**Create Trigger**

Select \* from Test1

Select \* from Test2

Id Value

1 X

2 X

3 X

Id Value

Create Trigger trForInsert on Test1 For Insert

as

Begin

Insert into Test2 values ('YYYY')

End

Insert into Test1 values ('X')

Select \* from Test1

Select \* from Test2

Id Value

1 X

2 X

3 X

4 X

Id Value

1 YYYY

Select SCOPE\_IDENTITY()

(No column name)

4

Above value for the first table

Select @@IDENTITY

(No column name)

1

This column number for trigger table( Test2)

Select \* from Test2

Id Value

1 YYYY

SCOPE\_IDENTITY() - returns the last identity value that is created in the same session and in the same scope.

@@IDENTITY - returns the last identity value that is created in the same session and across any scope.

IDENT\_CURRENT('TableName') - returns the last identity value that is created for a specific table across any session and any scope.

For Example

In one session

Insert into Test2 values ('zzzz')

And Another session

Insert into Test2 values ('zzzz')

Select SCOPE\_IDENTITY()

(No column name)

2

Select @@IDENTITY

(No column name)

2

Select IDENT\_CURRENT('Test2')

(No column name)

3

**Adding Unique Key Constraint**

Alter Table tblPerson

Add Constraint UQ\_tblPerson\_Email Unique(Email)

general syntax-

Alter Table Table\_Name

Add Constraint Constraint\_Name Unique(Column\_Name)

Delete from tblPerson

Select \* from tblPerson

ID Name Email GenderId Age

Insert into tblPerson values(1,'tom','t@s.com',1,NULL)

Select \* from tblPerson

ID Name Email GenderId Age

1 tom t@s.com 1 NULL

Insert into tblPerson values(2,'tom','t@s.com',1,NULL)

Select \* from tblPerson

It will gives error because Email is unique in this and we are trying to

duplicate value

Drop Unique Constraint

Alter Table tblPerson

Drop COnstraint UQ\_tblPerson\_Email

When we drop this Constraint then we will be able to insert duplicate email

Insert into tblPerson values(2,'tom','t@s.com',1,NULL)

Select \* from tblPerson

ID Name Email GenderId Age

1 tom t@s.com 1 NULL

2 tom t@s.com 1 NULL

Select Command

Select \* from tblPerson

ID Name Email GenderId Age

1 tom t@s.com 1 NULL

2 tom t@s.com 1 NULL

SELECT [ID] ,[Name] ,[Email] ,[GenderId]

,[Age]

FROM [dbo].[tblPerson]

GO

ID Name Email GenderId Age

1 tom t@s.com 1 NULL

2 tom t@s.com 1 NULL

ALTER TABLE tblPerson

ADD City int NULL

Select \* from tblPerson

ID Name Email GenderId Age City

1 tom t@s.com 1 NULL NULL

2 tom t@s.com 1 NULL NULL

ALTER TABLE tblPerson

DROP COLUMN City;

ALTER TABLE tblPerson

ADD City varchar(20) NULL

Select \* from tblPerson

ID Name Email GenderId Age City

1 tom t@s.com 1 NULL NULL

2 tom t@s.com 1 NULL NULL

Insert into tblPerson values(3,'john','john@s.com',1,45,'london')

Insert into tblPerson values(4,'manis','maneesh@s.com',1,22,'lucknow')

Insert into tblPerson values(5,'tom','tom@s.com',1,56,'newyork')

Insert into tblPerson values(6,'marry','marry@s.com',1,29,'london')

Select \* from tblPerson

ID Name Email GenderId Age City

1 tom t@s.com 1 NULL NULL

2 tom t@s.com 1 NULL NULL

3 john john@s.com 1 45 london

4 manis maneesh@s.com 1 22 lucknow

5 tom tom@s.com 1 56 newyork

6 marry marry@s.com 1 29 london

Select Distinct City from tblPerson

City

NULL

london

lucknow

newyork

Select Distinct Name,City from tblPerson

Name City

john london

manis lucknow

marry london

tom NULL

tom newyork

**Where Command**

Select \* from tblPerson Where City='london'

ID Name Email GenderId Age City

3 john john@s.com 1 45 london

6 marry marry@s.com 1 29 london

Select \* from tblPerson Where City<>'london'

ID Name Email GenderId Age City

4 manis maneesh@s.com 1 22 lucknow

5 tom tom@s.com 1 56 newyork

Select \* from tblPerson Where City!='london'

ID Name Email GenderId Age City

4 manis maneesh@s.com 1 22 lucknow

5 tom tom@s.com 1 56 newyork

**In Operator**

Select \* from tblPerson Where Age In (22,29,45)

