

20july.

```
mysql> use student_info;
```

Database changed

```
mysql> insert into stud(rollno,name,per,address) values(01,'ram',87.88,'pune');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into stud values(02,'riya',78.98,'satara');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into stud values (03,'kittu',87.56,'sangli');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into stud value( 04,'simran',70.98,'katraj');
```

Query OK, 1 row affected (0.01 sec)

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

rollno	name	per	address
1	ram	87.88	pune
2	riya	78.98	satara
3	kittu	87.56	sangli
4	simran	70.98	katraj

4 rows in set (0.00 sec)

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

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

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

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

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

Query OK, 4 rows affected (0.06 sec)

Records: 4 Duplicates: 0 Warnings: 0

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

rollno	name	per	address
1	ram	87.87999725341797	pune
2	riya	78.9800033569336	satara
3	kittu	87.55999755859375	sangli
4	simran	70.9800033569336	katraj

```
4 rows in set (0.00 sec)
```

Add column

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

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> alter table stud add column mobileno varchar(10);
```

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

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

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

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

rollno	name	per	address	email	mobileno	state
1	ram	87.87999725341797	pune	NULL	NULL	NULL
2	riya	78.9800033569336	satara	NULL	NULL	NULL
3	kittu	87.55999755859375	sangli	NULL	NULL	NULL
4	simran	70.9800033569336	katraj	NULL	NULL	NULL

```
4 rows in set (0.00 sec)
```

Drop column

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

Query OK, 4 rows affected (0.09 sec)

Records: 4 Duplicates: 0 Warnings: 0

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

Query OK, 4 rows affected (0.05 sec)

Records: 4 Duplicates: 0 Warnings: 0

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

Query OK, 4 rows affected (0.06 sec)

Records: 4 Duplicates: 0 Warnings: 0

```
mysql> select * from stud;
+-----+-----+-----+-----+-----+-----+-----+
| stud_id | stud_name | stud_per | address | email | mobileno | state |
+-----+-----+-----+-----+-----+-----+-----+
| 1       | ram       | 87.87999725341797 | pune   | NULL  | NULL     | NULL  |
| 2       | riya      | 78.9800033569336 | satara | NULL  | NULL     | NULL  |
| 3       | kittu     | 87.55999755859375 | sangli | NULL  | NULL     | NULL  |
| 4       | simran    | 70.9800033569336 | katraj | NULL  | NULL     | NULL  |
+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

Constraint

Task 1:

Field	Type	Null	Key	Default	Extra
stud_id	varchar(20)	NO	PRI	NULL	
stud_name	varchar(20)	YES		NULL	
stud_per	varchar(20)	YES		NULL	
address	varchar(50)	YES		NULL	
email	varchar(20)	YES		NULL	
mobilenno	varchar(10)	YES		NULL	
state	varchar(20)	YES		NULL	

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

Query OK, 0 rows affected (0.06 sec)

Records: 0 Duplicates: 0 Warnings: 0

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

Query OK, 0 rows affected (0.06 sec)

Records: 0 Duplicates: 0 Warnings: 0

Field	Type	Null	Key	Default	Extra
stud_id	varchar(20)	NO	PRI	NULL	
stud_name	varchar(20)	NO		NULL	
stud_per	varchar(20)	NO		NULL	
address	varchar(50)	YES		NULL	
email	varchar(20)	YES		NULL	
mobilenno	varchar(10)	YES		NULL	
state	varchar(20)	YES		NULL	

Task 2.

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 (0.03 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	

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 (0.03 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	

mysql> insert into stud1 values(101,'radha patil','ty',21,'kolhapur');

Query OK, 1 row affected (0.01 sec)

mysql> insert into stud1 values(102,'roshni patil','fy',18,'karad');

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into stud1 values(103,'rohan khade','sy',20,'satara');
```

Query OK, 1 row affected (0.01 sec)

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

id	name	class	age	city
101	radha patil	ty	21	kolhapur
102	roshni patil	fy	18	karad
103	rohan khade	sy	20	satara