



SQL Server® 2008

Be Friendly to SQL Server

TSQL Best Practices

Ben Miller

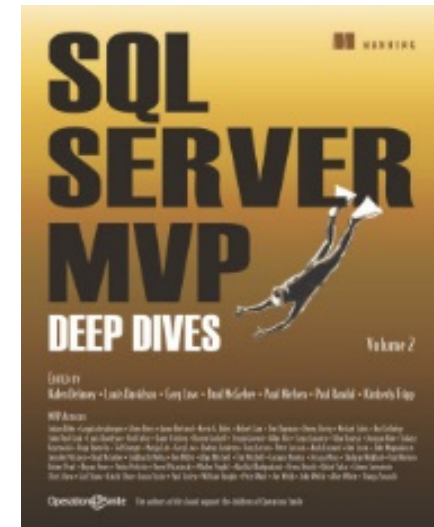
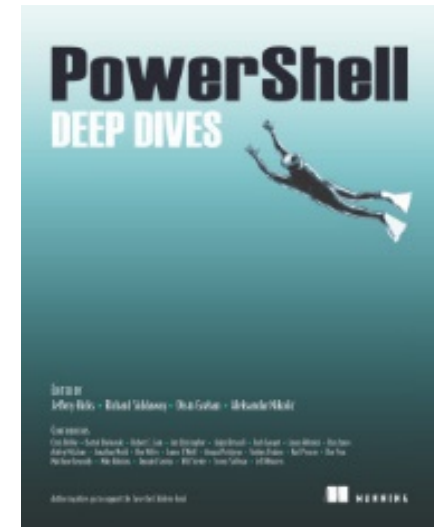
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About Me!

- Data Platform MVP (Since 2011)
- Certified Master SQL Server
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- SQL Server Chapter Leader in Utah County, Utah
- Independent Consultant
- PowerShell enthusiast
- @DBAduck
- [SQL PowerShell Stairway](#) on SQL Server Central
- Avid speaker at SQL Saturdays



Agenda

- Assignment Statements
- Schemas and Qualifying objects
- Case (In)sensitivity
- Query Plan Cache nuances
- Data Types are your friends
- IDENTITY / SEQUENCE
- Triggers

Assignment Statements

- SET vs. SELECT for assignments
 - SET is a single assignment statement
 - SELECT allows multiple assignments
- DECLARE @var int = 5 in 2008+
- UPDATE statement for SET
- Consistency helps maintenance costs later

Schemas and Qualifying Objects

- Schema qualify your objects in queries
- Default Schema – To Be or Not To Be?
- A cycle saved is a cycle earned
- Objects actually have a 4 part name
 - Server.Database.Schema.Object
 - Context is King!

Assignment and Schemas Demo

Demo

Case (In)sensitivity

- Collations
 - Default database collation
 - Specific collations for fields
- Server Sort Order
- Develop to be compatible with All
- Code to Definition

Query Plan Cache nuances

- Executed queries get cached
- Query Plan Cache is case sensitive
- Single Use Queries
- Optimize for adhoc workloads setting
 - `sp_configure 'optimize for adhoc workloads', 1`
- Hashing is used to identify queries and plans

DataTypes are your friends

- What is the big deal about data-types anyway?
- Lemon vs. Lime
- Isn't VARCHAR the same as NVARCHAR?
- Comparison (<, >, =) requires like data types
- Data Type Precedence
 - <http://technet.microsoft.com/en-us/library/ms190309.aspx>

IDENTITY - Sequence

- @@IDENTITY
- SCOPE_IDENTITY()
- NEXT VALUE FOR dbo.MySequence

Triggers, etc.

- Assumptions Made

- There is only 1 record in a trigger inserted and deleted tables
- Update Triggers can sometimes have records only in the inserted table
- Triggers fire even if no rows affected

FALSE FALSE

TRUE

- Refer to the Assignment Statements Best Practice
 - Handle multiple rows

Query Plan Cache, DataTypes and IDENTITY

Demo



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