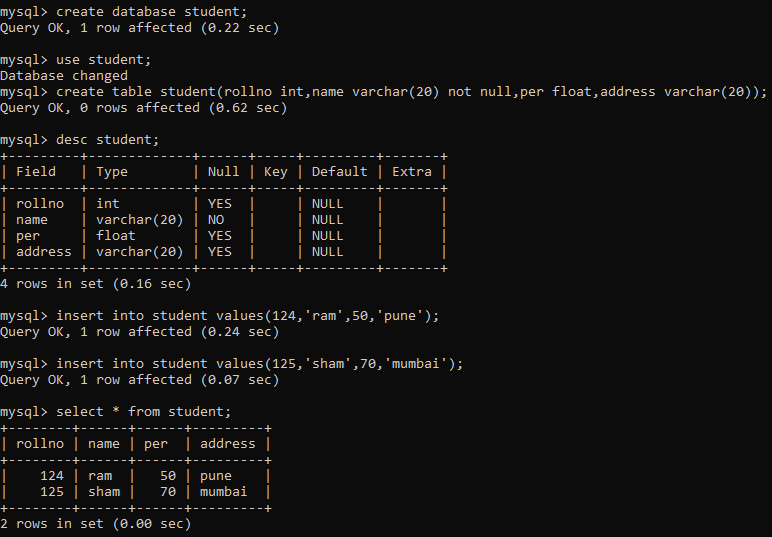
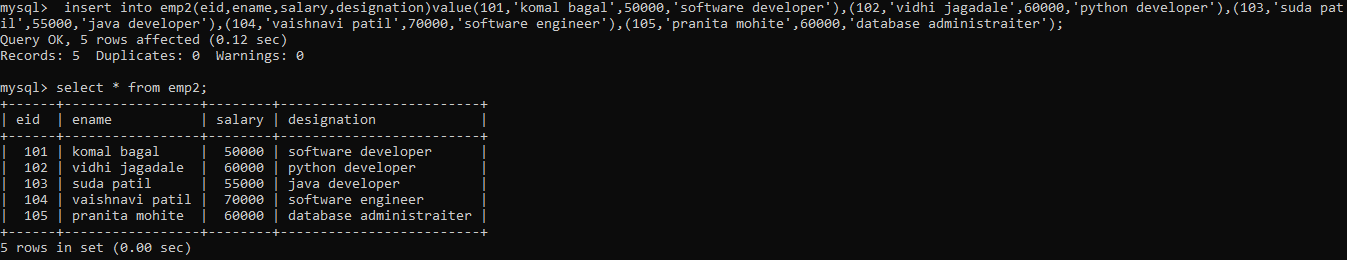
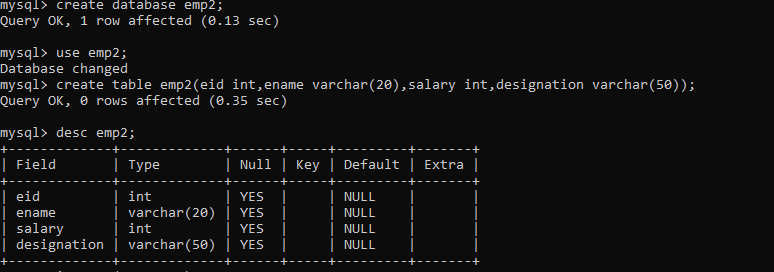
**1)Student table**



**2)employee table**

**3)doctor**

mysql> create database doct1;

mysql> use doct1;

Database changed

mysql> create table doct1(did int, dname varchar(20),address varchar(20),email varchar(20));

mysql> desc doct1;

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

| Field | Type | Null | Key | Default | Extra |

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

| did | int | YES | | NULL | |

| dname | varchar(20) | YES | | NULL | |

| address | varchar(20) | YES | | NULL | |

| email | varchar(20) | YES | | NULL | |

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

mysql>

insert into doct1(did,dname,email,address)value(1,'Ajay Mohite','ajay@gmail.com','Satara'),(2,'Vijay Mohite','vijay@gmail.com','Nashik'),(3,'Rahul Mohite','rahul@gmail.com','Kolhapur'),(4,'Sanjay Mohite','sanjay@gmail.com','Mumbai'),(4,'Raju Mohite','raju@gmail.com','Pune');

mysql> select \* from doct1;

