# CREATE DATABSE

```
mysql> create database students;
Query OK, 1 row affected (0.01 sec)
mysql> use students;
Database changed
mysql> create table students(sno int, name char(50), department char(30
    -> ), year varchar(40), address char(40));
Query OK, 0 rows affected (0.02 sec)
mysql> desc students;
| Field
                            Null | Key | Default | Extra
               Type
               int
                             YES
                                          NULL
  sno
               char(50)
                             YES
                                          NULL
  name
  department
               char(30)
                             YES
                                           NULL
               varchar(40)
                             YES
                                          NULL
  year
  address
               char(40)
                             YES
                                          NULL
5 rows in set (0.01 sec)
```

## ALTER TABLE

#### **RENAME**

```
mysql> alter table students rename to student;
Query OK, 0 rows affected (0.02 sec)
mysql> select*from student;
  sno name
                      department
                                     | year |
                                              address
    1 | Diwakar
                      Bioinformatics
                                              Poonamallee
                                       1st
    2
                      Bioinformatics
      Jana
                                       1st
                                              Maduravoyal
    3
      Gayathri
                      Bioinformatics
                                       1st
                                              Maangadu
    4
      | Abitha
                                              Anna nagar
                      IT
                                       1st
    5
     Hema
                      IT
                                       1st
                                              Anna nagar
                                              Maraimalai nagar
       Nithyashree
                      IT
                                       1st
      Sharvesh
                     IT
                                              Selaiyur
                                       1st
 rows in set (0.00 sec)
```

# ADD NEW COLUMN

```
mysql> alter table student add busroute char(30);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> select*from student;
  sno | name
                     department
                                      | year | address
                                                                 busroute
                                              Poonamallee
    1
       Diwakar
                      Bioinformatics |
                                       1st
                                                                 NULL
                      Bioinformatics
                                              Maduravoyal
                                                                 NULL
    2
        Jana
                                       1st
    3
        Gayathri
                      Bioinformatics
                                              Maangadu
                                                                 NULL
                                       1st
    4
        Abitha
                      IT
                                       1st
                                              Anna nagar
                                                                 NULL
    5
       Hema
                      IT
                                       1st
                                              Anna nagar
                                                                 NULL
    6
        Nithyashree
                      IT
                                       1st
                                              Maraimalai nagar
                                                                 NULL
      Sharvesh
                    | IT
                                       1st
                                              Selaiyur
                                                                 NULL
```

## **MODIFY TABLE**

Field	Type	Null	Key	Default	Extra
sno	int	NO	PRI	NULL	
name	char(50)	YES		NULL	
department	char(30)	YES		NULL	
year	varchar(40)	YES		NULL	
address	char(40)	YES		NULL	
busroute	char(30)	YES		NULL	

```
mysql> alter table student modify busroute char(70);
Query OK, 7 rows affected (0.04 sec)
Records: 7 Duplicates: 0 Warnings: 0
mysql> desc student;
| Field
                                           Default | Extra
               Type
                              Null |
                                     Key
                                           NULL
               int
                              NO
                                     PRI
  sno
               char(50)
                              YES
                                           NULL
  name
 department
               char(30)
                              YES
                                           NULL
               varchar(40)
                              YES
  vear
                                           NULL
               char(40)
  address
                              YES
                                           NULL
               char(70)
  busroute
                              YES
                                           NULL
6 rows in set (0.00 sec)
```

## **RENAME COLUMN**

```
mysql> alter table student rename column department to dept;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> select*from student;
                                          year | address
 sno | name
                        dept
                                                                      busroute
    1 |
        Diwakar
                        Bioinformatics
                                           1st
                                                   Poonamallee
                                                                        NULL
    2
        Jana
                        Bioinformatics
                                           1st
                                                   Maduravoyal
                                                                        NULL
    3
        Gayathri
                        Bioinformatics
                                           1st
                                                   Maangadu
                                                                        NULL
    4
        Abitha
                                           1st
                                                   Anna nagar
                                                                        NULL
                        ΙT
    5
        Hema
                        IT
                                                                        NULL
                                           1st
                                                   Anna nagar
    6
        Nithyashree
                        IT
                                           1st
                                                   Maraimalai nagar
                                                                        NULL
    7
        Sharvesh
                        IT
                                           1st
                                                   Selaiyur
                                                                        NULL
  rows in set (0.00 sec)
```

#### **DROP COLUMN**

```
mysql> alter table student drop column busroute;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> select*from student;
                                     year | address
l sno l name
                    dept
    1 | Diwakar
                     Bioinformatics | 1st
                                             Poonamallee
   2 | Jana
                     Bioinformatics |
                                      1st
                                             Maduravoval
   3 | Gayathri
                     Bioinformatics |
                                      1st
                                             Maangadu
   4 | Abitha
                     IT
                                      1st
                                             Anna nagar
   5 | Hema
                     IT
                                      1st
                                             Anna nagar
     | Nithyashree |
                     IT
                                      1st
                                             Maraimalai nagar
   7 | Sharvesh
                                            Selaiyur
                    | IT
                                      1st
7 rows in set (0.00 sec)
```

# **DROP TABLE**

```
mysql> drop table student;
Query OK, 0 rows affected (0.01 sec)
mysql> select*from student;
ERROR 1146 (42S02): Table 'students.student' doesn't exist
mysql> desc student;
ERROR 1146 (42S02): Table 'students.student' doesn't exist
```