SQL Server 2017: Diagnosing Configuration Issues with DMVs

INTRODUCTION

Glenn Berry

PRINCIPAL CONSULTANT – SQLSKILLS.COM

@GlennAlanBerry   www.sqlskills.com/blogs/glenn

Module Overview

What are DMV configuration queries?

Benefits of DMV configuration queries

Course objectives and structure

DMV Configuration Queries

DMV queries added in SQL Server 2005

Improvements and additions in each new version of SQL Server

Most DMV/DMO queries are lightweight

VIEW SERVER STATE permission

Very easy to use and understand

Can detect many configuration issues

Diagnosing Configuration Issues

Most SQL Server instances have configuration issues

Hardware configuration

Storage configuration

Operating system configuration

Instance-level configuration

Database-level configuration

DMV queries are extremely useful!

Benefits of DMV Configuration Queries

Relatively quick and easy to use

Do not require any special preparation to run

Provide a lot of very useful configuration information

Help get you closer to the root cause of many problems

COURSE OBJECTIVE
Provide a thorough understanding of how to use
DMV configuration queries

Understand capabilities, benefits and limitations of DMV configuration queries

Understand how to check your hardware configuration

Understand how to check your storage configuration

Explain how to understand and modify configuration settings

Understand how to check your operating system configuration

Understand how to check your instance-level configuration

Understand how to check your database-level configuration

Explain how to implement best-practice configuration settings

Best-practice hardware and storage configuration

Best-practice operating system configuration

Best-practice instance and database configuration

Course Focus and Structure

Diagnosing Hardware and Storage Configuration Issues

Diagnosing Operating System Configuration Issues

Diagnosing Instance-level Configuration Issues

Diagnosing Database-level Configuration Issues

What We Covered

What are DMV configuration queries?

Benefits of DMV configuration queries

Course objectives and structure