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PRO: Optimizing and Maintaining a Database Administration Solution by Using Microsoft SQL Server 2005

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DEMO EXAM

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QUESTION 1:

You work as the database administrator at Certkiller .com. The Certkiller .com
network consists of a single Active Directory domain named Certkiller .com. All
servers on the Certkiller .com network run Windows Server 2003 and all client
computers run Windows XP Professional.
The Certkiller .com network contains a SQL Server 2005 database server named
Certkiller -DB01. Certkiller -DB01 hosts a database named CK_Sales that stores
sales data for the company. Certkiller -DB01 also hosts two financial applications.
You need to optimize the performance of Certkiller -DB01 and increase the
performance of the two financial applications. You need to modify the SQL Server
configuration to accomplish this goal.
What should you do?

A. Configure the max worker threads server option.
B. Configure the min memory per query server option.
C. Configure the max server memory server option.
D. Configure the min server memory server option.

Answer: C

Explanation: The max server memory option is used to specify the maximum
amount of system memory that SQL Server 2005 is allowed to consume. Setting this
option will ensure that the SQL Server 2005 does not consume all the available
memory and can be used to ensure that sufficient memory is remains available for
the other applications to run.
Incorrect Answers:
A: The max worker threads option is used to specify the number of processor threads that
are used to supported users connected to SQL Server. This does not assist in optimizing
performance for other applications.
B:
The min memory per query option is used to specify the minimum amount of memory
that is allocated to the execution of a query. This is useful if there are several concurrent
queries but it does not assist in optimizing performance for other applications.
D: The min server memory option is used to ensure that SQL Server 2005 does not
release memory below the min server memory value once it is reached. This ensures that
SQL Server 2005 always has sufficient memory but it will not ensure that the other
applications have sufficient memory.
Reference:
Microsoft SQL Server 2005 Books Online (2007), Index: max server memory option
Microsoft SQL Server 2005 Books Online (2007), Index: min server memory option
Microsoft SQL Server 2005 Books Online (2007), Index: min memory per query option
Microsoft SQL Server 2005 Books Online (2007), Index: max worker threads option

QUESTION 2:

You work as the database administrator at Certkiller .com. The Certkiller .com
network consists of a single Active Directory domain named Certkiller .com. All
servers on the Certkiller .com network run Windows Server 2003 and all client
computers run Windows XP Professional.
The Certkiller .com network contains a SQL Server 2005 database server named
Certkiller -DB01. Certkiller -DB01 hosts a database named CK_Sales that stores
sales data for the company. Certkiller -DB01 also hosts two financial applications.
Several Certkiller .com users in the Sales department complain that queries against
the CK_Sales database perform very poorly at times. You use System Monitor to
monitor the performance of by using Certkiller -DB01 and discover that SQL
Server 2005 does not have sufficient memory to run efficiently. You need to ensure
that SQL Server 2005 always has sufficient memory to run efficiently.
What should you do?

A. Decrease the min memory per query server option.
B. Increase the min server memory server option.
C. Increase the max worker threads server option.
D. Decrease the max server memory server option.

Answer: B

Explanation:
The min server memory option is used to ensure that SQL Server 2005 does not
release memory below the min server memory value once it is reached. This ensures
that SQL Server 2005 always has sufficient memory. By default, min server memory
is set to 0.
Incorrect Answers:
A: The min memory per query option is used to specify the minimum amount of memory
that is allocated to the execution of a query. This is useful if there are several concurrent
queries. Decreasing this option will increase the possibility that the SQL Server 2005 will
perform poorly.
C: The max worker threads option is used to specify the number of processor threads that
are used to supported users connected to SQL Server. Increasing this option will not
address the memory problem.
D: The max server memory option is used to specify the maximum amount of system
memory that SQL Server 2005 is allowed to consume. Decreasing this option will
increase the possibility that the SQL Server 2005 will perform poorly.
Reference:
Microsoft SQL Server 2005 Books Online (2007), Index: min server memory option
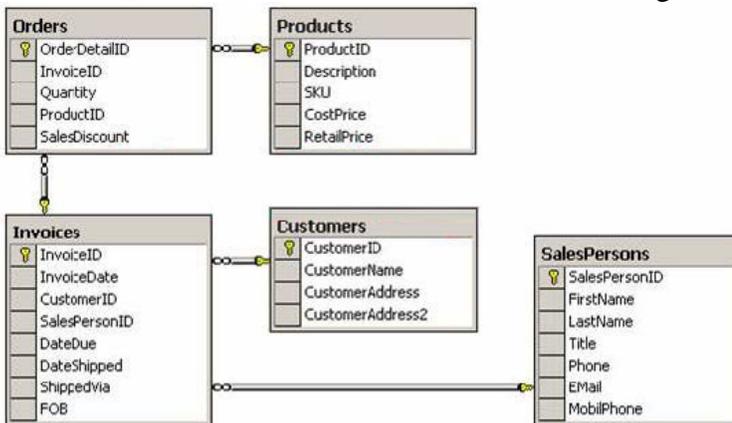Microsoft SQL Server 2005 Books Online (2007), Index: min memory per query option
Microsoft SQL Server 2005 Books Online (2007), Index: max worker threads option
Microsoft SQL Server 2005 Books Online (2007), Index: max server memory option

