

20 july

```
mysql> create database stude_demo;
```

Query OK, 1 row affected (0.06 sec)

```
mysql> use stude_demo;
```

Database changed

```
mysql> create table stud(rollno int primary key,name varchar(20),per float,address varchar(20));
```

Query OK, 0 rows affected (0.16 sec)

```
mysql> desc stud;
```

Field	Type	Null	Key	Default	Extra
rollno	int	NO	PRI	NULL	
name	varchar(20)	YES		NULL	
per	float	YES		NULL	
address	varchar(20)	YES		NULL	

4 rows in set (0.03 sec)

```
mysql> insert into stud(rollno,name,per,address) values(1,'Ram',85.45,'pune');
```

Query OK, 1 row affected (0.02 sec)

```
mysql> insert into stud values(2,'Sita',80.54,'satara');
```

Query OK, 1 row affected (0.02 sec)

```
mysql> insert into stud values(3,'Krishn',90.56,'Kolhapur');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into stud values(4,'Radha',87.34,'mumbai');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into stud values(5,'Riddhi',88.34,'sangli');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> select * from stud;
```

rollno	name	per	address
1	Ram	85.45	pune
2	Sita	80.54	satara
3	Krishn	90.56	Kolhapur
4	Radha	87.34	mumbai
5	Riddhi	88.34	sangli

5 rows in set (0.00 sec)

```
mysql> alter table stud modify column address varchar(50);
```

Query OK, 0 rows affected (0.05 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> alter table stud modify column name varchar(50);
```

Query OK, 0 rows affected (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> alter table stud modify column per double;
```

Query OK, 5 rows affected (0.17 sec)

Records: 5 Duplicates: 0 Warnings: 0

```
mysql> select * from stud;
```

rollno	name	per	address
1	Ram	85.44999694824219	pune
2	Sita	80.54000091552734	satara
3	Krishn	90.55999755859375	Kolhapur
4	Radha	87.33999633789062	mumbai
5	Riddhi	88.33999633789062	sangli

5 rows in set (0.00 sec)

Add Column:

```
mysql> alter table stud add column email varchar(20);
```

Query OK, 0 rows affected (0.07 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> alter table stud add column mobileno varchar(20);
```

Query OK, 0 rows affected (0.07 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> alter table stud add column state varchar(20);
```

Query OK, 0 rows affected (0.07 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> select * from stud;
```

rollno	name	per	address	email	mobileno	state
1	Ram	85.44999694824219	pune	NULL	NULL	NULL
2	Sita	80.54000091552734	satara	NULL	NULL	NULL
3	Krishn	90.55999755859375	Kolhapur	NULL	NULL	NULL
4	Radha	87.33999633789062	mumbai	NULL	NULL	NULL
5	Riddhi	88.33999633789062	sangli	NULL	NULL	NULL

5 rows in set (0.00 sec)

Drop Column:

```
mysql> alter table stud change column name stud_name varchar(20);
```

Query OK, 5 rows affected (0.14 sec)

Records: 5 Duplicates: 0 Warnings: 0

```
mysql> alter table stud change column per stud_per varchar(20);
```

Query OK, 5 rows affected (0.14 sec)

Records: 5 Duplicates: 0 Warnings: 0

```
mysql> alter table stud change column rollno stud_id varchar(20);
```

Query OK, 5 rows affected (0.15 sec)

Records: 5 Duplicates: 0 Warnings: 0

```
mysql> select * from stud;
```

stud_id	stud_name	stud_per	address	email	mobilen	state
1	Ram	85.44999694824219	pune	NULL	NULL	NULL
2	Sita	80.54000091552734	satara	NULL	NULL	NULL
3	Krishn	90.55999755859375	Kolhapur	NULL	NULL	NULL
4	Radha	87.33999633789062	mumbai	NULL	NULL	NULL
5	Riddhi	88.33999633789062	sangli	NULL	NULL	NULL

5 rows in set (0.00 sec)

Constraint

Task 1:

Field	Type	Null	Key	Default	Extra
stud_id	varchar(20)	YES		NULL	
stud_name	varchar(20)	YES		NULL	
stud_per	varchar(20)	YES		NULL	
address	varchar(20)	YES		NULL	
email	varchar(20)	YES		NULL	
mobilen	varchar(10)	YES		NULL	
state	varchar(20)	YES		NULL	

7 rows in set (0.00 sec)

```
mysql> alter table stud modify column stud_name varchar(20)not null;
```

Query OK, 0 rows affected (0.11 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> alter table stud modify column stud_per varchar(20)not null;
```

Query OK, 0 rows affected (0.11 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> alter table stud modify column stud_name varchar(20)primary key;
```

Query OK, 0 rows affected (0.11 sec)

Records: 0 Duplicates: 0 Warnings: 0

Field	Type	Null	Key	Default	Extra
stud_id	varchar(20)	YES		NULL	
stud_name	varchar(20)	NO	PRI	NULL	
stud_per	varchar(20)	NO		NULL	
address	varchar(20)	YES		NULL	
email	varchar(20)	YES		NULL	
mobilen	varchar(10)	YES		NULL	
state	varchar(20)	YES		NULL	

7 rows in set (0.00 sec)

Task 2:

```
mysql> alter table stud modify column stud_id varchar(20)primary key;
```

ERROR 1068 (42000): Multiple primary key defined

```
mysql> create table persons(id int not null,lastname varchar(20) not null,firstname
varchar(20) not null,age int not null);
```

Query OK, 0 rows affected (0.07 sec)

```
mysql> desc persons;
```

Field	Type	Null	Key	Default	Extra
id	int	NO		NULL	
lastname	varchar(20)	NO		NULL	
firstname	varchar(20)	NO		NULL	
age	int	NO		NULL	

4 rows in set (0.00 sec)

Check Constraint:

```
mysql> create table stud1(id int primary key,name varchar(20) not null,class varchar(20)
check(class='fy' or class='sy'or class='ty'),age int not null check(age>=18 and age<=26),city
varchar(20));
```

Query OK, 0 rows affected (0.07 sec)

```
mysql> desc stud1;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	
name	varchar(20)	NO		NULL	
class	varchar(20)	YES		NULL	
age	int	NO		NULL	
city	varchar(20)	YES		NULL	

5 rows in set (0.00 sec)

```
mysql> insert into stud1 values(1,'Arohi','ty',22,'Kolhapur');
```

Query OK, 1 row affected (0.02 sec)

```
mysql> insert into stud1 values(2,'Kavya','fy',20,'Pune');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into stud1 values(3,'Aboli','sy',21,'Satara');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> select * from stud1;
```

id	name	class	age	city
1	Arohi	ty	22	Kolhapur
2	Kavya	fy	20	Pune
3	Aboli	sy	21	Satara

3 rows in set (0.00 sec)