

## To create new database and table :

### To create new Database:-

```
create Database db;  
show databases;
```

### Output:-

```
MariaDB [(none)]> show databases;  
+-----+  
| Database |  
+-----+  
| db       |  
| information_schema |  
| mysql    |  
| performance_schema |  
| sys      |  
+-----+  
5 rows in set (0.001 sec)
```

### 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 );
```

Show tables;

### Output:-

```
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	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 (0.002 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:-

COLUMN_NAME	DATA_TYPE	CHARACTER_MAXIMUM_LENGTH
roll_no	int	NULL
name	varchar	100
address	varchar	50
marks	int	NULL

4 rows in set (0.001 sec)

### 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:-**

```
+-----+  
| Database |  
+-----+  
| information_schema |  
| mysql |  
| performance_schema |  
| sys |  
+-----+  
4 rows in set (0.001 sec)
```

### **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)
```