**Check Constraints:**

create table Persons(Id INT NOT NULL AUTO\_INCREMENT,Age TINYINT NOT NULL,Name VARCHAR(80) NOT NULL, PRIMARY KEY(id), CHECK(Age>=18));

**insert into Users(Id,Age,Name)VALUES(1,23,"Sayak Haldar");**

**Check On Alter Table:**

ALTER TABLE Persons ADD CHECK (Age>=18);

To allow naming of a CHECK constraint, and for defining a CHECK constraint on multiple columns, use the following MySQL syntax:

**ALTER TABLE Persons ADD CHECK (Age>=18 AND Country=”INDIA”);**

**To Add A Name For Check Constraint:**

**First Way:**

ALTER TABLE Persons CHECK check\_youth\_of\_INDIA (Age>=18 AND Country=”INDIA”);

**Second way:**

ALTER TABLE Persons ADD CONSTRAINT check\_youth\_of\_INDIA CHECK (Age>=18 AND Country=”INDIA”);

**Drop Check Constraint:**

**First Way:**

ALTER TABLE Persons DROP CHECK check\_youth\_of\_INDIA ;

**Second Way:**

ALTER TABLE Persons DROP CONSTRAINT CHECK check\_youth\_of\_INDIA ;

**Drop Check:**

However, without constraint (or, without having a name for check constraint) drop check is impossible.

**ALTER TABLE Persons DROP CHECK;** won’t work.

**More Advanced Example Of Check Constraint:**

create table User(UserID VARCHAR(20) NOT NULL,UserName VARCHAR(80) NOT NULL,PhoneNumber VARCHAR(20) NOT NULL, Email VARCHAR(20) NOT NULL, PRIMARY KEY(UserID),CHECK UserID LIKE "[A-Za-z0-9]{6,20}");

This actually works. So, validation checking based on regex can be added.

But, this validation won’t work.

And even simple validation won’t work.

Like, say, a table exists named Person like the following:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **NULL** | **Key** | **Default** | **Extra** |
| ID | INT(11) | NO | PRI | NULL | AUTO\_  INCREMENT |
| NAME | VARCHAR(80) | NO |  | NULL |  |
| AGE | TINYINT | NO |  | NULL |  |

Now, The validation is added:

**Alter table Person ADD CHECK AgeChecking(AGE>=20);**

But, no problem happens during insertion.

The reason behind this can be found in mysql reference manual(dev.mysql.com/doc/refman/5.7/en/create-table.html)

The CHECK clause is parsed but ignored by all storage engines.

Instead, Triggers need to be written.

But, it won’t be as effective as Check Constraints.