

# Create Tables & Triggers

Sunday, May 28, 2017 2:52 PM

```
CreateDmlTriggers.s...ls (LABS\de\lp (55))* X
USE Schools;
GO

Set NOCOUNT ON; --Reduces Messages sent back by SQL Server
GO

Create Table CourseQuestion
( ID int Identity(1,1) Primary Key,
  Course nvarchar(150),
  Question nvarchar(100),
  Answer nvarchar(100) )
GO

Create Table CourseQuestionAnswered
( ID int Identity(1,1) Primary Key,
  Course nvarchar(150),
  Question nvarchar(100),
  Answer nvarchar(100) )
GO
```

```
Set NOCOUNT ON; --Reduces Messages sent back by SQL Server
GO
```

```
= Create Trigger trgAfterUpdate On CourseQuestion
```

```
After UPDATE AS
```

```
= Begin
```

```
    Declare @Course nvarchar(50)
```

```
    Set @Course = 'Updated Record / After Update Trigger - '
```

```
= Insert Into
```

```
    CourseQuestionAnswered (Course,Question, Answer)
```

```
    Select
```

```
        @Course + i.Course, i.Question, i.Answer
```

```
    From
```

```
        inserted i
```

```
End
```

```
GO
```

```
= Create Trigger trgAfterDelete On CourseQuestion
```

```
After Delete AS
```

```
= begin
```

```
    Declare @Course nvarchar(50)
```

```
    Set @Course = 'Deleted Record / After Delete Trigger - '
```

```
= Insert Into
```

```
    CourseQuestionAnswered (Course,Question, Answer)
```

```
    Select
```

```
        @Course + d.Course, d.Question, d.Answer
```

```
    From
```

```
        deleted d
```

```
End
```

```
GO
```

## Execute Triggers

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01-CreateDmlTrigge...s (LABS\delip (53)) 02-ExecuteDmlTrigg...s (LABS\delip (55))\* X

```
1 USE Schools;
2 GO
3 --Step One
4 -----
5 Insert CourseQuestion (Course,Question, Answer) Values ('SQL', 'Q11', 'A11')
6 Insert CourseQuestion (Course,Question, Answer) Values ('SQL', 'Q12', 'A12')
7 Insert CourseQuestion (Course,Question, Answer) Values ('C#', 'Q21', 'A21')
8 Insert CourseQuestion (Course,Question, Answer) Values ('C#', 'Q22', 'A22')
9
10 --Step Two
11 Update CourseQuestion SET Answer='Updated Answers A11' From CourseQuestion WHERE (Course = 'SQL') AND (Question = 'Q11')
12 Update CourseQuestion SET Answer='Updated Answers A12' From CourseQuestion WHERE (Course = 'SQL') AND (Question = 'Q12')
13 Update CourseQuestion SET Answer='Updated Answers A21' From CourseQuestion WHERE (Course = 'C#') AND (Question = 'Q21')
14 Update CourseQuestion SET Answer='Updated Answers A22' From CourseQuestion WHERE (Course = 'C#') AND (Question = 'Q22')
15
16 --Step Three
17 Select * From CourseQuestionAnswered
18
19 --Step Four
20 Delete From CourseQuestion;
21
22 --Step Five
23 Select * From CourseQuestionAnswered
24
```



102 %


Results Messages

	ID	Course	Question	Answer
1	1	Updated Record / After Update Trigger - SQL	Q11	Updated Answers A11
2	2	Updated Record / After Update Trigger - SQL	Q12	Updated Answers A12
3	3	Updated Record / After Update Trigger - C#	Q21	Updated Answers A21
4	4	Updated Record / After Update Trigger - C#	Q22	Updated Answers A22
5	5	Deleted Record / After Delete Trigger - C#	Q22	Updated Answers A22
6	6	Deleted Record / After Delete Trigger - C#	Q21	Updated Answers A21
7	7	Deleted Record / After Delete Trigger - SQL	Q12	Updated Answers A12
8	8	Deleted Record / After Delete Trigger - SQL	Q11	Updated Answers A11

