

Part 45 – Instead Of Insert Trigger

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In this session we will learn

- Instead of Insert trigger

Prerequisite:

Part 43 – DML Triggers (After Insert & Delete)

Part 44 – DML Triggers (After Update)

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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 Insert Trigger

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

DeptId	DeptName
1	IT
2	Payroll
3	HR
4	Admin



The diagram shows two lines from the top tables converging into a single arrow pointing down to the view table below.

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

```
Insert into vWEmployeeDetails values (7, 'Valarie', 'Female', 'IT')
```

Msg 4405, Level 16, State 1, Line 1

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

Instead of Insert Trigger

```
Create trigger tr_vWEmployeeDetails_InsteadOfInsert
on vWEmployeeDetails
Instead Of Insert
as
Begin
    Declare @DeptId int

    Select @DeptId = DeptId
    from tblDepartment
    join inserted
    on inserted.DeptName = tblDepartment.DeptName

    if(@DeptId is null)
    Begin
        Raiserror('Invalid Department Name.', 16, 1)
        return
    End

    Insert into tblEmployee(Id, Name, Gender, DepartmentId)
    Select Id, Name, Gender, @DeptId
    from inserted
End
```

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