70-451 Q&As

PRO: Designing Database Solutions and Data Access Using Microsoft SQL Server 2008

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QUESTION 1

You are a database developer. You plan to design a database solution by using SQL Server 2008.

The database contains a large table that has 20 million rows. The table contains the following columns:

The table currently has single-column nonclustered indexes on the CustomerNumber, CompanyName, and ContactFirstName columns.

An application uses data from this table. The user interface of the application allows the usage of any one filter from the following list of filters:

In all cases, the listed order of the columns is the order in which they will appear in the WHERE clause that is generated.

You need to design an indexing strategy for this table, so that the query optimizer can quickly perform an index seek when searching through the table data.

What should you recommend?

A. Drop all existing indexes. Create two multicolumn indexes, one on CustomerNumber and CompanyName and the other on ContactLastName and ContactFirstName.

B. Drop all existing indexes. Create two multicolumn indexes, one on CompanyName andCustomerNumber and the other on ContactLastName and ContactFirstName.

C. Drop the indexes on CustomerNumber and ContactFirstName. Create two multicolumn indexes, one on CustomerNumber and CompanyName and the other on ContactLastName and ContactFirstName.

D. Drop all existing indexes. Create a new index on ContactLastName and ContactFirstName. Create a multicolumn index on CustomerNumber and CompanyName.

Correct Answer: C

QUESTION 2

You are a database developer. You plan to design a database solution by using SQL Server 2008. The database contains a large table that is infrequently updated. Users execute a query against the table. The query requires the execution of

a complex calculation that involves multiple columns for a given row. You discover that the query performance is poor because the query is CPU intensive.

You need to reduce the effect of this query on the server.

What should you do?

A. Create a computed column on the table.

B. Create a persisted computed column on the table.

C. Create an index on each field used by the calculation.

D. Create a view on the table that includes the calculation.

Correct Answer: B

QUESTION 3

You are a database developer. You plan to design a database solution by using SQL Server 2008.

The database contains a table that has two partitions. The first partition contains the current data, and the second partition contains historical data. There is a high frequency of data manipulation on the current data.

The testers report that they are frequently unsuccessful in querying the historical data only. You discover that locks are being escalated to the table-level lock.

You need to ensure that without modifying the SELECT statements, you enable users to query the historical data. You want to achieve this goal by using the minimum amount of administrative effort and minimally affecting other queries.

What should you do?

A. Use the ALTER TABLE ... SET (LOCK_ESCALATION = AUTO) command.

B. Move the historical partition to a read-only filegroup.

C. Set the Server Startup Parameters to include -T1211.

D. Set DEADLOCK PRIORITY to HIGH.

Correct Answer: D

QUESTION 4

You are a database developer. You plan to design a database solution by using SQL Server 2008.

The database contains a table named Claims. The structure of the Claims table is as shown in the following table.

Column Name	Description	Constraint
open_date	Claim received date	Does not allow the NULL value
close_date	Claim settled date	Allows the NULL value
status	• Set as **Open** when the claim is received • Set as **Closed** when the claim is settled	–

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Only two percent of the claims are open at any point in time.

You discover that queries on claims that have an Open status take a long time to execute.

You need to optimize the performance of the claim-processing queries.

What should you do?

A. Use a partitioning function to partition the Claims table on the open_date column.

B. Create a view for the Claims table by using a WHERE clause to include all rows that have a NULL value in the close_date column.

C. Create an index for the Claims table by using a WHERE clause to include all rows that have a NULL value in the close_date column.

D. Create a table-valued function for the Claims table by using a WHERE clause to include all rows that have a NULL value in the close_date column.

Correct Answer: C

QUESTION 5

You are a database developer. You plan to design a database solution by using SQL Server 2008. A database contains a table named Policies. The table contains information about 100 million insurance policies. A complex stored procedure

executes daily to calculate the risk amount of each policy and stores the information in the table.

When the stored procedure is executed, users experience poor performance and query time-out errors.

The queries used in the stored procedure are optimized for performance. You need to ensure that the disruption to users is minimal while the stored procedure is being executed.

What should you do?

A. Use the READ UNCOMMITTED transaction isolation level.

B. Split the execution of the stored procedure into batches.

C. Write the risk amounts to a table variable before you update the Policies table.

D. Write the risk amounts to a temporary table before you update the Policies table.

Correct Answer: B

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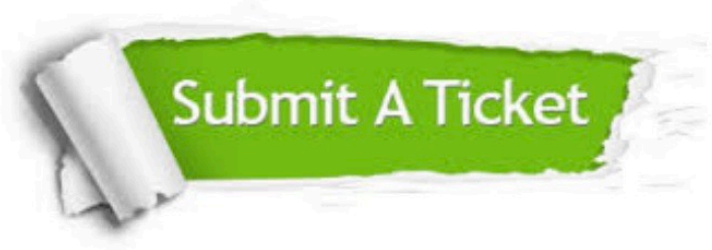

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