# Check Results

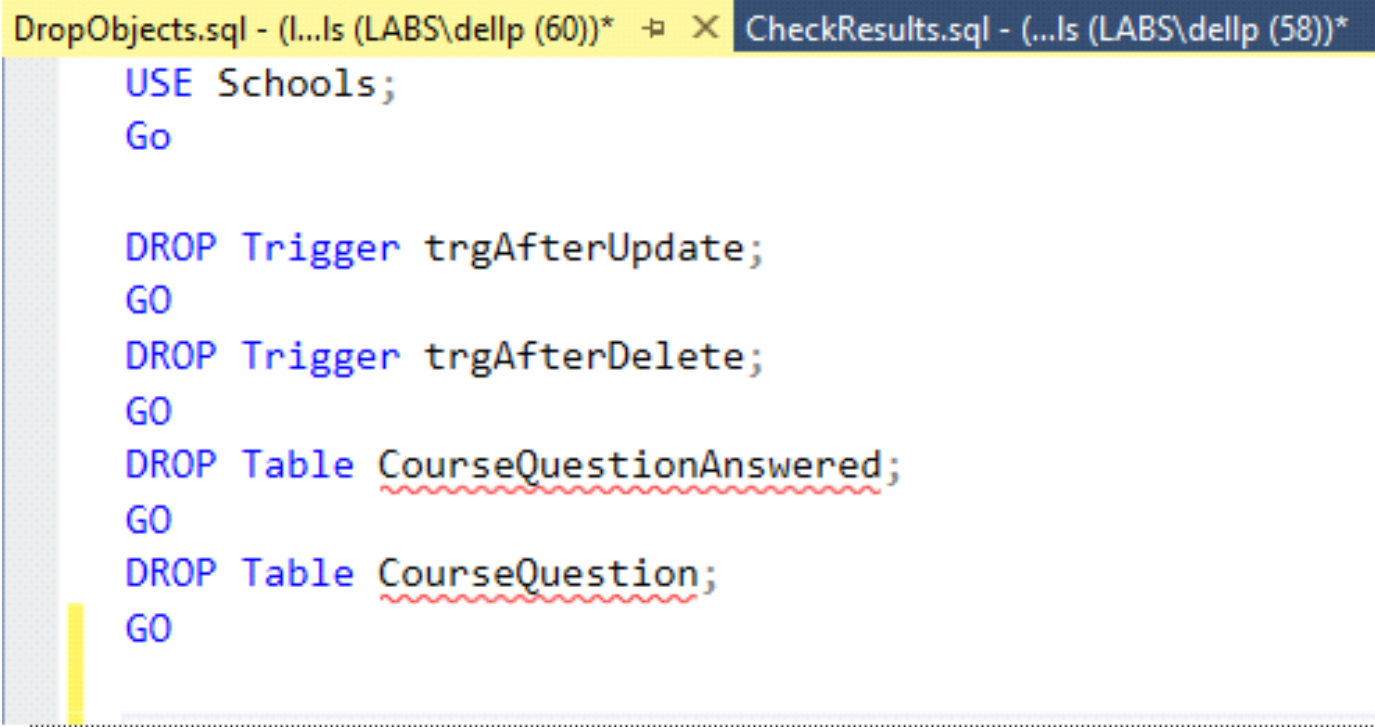
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CheckResults.sql - (...ls (LABS\de1lp (58))) ExecuteDmlTriggers....s (LABS\de1lp (56))

```
USE Schools;  
GO  
  
 Select * From CourseQuestion;  
Select * From CourseQuestionAnswered;
```

# Drop Objects

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```
DropObjects.sql - (...ls (LABS\de1lp (60)))* X CheckResults.sql - (...ls (LABS\de1lp (58)))*  
  
USE Schools;  
Go  
  
DROP Trigger trgAfterUpdate;  
GO  
DROP Trigger trgAfterDelete;  
GO  
DROP Table CourseQuestionAnswered;  
GO  
DROP Table CourseQuestion;  
GO
```

# Instead and Recursive Triggers

Tuesday, December 5, 2017 9:34 PM

## Instead Of Triggers

[https://technet.microsoft.com/en-us/library/ms175521\(v=sql.105\).aspx](https://technet.microsoft.com/en-us/library/ms175521(v=sql.105).aspx)

## Recursive Triggers

<https://docs.microsoft.com/en-us/sql/relational-databases/triggers/create-nested-triggers>