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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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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:

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)

3. 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>
```