

Part 43 –DML Triggers

Venkat
PRAGIM Technologies
kudvenkat@gmail.com
<http://csharp-video-tutorials.blogspot.com>

PRAGIM Technologies | www.pragimtech.com | 9900113931

In this session we will learn

- Different types of triggers

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Triggers

In SQL server there are 3 types of triggers

1. DML triggers
2. DDL triggers
3. Logon trigger

DML triggers are fired automatically in response to DML events (**INSERT, UPDATE & DELETE**)

DML triggers can be again classified into 2 types

1. After triggers (Sometimes called as FOR triggers)
2. Instead of triggers

After triggers, fires after the triggering action. The INSERT, UPDATE, and DELETE statements, causes an after trigger to fire after the respective statements complete execution.

INSTEAD of triggers, fires instead of the triggering action. The INSERT, UPDATE, and DELETE statements, causes an INSTEAD OF trigger to fire INSTEAD OF the respective statement execution.

After Triggers

Id	Name	Salary	Gender	DepartmentId
1	John	5000	Male	3
2	Mike	3400	Male	2
3	Pam	6000	Female	1
4	Todd	4800	Male	4
5	Sara	3200	Female	1
6	Ben	4800	Male	3

Id	AuditData
1	New employee with Id = 8 is added at Sep 17 2012 8:04PM
2	An existing employee with Id = 8 is deleted at Sep 17 2012 8:29PM
3	An existing employee with Id = 1 is deleted at Sep 17 2012 8:31PM
4	An existing employee with Id = 3 is deleted at Sep 17 2012 8:31PM
5	An existing employee with Id = 4 is deleted at Sep 17 2012 8:31PM

```
CREATE TRIGGER tr_tblEmployee_ForInsert
ON tblEmployee
FOR INSERT
AS
BEGIN
    Declare @Id int
    Select @Id = Id from inserted

    insert into tblEmployeeAudit
    values ('New employee with Id = ' +
           Cast(@Id as nvarchar(5)) +
           ' is added at ' +
           cast(Getdate() as nvarchar(20))
           )
END
```

↑

```
Insert into tblEmployee values
(8, 'Ben', 4800, 'Male', 3)
```

```
CREATE TRIGGER tr_tblEmployee_ForDelete
ON tblEmployee
FOR DELETE
AS
BEGIN
    Declare @Id int
    Select @Id = Id from deleted

    insert into tblEmployeeAudit
    values ('An existing employee with Id = ' +
           Cast(@Id as nvarchar(5)) +
           ' is deleted at ' +
           cast(Getdate() as nvarchar(20))
           )
END
```

↑

```
Delete from tblEmployee where Id = 3
```

Additional Resources

- PRAGIM Home Page:

- www.PragimTech.com

- Resources:

- ASP.NET Interview Questions
- www.VenkatASPInterview.Blogspot.com
- C# Interview Questions
- www.VenkatCSharpInterview.Blogspot.com
- SQL Server Interview Questions
- www.venkatsqlinterview.Blogspot.com