```
OUTPUT
_____
1)NOT NULL
mysql> CREATE TABLE students(
    -> id INT NOT NULL,
   -> name varchar(15),
    -> address varchar(30));
mysql> INSERT INTO students VALUES(NULL, 'Gill', 'gujarat');
ERROR 1048 (23000): Column 'id' cannot be null
2) UNIQUE
mysql> ALTER TABLE students
    -> ADD UNIQUE(name);
mysql> INSERT INTO students VALUES(1, 'Gill', 'gujarat');
Query OK, 1 row affected
mysql> INSERT INTO students VALUES(2, 'Gill', 'mumbai');
ERROR 1062 (23000): Duplicate entry 'Gill' for key 'students.name'
3) PRIMARY KEY
mysql> ALTER TABLE students
    -> ADD PRIMARY KEY(id);
4) FOREIGN KEY
mysql> CREATE TABLE course(
    -> student_id INT NOT NULL,
   -> course_name VARCHAR(15) NOT NULL,
    -> CONSTRAINT fk_course_students_id
    -> FOREIGN KEY(student_id) REFERENCES students(id));
mysql> INSERT INTO course VALUES(1,'CSE');
Query OK, 1 row affected
mysql> INSERT INTO course VALUES(4,'ECE');
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails
(`constraints`.`course`, CONSTRAINT `fk_course_students_id` FOREIGN KEY (`student_id`)
REFERENCES `students` (`id`))
5) CHECK
mysql> ALTER TABLE students ADD COLUMN age INT CHECK(age>17);
mysql> INSERT INTO students(id,name,address,age) VALUES(3,'siraj','hyderabad',15);
```

ERROR 3819 (HY000): Check constraint 'students_chk_1' is violated.

```
mysql> ALTER TABLE students ADD COLUMN
   -> gender ENUM('M','F','T');
mysal>
               INTO students(id,name,address,age,gender)
       INSERT
                                                    VALUES(3,
                                                              'Jasprit
Bumrah','hyderabad',18,'Q');
ERROR 1265 (01000): Data truncated for column 'gender' at row 1
mysql>
       INSERT
               INTO
                     students(id,name,address,age,gender)
                                                              'Jasprit
                                                    VALUES(3,
Bumrah','hyderabad',18,'M');
Query OK, 1 row affected
mysql> select constraint_name , constraint_type
  -> from information_schema.table_constraints
   -> where table_name = 'students';
+----+
| CONSTRAINT_NAME | CONSTRAINT_TYPE |
+----+
             | UNIQUE
name
| PRIMARY | PRIMARY KEY
| students_chk_1 | CHECK
+----+
mysql> select constraint_name , constraint_type
   -> from information_schema.table_constraints
  -> where table_name = 'course';
+----+
+----+
| fk_course_students_id | FOREIGN KEY
+----+
```