

## 2. DDL Commands with Constraints –

- PRIMARY –

```
mysql> CREATE TABLE students
-> (
-> S_Id int NOT NULL,
-> LastName varchar (255) NOT NULL,
-> FirstName varchar (255),
-> Address varchar (255),
-> City varchar (255),
-> PRIMARY KEY (S_Id)
-> );
Query OK, 0 rows affected (0.01 sec)

mysql> desc students;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| S_Id       | int           | NO   | PRI | NULL    |       |
| LastName   | varchar(255)  | NO   |     | NULL    |       |
| FirstName  | varchar(255)  | YES  |     | NULL    |       |
| Address    | varchar(255)  | YES  |     | NULL    |       |
| City       | varchar(255)  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql>
```

- FOREIGN –

```
mysql> create table orders(orderID int,orderNo int,S_Id int,foreign key(S_Id) references students(S_Id));
Query OK, 0 rows affected (0.02 sec)

mysql> desc orders;
+-----+-----+-----+-----+-----+-----+
| Field      | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| orderID    | int  | YES  |     | NULL    |       |
| orderNo    | int  | YES  |     | NULL    |       |
| S_Id       | int  | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>
```

- **UNIQUE –**

```
mysql> alter table orders add unique (orderNo);
Query OK, 0 rows affected (0.01 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> desc orders;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| orderID | int | YES |     | NULL |      |
| orderNo | int | YES | UNI | NULL |      |
| S_Id    | int | YES | MUL | NULL |      |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> _
```

- **Check –**

```
mysql> create table persons(Id int,name char(50),age int,check(age>=18));
Query OK, 0 rows affected (0.01 sec)

mysql> desc persons;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Id    | int       | YES  |     | NULL    |      |
| name  | char(50)  | YES  |     | NULL    |      |
| age   | int       | YES  |     | NULL    |      |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>
```