```
MariaDB [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| contacts           |
| dbperson           |
| dbperson1          |
| dsml12pm           |
| information_schema |
| mysql              |
| p_hotel            |
| p_login            |
| p_transport        |
| performance_schema |
| person             |
| phpmyadmin         |
| piet               |
| test               |
+--------------------+
14 rows in set (0.001 sec)

MariaDB [(none)]> use dsml12pm;
Database changed
MariaDB [dsml12pm]> show tables;
+--------------------+
| Tables_in_dsml12pm |
+--------------------+
| fees               |
| student            |
+--------------------+
```

```
2 rows in set (0.001 sec)

MariaDB [dsml12pm]> select * from student;
+------+--------+------+
| sid  | name   | age  |
+------+--------+------+
|  101 | aman   |   22 |
|  102 | rohan  |   23 |
|  103 | ram    |   24 |
|  104 | rajat  |   21 |
|  105 | simran | NULL |
+------+--------+------+
5 rows in set (0.000 sec)

MariaDB [dsml12pm]>
MariaDB [dsml12pm]>
MariaDB [dsml12pm]> ----->>>>>   ____UPDATE, ALTER____
MariaDB [dsml12pm]>
MariaDB [dsml12pm]>
MariaDB [dsml12pm]> select * from student;
+------+--------+------+
| sid  | name   | age  |
+------+--------+------+
|  101 | aman   |   22 |
|  102 | rohan  |   23 |
|  103 | ram    |   24 |
|  104 | rajat  |   21 |
|  105 | simran | NULL |
+------+--------+------+
5 rows in set (0.001 sec)
```

```
MariaDB [dsml12pm]> update student set age=20 where sid=101;
Query OK, 1 row affected (0.023 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [dsml12pm]> select * from student;
+------+--------+------+
| sid  | name   | age  |
+------+--------+------+
|  101 | aman   |   20 |
|  102 | rohan  |   23 |
|  103 | ram    |   24 |
|  104 | rajat  |   21 |
|  105 | simran | NULL |
+------+--------+------+
5 rows in set (0.000 sec)

MariaDB [dsml12pm]> update student set age=18 where age is null;
Query OK, 1 row affected (0.011 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [dsml12pm]> select * from student;
+------+--------+------+
| sid  | name   | age  |
+------+--------+------+
|  101 | aman   |   20 |
|  102 | rohan  |   23 |
|  103 | ram    |   24 |
|  104 | rajat  |   21 |
|  105 | simran |   18 |
```

```
+------+--------+------+
5 rows in set (0.001 sec)

MariaDB [dsml12pm]>
MariaDB [dsml12pm]>
MariaDB [dsml12pm]> desc student;
+-------+--------------+------+-----+---------+-------+
| Field | Type         | Null | Key | Default | Extra |
+-------+--------------+------+-----+---------+-------+
| sid   | int(5)       | YES  |     | NULL    |       |
| name  | varchar(100) | YES  |     | NULL    |       |
| age   | int(5)       | YES  |     | NULL    |       |
+-------+--------------+------+-----+---------+-------+
3 rows in set (0.032 sec)

MariaDB [dsml12pm]>
MariaDB [dsml12pm]> alter table student add column address varchar(100);
Query OK, 0 rows affected (0.024 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [dsml12pm]> desc student;
+---------+--------------+------+-----+---------+-------+
| Field   | Type         | Null | Key | Default | Extra |
+---------+--------------+------+-----+---------+-------+
| sid     | int(5)       | YES  |     | NULL    |       |
| name    | varchar(100) | YES  |     | NULL    |       |
| age     | int(5)       | YES  |     | NULL    |       |
| address | varchar(100) | YES  |     | NULL    |       |
+---------+--------------+------+-----+---------+-------+
4 rows in set (0.027 sec)
```

```
MariaDB [dsml12pm]> select * from student;
+------+--------+------+---------+
| sid  | name   | age  | address |
+------+--------+------+---------+
|  101 | aman   |   20 | NULL    |
|  102 | rohan  |   23 | NULL    |
|  103 | ram    |   24 | NULL    |
|  104 | rajat  |   21 | NULL    |
|  105 | simran |   18 | NULL    |
+------+--------+------+---------+
5 rows in set (0.001 sec)

MariaDB [dsml12pm]>
MariaDB [dsml12pm]> alter table student drop column address;
Query OK, 0 rows affected (0.022 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [dsml12pm]> select * from student;
