--Constraints -- Constraints are used to maintain the accuracy and integrity of the data. --1.Primary Key --2.Foreign Key --3.NOT NULL key --4.Unique Key --5.Check Key --6.Default key --1.Primary Key --PK --NOT NULL + UNIQUE --It will always identifies unique record into column of the table. --PK is used in general with numeric values . Create table student(S_ID int primary key, STUDENT_NAME varchar(20), LOC varchar(20)) insert into student values (1,'praveen','pune') insert into student values (2,'Rohan','mumbai') insert into student values (3,'Rohan','mumbai')

select * from student

insert into student values (NULL,'veen','pune')

Auto Increment
It will automatically insert or increment the unique values into table once you define the auto increment.
It will allow you to specify the range of values by which you want to create a unique values.
Syntax : Column_name IDENTITY(start,diff)
-
create table BankAccount1(Account int primary key identity(11128870,1),
AccName varchar(20),
Branch varchar(20),
City varchar(20))
insert into BankAccount values ('Shon','KR PURAM','Banglore')
insert into BankAccount values ('Rohan','SP Road','Pune')
insert into BankAccount values ('Amit','Katraj','Pune')
insert into BankAccount values ('Mansi','Miyapur','HYD')
insert into BankAccount values ('Sagar','Shivaji Nagar','Sangli')
select * from BankAccount
2.Foreign Key(FK)
A FK is column or collection o columns in one table that referes to the primary key in another table.

```
--NULL value can be allowed in foreign key column.
create table department(DID int primary key identity, Dept varchar(20))
insert into department values('CIVIL')
insert into department values('Mech')
insert into department values('IT')
insert into department values('ECE')
select * from department
create table student (S_ID int primary key identity, S_NAME varchar(20),
DID int foreign key references department(DID) )
insert into student values ('Praveen',2)
insert into student values ('amit',2)
insert into student values ('Ronit',1)
insert into student values ('Meena',4)
insert into student values ('shanmuka',3)
insert into student values ('monika', Null)
insert into student values ('monika',7)
select * from student
```

--3.NOT NULL

```
--NOT NULL constraint restrict you to insert NULL values into a column.
--If you define NOT NULL constraint on column then you cant insert the NULL values in it.
--It will allow duplicates.
create table NOTNULL (NID int , FirstName varchar(20) NOT NULL, AGE int NOT NULL)
insert into NOTNULL values (1,'Amrita',27)
insert into NOTNULL values (2,'Amrita',27)
insert into NOTNULL values (3,NULL,27)
select * from NOTNULL
--4.Unique
--It ensures that all the values in a column should be unique or diffrent value.
--It will accept one NULL value into the column.
create table UNIQUE_TEST (U_ID int Unique, FirstName varchar(20) NOT NULL unique, AGE int NOT
NULL)
insert into UNIQUE_TEST values (1,'Amrita',27)
insert into UNIQUE_TEST values (2,'Sangita',27)
insert into UNIQUE_TEST values (NULL,'Arpita',23)
insert into UNIQUE_TEST values (NULL, 'mehir', 23)
select * from UNIQUE_TEST
```



```
D_name varchar(10) NOT NULL Unique,

D_City varchar(10),

D_AGE int check(D_age >= 20),

D_LOC varchar(20) default 'Balaji Nagar')

select * from DEFAULT_VALUE

--METHOD-I
insert into DEFAULT_VALUE values(1,'Smita','Jaipur',20,'katraj')
insert into DEFAULT_VALUE values(2,'Amla','Chennai',28,default)
```

insert into DEFAULT_VALUE values(3,'Asin','Madurai',34,'')