



# 70-764<sup>Q&As</sup>

Administering a SQL Database Infrastructure

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### QUESTION 1

You administer a Microsoft SQL Server 2016 server.

You plan to deploy new features to an application.

You need to evaluate existing and potential clustered and non-clustered indexes that will improve performance.

What should you do?

- A. Query the sys.dm\_db\_index\_usage\_stats DMV.
- B. Query the sys.dm\_db\_missing\_index\_details DMV.
- C. Use the Database Engine Tuning Advisor.
- D. Query the sys.dm\_db\_missing\_index\_columns DMV.

Correct Answer: C

The Microsoft Database Engine Tuning Advisor (DTA) analyzes databases and makes recommendations that you can use to optimize query performance. You can use the Database Engine Tuning Advisor to select and create an optimal set of indexes, indexed views, or table partitions without having an expert understanding of the database structure or the internals of SQL Server. Using the DTA, you can perform the following tasks. Troubleshoot the performance of a specific problem query Tune a large set of queries across one or more databases Perform an exploratory what-if analysis of potential physical design changes Manage storage space References: <https://docs.microsoft.com/en-us/sql/relational-databases/performance/database-engine-tuning-advisor>

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### QUESTION 2

You maintain a database named DB1 that has a nonpartitioned table. You create an index in the table. Automatic statistic updates are disabled.

Uses report that some Microsoft SQL Server Reporting Service (SSRS) queries take long time to run. You determine that the issue is caused by stale statistics for Index1.

You need to update the statistics for the index.

What should you do?

- A. Set the value of the Database Read-Only property to True.
- B. Run the system stored procedure sp\_updatestats.
- C. Set the value of the Auto Create Incremental Statistics property to True.
- D. Run the UPDATE STATISTICS command with the COLUMNS option.

Correct Answer: D

UPDATE STATISTICS updates query optimization statistics on a table or indexed view.

The ALL | COLUMNS | INDEX options update all existing statistics, statistics created on one or more columns, or



statistics created for indexes. If none of the options are specified, the UPDATE STATISTICS statement updates all statistics on

the table or indexed view.

Note: You can update query optimization statistics on a table or indexed view in SQL Server by using SQL Server Management Studio or Transact-SQL. By default, the query optimizer already updates statistics as necessary to improve the

query plan; in some cases you can improve query performance by using UPDATE STATISTICS or the stored procedure sp\_updatestats to update statistics more frequently than the default updates.

References:

<https://docs.microsoft.com/en-us/sql/t-sql/statements/update-statistics-transact-sql?view=sql-server-2017>

### QUESTION 3

You have an application that queries a database.

Users report that the application is slower than expected.

You discover that several server process identifiers (SPIDs) have PAGELATCH\_UP and PAGELATCH\_EX waits. The resource descriptions of the SPIDs contains 2:1:1.

You need to resolve the issue.

What should you do?

- A. Reduce the number of table variables used in the application.
- B. Use identity integers as primary key fields in the tables.
- C. Reduce the fill factor of all the clustered indexes.
- D. Move the database files to SSD storage.

Correct Answer: D

Faster disks would reduce this problem.

### QUESTION 4

HOTSPOT

Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the next of this scenario is exactly the same in each question in this series. Start of repeated scenario

Contoso, Ltd. has Microsoft SQL Server databases that support a custom application. The current SQL Server environment consists of two servers: ContosoSQL1 and ContosoSQL2. These two servers participate in an Always On Availability



Group named ContosoAG1 that is configured to use synchronous-commit with automatic failover. The secondary replica is not configured for read-only access.

The application performs both transactional processing and historical data retrieval in a database named ContosoDB. The application includes an inventory management module. The inventory management module and database have experienced performance issues.

