To create new database and table:

To create new Database:-

create Database db; show databases;

Output:-

To create new table:-

```
use db;

create Table student (
roll_no int primary key auto_increment,
name varchar(100) not null,
address varchar(100),
marks int not null );
```

Output:-

Show tables;

```
MariaDB [db]> show tables;
+-----+
| Tables_in_db |
+-----+
| student |
+-----+
1 row in set (0.001 sec)
```

Altering a Table:-

Add Column:-

alter table student add column class varchar(3);

Output:-

roll_no	name	address	marks	class	
1		bedag	83	NULL	
2	Leyona	travancoor	93	NULL	
3	alan	london	85	NULL	
4	Roy	malapuram	73	NULL	
5	aboobacker	adimally	86	NULL	
6	Sidique	painavu	94	NULL	
7	kunjilakshmi	vangikavalla	92	NULL	
8	Mathew	adimally	88	NULL	
9	laura	adimally	96	NULL	
10	aleena	pallikavala	83	NULL	
+					
10 rows in set (0.002 sec)					

Rename Column :-

Alter Table student rename column address to town;

Output:-

++		+	+	++	
roll_no	name	town	marks	class	
+					
1	aditya	bedag	83	NULL	
2	Leyona	travancoor	93	NULL	
3	alan	london	85	NULL	
4	Roy	malapuram	73	NULL	
5	aboobacker	adimally	86	NULL	
6	Sidique	painavu	94	NULL	
7	kunjilakshmi	vangikavalla	92	NULL	
8	Mathew	adimally	88	NULL	
9	laura	adimally	96	NULL	
10	aleena	pallikavala	83	NULL	
++					
10 rows in set (0.001 sec)					

Drop Column:-

alter table drop class;

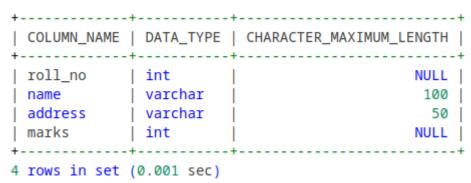
Output:-

+	+	+	++		
roll_no	name	town	marks		
1	aditya	bedag	83		
2	Leyona	travancoor	93		
3	alan	london	85		
4	Roy	malapuram	73		
5	aboobacker	adimally	86		
6	Sidique	painavu	94		
7	kunjilakshmi	vangikavalla	92		
8	Mathew	adimally	88		
9	laura	adimally	96		
10	aleena	pallikavala	83		
+	+	+	++		
10 rows in set (0.001 sec)					

Modify Column:-

alter table student modify column address varchar(50); select COLUMN_NAME, DATA_TYPE, CHARACTER_MAXIMUM_LENGTH from information schema.columns where table name="student";

Output:-



Drop:-

Drop a Table:-

drop table student;
show tables;

Output:-

```
MariaDB [db]> show tables;
Empty set (0.001 sec)
```

Drop Database:-

drop database db; show databases;

Output:-

Rename:-

rename table student to stu; show tables;

Output:-

```
+----+
| Tables_in_db |
+-----+
| stu |
+-----+
1 row in set (0.000 sec)
```

Truncate Table:-

Truncate table stu; select * from stu;

Output:-

```
MariaDB [db]> select * from stu;
Empty set (0.001 sec)
```