

Part 40 – Updateable Views

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

PRAGIM Technologies | www.pragimtech.com | 9900113931

In this session we will learn

- Updateable views

Prerequisite:

Part 39 - Views

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Updateable Views

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



```
Create view vWEmployeesDataExceptSalary
as
Select Id, Name, Gender, DepartmentId
from tblEmployee
```



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

Is it possible to INSERT, UPDATE & DELETE
From the base table tblEmployee thru the
View?

```
Select * from vWEmployeesDataExceptSalary
```

```
Update vWEmployeesDataExceptSalary ?
```

```
Insert into vWEmployeesDataExceptSalary ?
```

```
Delete from vWEmployeesDataExceptSalary ?
```

Updateable Views

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

DeptId	DeptName
1	IT
2	Payroll
3	HR
4	Admin

↓ ↓


```
Create view vwEmployeeDetailsByDepartment
as
Select Id, Name, Salary, Gender, DeptName
from tblEmployee
join tblDepartment
on tblEmployee.DepartmentId = tblDepartment.DeptId
```

↓

Id	Name	Salary	Gender	DeptName
1	John	5000	Male	HR
2	Mikey	NULL	Male	Payroll
3	Pam	6000	Female	IT
4	Todd	4800	Male	Admin
5	Sara	3200	Female	IT
6	Ben	4800	Male	HR

Updateable Views

```
Update vwEmployeeDetailsByDepartment  
set DeptName='IT' where Name = 'John'
```



Id	Name	Salary	Gender	DeptName
1	John	5000	Male	IT
2	Mikey	NULL	Male	Payroll
3	Pam	6000	Female	IT
4	Todd	4800	Male	Admin
5	Sara	3200	Female	IT
6	Ben	4800	Male	IT

DeptId	DeptName	Id	Name	Salary	Gender	DepartmentId
1	IT	1	John	5000	Male	3
2	Payroll	2	Mikey	NULL	Male	2
3	IT	3	Pam	6000	Female	1
4	Admin	4	Todd	4800	Male	4
		5	Sara	3200	Female	1
		6	Ben	4800	Male	3

Conclusion - If a view is based on multiple tables, and if you update the view, it may not update the underlying base tables correctly. To correctly update a view, that is based on multiple table, **INSTEAD OF** triggers are used.

We will discuss about triggers and correctly updating a view that is based on multiple tables, in a later video session.

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