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

| did | dname | address | email |

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

| 1 | Ajay Mohite | Satara | ajay@gmail.com |

| 2 | Vijay Mohite | Nashik | vijay@gmail.com |

| 3 | Rahul Mohite | Kolhapur | rahul@gmail.com |

| 4 | Sanjay Mohite | Mumbai | sanjay@gmail.com |

| 4 | Raju Mohite | Pune | raju@gmail.com |

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

**4)Book**

mysql> create database book;

Query OK, 1 row affected (0.13 sec)

mysql> use book;

Database changed

mysql> create table book(Bid int,Bname varchar(50),Auther varchar(20),Publication int,Price int);

Query OK, 0 rows affected (0.50 sec)

mysql> desc book;

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

| Field | Type | Null | Key | Default | Extra |

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

| Bid | int | YES | | NULL | |

| Bname | varchar(50) | YES | | NULL | |

| Auther | varchar(20) | YES | | NULL | |

| Publication | int | YES | | NULL | |

| Price | int | YES | | NULL | |

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

5 rows in set (0.00 sec)

mysql> insert into book(Bid,Bname,Auther,Publication,Price)value(1,'Macbeth','William Shakespeare',1987,2000),(2,'the habbit','Ajinkay Rane',1987,3000),(3,'Money','don Quixote',1957,3000),(4,'the world','rajesh patil',1887,4000),(1,'Mom','rekha roy',1987,5000);

Query OK, 5 rows affected (0.14 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> select \* from book;

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

| Bid | Bname | Auther | Publication | Price |

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

| 1 | Macbeth | William Shakespeare | 1987 | 2000 |

| 2 | the habbit | Ajinkay Rane | 1987 | 3000 |

| 3 | Money | don Quixote | 1957 | 3000 |

| 4 | the world | rajesh patil | 1887 | 4000 |

| 1 | Mom | rekha roy | 1987 | 5000 |

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

5 rows in set (0.00 sec)

**5.patient table**

mysql> use patient;

Database changed

mysql> create table patient(pid int ,pname varchar(20),address varchar(20),disease varchar(20),test

varchar(20));

mysql> desc patient;

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

| Field | Type | Null | Key | Default | Extra |

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

| pid | int | YES | | NULL | |

| pname | varchar(20) | YES | | NULL | |

| address | varchar(20) | YES | | NULL | |

| disease | varchar(20) | YES | | NULL | |

| test | varchar(20) | YES | | NULL | |

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

5 rows in set (0.09 sec)

mysql>insert into patient (pid, pname, address,disease, test)value(1,'Shiv' ,'kuroli','corona','negetive') ,(2,'pranita','Mumbai','zikka','positive'),( 3,'tejas','satara','Maleria','negetive'), (4,'Shree','kuroli','T yfad ', 'negetive'),(5,'pragati','pune','Dengu','Possitive');

mysql> select \* from patient;

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

| pid | pname | address | disease | test |

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

| 1 | Shiv | kuroli | corona | negetive |

| 2 | pranita | Mumbai | zikka | positive |

| 3 | tejas | satara | Maleria | negetive |

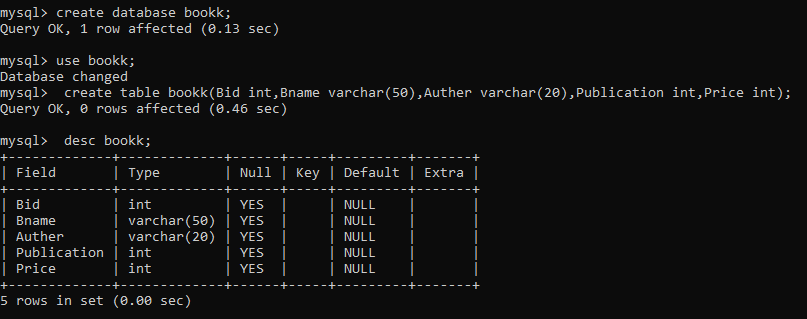
| 4 | Shree | kuroli | Tyfad | negetive |

