

SQL Server Tutorial

Part 138 - Dynamic SQL in SQL Server

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In this session we will learn

- What is Dynamic SQL
- Simple example of using 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 135 - Difference between sequence and identity in SQL Server

Part 136 - Guid in SQL Server

Part 137 - How to check guid is null or empty in SQL Server

Dynamic SQL in SQL Server

If you are in need of the DVD with all the videos and PPT's, please visit

<http://pragimtech.com/order.aspx>

What is Dynamic SQL

Dynamic SQL is a SQL built from strings at runtime

Employee Search Form

| | |
|--|----------------------|
| First Name | <input type="text"/> |
| Last Name | <input type="text"/> |
| Gender | <input type="text"/> |
| Salary | <input type="text"/> |
| <input type="button" value="Search"/> <input type="button" value="Clear"/> | |

```
Create Procedure spSearchEmployees
@FirstName nvarchar(100),
@LastName nvarchar(100),
@Gender nvarchar(50),
@Salary int
As
Begin

Select * from Employees where
(FirstName = @FirstName OR @FirstName IS NULL) AND
(LastName = @LastName OR @LastName IS NULL) AND
(Gender = @Gender OR @Gender IS NULL) AND
(Salary = @Salary OR @Salary IS NULL)

End
```

Dynamic SQL in SQL Server

```
Declare @sql nvarchar(1000)
Declare @params nvarchar(1000)

Set @sql = 'Select * from Employees where FirstName=@FirstName and LastName=@LastName'
Set @params = '@FirstName nvarchar(100), @LastName nvarchar(100)'

Execute sp_executesql @sql, @params, @FirstName='Ben',@LastName='Hoskins'
```

To execute the **Dynamic SQL** use system stored procedure **sp_executesql**. It takes two pre-defined parameters and any number of user-defined parameters

| Parameter | Description |
|------------|--|
| @statement | The is the first parameter which is mandatory, and contains the SQL statements to execute |
| @params | This is the second parameter and is optional. This is used to declare parameters specified in @statement |

The rest of the parameters are the parameters that you declared in @params, and you pass them the same way as you pass parameters to a stored procedure

Additional Resources

PRAGIM Home Page:

www.PragimTech.com

Resources:

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

<http://www.youtube.com/user/kudvenkat/playlists>

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