SQL Server: Analyzing Query Performance for Developers

INTRODUCTION



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Module Overview



Developer responsibilities

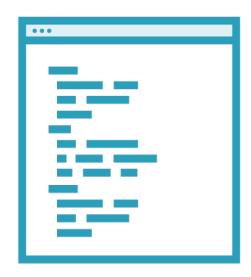
Why we need to understand query execution

Course objectives

Course structure



Primary Tasks of a Developer



Write code

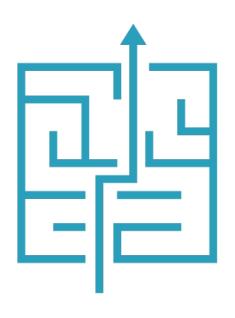


Fix code (write more code)



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



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



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



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



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



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