| 5 | pragati | pune | Dengu | Possitive |

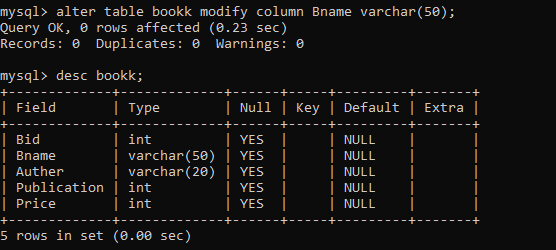
+-------+----------+----------+----------+-----------+

**20 july**

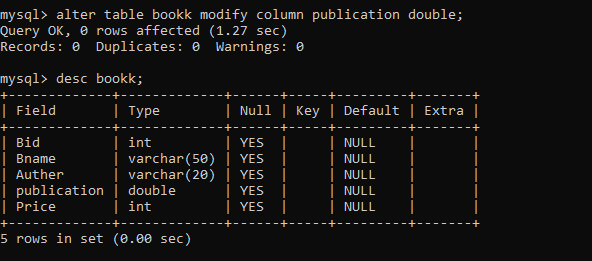
**1)Add 2) drop queries**



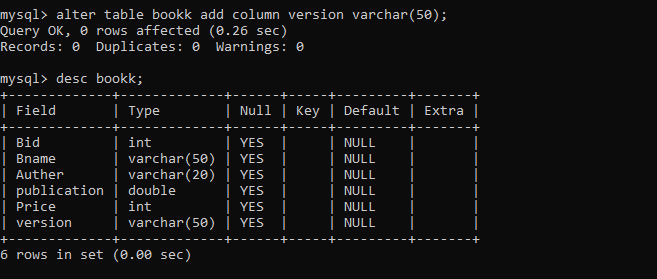
**Q1) Modify column**

****

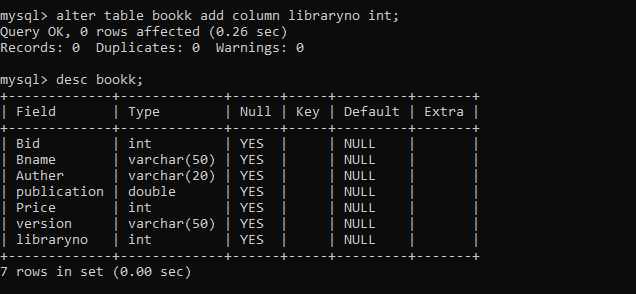
**Q2)Modify column**

****

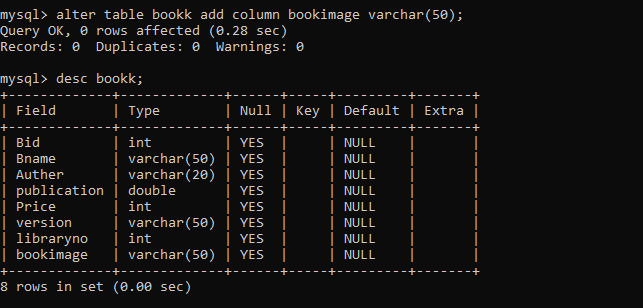
**Q1)Add column**

****

**Q2)Add column**

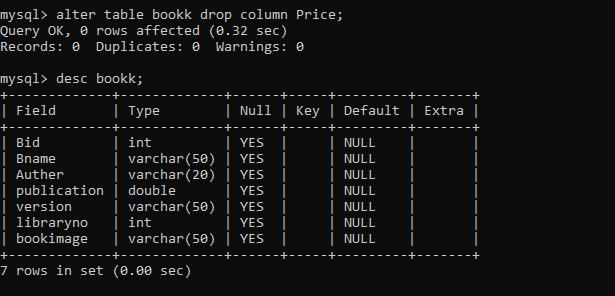
****

**Q3)Add column**

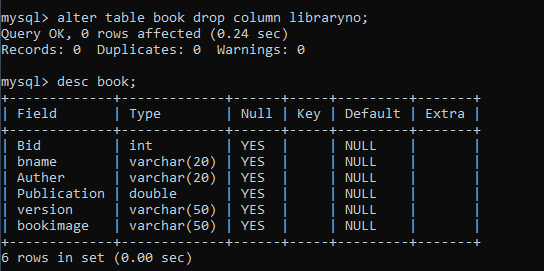
****

**Q4)Drop column**

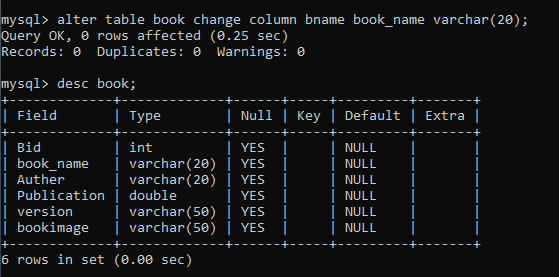
1)price

****

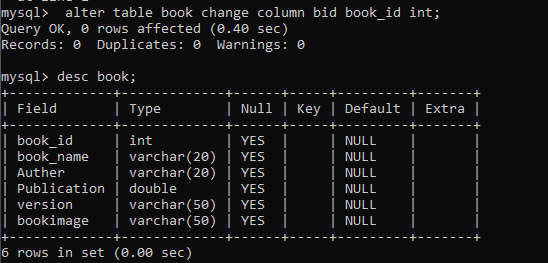
2) column libraryno

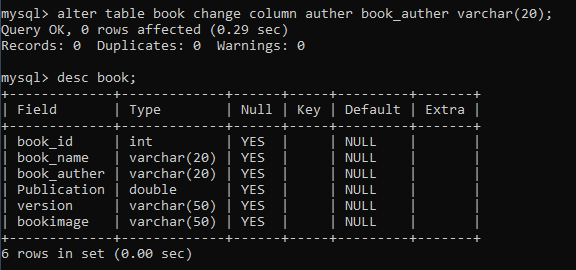


**Rename Table:-**



**1)Rename column**

****

****

**SQL NOT NULL CONSRAINT**

mysql> create table patient(id int not null,lastname varchar(255) not null,fristname varchar(255) not null,age int);

Query OK, 0 rows affected (0.06 sec)

mysql> desc patient;

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

| Field | Type | Null | Key | Default | Extra |

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

| id | int | NO | | NULL | |

| lastname | varchar(255) | NO | | NULL | |

| fristname | varchar(255) | NO | | NULL | |

| age | int | YES | | NULL | |

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

4 rows in set (0.01 sec)

**Q 2. NULL column-**

mysql> create table person(id int not null,lastname varchar(255) not null,fristname varchar(255) not null,age int);

Query OK, 0 rows affected (0.03 sec)

mysql> desc person;

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

| Field | Type | Null | Key | Default | Extra |

