

```
Last login: Fri Jun 7 17:43:42 on ttys001
sahilkumar@SAHILs-MacBook-Air ~ % brew services start mysql
Service `mysql` already started, use `brew services restart mysql` to restart.
sahilkumar@SAHILs-MacBook-Air ~ % mysql -u root
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 20
Server version: 8.3.0 Homebrew
```

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| School |
| sys |
+-----+
5 rows in set (0.07 sec)
```

```
mysql> drop database school;
Query OK, 1 row affected (0.06 sec)
```

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
4 rows in set (0.00 sec)
```

```
mysql> create database school;
Query OK, 1 row affected (0.00 sec)
```

```
mysql> use school;
Database changed
mysql> create table students(studentid int primary key, firstname varchar(50) not null , lastname varchar(50) not null,dateOfBirth date,email varchar(100) UNIQUE );
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> create table courses(courseid int primary key,coursename varchar(100) not null , credits int);
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| school |
| sys |
+-----+
5 rows in set (0.00 sec)
```

```
mysql> show tables;
+-----+
| Tables_in_school |
+-----+
| courses |
| students |
+-----+
2 rows in set (0.00 sec)
```

```
mysql>
mysql> drop table students;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> create table students(studentid int primary key, firstname varchar(50) not null , lastname varchar(50) not null,dateOfBirth date,email varchar(100) UNIQUE );
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> desc students;
```

Field	Type	Null	Key	Default	Extra
studentid	int	NO	PRI	NULL	
firstname	varchar(50)	NO		NULL	
lastname	varchar(50)	NO		NULL	
dateOfBirth	date	YES		NULL	
email	varchar(100)	YES	UNI	NULL	

5 rows in set (0.01 sec)

```
mysql> alter table students add column contact text ;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc students;
```

Field	Type	Null	Key	Default	Extra
studentid	int	NO	PRI	NULL	
firstname	varchar(50)	NO		NULL	
lastname	varchar(50)	NO		NULL	
dateOfBirth	date	YES		NULL	
email	varchar(100)	YES	UNI	NULL	
contact	text	YES		NULL	

6 rows in set (0.00 sec)

```
mysql> alter table students modify contact int;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc students;
```

Field	Type	Null	Key	Default	Extra
studentid	int	NO	PRI	NULL	
firstname	varchar(50)	NO		NULL	
lastname	varchar(50)	NO		NULL	
dateOfBirth	date	YES		NULL	
email	varchar(100)	YES	UNI	NULL	
contact	int	YES		NULL	

6 rows in set (0.00 sec)

```
mysql> alter table students drop primary key;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc students;
```

Field	Type	Null	Key	Default	Extra
studentid	int	NO		NULL	
firstname	varchar(50)	NO		NULL	
lastname	varchar(50)	NO		NULL	
dateOfBirth	date	YES		NULL	
email	varchar(100)	YES	UNI	NULL	
contact	int	YES		NULL	

6 rows in set (0.00 sec)

```
mysql> alter table students add primary key (studentid);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc students;
```

Field	Type	Null	Key	Default	Extra
studentid	int	NO	PRI	NULL	
firstname	varchar(50)	NO		NULL	
lastname	varchar(50)	NO		NULL	
dateOfBirth	date	YES		NULL	
email	varchar(100)	YES	UNI	NULL	
contact	int	YES		NULL	

6 rows in set (0.00 sec)

```
mysql> create table votinglist (id int primary key , name text not null ,age int , check(age>=18) );
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> insert into students (studentid,firstname,lastname,dateofbirth,email) values (1,'John','Doe','2000-02-20','johndoe@gmail.com');
```

Query OK, 1 row affected (0.00 sec)

mysql> alter table students drop column contact;

Query OK, 0 rows affected (0.01 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> insert into students (studentid,firstname,lastname,dateofbirth,email) values (2,'Johny','Dep','2002-05-21','johndep@gmail.com'), (3,"Chris","Evan","2001-03-03","chris123@gmail.com");

Query OK, 2 rows affected (0.00 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> select * from students;

studentid	firstname	lastname	dateOfBirth	email
1	John	Doe	2000-02-20	johndoe@gmail.com
2	Johny	Dep	2002-05-21	johndep@gmail.com
3	Chris	Evan	2001-03-03	chris123@gmail.com

3 rows in set (0.00 sec)

mysql> select studentid,firstname from students;

studentid	firstname
1	John
2	Johny
3	Chris

3 rows in set (0.00 sec)

mysql> select * from students;

studentid	firstname	lastname	dateOfBirth	email
1	John	Doe	2000-02-20	johndoe@gmail.com
2	Johny	Dep	2002-05-21	johndep@gmail.com
3	Chris	Evan	2001-03-03	chris123@gmail.com

3 rows in set (0.00 sec)

mysql> update students set email = "Doe_John_2024@gmail.com" ;

ERROR 1062 (23000): Duplicate entry 'Doe_John_2024@gmail.com' for key 'students.email'

mysql> update students set email = "Doe_John_2024@gmail.com" where studentid = 1;

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from students;

studentid	firstname	lastname	dateOfBirth	email
1	John	Doe	2000-02-20	Doe_John_2024@gmail.com
2	Johny	Dep	2002-05-21	johndep@gmail.com
3	Chris	Evan	2001-03-03	chris123@gmail.com

3 rows in set (0.00 sec)

mysql> delete from students where studentid = 1;

Query OK, 1 row affected (0.00 sec)

mysql> select * from students;

studentid	firstname	lastname	dateOfBirth	email
2	Johny	Dep	2002-05-21	johndep@gmail.com
3	Chris	Evan	2001-03-03	chris123@gmail.com

2 rows in set (0.00 sec)

mysql>