



SQL Server® 2008

# Be Friendly to SQL Server

TSQL Best Practices

Ben Miller

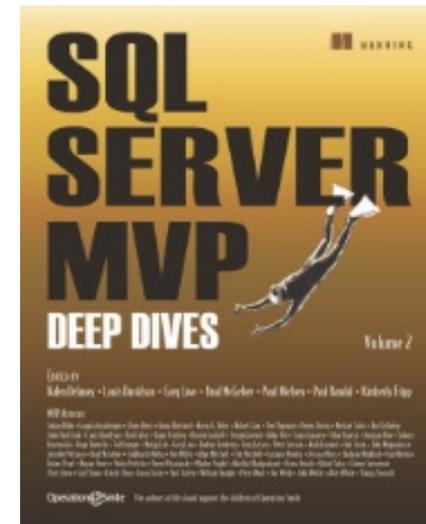
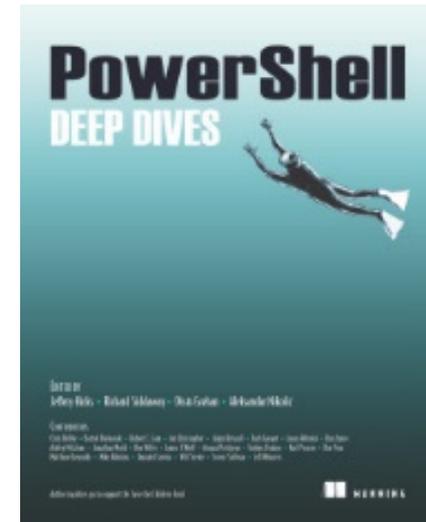
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# About Me!

- Data Platform MVP (Since 2011)
- Certified Master SQL Server
- Author – ben@benmiller.net
- 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

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

# Assignment Statements

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- 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

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- 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

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*Demo*



# Case (In)sensitivity

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

# Query Plan Cache nuances

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- 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

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- 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

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- @@IDENTITY
- SCOPE\_IDENTITY()
- NEXT VALUE FOR dbo.MySequence

# Triggers, etc.

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- 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

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*Demo*



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