

## Part 47 – Instead Of Delete Trigger

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# In this session we will learn

- Instead of DELETE trigger

## Prerequisite:

Part 45 - Instead of Insert Trigger

Part 46 - Instead of Update Trigger

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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.  
(INSERT, UPDATE, and DELETE)**

**INSTEAD of triggers, fires instead of the triggering action.  
(INSERT, UPDATE, and DELETE)**

# Instead of Delete Trigger

| DeptId | DeptName |
|--------|----------|
| 1      | IT       |
| 2      | Payroll  |
| 3      | HR       |
| 4      | Admin    |

| Id | Name | Gender | DepartmentId |
|----|------|--------|--------------|
| 1  | John | Male   | 3            |
| 2  | Mike | Male   | 2            |
| 3  | Pam  | Female | 1            |
| 4  | Todd | Male   | 4            |
| 5  | Sara | Female | 1            |
| 6  | Ben  | Male   | 3            |

| Id | Name | Gender | DeptName |
|----|------|--------|----------|
| 1  | John | Male   | HR       |
| 2  | Mike | Male   | Payroll  |
| 3  | Pam  | Female | IT       |
| 4  | Todd | Male   | Admin    |
| 5  | Sara | Female | IT       |
| 6  | Ben  | Male   | HR       |

```
Delete from vWEmployeeDetails where Id = 1
```

View or function 'vWEmployeeDetails' is not updatable  
because the modification affects multiple base tables.

# Instead of Delete Trigger

```
Create Trigger tr_vWEmployeeDetails_InsteadOfDelete
on vWEmployeeDetails
instead of delete
as
Begin
    Delete tblEmployee
    from tblEmployee
    join deleted
    on tblEmployee.Id = deleted.Id

    --Subquery
    --Delete from tblEmployee
    --where Id in (Select Id from deleted)
End
```

| Trigger           | INSERTED or DELETED?  |
|-------------------|---|
| Instead of Insert | DELETED table is always empty and the INSERTED table contains the newly inserted data.              |
| Instead of Delete | INSERTED table is always empty and the DELETED table contains the rows deleted                      |
| Instead of Update | DELETED table contains OLD data (before update), and inserted table contains NEW data(Updated data) |

**Note:** In most cases **JOINS** are faster than **SUB-QUERIES**. However, in cases, where you only need a subset of records from a table that you are joining with, sub-queries can be faster.

# Additional Resources

- PRAGIM Home Page:

- [www.PragimTech.com](http://www.PragimTech.com)

- Resources:

- ASP.NET Interview Questions
- [www.VenkatASPInterview.Blogspot.com](http://www.VenkatASPInterview.Blogspot.com)
- C# Interview Questions
- [www.VenkatCSharpInterview.Blogspot.com](http://www.VenkatCSharpInterview.Blogspot.com)
- SQL Server Interview Questions
- [www.venkatsqlinterview.Blogspot.com](http://www.venkatsqlinterview.Blogspot.com)