

Hospital Management System

1.Create database,create tables and show tables

```
MySQL 8.0 Command Line Client

mysql> create database hms_db;
Query OK, 1 row affected (0.01 sec)

mysql> create table user;
ERROR 4028 (HY000): A table must have at least one visible column.
mysql> create table users(userid varchar(5),username varchar(10),useremail varchar(15),userphoneno int(10));
Query OK, 0 rows affected, 1 warning (0.03 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| db1       |
| hms_db    |
| information_schema |
| mysql     |
| performance_schema |
| sys       |
| ums_db    |
+-----+
7 rows in set (0.00 sec)

mysql> show tables;
+-----+
| Tables_in_ums_db |
+-----+
| tbl_dept          |
| user              |
| users             |
+-----+
3 rows in set (0.00 sec)

mysql> desc users;
+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+
| userid     | varchar(5)    | YES  |     | NULL    |       |
| username    | varchar(10)   | YES  |     | NULL    |       |
| useremail   | varchar(15)   | YES  |     | NULL    |       |
| userphoneno | int           | YES  |     | NULL    |       |
+-----+
4 rows in set (0.00 sec)
```

2.Show tables,Alter the table values

```
MySQL 8.0 Command Line Client

mysql> alter table users modify column userid int(5) primary key;
Query OK, 0 rows affected, 1 warning (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 1

mysql> desc users;
+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+
| userid     | int           | NO   | PRI | NULL    |       |
| username    | varchar(10)   | YES  |     | NULL    |       |
| useremail   | varchar(15)   | YES  |     | NULL    |       |
| userphoneno | int           | YES  |     | NULL    |       |
+-----+
4 rows in set (0.00 sec)

mysql> alter table users modify column useremail varchar(15) primary key;
ERROR 1068 (42000): Multiple primary key defined
mysql> alter table users modify column useremail varchar(15) unique;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc users;
+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+
| userid     | int           | NO   | PRI | NULL    |       |
| username    | varchar(10)   | YES  |     | NULL    |       |
| useremail   | varchar(15)   | YES  | UNI | NULL    |       |
| userphoneno | int           | YES  |     | NULL    |       |
+-----+
4 rows in set (0.00 sec)

mysql> alter table users modify column userphoneno int(10) not null;
Query OK, 0 rows affected, 1 warning (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 1

mysql> desc users;
+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+
| userid     | int           | NO   | PRI | NULL    |       |
| username    | varchar(10)   | YES  |     | NULL    |       |
| useremail   | varchar(15)   | YES  | UNI | NULL    |       |
| userphoneno | int(10)       | NO   |     | NULL    |       |
+-----+
4 rows in set (0.00 sec)
```

```
mysql> desc users;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| userid | int | NO | PRI | NULL | |
| username | varchar(10) | YES | | NULL | |
| useremail | varchar(15) | YES | UNI | NULL | |
| userphoneno | int | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> alter table users add address varchar(50) not null;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc users;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| userid | int | NO | PRI | NULL | |
| username | varchar(10) | YES | | NULL | |
| useremail | varchar(15) | YES | UNI | NULL | |
| userphoneno | int | NO | | NULL | |
| address | varchar(50) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> alter table users modify column username varchar(10) not null;
Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc users;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| userid | int | NO | PRI | NULL | |
| username | varchar(10) | YES | | NULL | |
| useremail | varchar(15) | YES | UNI | NULL | |
| userphoneno | int | NO | | NULL | |
| address | varchar(50) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> desc users;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| userid | int | NO | PRI | NULL | |
| username | varchar(10) | NO | | NULL | |
| useremail | varchar(15) | YES | UNI | NULL | |
| userphoneno | int | NO | | NULL | |
| address | varchar(50) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> alter table users modify column userphoneno int(10) unique not null;
Query OK, 0 rows affected, 1 warning (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 1

mysql> desc users;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| userid | int | NO | PRI | NULL | |
| username | varchar(10) | NO | | NULL | |
| useremail | varchar(15) | YES | UNI | NULL | |
| userphoneno | int | NO | UNI | NULL | |
| address | varchar(50) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> alter table users modify column (userid int(5),username varchar(10)) primary key ;
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 '(userid int(5),username varchar(10)) primary key' at line 1
mysql> alter table users modify column user id check(userid=5);
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 'id check(user id=5)' at line 1
mysql> alter table users add check(userid=5);
Query OK, 0 rows affected (0.08 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc users;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| userid | int | NO | PRI | NULL | |
+-----+-----+-----+-----+-----+-----+
1 rows in set (0.00 sec)
```

```
MySQL 8.0 Command Line Client

+-----+-----+-----+-----+-----+
| username | varchar(10) | NO | NULL | |
| useremail | varchar(15) | YES | UNI | NULL |
| userphoneno | int | NO | NULL |
| address | varchar(50) | NO | NULL |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> alter table users modify column userphoneno int(10) unique not null;
Query OK, 0 rows affected, 1 warning (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 1

mysql> desc users;
+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| userid | int | NO | PRI | NULL |
| username | varchar(10) | NO | NULL |
| useremail | varchar(15) | YES | UNI | NULL |
| userphoneno | int | NO | UNI | NULL |
| address | varchar(50) | NO | NULL |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> alter table users modify column (userid int(5), username varchar(10)) primary key ;
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 '(userid int(5), username varchar(10)) primary key' at line 1
mysql> alter table users modify column user id check(userid>=5);
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 'id check(user id>=5)' at line 1
mysql> alter table users add check(userid>=5);
Query OK, 0 rows affected (0.08 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc users;
+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| userid | int | NO | PRI | NULL |
| username | varchar(10) | NO | NULL |
| useremail | varchar(15) | YES | UNI | NULL |
| userphoneno | int | NO | UNI | NULL |
| address | varchar(50) | NO | NULL |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
MySQL 8.0 Command Line Client

mysql> insert into user values(2,"Raj",989657,"Cudd");
Query OK, 2 rows affected (0.02 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> select*from user;
+-----+-----+-----+-----+
| userid | uname | phoneno | address |
+-----+-----+-----+-----+
| 1 | Ram | 750217 | Cu |
| 2 | Raj | 989657 | Cudd |
| 3 | Arun | 45326 | Vad |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> insert into users values(11111,"Ram","ram@gmail.com",2345656,"Vadalur");
Query OK, 1 row affected (0.01 sec)

mysql> insert into users values(22222,"Raj","raj@gmail.com",457956,"cuddalure"),(33333,"Arun",arun@gmail.com,984569,"Chennai");
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 '@gmail.com,984569,"Chennai"' at line 1
mysql> insert into users values(22222,"Raj","raj@gmail.com",457956,"cuddalure"),(33333,"Arun","arun@gmail.com",984569,"Chennai");
Query OK, 2 rows affected (0.01 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> select*from users;
+-----+-----+-----+-----+-----+
| userid | username | useremail | userphoneno | address |
+-----+-----+-----+-----+-----+
| 11111 | Ram | ram@gmail.com | 2345656 | Vadalur |
| 22222 | Raj | raj@gmail.com | 457956 | cuddalure |
| 33333 | Arun | arun@gmail.com | 984569 | Chennai |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>
```

```
MySQL 8.0 Command Line Client

mysql> insert into users values(11111,"Ram","ram@gmail.com",2345656,"Vadalur");
Query OK, 1 row affected (0.01 sec)

mysql> insert into users values(22222,"Raj","raj@gmail.com",457956,"cuddalure"),(33333,"Arun","arun@gmail.com",984569,"Chennai");
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 '@gmail.com,984569,'Chennai')' at line 1
mysql> insert into users values(22222,"Raj","raj@gmail.com",457956,"cuddalure"),(33333,"Arun","arun@gmail.com",984569,"Chennai");
Query OK, 2 rows affected (0.01 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> select * from users;
+-----+-----+-----+-----+-----+
| userid | username | useremail | userphoneno | address |
+-----+-----+-----+-----+-----+
| 11111 | Ram | ram@gmail.com | 2345656 | Vadalur |
| 22222 | Raj | raj@gmail.com | 457956 | cuddalure |
| 33333 | Arun | arun@gmail.com | 984569 | Chennai |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> insert into users values(55555,"Sam","sam@gmail.com",874586,"Vandalur");
Query OK, 1 row affected (0.01 sec)

mysql> select * from users;
+-----+-----+-----+-----+-----+
| userid | username | useremail | userphoneno | address |
+-----+-----+-----+-----+-----+
| 11111 | Ram | ram@gmail.com | 2345656 | Vadalur |
| 22222 | Raj | raj@gmail.com | 457956 | cuddalure |
| 33333 | Arun | arun@gmail.com | 984569 | Chennai |
| 55555 | Sam | sam@gmail.com | 874586 | Vandalur |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> select * from users where userid=11111;
+-----+-----+-----+-----+-----+
| userid | username | useremail | userphoneno | address |
+-----+-----+-----+-----+-----+
| 11111 | Ram | ram@gmail.com | 2345656 | Vadalur |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```