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

| id | int | NO | | NULL | |

| lastname | varchar(255) | NO | | NULL | |

| fristname | varchar(255) | NO | | NULL | |

| age | int | YES | | NULL | |

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

4 rows in set (0.00 sec)

**Q 2. NULL column-**

mysql> create table patient(id int ,lastname varchar(255) not null,fristname varchar(255) not null,age int);

ERROR 1050 (42S01): Table 'patient' already exists

mysql> create table candidate(id int,lastname varchar(255) not null,fristname varchar(255) not null,age int);

Query OK, 0 rows affected (0.04 sec)

mysql> desc candidate;

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

| Field | Type | Null | Key | Default | Extra |

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

| id | int | YES | | NULL | |

| lastname | varchar(255) | NO | | NULL | |

| fristname | varchar(255) | NO | | NULL | |

| age | int | YES | | NULL | |

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

4 rows in set (0.00 sec)

**SQL UNIQUE CONSTAINT ON CREATE TABLE**

mysql> create table persons(id int not null unique,lastname varchar(255) not null,fristname varchar(255),age int);

Query OK, 0 rows affected (0.04 sec)

mysql> desc persons;

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

| Field | Type | Null | Key | Default | Extra |

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

| id | int | NO | PRI | NULL | |

| lastname | varchar(255) | NO | | NULL | |

| fristname | varchar(255) | YES | | NULL | |

| age | int | YES | | NULL | |

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

4 rows in set (0.00 sec)

