

# T-SQL Triggers

[www.tsq.info](http://www.tsq.info)

In this chapter you can learn how to work with triggers using operations like create, alter, rename, drop, enable, disable.

## Trigger operations

- Create Trigger
- Alter Trigger
- Rename Trigger
- Drop Trigger
- Enable Trigger
- Disable Trigger

## Create Trigger

### Create Trigger Syntax

#### DML Trigger

```
CREATE TRIGGER trig_name
ON { table_name | view_name }
{ FOR | AFTER | INSTEAD OF }
{ [ INSERT ] [ , ] [ UPDATE ] [ , ] [ DELETE ] }
AS { sql_statement [ ; ] }
GO
```

#### DDL Trigger

```
CREATE TRIGGER trig_name
ON { ALL SERVER | DATABASE }
{ FOR | AFTER }
{ CREATE, ALTER, DROP, GRANT, DENY, REVOKE, UPDATE STATISTICS }
AS { sql_statement [ ; ] }
GO
```

## Logon Trigger

```
CREATE TRIGGER trig_name
ON ALL SERVER
{ FOR|AFTER }
LOGON
AS { sql_statement [ ; ] }
GO
```

# Alter Trigger

## Alter Trigger Syntax

### DML Trigger

```
ALTER TRIGGER trig_name
ON { table_name | view_name }
{ FOR | AFTER | INSTEAD OF }
{ [ INSERT ] [ , ] [ UPDATE ] [ , ] [ DELETE ] }
AS { sql_statement [ ; ] }
GO
```

### DDL Trigger

```
ALTER TRIGGER trig_name
ON { ALL SERVER | DATABASE }
{ FOR | AFTER }
{ CREATE, ALTER, DROP, GRANT, DENY, REVOKE, UPDATE STATISTICS }
AS { sql_statement [ ; ] }
GO
```

### Logon Trigger

```
ALTER TRIGGER trig_name
ON ALL SERVER
{ FOR|AFTER }
LOGON
AS { sql_statement [ ; ] }
GO
```

# Rename Trigger

## Rename Trigger Syntax

```
sp_rename 'Old_Trigger_Name', 'New_Trigger_Name';
```

## Rename Trigger Example

```
CREATE TRIGGER Customers_Op  
ON Customers  
AFTER UPDATE  
AS  
UPDATE Customers  
SET address = UPPER('ADDRESS_5')  
WHERE customer_id = 5  
GO
```

```
sp_rename 'Customers_Op', 'NewCustomers_Op';
```

# Drop Trigger

## Drop Trigger Syntax

```
DROP TRIGGER trigger_name;
```

## Drop Trigger Example

```
CREATE TRIGGER Customers_Op  
ON Customers  
AFTER UPDATE  
AS  
UPDATE Customers  
SET address = UPPER('ADDRESS_5')  
WHERE customer_id = 5
```

GO

```
DROP TRIGGER Customers_Op;
```

## Enable Trigger

### Enable Trigger Syntax

```
ENABLE TRIGGER { [ schema_name . ] trigger_name [ ,...n_trigger_name ] | ALL }  
ON { table_name | DATABASE | ALL SERVER } [ ; ]
```

#### Enable Trigger Example 1

```
ALTER TABLE Customers ENABLE TRIGGER ALL;
```

#### Enable Trigger Example 2

```
ENABLE Trigger master.Customers_Op ON master.Customers ;
```

## Disable Trigger

### Disable Trigger Syntax

```
ALTER TABLE table_name DISABLE TRIGGER ALL;  
DISABLE Trigger master.trigger_name ON master.table_name ;  
DISABLE Trigger ALL ON ALL SERVER;
```

#### Disable Trigger Example

```
ALTER TABLE Customers DISABLE TRIGGER ALL;  
DISABLE Trigger system.Customers_Op ON system.Customers ;  
DISABLE Trigger ALL ON ALL SERVER;
```

### Resources:

[www.tsql.info/triggers/triggers.php](http://www.tsql.info/triggers/triggers.php)