of SQL with suitable examples
        Create table
        Alter table
        Drop Table
Output:

1. Create Table:
Enter password: ************
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.27 MySQL Community Server - GPL

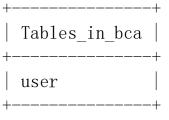Copyright (c) 2000, 2021, Oracle and/or its affiliates.

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

```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| bca                |
| deepankar          |
| futureautodehradun |
| information_schema |
```

```
| mysql              |
| performance_schema |
| sakila             |
| sys                |
| test               |
| world              |
+--------------------+
10 rows in set (0.04 sec)

mysql> use bca;
Database changed
mysql> show tables;
+---------------+
| Tables_in_bca |
+---------------+
| user          |
+---------------+
1 row in set (0.14 sec)

mysql> create table students(rollno INT, firstname varchar(20),
lastname varchar(20));
Query OK, 0 rows affected (2.07 sec)

mysql> desc students;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| rollno    | int         | YES  |     | NULL    |       |
| firstname | varchar(20) | YES  |     | NULL    |       |
| lastname  | varchar(20) | YES  |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
3 rows in set (0.09 sec)
```

2. Alter Table:
```
mysql> ALTER TABLE students ADD (age INT, semester INT);
Query OK, 0 rows affected (0.81 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

```
mysql> desc students;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| rollno    | int         | YES  |     | NULL    |       |
| firstname | varchar(20) | YES  |     | NULL    |       |
| lastname  | varchar(20) | YES  |     | NULL    |       |
| age       | int         | YES  |     | NULL    |       |
| semester  | int         | YES  |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
5 rows in set (0.03 sec)

mysql> ALTER TABLE students RENAME COLUMN semester TO sem;
Query OK, 0 rows affected (0.37 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> desc students;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| rollno    | int         | YES  |     | NULL    |       |
| firstname | varchar(20) | YES  |     | NULL    |       |
| lastname  | varchar(20) | YES  |     | NULL    |       |
| age       | int         | YES  |     | NULL    |       |
| sem       | int         | YES  |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
5 rows in set (0.07 sec)

mysql> ALTER TABLE students RENAME TO bca_students;
Query OK, 0 rows affected (0.73 sec)

mysql> desc bca_students;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| rollno    | int         | YES  |     | NULL    |       |
| firstname | varchar(20) | YES  |     | NULL    |       |
| lastname  | varchar(20) | YES  |     | NULL    |       |
| age       | int         | YES  |     | NULL    |       |
```

```
| sem       | int         | YES |     | NULL    |       |
+-----------+-------------+-----+-----+---------+-------+
5 rows in set (0.00 sec)

mysql> ALTER TABLE bca_students DROP COLUMN age, DROP COLUMN sem;
Query OK, 0 rows affected (2.47 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> desc bca_students ;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| rollno    | int         | YES  |     | NULL    |       |
| firstname | varchar(20) | YES  |     | NULL    |       |
| lastname  | varchar(20) | YES  |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
3 rows in set (0.04 sec)
```
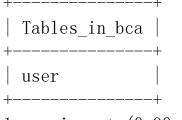
3. Drop Table:

```
mysql> DROP TABLE bca_students;
Query OK, 0 rows affected (0.98 sec)

mysql> show tables;
+---------------+
| Tables_in_bca |
+---------------+
| user          |
+---------------+
1 row in set (0.00 sec)

mysql>
```