**Q 1,MySQL**

create table p(id int not null unique,lastname varchar(255),fristname varchar(255),age int,unique(id));

Query OK, 0 rows affected, 1 warning (0.17 sec)

mysql> desc p;

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

| Field | Type | Null | Key | Default | Extra |

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

| id | int | NO | PRI | NULL | |

| lastname | varchar(255) | YES | | NULL | |

| fristname | varchar(255) | YES | | NULL | |

| age | int | YES | | NULL | |

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

4 rows in set (0.01 sec)

**SQL UNIQUE CONSTAINT ON ALTER TABLE**

mysql> use person;

Database changed

mysql> create table person(id int,firstname varchar(20),lastname varchar(20));

Query OK, 0 rows affected (0.35 sec)

mysql> desc person;

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

| Field | Type | Null | Key | Default | Extra |

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

| id | int | YES | | NULL | |

| firstname | varchar(20) | YES | | NULL | |

| lastname | varchar(20) | YES | | NULL | |

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

3 rows in set (0.00 sec)

**ADD CONSTRAINT-**

mysql> alter table person add constraint oit unique (id,lastname);

Query OK, 0 rows affected (0.54 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc person;

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

| Field | Type | Null | Key | Default | Extra |

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

| id | int | YES | MUL | NULL | |

| firstname | varchar(20) | YES | | NULL | |

| lastname | varchar(20) | YES | | NULL | |

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

3 rows in set (0.00 sec)

**DROP CONSTAINT**

mysql> alter table person drop constraint oit;

Query OK, 0 rows affected (0.23 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc person;

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

| Field | Type | Null | Key | Default | Extra |

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

| id | int | YES | | NULL | |

| firstname | varchar(20) | YES | | NULL | |

| lastname | varchar(20) | YES | | NULL | |

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

3 rows in set (0.00 sec)

**ADD CONSTRAINT-**

mysql> alter table person add constraint oit unique(id,lastname);

Query OK, 0 rows affected (0.20 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc person;

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

| Field | Type | Null | Key | Default | Extra |

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

| id | int | YES | MUL | NULL | |

| firstname | varchar(20) | YES | | NULL | |

| lastname | varchar(20) | YES | | NULL | |

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

3 rows in set (0.00 sec)

**ADD CONSTRAINT-**

mysql> alter table person drop constraint oit;

Query OK, 0 rows affected (0.23 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc person;

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

| Field | Type | Null | Key | Default | Extra |

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

| id | int | YES | | NULL | |

| firstname | varchar(20) | YES | | NULL | |

| lastname | varchar(20) | YES | | NULL | |

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

3 rows in set (0.00 sec)

**DROP CONSTAINT**

mysql> alter table person drop constraint oit;

Query OK, 0 rows affected (0.23 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc person;

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

| Field | Type | Null | Key | Default | Extra |

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

| id | int | YES | | NULL | |

| firstname | varchar(20) | YES | | NULL | |

| lastname | varchar(20) | YES | | NULL | |

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

3 rows in set (0.00 sec)

mysql> create database per;

Query OK, 1 row affected (0.12 sec)

mysql> use per;

Database changed

mysql> create table per(id int not null,lastname varchar(255)not null,fristname varchar(255),age int,constraint oit unique(id,lastname));

Query OK, 0 rows affected (0.44 sec)

mysql> desc per;

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

| Field | Type | Null | Key | Default | Extra |

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

| id | int | NO | PRI | NULL | |

| lastname | varchar(255) | NO | PRI | NULL | |

| fristname | varchar(255) | YES | | NULL | |

| age | int | YES | | NULL | |

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

4 rows in set (0.00 sec)

mysql> insert into per values(101,'abc','xyz',23),(102,'abc','xyz',23);

Query OK, 2 rows affected (0.19 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> select \*from per;

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

| id | lastname | fristname | age |

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

| 101 | abc | xyz | 23 |

| 102 | abc | xyz | 23 |

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

2 rows in set (0.00 sec)

mysql> alter table per drop constraint oit;

Query OK, 2 rows affected (1.75 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> select \* from per;

