

- Create a database named college
- Create a table name student in college database with following structure roll, name, class, marks, age with respective datatypes.

```

mysql> create database college;
Query OK, 1 row affected (0.14 sec)

mysql> create table student;
ERROR 1046 (3D000): No database selected
mysql> use college;
Database changed
mysql> create table student;
ERROR 4028 (HY000): A table must have at least one table column.
mysql> create table student
-> (roll int,
-> name varchar(20),
-> class marks float,
-> age int);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax
to use near 'marks float,
age int)' at line 4
mysql> create table student (roll int, name varchar(20), class(10), marks float, age int);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax
to use near 'varclass(10), marks float, age int)' at line 4
mysql> create table student (roll int, name varchar(20), class varchar(10), marks float, age int);
Query OK, 0 rows affected (0.51 sec)

```

- Check the structure of the table.
- Alter the datatype of marks from float to integer
- Alter the table to remove the column age

```

mysql> desc student;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| roll  | int           | YES  |     | NULL    |       |
| name  | varchar(20)   | YES  |     | NULL    |       |
| class | varchar(10)   | YES  |     | NULL    |       |
| marks | float         | YES  |     | NULL    |       |
| age   | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> alter table student modify column marks int;
Query OK, 0 rows affected (2.55 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| roll  | int           | YES  |     | NULL    |       |
| name  | varchar(20)   | YES  |     | NULL    |       |
| class | varchar(10)   | YES  |     | NULL    |       |
| marks | int           | YES  |     | NULL    |       |
| age   | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> alter table student drop column age;
Query OK, 0 rows affected (0.28 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| roll  | int           | YES  |     | NULL    |       |
| name  | varchar(20)   | YES  |     | NULL    |       |
| class | varchar(10)   | YES  |     | NULL    |       |
| marks | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> _

```

- Show all the tables in database college.
- Truncate the table student
- Drop the table and database also.

```
mysql> insert into student (roll,name,marks,class) values (103,'Sita')
Query OK, 3 rows affected (0.09 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> select *from student;
+-----+-----+-----+-----+
| roll | name  | class | marks |
+-----+-----+-----+-----+
| 101  | Arijit | Five  | 80    |
| 102  | Ramesh | Six   | 20    |
| 103  | Sita   | six   | 46    |
| 104  | Ram    | seven | 78    |
| 105  | Guddu  | seven | 45    |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> truncate student;
Query OK, 0 rows affected (0.76 sec)

mysql> desc student;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| roll  | int           | YES  |     | NULL    |       |
| name  | varchar(20)   | YES  |     | NULL    |       |
| class | varchar(10)   | YES  |     | NULL    |       |
| marks | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)

mysql> drop student;
ERROR 1064 (42000): You have an error in your SQL syntax; check the m
mysql> drop table student;
Query OK, 0 rows affected (0.34 sec)

mysql> desc student;
ERROR 1146 (42S02): Table 'college.student' doesn't exist
mysql> drop database college;
Query OK, 0 rows affected (0.16 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| basedata |
| bldb     |
| cdacdb   |
| db1      |
| employee |
| fightclub |
| information_schema |
| labexam  |
| mysql    |
| org      |
| performance_schema |
| sample   |
| stationery |
| sys      |
| test_database |
+-----+
15 rows in set (0.00 sec)

mysql> _
```