

SQL Server Tutorial

Part 149 - Temp Tables in Dynamic SQL

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In this session we will learn

- Implications of creating temp tables in Dynamic SQL

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 146 - Quotename function in SQL Server

Part 147 - Dynamic SQL vs Stored Procedure

Part 148 - Dynamic SQL Output Parameter

Temp Tables in Dynamic SQL

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

```
Create procedure spTempTableInDynamicSQL
as
Begin
    Declare @sql nvarchar(max)
    Set @sql = 'Create Table #Test(Id int)
               insert into #Test values (101)
               Select * from #Test'
    Execute sp_executesql @sql
End
```

➤ **Creating, Inserting & Selecting from Temp Table** all happens in the dynamic SQL code block, so we are able to access the temp table without any issue

Temp Tables in Dynamic SQL

```
Alter procedure spTempTableInDynamicSQL
as
Begin
    Declare @sql nvarchar(max)
    Set @sql = 'Create Table #Test(Id int)
               insert into #Test values (101)'
    Execute sp_executesql @sql
    Select * from #Test
End
```

- **Creating and Inserting into Temp Table happen in the dynamic SQL code block, but selecting data is outside of the dynamic sql code block, so we get the error - Invalid object name '#Test'**
- **This proves the point temp tables created by dynamic SQL are not accessible from the calling procedure. They are dropped when the dynamic SQL block in the stored procedure completes execution**

Temp Tables in Dynamic SQL

```
Alter procedure spTempTableInDynamicSQL
as
Begin
    Create Table #Test(Id int)
    insert into #Test values (101)
    Declare @sql nvarchar(max)
    Set @sql = 'Select * from #Test'
    Execute sp_executesql @sql
End
```

- The calling procedure is Creating and Inserting into Temp Table, and the dynamic sql block is selecting data
- So in this case we are able to access temp table, which proves that that dynamic SQL block can access temp tables created by the calling stored procedure

Temp Tables in Dynamic SQL

Summary

- Temp tables created by dynamic SQL are not accessible from the calling procedure
- They are dropped when the dynamic SQL block in the stored procedure completes execution
- On the other hand, dynamic SQL block can access temp tables created by the calling stored procedure

Additional Resources

PRAGIM Home Page:

www.PragimTech.com

Resources:

C#, ADO.NET, ASP.NET, SQL Server & MVC youtube Playlists

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