SQL Server: Analyzing Query Performance for Developers

INTRODUCTION

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Module Overview

Developer responsibilities

Why we need to understand query execution

Course objectives

Course structure

Primary Tasks of a Developer

Write code

Fix code

(write more code)

A developer's work doesn't end when the code is checked in!

T-SQL is declarative

We need to understand what decisions were made by SQL Server

- Every query has a query plan generated
- Every query has execution metrics

COURSE OBJECTIVE

Explain what information can be captured about a query and its execution from SQL Server.

Query execution metrics

Using performance metrics

Query text and plan

COURSE OBJECTIVE

Provide an understanding of where to find information about query execution and what it means

Methods to capture information about query execution and performance

Interpreting query metrics

COURSE OBJECTIVE

Step through an execution plan and the information it provides

How to read a query plan

How to find information in a plan

Discuss what's not important in a plan

COURSE OBJECTIVE

Understand the information included in a query plan

Examine the most frequently-seen operators in a query plan

Examine how changes to a plan can affect query performance

Demonstrate additional, valuable information found within query plans

Course Focus and Structure

Finding Information About Queries

Understanding Query Metrics

Reading Query Plans

Operators in a Query Plan

Important Information in a Plan

What We Covered

- Developer responsibilities
- Why we need to understand query execution
- Course objectives
- Course structure