+------+--------+------+
| sid  | name   | age  |
+------+--------+------+
|  101 | aman   |   20 |
|  102 | rohan  |   23 |
|  103 | ram    |   24 |
|  104 | rajat  |   21 |
|  105 | simran |   18 |
+------+--------+------+
5 rows in set (0.001 sec)
```

```
MariaDB [dsml12pm]> desc student;
+-------+--------------+------+-----+---------+-------+
| Field | Type         | Null | Key | Default | Extra |
+-------+--------------+------+-----+---------+-------+
| sid   | int(5)       | YES  |     | NULL    |       |
| name  | varchar(100) | YES  |     | NULL    |       |
| age   | int(5)       | YES  |     | NULL    |       |
+-------+--------------+------+-----+---------+-------+
3 rows in set (0.025 sec)

MariaDB [dsml12pm]> Select name, sid, age from student;
+--------+------+------+
| name   | sid  | age  |
+--------+------+------+
| aman   | 101  | 20   |
| rohan  | 102  | 23   |
| ram    | 103  | 24   |
| rajat  | 104  | 21   |
| simran | 105  | 18   |
+--------+------+------+
5 rows in set (0.001 sec)

MariaDB [dsml12pm]>
MariaDB [dsml12pm]> alter table student modify name char(100);
Query OK, 5 rows affected (0.137 sec)
Records: 5  Duplicates: 0  Warnings: 0

MariaDB [dsml12pm]>
MariaDB [dsml12pm]> desc student;
+-------+-----------+------+-----+---------+-------+
```

```
| Field | Type       | Null | Key | Default | Extra |
+-------+------------+------+-----+---------+-------+
| sid   | int(5)     | YES  |     | NULL    |       |
| name  | char(100)  | YES  |     | NULL    |       |
| age   | int(5)     | YES  |     | NULL    |       |
+-------+------------+------+-----+---------+-------+
3 rows in set (0.022 sec)

MariaDB [dsml12pm]>
MariaDB [dsml12pm]> alter table student alter column age set default 18;
Query OK, 0 rows affected (0.011 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [dsml12pm]>
MariaDB [dsml12pm]> desc student;
+-------+------------+------+-----+---------+-------+
| Field | Type       | Null | Key | Default | Extra |
+-------+------------+------+-----+---------+-------+
| sid   | int(5)     | YES  |     | NULL    |       |
| name  | char(100)  | YES  |     | NULL    |       |
| age   | int(5)     | YES  |     | 18      |       |
+-------+------------+------+-----+---------+-------+
3 rows in set (0.035 sec)

MariaDB [dsml12pm]>
MariaDB [dsml12pm]>
MariaDB [dsml12pm]> ----->>>>>  ____PRIMARY KEY____
MariaDB [dsml12pm]>
MariaDB [dsml12pm]>
MariaDB [dsml12pm]> ----->>>>> while defining the table
```

```
MariaDB [dsml12pm]> ----->>>>> in the exising table
MariaDB [dsml12pm]>
MariaDB [dsml12pm]>
MariaDB [dsml12pm]> alter table student add primary key(sid);
Query OK, 0 rows affected (0.165 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [dsml12pm]> desc student;
+-------+-----------+------+-----+---------+-------+
| Field | Type      | Null | Key | Default | Extra |
+-------+-----------+------+-----+---------+-------+
| sid   | int(5)    | NO   | PRI | NULL    |       |
| name  | char(100) | YES  |     | NULL    |       |
| age   | int(5)    | YES  |     | 18      |       |
+-------+-----------+------+-----+---------+-------+
3 rows in set (0.029 sec)

MariaDB [dsml12pm]>
MariaDB [dsml12pm]> create table new(id int(4) primary key, name varchar(100), age
int);
Query OK, 0 rows affected (0.028 sec)

MariaDB [dsml12pm]> desc new;
+-------+--------------+------+-----+---------+-------+
| Field | Type         | Null | Key | Default | Extra |
+-------+--------------+------+-----+---------+-------+
| id    | int(4)       | NO   | PRI | NULL    |       |
| name  | varchar(100) | YES  |     | NULL    |       |
| age   | int(11)      | YES  |     | NULL    |       |
+-------+--------------+------+-----+---------+-------+
```

```
3 rows in set (0.029 sec)

MariaDB [dsml12pm]>
MariaDB [dsml12pm]>
MariaDB [dsml12pm]> ----->>>>>   ____FOREIGN KEY____
MariaDB [dsml12pm]>
MariaDB [dsml12pm]>
MariaDB [dsml12pm]> ----->>>>> while defining the table
MariaDB [dsml12pm]> ----->>>>> in existing table
MariaDB [dsml12pm]>
MariaDB [dsml12pm]>
MariaDB [dsml12pm]>
```