



SQL Server® 2008

Be Friendly to SQL Server

TSQL Best Practices

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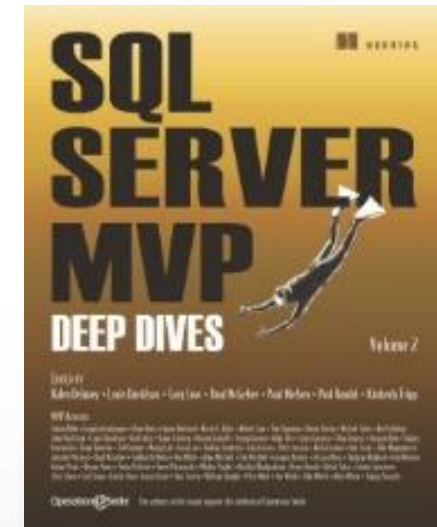
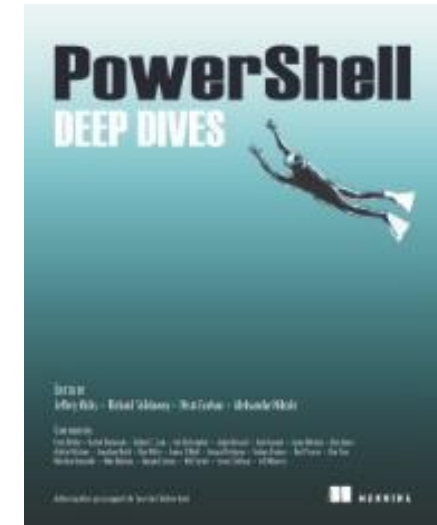
<http://dbaduck.com> / <http://powershelldbba.com>



SQL
intersection

About Me!

- Data Platform MVP (6 years and running)
- Certified Master SQL Server
- Author
- 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**

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 use minimum of 2**
 - `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>

Query Plan Cache and DataTypes

Demo

Identity - Sequence

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

IDENTITY and SEQUENCE

Demo

Features of SQL

- **FILESTREAM**
- **HierarchyID**
- **Use features that complement the engine used**

Overview

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

References

- Slides and Demos
- <http://dbaduck.com>



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