ID Name Email GenderId Age City

3 john john@s.com 1 45 london

4 manis maneesh@s.com 1 22 lucknow

6 marry marry@s.com 1 29 london

**Between Operator**

Select \* from tblPerson Where Age Between 22 And 30

ID Name Email GenderId Age City

4 manis maneesh@s.com 1 22 lucknow

6 marry marry@s.com 1 29 london

**Like Operator And Wildcard(%)**

Select \* from tblPerson Where City Like 'l%'

ID Name Email GenderId Age City

3 john john@s.com 1 45 london

4 manis maneesh@s.com 1 22 lucknow

6 marry marry@s.com 1 29 london

Select \* from tblPerson Where Email Like '%@%'

ID Name Email GenderId Age City

1 tom t@s.com 1 NULL NULL

2 tom t@s.com 1 NULL NULL

3 john john@s.com 1 45 london

4 manis maneesh@s.com 1 22 lucknow

5 tom tom@s.com 1 56 newyork

6 marry marry@s.com 1 29 london

Select \* from tblPerson Where Email Not Like '%@%'

ID Name Email GenderId Age City

Select \* from tblPerson Where Email Like '\_@\_.com'

ID Name Email GenderId Age City

1 tom t@s.com 1 NULL NULL

2 tom t@s.com 1 NULL NULL

Select \* from tblPerson Where Name Like '[Mj]%'

ID Name Email GenderId Age City

3 john john@s.com 1 45 london

4 manis maneesh@s.com 1 22 lucknow

6 marry marry@s.com 1 29 london

Select \* from tblPerson Where Name Like '[^Mj]%'

ID Name Email GenderId Age City

1 tom t@s.com 1 NULL NULL

2 tom t@s.com 1 NULL NULL

5 tom tom@s.com 1 56 newyork

**And and Or operator**

Select \* from tblPerson Where (City='london' or City='lucknow')

And Age>30

ID Name Email GenderId Age City

3 john john@s.com 1 45 london

**Order By**

Select \* from tblPerson order by Name

ID Name Email GenderId Age City

3 john john@s.com 1 45 london

4 manis maneesh@s.com 1 22 lucknow

6 marry marry@s.com 1 29 london

5 tom tom@s.com 1 56 newyork

1 tom t@s.com 1 NULL NULL

2 tom t@s.com 1 NULL NULL

Select \* from tblPerson order by Name Desc

ID Name Email GenderId Age City

1 tom t@s.com 1 NULL NULL

2 tom t@s.com 1 NULL NULL

5 tom tom@s.com 1 56 newyork

6 marry marry@s.com 1 29 london

4 manis maneesh@s.com 1 22 lucknow

3 john john@s.com 1 45 london

Select \* from tblPerson order by Name Desc,Age Asc

ID Name Email GenderId Age City

1 tom t@s.com 1 NULL NULL

2 tom t@s.com 1 NULL NULL

5 tom tom@s.com 1 56 newyork

6 marry marry@s.com 1 29 london

4 manis maneesh@s.com 1 22 lucknow

3 john john@s.com 1 45 london

**Top Command**

Select Top 2 \* from tblPerson

ID Name Email GenderId Age City

1 tom t@s.com 1 NULL NULL

2 tom t@s.com 1 NULL NULL

Select Top 50 PERCENT \* from tblPerson

ID Name Email GenderId Age City

1 tom t@s.com 1 NULL NULL

2 tom t@s.com 1 NULL NULL

3 john john@s.com 1 45 london

Select Top 2 \* from tblPerson order By Age Desc

ID Name Email GenderId Age City

5 tom tom@s.com 1 56 newyork

3 john john@s.com 1 45 london

**Group By Command**

Delete from tblPerson

Select \* from tblPerson

ID Name Email GenderId Age City

ALTER TABLE tblPerson

ADD Salary int NULL

Insert into tblPerson values(1,'john','john@s.com',1,45,'london',45000)

Insert into tblPerson values(2,'raju','maneesh@s.com',1,22,'lucknow',56000)

Insert into tblPerson values(3,'john','john@s.com',1,45,'london',70000)

Insert into tblPerson values(4,'manis','maneesh@s.com',1,22,'lucknow',40000)

Insert into tblPerson values(5,'tom','tom@s.com',1,56,'newyork',45000)

Insert into tblPerson values(6,'marry','marry@s.com',2,29,'london',36000)

Select \* from tblPerson

ID Name Email GenderId Age City Salary

1 john john@s.com 1 45 london 45000

2 raju maneesh@s.com 1 22 lucknow 56000

3 john john@s.com 1 45 london 70000

4 manis maneesh@s.com 1 22 lucknow 40000

5 tom tom@s.com 1 56 newyork 45000

6 marry marry@s.com 2 29 london 36000

**Aggregate Function**

Select Sum(Salary) from tblPerson

(No column name)

292000

Select Min(Salary) from tblPerson

(No column name)

36000

Select City, Sum(Salary) As TotalSalary from tblPerson

Group By City

City TotalSalary

london 151000

lucknow 96000

newyork 45000