

Azure SQL Database: Diagnosing Configuration and Performance Issues with DMVs

INTRODUCTION



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Module Overview



What are DMV queries?

Benefits of DMV queries

Course objectives and structure



DMV Queries

DMV/DMFs
added in
SQL Server 2005

Azure SQL
Database supports
a subset of
DMV/DMFs

Most DMV/DMO
queries are
lightweight

VIEW DATABASE
STATE permission

Very easy to use
and understand

Can detect many
issues



Diagnosing Configuration Issues

**Azure SQL Databases can
have configuration issues**

Database-level configuration

Storage configuration

**Logical instance-level
configuration**



Diagnosing Performance Issues

Azure SQL
Databases can also
have performance
issues

Logical
instance-level
issues

Database-level
issues

Activity-related
issues

Memory and
storage issues

CPU issues



DMV queries are extremely useful!



Benefits of DMV 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 diagnostic queries with Azure SQL Database

Understand capabilities, benefits, and limitations of DMV diagnostic queries

Understand how to check and correct your configuration

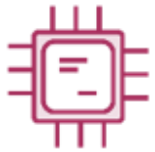
Understand how to check for and alleviate performance issues



Course Focus and Structure



Diagnosing configuration issues



Diagnosing CPU-related issues



Diagnosing activity-related issues



Diagnosing storage and memory-related issues



What We Covered



What are DMV queries?

Benefits of DMV queries

Course objectives and structure

