

SQLskills Immersion Event IE2: Performance Tuning

Module 13: Performance Issue Patterns Bonus Scenarios

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Bonus Scenario 0

- A developer is executing a “simple” query against a view
- The performance is not what the developer expects
- The developer would like you to look at the execution plan and see if there is anything that can be done to improve the performance



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Bonus Scenario 1

- DBA is seeing performance issues for a set of queries that follow a similar pattern
- The query pattern includes predicates that reference two or more columns from the same table
- For larger reference tables, the DBA sometimes sees Sort and Hash Join spills to disk
- The DBA wants to know why this is happening and how it can be fixed

Bonus Scenario 2

- A developer is seeing performance issues for a set of queries that follow a similar pattern
- The query pattern includes predicates that compare two columns from the same table
- The specific query is “simple” so the developer would like to understand why this is happening and how it can be fixed

Bonus Scenario 3

- A developer is using a new function introduced in SQL Server 2012
- The query pattern allows for a more flexible way to enforce predicates
- The query isn't performing well and the developer needs your help

Bonus Scenario 4

- A developer is seeing poor performance related to a workload and has looked at the query execution plan
- There are multiple statements, and the developer is having trouble figuring out how to improve the performance
- The developer needs your help to improve the performance of the overall workload

Bonus Scenario 5

- A developer is seeing poor performance related to a query that searches for people based on first and last name
- The developer found a cardinality estimate skew, but doesn't know how to fix it

Bonus Scenario 6

- A DBA created a filtered index on a table in order to benefit the performance of a specific mission-critical stored procedure
- The stored procedure doesn't seem to be performing any better than it was before, and the DBA wants to understand why and also have you find a solution

Bonus Scenario 7

- A report developer is producing an aggregated charge amount report that seems to be driving a high amount of I/O according to the DBA
- The report developer wants to understand why the report is driving high I/O – and also wants you to provide a solution if possible