**21-01-23**

mysql> create table employee(emp\_id int primary key, emp\_name varchar(50), emp\_gender char, emp\_department varchar(50), emp\_salary double(10,4), emp\_company varchar(50), emp\_phone int, emp\_email varchar(100));

Query OK, 0 rows affected, 1 warning (2.48 sec)

mysql> insert into employee values(1, 'Naresh Kambala', 'M', 'IT', 50000.00, 'IBM', 99512887, 'java4naresh@gmail.com');

Query OK, 1 row affected (0.21 sec)

mysql> insert into employee values(1, 'Naresh Kambala', 'M', 'IT', 50000.00, 'IBM', 99512887, 'java4naresh@gmail.com');

ERROR 1062 (23000): Duplicate entry '1' for key 'employee.PRIMARY'

//primary key not allow the duplicates.

mysql> insert into employee values(2, 'Naresh Kambala', 'M', 'IT', 50000.00, 'IBM', 99512887, 'java4naresh@gmail.com');

Query OK, 1 row affected (0.09 sec)

mysql> select \* from employee;

+--------+----------------+------------+----------------+------------+-------------+-----------+-----------------------+

| emp\_id | emp\_name | emp\_gender | emp\_department | emp\_salary | emp\_company | emp\_phone | emp\_email |

+--------+----------------+------------+----------------+------------+-------------+-----------+-----------------------+

| 1 | Naresh Kambala | M | IT | 50000.0000 | IBM | 99512887 | java4naresh@gmail.com |

| 2 | Naresh Kambala | M | IT | 50000.0000 | IBM | 99512887 | java4naresh@gmail.com |

+--------+----------------+------------+----------------+------------+-------------+-----------+-----------------------+

2 rows in set (0.00 sec)

mysql> drop table employee;

Query OK, 0 rows affected (0.24 sec)

mysql> create table employee(emp\_id int primary key, emp\_name varchar(50), emp\_gender char, emp\_department varchar(50), emp\_salary double(10,4), emp\_company varchar(50), emp\_phone int unique, emp\_email varchar(100)unique);

Query OK, 0 rows affected, 1 warning (0.40 sec)

mysql> insert into employee values(1, 'Naresh Kambala', 'M', 'IT', 50000.00, 'IBM', 99512887, 'java4naresh@gmail.com');

Query OK, 1 row affected (0.11 sec)

mysql> insert into employee values(2, 'Naresh Kambala', 'M', 'IT', 50000.00, 'IBM', 99512887, 'java4naresh@gmail.com');

ERROR 1062 (23000): Duplicate entry '99512887' for key 'employee.emp\_phone'

mysql> insert into employee values(2, 'Naresh Kambala', 'M', 'IT', 50000.00, 'IBM', 99512567, 'java4naresh@gmail.com');

ERROR 1062 (23000): Duplicate entry 'java4naresh@gmail.com' for key 'employee.emp\_email'

mysql> insert into employee values(2, 'Naresh Kambala', 'M', 'IT', 50000.00, 'IBM', 99512567, 'kambalajava4naresh@gmail.com');

Query OK, 1 row affected (0.08 sec)

mysql> select \* from employee;

+--------+----------------+------------+----------------+------------+-------------+-----------+------------------------------+

| emp\_id | emp\_name | emp\_gender | emp\_department | emp\_salary | emp\_company | emp\_phone | emp\_email |

+--------+----------------+------------+----------------+------------+-------------+-----------+------------------------------+

| 1 | Naresh Kambala | M | IT | 50000.0000 | IBM | 99512887 | java4naresh@gmail.com |

| 2 | Naresh Kambala | M | IT | 50000.0000 | IBM | 99512567 | kambalajava4naresh@gmail.com |

+--------+----------------+------------+----------------+------------+-------------+-----------+------------------------------+

2 rows in set (0.00 sec)

**//primary key --emp\_id = null// not allow the null values**

mysql> insert into employee values(null, 'Naresh Kambala', 'M', 'IT', 50000.00, 'IBM', 995128898, 'java5naresh@gmail.com');

**ERROR 1048 (23000): Column 'emp\_id' cannot be null**

**//unique--emp\_pho= allows the null values**

mysql> insert into employee values(3, 'Naresh Kambala', 'M', 'IT', 50000.00, 'IBM', null, 'java6naresh@gmail.com');

Query OK, 1 row affected (0.08 sec)

mysql> insert into employee values(4, 'Naresh Kambala', 'M', 'IT', 50000.00, 'IBM', null, 'java7naresh@gmail.com');

Query OK, 1 row affected (0.04 sec)

mysql> drop table employee;

Query OK, 0 rows affected (0.33 sec)

**by using notnull we cannot give the null value.**

mysql> create table employee (emp\_id int primary key,emp\_name varchar(50) not null, emp\_gender char not null,emp\_salary double(10,5) not null, emp\_company varchar(50) not null,emp\_department varchar(50) not null, emp\_phone int unique not null, emp\_email varchar(50) unique not null);

Query OK, 0 rows affected, 1 warning (0.28 sec)

mysql> insert into employee values(1, 'Naresh Kambala', 'M', 50000.00, 'IBM', 'IT', 9951288, 'kambalanaresh4java@gmail.com');

Query OK, 1 row affected (0.09 sec)

mysql> insert into employee values(2, 'Naresh Kambala', 'M', 50000.00, 'IBM', 'IT', null, 'kambalanaresh5java@gmail.com');

**ERROR 1048 (23000): Column 'emp\_phone' cannot be null**

mysql> insert into employee values(3, 'Naresh Kambala', 'M', 50000.00, 'IBM', null, 9662234, 'kambalanaresh6java@gmail.com');

**ERROR 1048 (23000): Column 'emp\_department' cannot be null**