QUESTION 3:

You work as the database administrator at Certkiller .com. The Certkiller .com
network consists of a single Active Directory domain named Certkiller .com. All
servers on the Certkiller .com network run Windows Server 2003 and all client
computers run Windows XP Professional. The Certkiller .com network contains a
SQL Server 2005 database server named Certkiller -DB01. Certkiller -DB01
hosts a database named CK_Sales that stores sales data for the company. The tables
in the CK_Sales database are shown in the following database diagram.

The recent increase in database usage at the company has resulted in several
Certkiller .com users complaining of timeouts when they try to retrieve sales orders
from the CK_Sales database. You need to determine whether partitioning the
Orders table would improve database performance.
What should you do? (Each correct answer presents part of the solution. Choose
TWO.)

A. Run Database Engine Tuning Advisor.
B. Create a performance log file to monitor SQL Server:Buffer Manager:Page reads/sec.
C. Run SQL Server Profiler to replay the trace file and the log file.
D. Use the SQL Server Profiler Tuning template to create a trace file.
E. Create a performance log file to monitor Logical Disk: Disk Read Bytes/sec

Answer: A, D

Explanation:
You can use the Database Engine Tuning Advisor to determine whether indexing
and partitioning of a table would improve database performance. The Database
Engine Tuning Advisor analyzes a workload file that you can create by running
SQL Server Profiler and creating a trace based on the SQL Server Profiler Tuning
template.
Incorrect Answers:
B: The SQL Server:Buffer Manager:Page reads/sec counter is used to monitor the read
activity on an instance of SQL Server. It does not help you determine whether
partitioning a table will improve database performance.
C: You can use the SQL Server Profiler to analyze a trace file and a log file to determine

which queries are causing excessive resource utilization. However, this information does not help you determine whether partitioning a table will improve database performance.
E: The Logical Disk: Disk Read Bytes/sec counter is used to monitor the read activity on a logical disk. It does not help you determine whether partitioning a table will improve database performance.
Reference:
Microsoft SQL Server 2005 Books Online (2007), Index: Database Engine Tuning Advisor [SQL Server]
Microsoft SQL Server 2005 Books Online (2007), Index: SQL Server Profiler
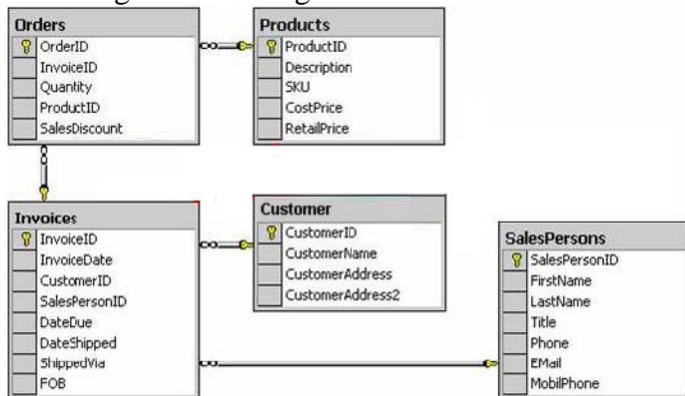Microsoft SQL Server 2005 Books Online (2007), Index: performance counters [SQL Server]
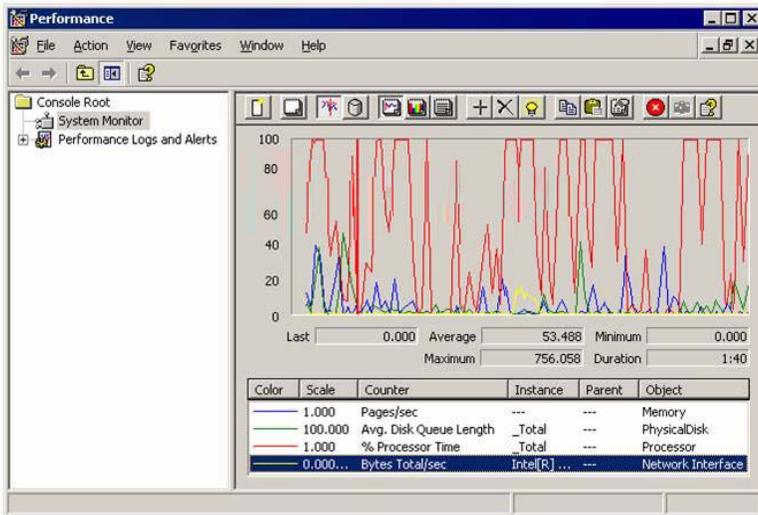Microsoft SQL Server 2005 Books Online (2007), Index: max server memory option

