

70-764^{Q&As}

Administering a SQL Database Infrastructure

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QUESTION 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

After you answer a question in this sections, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

A company has an on-premises Microsoft SQL Server environment and Microsoft Azure SQL Database instances. The environment hosts several customer databases.

One customer reports that their database is not responding as quickly as the service level agreements dictate. You observe that the database is fragmented.

You need to optimize query performance.

Solution: You reorganize all indexes.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

You can remedy index fragmentation by either reorganizing an index or by rebuilding an index. References: [https://msdn.microsoft.com/en-us/library/ms189858\(v=sql.105\).aspx](https://msdn.microsoft.com/en-us/library/ms189858(v=sql.105).aspx)

QUESTION 2

Your network contains an Active Directory domain that has two groups named Group1 and Group2.

The domain contains two SQL Server instances named SQLDev and SQLProd. Each SQL Server instance has access to various storage media.

The SQL Server instances have a database that contains a table named Table1.

Table1 contains a column named Column1. The value for Column1 can be either Value1 or Value2.

You need to recommend a solution to ensure that users in Group1 can retrieve only rows from Column1 that contain the value of Value1.

What should you recommend?

A. A dynamic management view

B. Filegroups

C. Snapshot isolation

D. User-defined views

Correct Answer: D

A view is a virtual table whose contents are defined by a query. Like a table, a view consists of a set of named columns and rows of data. Unless indexed, a view does not exist as a stored set of data values in a database. The rows and columns of data come from tables referenced in the query defining the view and are produced dynamically when the view is referenced.

A view acts as a filter on the underlying tables referenced in the view. <http://msdn.microsoft.com/en-us/library/ms190174.aspx>

Incorrect:

Not A: Dynamic management views and functions return server state information that can be used to monitor the health of a server instance, diagnose problems, and tune performance.

[http://technet.microsoft.com/en-us/library/ms188754\(v=sql.120\).aspx](http://technet.microsoft.com/en-us/library/ms188754(v=sql.120).aspx)

QUESTION 3

You are the administrator for a SQL Server 2016 instance that stores the data for an online transaction processing sales system.

The company takes full backups every week; differential backups on the days with no full backups; and hourly transaction backups. These backups are stored on a backup server in the company's data center.

Every week, the company places the full backup on a tape and sends it to a third-party backup storage system.

The company is worried that a disaster might occur that could destroy their computer center and cause them to lose orders.

You need to determine the best method for providing the smallest amount of data loss and downtime without leasing or purchasing additional physical locations.

What should you do? More than one answer choice may achieve the goal. Select the BEST answer.

- A. Set up SQL Server Always On with a SQL Azure database as a replica.
- B. Set up SQL Server Always On by using a SQL Server on a Windows Azure Virtual Machine.
- C. Put the differential backup on tape and send it to the third-party backup storage system.
- D. Use the Microsoft SQL Server Backup to Microsoft Windows Azure Tool to direct all backups to a different geographical location.

Correct Answer: D

SQL Server 2012 was the first version to provide the ability to back up databases to the Cloud, and SQL Server 2016 improves on the process.

Microsoft SQL Server Backup to Windows Azure Tool enables backup to Windows Azure Blob Storage and encrypts and compresses SQL Server backups stored locally or in the cloud.

Reference:

Smart, Secure, Cost-Effective: SQL Server Back Up to Windows Azure - SQL Server Team Blog - Site Home - TechNet Blogs

QUESTION 4

You have a SQL Server 2016 environment that contains 20 servers.

The corporate security policy states that all SQL Server 2016 instances must meet specific security standards.

You need to recommend a management strategy for the SQL Server 2016 servers.

What should you include in the recommendation?

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

- A. Multi server jobs
- B. Policy-Based Management
- C. Common criteria compliance
- D. Maintenance plans

Correct Answer: B

Policy-Based Management is a system for managing one or more instances of SQL Server. When SQL Server policy administrators use Policy-Based Management, they use SQL Server Management Studio to create policies to manage

entities on the server, such as the instance of SQL Server, databases, or other SQL Server objects.

Reference:

Policy-Based Management How-to Topics

QUESTION 5

You have a query that is used by a reporting dashboard.

Users report that the query sometimes takes a long time to run.

You need to recommend a solution to identify what is causing the issue.

What should you recommend?

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

- A. Set the blocked process threshold, and then run SQL Server Profiler.
- B. Set the blocked process threshold, and then create an alert.
- C. Enable trace flag 1204, and then create an alert.

D. Create a job that queries the sys.dm_os_waiting_tasks dynamic management view.

Correct Answer: B

Step 1: Turn on the blocked process report. This will look for any blocking taking 20 seconds or longer.

```
--Make sure you don't have any pending changes  
SELECT * FROM sys.configurations WHERE value value_in_use;  
GO
```

```
exec sp_configure 'show advanced options', 1; GO RECONFIGURE GO
```

```
exec sp_configure 'blocked process threshold (s)', 20; GO RECONFIGURE GO
```

Step 2: Set up a trace to capture the blocked process report. Run it as a server side trace.

Reference: blocked process threshold Server Configuration Option

QUESTION 6

You have two SQL Server 2016 instances named SQLDev and SQLProd.

