



70-465^{Q&As}

Designing Database Solutions for Microsoft SQL Server

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QUESTION 1

You are the new database administrator for a SQL Server 2014 instance.

You conduct an assessment on the instance and determine that the auto create statistics setting on the database named DB1 has been turned off. You see no evidence that any maintenance has been occurring.

You want to set up monitoring to see if query performance is being affected.

You need to set up a monitoring process that will capture any cases where statistics could have been useful if they existed.

What should you do?

- A. Create a SQL Server Agent job to execute DBCC SHOWSTATISTICS on each of the primary key columns in the database.
- B. Use the missing_column_statistics extended event.
- C. Query the sys.statistics system view to see all cases where the statistics were last needed.
- D. Write a query using the sys.dm_db_missing_index_group_stats DMV Joining to sys.indexes, filtering on is_hypothetical.

Correct Answer: B

The Missing Column Statistics event class indicates that column statistics that could have been useful for the optimizer are not available.

By monitoring the Missing Column Statistics event class, you can determine if there are statistics missing for a column used by a query. This can cause the optimizer to choose a less efficient query plan than expected.

Reference: Missing Column Statistics Event Class

QUESTION 2

You need to recommend a solution for the error handling of USP_4. The solution must handle errors for nested stored procedures in the code for USP_4. What should you recommend?

- A. Use the @@ERROR variable in the nested stored procedures.
- B. Use the @@ERROR variable in USP_4.
- C. Use the RAISERROR command in the nested stored procedures.
- D. Use the RAISERROR command in USP_4.

Correct Answer: C

* A stored procedure named USP_4 calls stored procedures in the Sales, Customers, and Inventory databases. The nested stored procedures read tables from the Sales, Customers, and Inventory databases. USP_4 uses an EXECUTE AS clause.



QUESTION 3

You are troubleshooting an application that runs a query. The application frequently causes deadlocks.

You need to identify which transaction causes the deadlock.

What should you do?

More than one answer choice may achieve the goal. Select the BEST answer.

- A. Query the sys.dm_exec_sessions dynamic management view.
- B. Query the sys.dm_exec_requests dynamic management view.
- C. Create a trace in SQL Server Profiler that contains the Deadlock graph event
- D. Create an extended events session to capture deadlock information.

Correct Answer: D

Troubleshooting deadlocks

You have been receiving reports from users indicating that certain applications are returning deadlock errors. To maximize the effectiveness of troubleshooting these problems, you decide to focus on the deadlocks that are hit most frequently.

You create an Extended Events session that:

/ Configures deadlock event tracking for the session.

/ Specifies a target that aggregates based on an identifier for the deadlock.

You run the Extended Events session, and after additional deadlocks are reported you are able to obtain aggregated deadlock information, along with the complete XML deadlock graph for each source. Using this information you are able to

pin point the most common deadlocks and start working on a solution.

Create an Extended Events Session

View Event Session Data

QUESTION 4

You have a server named SQL1 that has SQL Server 2014 installed. SQL1 hosts a database named Database1. Database1 contains a table named Table1.

Table1 is partitioned across five filegroups based on the TransactionType field.

The schema of Table1 is configured as shown in the following table.



Column	Data type
ID	Bigint
Account	Bigint
Amount	Decimal
TransactionType	Int
TransactionDate	Date

Table1 contains the indexes shown in the following table.

Index	Type	Column
PK_Table1	Clustered, primary key	ID, TransactionType
IX_Account	Nonclustered	Account
IX_Type	Nonclustered	TransactionType
IX_Date	Nonclustered	TransactionDate
IX_Amount	Nonclustered	Amount

You need to recommend an index strategy to maximize performance for the queries that consume the indexes available to Table1.

Which type of index storage should you recommend? To answer, drag the appropriate index storage type to the correct index in the answer area.

Select and Place:

The screenshot shows a drag-and-drop interface. On the left, under the heading "Index Storage Types", there are two buttons: "Aligned" and "Nonaligned". On the right, under the heading "Answer Area", there are four boxes, each labeled "Index Storage Type", corresponding to the indexes IX_Type, IX_Account, IX_DATE, and IX_Amount. A watermark "www.lead4pass.com" is visible across the interface.

Correct Answer:



Index Storage Types	Answer Area
<input type="text" value="Aligned"/>	IX_Type <input type="text" value="Aligned"/>
<input type="text" value="Nonaligned"/>	IX_Account <input type="text" value="Nonaligned"/>
	IX_DATE <input type="text" value="Nonaligned"/>
	IX_Amount <input type="text" value="Nonaligned"/>

Note:

Index Storage Type

* Designing a partitioned index independently (unaligned) of the base table can be useful in the following cases:

/The base table has not been partitioned.

/The index key is unique and it does not contain the partitioning column of the table. / You want the base table to participate in collocated joins with more tables g different join columns.

QUESTION 5

What should you recommend for the updates to Sales.TransactionHistory?

- A. a REPEATABLE READ isolation level
- B. implicit transactions
- C. query hints
- D. a SNAPSHOT isolation level

Correct Answer: A

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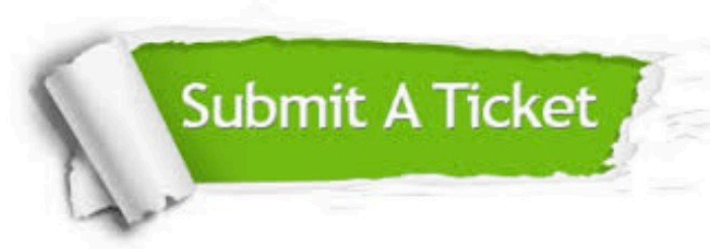
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