

Query analysis - performance difference

Last updated by | Vitor Tomaz | Feb 24, 2023 at 3:32 AM PST

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Issue


You might have a case where the customer presents one of the following scenarios:

- the query runs better on one database when compared with another - same hardware characteristics
- a query runs better under a specific setting like compatibility level when compared with another - same hardware characteristics

Investigation/Analysis

When presented with this type of scenario we need to know what are the data access patterns used by the two queries and eventual differences between them.

Note: make sure that you are familiar with the concepts presented on the TSG [Execution Plans](#).

After collecting the execution plan for both queries, use the [compare execution plan feature on SSMS](#) .

This feature will help you highlight differences like:

- statistics differences.
- operators used for data retrieval
- operators used for JOIN operations
- etc

On the TSG [Execution plans](#) you have already listed some common operators and some examples on where one is preferred when compared with another.

Other points to look at:

- maxdop used
- compatibility level
- Memory grant

Mitigation

The solution is dependent of the scenario seen. Some common ones:

- use the right compatibility level.
- update statistics
- maxdop settings
- create an index that is missing

Internal reference

[336780554](#) 

How good have you found this content?

