* **Constraint:**

-SQL Constraint are used to specify rules for the data in a table.

-Constraint are used to limit the type of data that can go into a table.

Types of constraint:

1. NULL:

Purpose: We can keep that column value Empty/Blank.

2. NOT NULL:

Purpose: Ensure that a column cannot have a NULL value.

3. UNIQUE:

Purpose: Ensure that all values in a column are different.

4. CHECK:

Purpose: Ensure that the values in a column satisfy a specific condition.

5 Primary Key:

6. Foreign Key:

* **NULL & NOT NULL:**

Syntax: Create table table\_name (column1\_name datatype (datatype size) constraint, column2\_name dataype (datatypesize) constraint, column3\_name datatype (datatypesize) constraint);

Ex : CREATE TABLE BS\_Batch12M (Emp\_First\_Name varchar (40) NOT NULL,Emp\_Last\_Name varchar (30) NOT NULL,Emp\_Age int,Emp\_City varchar (40) NULL,Emp\_ID int;)

Insert Into BS\_Batch12M (Emp\_First\_Name,Emp\_Last\_Name,Emp\_Age,Emp\_City,Emp\_ID) values ('Sachin','Tendulkar',42,'',1);

Insert Into BS\_Batch12M (Emp\_First\_Name,Emp\_Last\_Name,Emp\_Age,Emp\_City,Emp\_ID) values ('Sachin','Tendulkar',42,'Mumbai',1);

Insert Into BS\_Batch12M (Emp\_First\_Name,Emp\_Last\_Name,Emp\_Age,Emp\_City,Emp\_ID) values ('','Sharma',35,'Navi\_Mumbai',2);

Select \* from BS\_Batch12M;

* **UNIQUE:**

CREATE table BS\_B12M (Emp\_First\_Name varchar (40) NOT NULL,Emp\_Last\_Name varchar (30) NOT NULL,Emp\_Age int,Emp\_City varchar (40) NULL,Emp\_ID int UNIQUE);

Insert Into BS\_B12M (Emp\_First\_Name,Emp\_Last\_Name,Emp\_Age,Emp\_City,Emp\_ID) values ('Sachin','Tendulkar',42,'',1);

Insert Into BS\_B12M (Emp\_First\_Name,Emp\_Last\_Name,Emp\_Age,Emp\_City,Emp\_ID) values ('Rohit','Sharma',35,'Mumbai',1);

* CHECK:

CREATE table BS\_B12 (Emp\_First\_Name varchar (40) NOT NULL,Emp\_Last\_Name varchar (30) NOT NULL,Emp\_Age int CHECK (Emp\_Age>=18),Emp\_City varchar (40) NULL,Emp\_ID int UNIQUE);

Insert Into BS\_B12 (Emp\_First\_Name,Emp\_Last\_Name,Emp\_Age,Emp\_City,Emp\_ID) values ('Rohit','Sharma',35,'Mumbai',1);

Insert Into BS\_B12 (Emp\_First\_Name,Emp\_Last\_Name,Emp\_Age,Emp\_City,Emp\_ID) values ('Rohit','Sharma',17,'Mumbai',2);

Insert Into BS\_B12 (Emp\_First\_Name,Emp\_Last\_Name,Emp\_Age,Emp\_City,Emp\_ID) values ('Rohit','Sharma',18,'Mumbai',2);

Select \* from BS\_B12;