# TITLE: - DDL and DML in SBL

THEORY:-

DDL refers to the Data Definition Language. It is used to define and manage database structure. It includes create, alter, drop etc.

Dml refers to Data manipulation language. It is used to insert idelete or update the data. It includes insert juplate idelete, select etc.

In this labs we are going to explore the way to implement DDL and Dml using command line tool.

- A.) (ogin to the database: -
- B.) DDL Commands:
- 1) Create database
  - -> create database college;
- 2.) Show databases -> Show databases;
- 3.) Use database

  ⇒ use college;
- 4.) Delete database 

  > drop database college;
- 5.) (reate table

  -> (reate table department (

  dnumber int primary key,

  dname varchar (so),

  mgr-ssn int,

  myr-start-date date

- -> (reate table employee (
  eid int primary key,
  name varchar (so),
  dept-id int,
  Jalary int,
  Soin-date date
  );
- 6) Describe tables > describe employee;
- 7.) Delete a table

  > drop table employee;
- 8.) Delete contents of table (truncate table) > truncate table employee;
- 9.) Add I remove a column from table
  - > Add a Column

    -> alter table employee
    add phone
    Varchar (10);
  - =) Remove a Column -> alter table empl
    - -> alter table employee drop column phone;
  - ⇒ Alter a column's data type → alter table employee alter column phone Varchar (13);

- () DML (ommands:-
- 1.) Insert tuples into the relation;
  - -) insert into employees values (1, "Suresh", 10, 10000, '2080-10-12');
- 2.) Update data
  - -) uff update employees set salary = 20000 Where eid = 1;
- 3.) Delete data
  - -> delete from employees where eid=1;
- 4.) VIEW all records
  - -) Select x from employees;

# CONCLUSTON :-

Mence we have learned to implement different DDL and Dml using JBL commands.

```
Suresh Dahal@ACONITIN c:\xampp
# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 10
Server version: 10.4.32-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

#### Figure 1 login to the database server

#### Figure 2 create database

```
MariaDB [(none)]> use college;
Database changed
MariaDB [college]> _
```

# Figure 3 use database

Figure 4 delete database

### Figure 5 create table

#### Figure 6 describe table

```
MariaDB [college]> drop table employee;
Query OK, 0 rows affected (0.070 sec)

MariaDB [college]> show tables;
+-----+
| Tables_in_college |
+-----+
| department |
+------+
1 row in set (0.000 sec)
```

#### Figure 7 delete table

Figure 8 insert data into the table

## Figure 9 view all records from a relation

```
MariaDB [college]> alter table employee add phone varchar(10);
Query OK, 0 rows affected (0.042 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

#### Figure 10 add new column to the table

#### Figure 11 modify the data type of the column

Figure 12 delete a column from a relation

Figure 13 update tuple of a relation

```
MariaDB [college]> delete from employee where eid = 1;
Query OK, 1 row affected (0.002 sec)

MariaDB [college]> select * from employee;
Empty set (0.000 sec)
```

Figure 14 delete a tuple from a relation