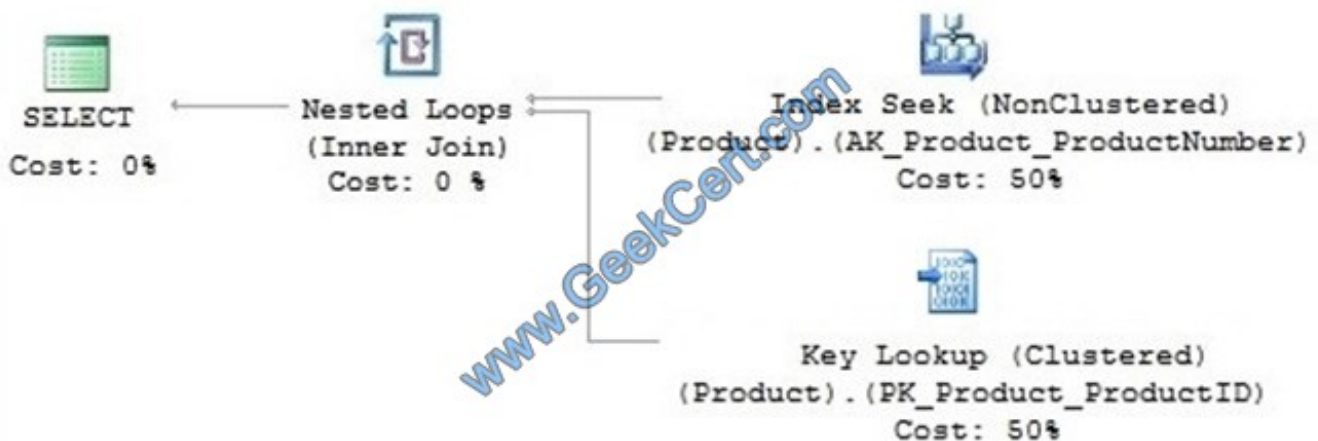
Users report that a query named InventoryQuery1 takes a long time to complete. The query is shown as follows:

```
SELECT ProductNumber, Name, ProductLine  
FROM Production.Product  
WHERE ProductNumber = N''\''
```

The query plan used by SQL Server for this query is shown in the exhibit. (Click the Exhibit tab.) Various performance issues, including frequent long-term blocking episodes, prevent business users from completing their daily tasks. You

suspect the tempdb database resources could be responsible. You must create Blocking reports for the ContosoDB database to identify issues.

Exhibit.



Hot Area:



## Answer Area

What operator in the query plan for InventoryQuery1 is making the plan inefficient?

SELECT
Nested-Loops
Key Lookup (Clustered)
Index Seek (NonClustered)

What change to the database should be implemented to improve this query's plan?

Create a covering index for this query.
Create new statistics on the Product.ProductNumber column.
Change the table's primary key to the Product.ProductNumber column.

Correct Answer:

## Answer Area

What operator in the query plan for InventoryQuery1 is making the plan inefficient?

SELECT
Nested-Loops
Key Lookup (Clustered)
Index Seek (NonClustered)

What change to the database should be implemented to improve this query's plan?

Create a covering index for this query.
Create new statistics on the Product.ProductNumber column.
Change the table's primary key to the Product.ProductNumber column.

Box 1: Key Lookup (clustered)

They Key Lookup (clustered) should be less than 50%.

Box 2: Change the table's primary key to the Product.ProductNumber column.

Incorrect: Non-Clustered Index Seek

Non-Clustered Index Seek occurs when Columns part of non-clustered index accessed in query and rows located in the B+ tree.

It is good and ideal to have a Non-Clustered Index Seek.

Action: Evaluate other operators

References:

<https://www.sqlshack.com/sql-server-query-execution-plans-beginners-non-clustered-index-operators/>



#### QUESTION 5

You need to address the requirements for disc usage monitoring for the SQL Servers.

What should you do?

- A. You should configure disc quotas.
- B. You should configure a Dynamic Management View.
- C. You should configure alerts sent by the SQL Server Agent.
- D. You should configure a SQL Server Maintenance Plan.

Correct Answer: B

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