QUESTION 4:

You work as the database administrator at Certkiller .com. The Certkiller .com network consists of a single Active Directory domain named Certkiller .com. All servers on the Certkiller .com network run Windows Server 2003 and all client computers run Windows XP Professional.
The Certkiller .com network contains a SQL Server 2005 database server named Certkiller -DB01. Certkiller -DB01 hosts a database named CK_Sales that stores sales data for the company. The tables in the CK_Sales database are shown in the following database diagram.

Several Certkiller .com users start complaining of slow response time when they run queries against the CK_Sales database. You run the sys.dm_os_schedulers view on Certkiller -DB01 and discover that the runnable_tasks_count is consistently at or above ten. You run System Monitor on Certkiller -DB01 and receive the output as shown in the exhibit.

You need to improve database performance.
What should you do?

A. Increase the Random Access Memory (RAM).
B. Add an additional processor.
C. Upgrade the disk subsystem.
D. Use the Database Engine Tuning Advisor to suggest new indexes.

Answer: B

Explanation: The Processor:% Processor Time counter in the exhibit indicates that
the processor is often running at over 80%. This indicates that the processor is
causing a bottleneck. Adding an additional processor to the system will improve
overall system performance.
Incorrect Answers:
A: The Memory:Avg. Disk Queue Length counter in the exhibit is low. This indicates
that the RAM is not causing a bottleneck. Therefore, adding additional RAM to the
system will not improve overall system performance.
C: The PhysicalDisk:Pages/sec counter in the exhibit is low. This indicates that the disk
subsystem is not causing a bottleneck. Therefore, upgrading the disk subsystem will not
improve overall system performance.
D: The Processor:% Processor Time counter in the exhibit indicates that the processor is
often running at over 80%. This indicates that the processor is causing a bottleneck.
Indexing the tables will not reduce the load on the processor and will not improve overall
system performance.
Reference:
Microsoft SQL Server 2005 Books Online (2007), Index: CPU [SQL Server], monitoring
Microsoft SQL Server 2005 Books Online (2007), Index: Database Engine Tuning
Advisor [SQL Server]

QUESTION 5:

You work as the database administrator at Certkiller .com. The Certkiller .com
network consists of a single Active Directory domain named Certkiller .com. All
servers on the Certkiller .com network run Windows Server 2003 and all client
computers run Windows XP Professional. You use a client computer named
Certkiller -WS444.
The Certkiller .com network contains a SQL Server 2005 database server named
Certkiller -DB01. Certkiller -DB01 hosts a database named CK_Products. The
recent increase in database usage at the company has resulted in several
Certkiller .com users complaining of poor query performance and query timeouts try
to retrieve data from the CK_Products database. You need to determine the cause
of the poor performance. You need to minimize the effect of your monitoring
strategy on system performance.
What should you do?

A. Run the SQL Server Profiler from Certkiller -WS444 and create a trace that
monitors Certkiller -DB01. Save the trace file to a table.
B. Run the Performance tool on Certkiller -DB01 to create a log that monitors
Certkiller -DB01. Save the log file to a folder on Certkiller -DB01.
C. Run the SQL Server Profiler on Certkiller -DB01 and create a trace that monitors
Certkiller -DB01. Save the trace file to a table.
D. Run the Performance tool on Certkiller -WS444 to create a log that monitors
Certkiller -DB01. Save the log file to a folder on Certkiller -WS444.

Answer: D

Explanation: You can use the Windows Performance tool on a client computer to
monitor system performance on the database server without negatively affecting the
performance of the database server. You can use the Windows Performance tool to
create a log on the client computer that you can analyze to determine the cause of a
resource bottleneck.
Incorrect Answers:
A, C: SQL Server Profiler is used to trace SQL Server events. It is not used to
troubleshoot resource bottlenecks.
B: You should run the Windows Performance tool from you client computer and save the
log file to your computer. This will reduce the impact of monitoring on the database
server.
Reference:
Microsoft SQL Server 2005 Books Online (2007), Index: CPU [SQL Server], monitoring
Microsoft SQL Server 2005 Books Online (2007), Index: Database Engine Tuning
Advisor [SQL Server]

QUESTION 6:

You work as the database administrator at Certkiller .com. The Certkiller .com
network consists of a single Active Directory domain named Certkiller .com. All
servers on the Certkiller .com network run Windows Server 2003 and all client

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 and many others.. See complete list Here