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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

1. **Create Table:**

**Definition-** It creates the a new table in the sql database.

**syntax-** CREATE TABLE table\_name(column\_name| data\_type,.......,column\_name n data\_type);

**Example:**

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

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owners.

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)

1. **Alter Table:**

**Definition-** It used to add a column to an existing table in the sql database.

**syntax-** ALTER TABLE table\_name ADD column\_name datatype[(size)];

**Example:**

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)

1. **Drop Table:**

**Definition-** It is used to delete/removes the table and the structures,views,Permissions associated with that table.

**syntax-** DROP TABLE table\_name;

**Example:**

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>