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

| id | lastname | fristname | age |

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

| 101 | abc | xyz | 23 |

| 102 | abc | xyz | 23 |

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

2 rows in set (0.00 sec)

mysql> select\* from oit;

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

| id | fristname | lastname |

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

| 101 | komal | bagal |

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

1 row in set (0.00 sec)

mysql> create table per1(id int not null,lastname varchar(255) not null,fristname varchar(255),age int check(age>=18));

Query OK, 0 rows affected (0.04 sec)

mysql> desc per1;

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

| Field | Type | Null | Key | Default | Extra |

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

| id | int | NO | | NULL | |

| lastname | varchar(255) | NO | | NULL | |

| fristname | varchar(255) | YES | | NULL | |

| age | int | YES | | NULL | |

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

4 rows in set (0.00 sec)

mysql> use employe1;

Database changed

mysql> create table empoye1(id int not null,lastname varchar(255) not null,fristname varchar(255),age int check(age>=18));

Query OK, 0 rows affected (0.41 sec)

mysql> desc empoye1;

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

| Field | Type | Null | Key | Default | Extra |

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

| id | int | NO | | NULL | |

| lastname | varchar(255) | NO | | NULL | |

| fristname | varchar(255) | YES | | NULL | |

| age | int | YES | | NULL | |

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

**SQL PRIMARY KEY ON CONSTAINT**

**CREATE TABLE**

mysql> desc per;

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

| Field | Type | Null | Key | Default | Extra |

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

| id | int | NO | | NULL | |

| lastname | varchar(255) | NO | | NULL | |

| fristname | varchar(255) | YES | | NULL | |

| age | int | YES | | NULL | |

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

4 rows in set (0.00 sec)

mysql> select \* from per;

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

| id | lastname | fristname | age |

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

| 101 | abc | xyz | 23 |

| 102 | abc | xyz | 23 |

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

2 rows in set (0.00 sec)

mysql> alter table per add constraint check(age>=1 and age<=125);

Query OK, 2 rows affected (1.34 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> desc per;

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

| Field | Type | Null | Key | Default | Extra |

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

| id | int | NO | | NULL | |

| lastname | varchar(255) | NO | | NULL | |

| fristname | varchar(255) | YES | | NULL | |

| age | int | YES | | NULL | |

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

4 rows in set (0.00 sec)

**SQL DEFAULT Constraint on CREATE TABLE**

mysql> use worker;

Database changed

mysql> create table worker(id int not null,fristname varchar(255)not null,lastname varchar(255),age int,city varchar(255) default'work');

Query OK, 0 rows affected (0.40 sec)

mysql> desc worker;

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

| Field | Type | Null | Key | Default | Extra |

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

| id | int | NO | | NULL | |

| fristname | varchar(255) | NO | | NULL | |

| lastname | varchar(255) | YES | | NULL | |

| age | int | YES | | NULL | |

| city | varchar(255) | YES | | work | |

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

5 rows in set (0.00 sec)

**CREATE TABLE**

mysql> create table worker1(wid int not null auto\_increment,lastname varchar(255)not null,fristname varchar(255),age int,primary key(wid));

Query OK, 0 rows affected (0.04 sec)

mysql> desc worker1;

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

| Field | Type | Null | Key | Default | Extra |

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

| wid | int | NO | PRI | NULL | auto\_increment |

| lastname | varchar(255) | NO | | NULL | |

| fristname | varchar(255) | YES | | NULL | |

| age | int | YES | | NULL | |

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

4 rows in set (0.01 sec)

mysql> insert into worker1(lastname,fristname,age)values('shinde','anurag',22);

Query OK, 1 row affected (0.01 sec)

mysql> select\* from worker1;

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

| wid | lastname | fristname | age |

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

| 1 | shinde | anurag | 22 |

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

1 row in set (0.00 sec)

mysql> insert into worker1(lastname,fristname,age)values('bagal','priyanka',27);

Query OK, 1 row affected (0.00 sec)

mysql> select\* from worker1;

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

| wid | lastname | fristname | age |

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

| 1 | shinde | anurag | 22 |

| 2 | bagal | priyanka | 27 |

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

2 rows in set (0.00 sec)