# **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
    Χ
2
    Χ
3
    Χ
4
    Χ
Ιd
    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)
Select @@IDENTITY
(No column name)
Select IDENT_CURRENT('Test2')
(No column name)
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
            Email GenderId
      Name
                               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
            Email GenderId
     Name
                              Age
1
      tom
            t@s.com
                               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
                               NULL
      tom
            t@s.com
                         1
SELECT [ID] ,[Name] ,[Email] ,[GenderId]
     ,[Age]
 FROM [dbo].[tblPerson]
GO
ID
      Name Email GenderId
                               Age
```

NULL

1

tom

t@s.com

```
2
                                   NULL
                            1
       tom
              t@s.com
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
                            1
                                   NULL
                                          NULL
       tom
              t@s.com
ALTER TABLE tblPerson
DROP COLUMN City;
ALTER TABLE tblPerson
ADD City varchar(20) NULL
Select * from tblPerson
ID
              Email GenderId
      Name
                                   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
              Email GenderId
ID
       Name
                                   Age
                                          City
                                   NULL
                                          NULL
1
       tom
              t@s.com
                            1
2
       tom
              t@s.com
                            1
                                   NULL
                                          NULL
3
       john
              john@s.com
                                   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
      City
Name
      london
john
manis lucknow
marry london
      NULL
tom
      newyork
tom
Where Command
Select * from tblPerson Where City='london'
ID
      Name
             Email GenderId
                                 Age
                                       City
3
      john
             john@s.com
                                 45
                                       london
      marry marry@s.com
6
                                 29
                                       london
Select * from tblPerson Where City<>'london'
ID
             Email GenderId
      Name
                                 Age
                                       City
      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
      manis maneesh@s.com 1
                                 22
                                       lucknow
```

## In Operator

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

ID	Name	Email Gender	Σd	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 Gender	Id	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 '1%'

ID	Name	Email Gender	Ιd	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 Gender	Ιd	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
            t@s.com 1
                                NULL
                                      NULL
1
      tom
2
            t@s.com
                                NULL
                                      NULL
      tom
                         1
Select * from tblPerson Where Name Like '[Mj]%'
ID
      Name
            Email GenderId
                                Age
                                      City
3
      john
            john@s.com 1
                                45
                                      london
      manis maneesh@s.com 1
                                22
                                      lucknow
      marry marry@s.com 1
                                29
                                      london
Select * from tblPerson Where Name Like '[^Mj]%'
ID
      Name
            Email GenderId
                                Age
                                      City
            t@s.com
                                NULL
                                      NULL
      tom
      tom
            t@s.com
                                NULL
                                      NULL
      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 Gender	Ιd	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 Gender	Ιd	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 Gender	[d	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

```
2
       tom
              t@s.com
                            1
                                   NULL
                                          NULL
Select Top 50 PERCENT * from tblPerson
ΙD
      Name
              Email GenderId
                                   Age
                                          City
1
      tom
              t@s.com
                            1
                                   NULL
                                          NULL
2
              t@s.com
                                          NULL
      tom
                            1
                                   NULL
3
              john@s.com
       john
                            1
                                   45
                                          london
Select Top 2 * from tblPerson order By Age Desc
ID
      Name
              Email GenderId
                                   Age
                                          City
5
       tom
              tom@s.com
                                   56
                                          newyork
                                          london
3
       john
              john@s.com
                            1
                                   45
```

NULL

NULL

1

### **Group By Command**

Select \* from tblPerson

1

tom

t@s.com

```
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)
```

Ι	D	Name	Email Gender	Id	Age	City	Salary	
1		john	john@s.com	1	45	london	45000	
2		raju	maneesh@s.com	1	22	luckno	N	56000
3		john	john@s.com	1	45	london	70000	
4		manis	maneesh@s.com	1	22	luckno	N	40000
5		tom	tom@s.com	1	56	newyor	k	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