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SQL Server Tutorial

Part 142 - Dynamic SQL in Stored Procedure

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In this session we will learn

 Using Dynamic SQL in a stored procedure and it's implications from SQL Injection perspective

Link to Dot Net Basics, ASP.NET, C#, ADO.NET and SQL Server video series http://www.youtube.com/user/kudvenkat/playlists

Suggested Videos

Part 139 - Implement search web page using ASP.NET and Stored Procedure Part 140 - Implement search web page using ASP.NET and Dynamic SQL Part 141 - Prevent sql injection with dynamic sql

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Dynamic SQL in Stored Procedure

If you are in need of the DVD with all the videos and PPT's, please visit http://pragimtech.com/order.aspx

Whether you are creating Dynamic SQL in a client application (like a web application) or in a stored procedure always use parameters instead of concatenating strings. Using parameters to create dynamic SQL statements prevents SQL injection

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Dynamic SQL in Stored Procedure

```
-- Stored procedure with Dynamic SQL that is prone to SQL Injection
Create Procedure spSearchEmployeesBadDynamicSQL
@FirstName nvarchar(100) = NULL,
@LastName nvarchar(100) = NULL,
@Gender nvarchar(50) = NULL,
@Salary int = NULL
As
Begin
   Declare @sql nvarchar(max)
   Set @sql = 'Select * from Employees where 1 = 1'
   if(@FirstName is not null)
        Set @sql = @sql + ' and FirstName=''' + @FirstName + ''''
   if(@LastName is not null)
        Set @sql = @sql + ' and LastName=''' + @LastName + ''''
   if(@Gender is not null)
        Set @sql = @sql + ' and Gender=''' + @Gender + ''''
   if(@Salary is not null)
        Set @sql = @sql + ' and Salary=''' + @Salary + ''''
    Execute sp executesql @sql
End
Go
```

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Additional Resources

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Resources:

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Code samples and text version of all the videos on my blog http://www.csharp-video-tutorials.blogspot.com

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Dynamic SQL in Stored Procedure

```
-- Stored procedure with Dynamic SQL that prevents SQL Injection
Create Procedure spSearchEmployeesGoodDynamicSQL
@FirstName nvarchar(100) = NULL,
@LastName nvarchar(100) = NULL,
@Gender nvarchar(50) = NULL,
@Salary int = NULL
As
Begin
   Declare @sql nvarchar(max)
   Declare @sqlParams nvarchar(max)
    Set @sql = 'Select * from Employees where 1 = 1'
    if(@FirstName is not null)
        Set @sql = @sql + ' and FirstName=@FN'
    if(@LastName is not null)
        Set @sql = @sql + ' and LastName=@LN'
    if(@Gender is not null)
        Set @sql = @sql + ' and Gender=@Gen'
    if(@Salary is not null)
       Set @sql = @sql + ' and Salary=@Sal'
    Execute sp executesql @sql,
   N'@FN nvarchar(50), @LN nvarchar(50), @Gen nvarchar(50), @sal int',
   @FN=@FirstName, @LN=@LastName, @Gen=@Gender, @Sal=@Salary
End
Go
```