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## **SQL Server Tutorial**

## Part 95 - Audit table changes

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## In this session we will learn

How to audit table changes in SQL Server using a DDL trigger

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 92 - DDL Triggers in SQL Server Part 93 - Server-scoped DDL triggers Part 94 - SQL Server DDL trigger execution order

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## **Audit Table Changes in SQL Server**

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

DatabaseName	TableName	EventType	LoginName	SQLCommand	AuditDateTime
SampleDB	MyTable	CREATE_TABLE	VENKAT-PC\Tan	Create Table MyTa	2015-09-11 16:02:24.240
SampleDB	MyTable	DROP_TABLE	VENKAT-PC\Tan	Drop Table MyTabl	2015-09-11 16:02:57.430
SampleDB	MyTable	CREATE_TABLE	VENKAT-PC\Tan	Create Table MyTa	2015-09-11 16:06:07.037
SampleDB	MyTable	ALTER_TABLE	VENKAT-PC\Tan	Alter Table MyTabl	2015-09-11 16:06:11.610

#### EventData() function returns event data in XML format

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## **Audit Table Changes in SQL Server**

```
CREATE TRIGGER tr AuditTableChanges
ON ALL SERVER
FOR CREATE TABLE, ALTER TABLE, DROP TABLE
AS
BEGIN
    DECLARE @EventData XML
    SELECT @EventData = EVENTDATA()
    INSERT INTO SampleDB.dbo.TableChanges
    (DatabaseName, TableName, EventType, LoginName, SQLCommand, AuditDateTime)
    VALUES
        @EventData.value('(/EVENT INSTANCE/DatabaseName)[1]', 'varchar(250)'),
        @EventData.value('(/EVENT INSTANCE/ObjectName)[1]', 'varchar(250)'),
        @EventData.value('(/EVENT_INSTANCE/EventType)[1]', 'nvarchar(250)'),
        @EventData.value('(/EVENT INSTANCE/LoginName)[1]', 'varchar(250)'),
        @EventData.value('(/EVENT INSTANCE/TSQLCommand)[1]', 'nvarchar(2500)'),
        GetDate()
END
```

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# **Additional Resources**

## **PRAGIM Home Page:**

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### Resources:

C#, ADO.NET, ASP.NET, SQL Server & MVC youtube Playlists http://www.youtube.com/user/kudvenkat/playlists

Code samples and text version of all the videos on my blog <a href="http://www.csharp-video-tutorials.blogspot.com">http://www.csharp-video-tutorials.blogspot.com</a>

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