



## **Experiment1.1**

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Subject Name: DBMS Subject Code: 21CSH-214

**Aim:** To implement different types of DDL, DML, DCL queries

# **DBMS** script and Output:

**COMMAND DEFINITION:** There are several commands of DDL,DML and DCL.

#### I. DDL COMMANDS

- DDL changes the structure of the table like creating a table, deleting a table, altering a table, etc.
- **1.** <u>CREATE Command</u>:- This command is used for creating tables. The column name must be specified along with datatype and there should be one column.

**Syntax:-**: Create table <tablename>(col1,datatype, col2,datatype..... coln,datatype);

### **Output:-**

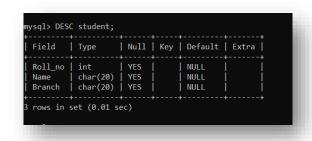
mysql> CREATE table student(Roll\_no int, Name char(20), Branch char(20)); Query OK, 0 rows affected (0.02 sec)





**2.** <u>DESCRIBE Command:-</u> This command is used for displaying information about tables.

**Syntax:-** DESC tablename



<u>ALTER Table:</u> This command is used to modify the present database and related tables.

**Syntax:-** ALTER TABLE TableName ADD ColumnNameData\_Type; ALTER TABLE TableName DROPColumnName; ALTER TABLE TableName MODIFY COLUMNColumnNameData\_Type;

```
mysql> ALTER TABLE student add UID int;
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> ALTER TABLE student drop Branch;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> ALTER TABLE student modify Branch char(30);
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```





**3. RENAME Command:** This command is used to rename any database objects in the server when we want to modify the present or running table name.

**Syntax:-** ALTER TABLE TableName\_A RENAME TO TableName\_B;

```
mysql> ALTER TABLE STUDENT RENAME to data;
Query OK, 0 rows affected (0.01 sec)
mysql> _
```

**4. DROP Command:** This command is used to delete a whole database or tables. It destroys the objects like existing database.

**Syntax:-** DROP object object\_name.

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

**5. TRUNCATE Command:**-It is also used to delete from mytable statement.

**Syntax:-** TRUNCATE TABLE table\_name;

mysql> TRUNCATE TABLE data; Query OK, 0 rows affected (0.02 sec) mysql>



#### **II.** DML Commands

- DML commands are used to modify the database. It is responsible for all form of changes in the database.
- **1. INSERT Command**: It is used to insert data into a table.

**Syntax:-** INSERT INTO table\_name (column1, column2, column3,...) VALUES (value1, value2, value3,...);

```
mysql> INSERT INTO student(Roll_no,Name,Branch) VALUE ('1','Ankush','CSE');
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO student(Roll_no,Name,Branch) VALUE ('2','Ankit','CSE');
Query OK, 1 row affected (0.01 sec)
```

**2. SELECT Command:** The SELECT statement is used to select data from a database.

**Syntax:-** SELECT \* FROM table\_name;

```
mysql> SELECT * FROM student;

+-----+

| Roll_no | Name | Branch |

+-----+

| 1 | Ankush | CSE |

| 2 | Ankit | CSE |

+----+

2 rows in set (0.00 sec)

mysql>
```



**3.UPDATE Command:**-The UPDATE statement is used to update the data of an existing table in database.

**Syntax:-** UPDATE table\_name SET column1 = value1, column2 = value2,... WHERE condition;

```
mysql> UPDATE student SET Name='Anika' WHERE Roll_no=3;
Query OK, 0 rows affected (0.01 sec)
Rows matched: 0 Changed: 0 Warnings: 0
```

**4. DELETE Command:** Delete command is used to delete the existing data from record of the existing table.

**Syntax:** DELETE FROM table\_name WHERE some\_condition;

mysql> delete from student where Roll\_no=2; Query OK, 1 row affected (0.00 sec) mysql>





#### III. DCL Commands.

• DCL commands are used to grant and take back authority from any database user.

**1.GRANT Command:**To grant privileges of a user account this command is used because using create command, it creates only new user but it doesn't grant privileges to a user account. That is why Grant command is used.

**Syntax:-** GRANT privileges\_names ON object TO user;

**<u>2. REVOKE:</u>** This command withdraws the user's access privileges given by using the GRANT command.

**Syntax:** revoke privilege\_name on object\_name from {user\_name | public | role\_name};