```
MySQL 8.0 Command Line Client

mysql> select * from users where userphoneno like'%';
+-----+-----+-----+-----+-----+
| userid | username | useremail | userphoneno | address |
+-----+-----+-----+-----+-----+
| 11111 | Ram | ram@gmail.com | 2345656 | Vadalur |
| 22222 | Raj | raj@gmail.com | 457956 | cuddalure |
| 33333 | Arun | arun@gmail.com | 984569 | Chennai |
| 55555 | Sam | sam@gmail.com | 874586 | Vandalur |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> select * from users where userphoneno like'%3';
Empty set (0.00 sec)

mysql> select * from users where userid between 11111 and 55555;
+-----+-----+-----+-----+-----+
| userid | username | useremail | userphoneno | address |
+-----+-----+-----+-----+-----+
| 11111 | Ram | ram@gmail.com | 2345656 | Vadalur |
| 22222 | Raj | raj@gmail.com | 457956 | cuddalure |
| 33333 | Arun | arun@gmail.com | 984569 | Chennai |
| 55555 | Sam | sam@gmail.com | 874586 | Vandalur |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> select * from users where userid in(11111,55555);
+-----+-----+-----+-----+-----+
| userid | username | useremail | userphoneno | address |
+-----+-----+-----+-----+-----+
| 11111 | Ram | ram@gmail.com | 2345656 | Vadalur |
| 55555 | Sam | sam@gmail.com | 874586 | Vandalur |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> select * from users where userid in(11111);
+-----+-----+-----+-----+-----+
| userid | username | useremail | userphoneno | address |
+-----+-----+-----+-----+-----+
| 11111 | Ram | ram@gmail.com | 2345656 | Vadalur |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```