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How to disable all triggers and constraints?

Execute the following Microsoft T-SQL example scripts in Management Studio Query Editor to demonstrate the following:

1. Disable all triggers and constraints in the CopyOfAdventureWorks database.
Warning: data captured is not validated anymore. Prior to turning them back on (enable), data has to be verified. Forgetting to turn on disabled/dropped constraints/triggers is a frequent production problem because constraint & triggers "don't complain" when turned off/dropped as opposed to functions and stored procedures.
2. Check if a Foreign Key constraint enabled or disabled.
3. Create a trigger for insert, update & delete.
4. Create a check constraint for a table and enable it.

```

-----
-- Disable all triggers and constraints in a database
-----
-- Disable trigger stored procedure - disable constraint stored procedure

USE CopyOfAdventureWorks;

-- SQL disable all triggers - disable all triggers sql server - t sql disable trigger
EXEC sp_MSforeachtable @command1="ALTER TABLE ? DISABLE TRIGGER ALL"
GO

-- SQL disable all constraints - disable all constraints sql server
EXEC sp_MSforeachtable @command1="ALTER TABLE ? NOCHECK CONSTRAINT ALL"
GO

-- How to check if a trigger is disabled
USE AdventureWorks2008;
SELECT * FROM sys.triggers WHERE name='uSalesOrderHeader'
/* name      object_id  parent_class  parent_class_desc  parent_id  type
type_desc    create_date  modify_date  is_ms_shipped      is_disabled
is_not_for_replication  is_instead_of_trigger
uSalesOrderHeader  1579152671  1          OBJECT_OR_COLUMN  1010102639  TR      SQL_TRIGGER  2010-
05-09 06:17:20.033  2010-05-09 06:17:20.033  0          0          1          0
*/

-- Enable all triggers on a table
ALTER TABLE Production.Product ENABLE TRIGGER ALL

-- Enable all check constraints on a table
ALTER TABLE Production.Product CHECK CONSTRAINT ALL
GO

-- SQL enable all triggers - enable all triggers sql server - t sql enable trigger
EXEC sp_MSforeachtable @command1="ALTER TABLE ? ENABLE TRIGGER ALL"
GO

-- SQL enable all constraints - enable all constraints sql server

```

```
-- sp_MSforeachtable is an undocumented system stored procedure
EXEC sp_MSforeachtable @command1="ALTER TABLE ? CHECK CONSTRAINT ALL"
GO
```

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```
-----
-- Single constraint disable and enable
-----
USE CopyOfAdventureWorks;
-- SQL disable constraint - alter table remove constraint
ALTER TABLE Production.Product NOCHECK CONSTRAINT CK_Product_DaysToManufacture
GO

-- SQL enable constraint
ALTER TABLE Production.Product CHECK CONSTRAINT CK_Product_DaysToManufacture
GO

-- SQL enable constraint with check of current data
ALTER TABLE Production.Product WITH CHECK
CHECK CONSTRAINT CK_Product_DaysToManufacture
GO

-- SQL enable constraint with no check of current data
ALTER TABLE Production.Product WITH NOCHECK
CHECK CONSTRAINT CK_Product_DaysToManufacture

-- Check integrity of all constraints on a table
DBCC CHECKCONSTRAINTS('Production.Product');
GO
/* DBCC execution completed. If DBCC printed error messages,
   contact your system administrator.
*/
-----

-----
-- Single trigger disable and enable
-----
-- SQL disable trigger - alter table disable trigger
ALTER TABLE Sales.SalesOrderHeader DISABLE TRIGGER uSalesOrderHeader
GO

-- SQL enable trigger
ALTER TABLE Sales.SalesOrderHeader ENABLE TRIGGER uSalesOrderHeader
GO
-----

-----
-- Check/test if a foreign key constraint is enabled or disabled
-----
CREATE TABLE Author (
    AuthorID INT IDENTITY(1,1) NOT NULL PRIMARY KEY,
    Name NVARCHAR(64) NOT NULL,
    ModifiedDate date default(getdate()) )

CREATE TABLE Book (
    BookID INT IDENTITY(1,1) NOT NULL PRIMARY KEY,
    AuthorID INT NOT NULL,

    CONSTRAINT fkBookAuthor FOREIGN KEY (AuthorID)
        REFERENCES Author (AuthorID) ON DELETE CASCADE,
    BookTitle NVARCHAR(128) NOT NULL,
    Price SMALLMONEY NOT NULL,
    ModifiedDate date default(getdate()) )
GO

-- Disable FK constraint
ALTER TABLE Book NOCHECK CONSTRAINT fkBookAuthor
-- Command(s) completed successfully.

-- Check if constraint disabled
EXEC sp_help Book
/* constraint_type      constraint_name  delete_action  update_action
status_enabled          status_for_replication  constraint_keys
FOREIGN KEY fkBookAuthor      Cascade      No Action      Disabled      Is_For_Replication
AuthorID
*/
```

```
-- Enable constraint
ALTER TABLE Book CHECK CONSTRAINT fkBookAuthor

-- How to check if a constraint is enabled
EXEC sp_helpconstraint 'Book'
/* constraint_type      constraint_name  delete_action  update_action
status_enabled          status_for_replication  constraint_keys
FOREIGN KEY fkBookAuthor      Cascade      No Action      Enabled      Is_For_Replication
AuthorID
*/
-----

-----
-- SQL Server 2008 T-SQL insert, update, delete trigger demo
-----
USE tempdb;
CREATE TABLE TriggerDemo (
    ID int identity(1,1) Primary Key,
    TextData varchar (64)
)
GO

IF OBJECT_ID ('dbo.PrintTrigger','TR') IS NOT NULL
    DROP TRIGGER Sales.reminder2;
GO
CREATE TRIGGER PrintTrigger
ON TriggerDemo
AFTER INSERT, UPDATE, DELETE
AS
BEGIN
    DECLARE @InsertedMessage varchar(max) = 'New: '+(SELECT TextData FROM inserted)
    DECLARE @DeletedMessage  varchar(max) = 'Old: '+(SELECT TextData FROM deleted)

    PRINT @InsertedMessage
    PRINT @DeletedMessage
END
GO
INSERT TriggerDemo (TextData) VALUES ('Enable trigger demo')
GO
-- In messages: New: Enable trigger demo

UPDATE TriggerDemo SET TextData = 'Disable trigger demo'
GO
/*
New: Disable trigger demo
Old: Enable trigger demo
*/
DELETE TriggerDemo
GO
-- Old: Disable trigger demo

DROP TABLE TriggerDemo
GO
-----

-----
-- Create a check constraint for a table and enable it
-----
-- SQL create check constraint
-- Range constraint - column value must be between 0 and 100
USE AdventureWorks;
ALTER TABLE [Production].[ProductInventory] WITH CHECK
ADD CONSTRAINT [CK_ProductInventory_Bin]
CHECK (([Bin]>=(0) AND [Bin]<=(100)))
GO

-- SQL enable check constraint
ALTER TABLE [Production].[ProductInventory]
CHECK CONSTRAINT [CK_ProductInventory_Bin]
-----
```

Related articles:

[How to: Disable constraints on a table](http://www.sqlusa.com/bestpractices2005/disabletriggerconstraint/)

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