You plan to create a new database on SQLProd that will use SQL Server Authentication.

You need to ensure that when the new database is copied from SQLProd to SQLDev, users can connect to the database on SQLDev even if they do not have a login on the SQLDev instance.

What should you use?

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

- A. Triggers
- B. Contained database
- C. SQL Server Analysis Services (SSAS) scripts
- D. Extended Events
- E. SQL Server Integration Services (SSIS) scripts

Correct Answer: B

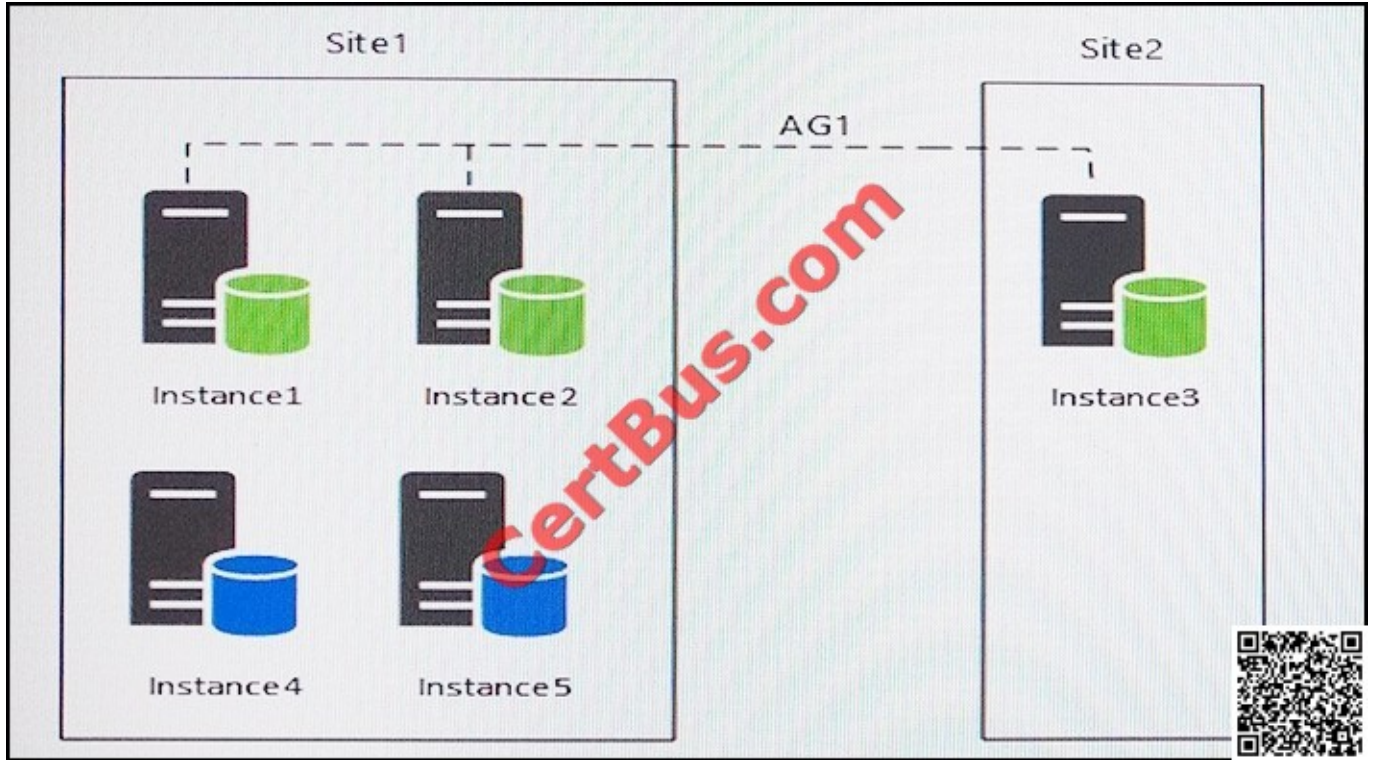
A fully contained database includes all the settings and metadata required to define the database and has no configuration dependencies on the instance of the SQL Server Database Engine where the database is installed.

Reference: Contained Databases

QUESTION 7

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 text of the scenario is exactly the same in each question in this series.

You have five servers that run Microsoft Windows 2012 R2. Each server hosts a Microsoft SQL Server instance. The topology for the environment is shown in the following diagram.



You have an Always On Availability group named AG1. The details for AG1 are shown in the following table.

Instance	Node type
Instance1	Primary
Instance2	Synchronous readable secondary
Instance3	Asynchronous readable secondary

Instance1 experiences heavy read-write traffic. The instance hosts a database named OperationsMain that is four terabytes (TB) in size. The database has multiple data files and filegroups. One of the filegroups is read_only and is half of the

total database size.

Instance4 and Instance5 are not part of AG1. Instance4 is engaged in heavy read-write I/O.

Instance5 hosts a database named StagedExternal. A nightly BULK INSERT process loads data into an empty table that has a rowstore clustered index and two nonclustered rowstore indexes.

You must minimize the growth of the StagedExternal database log file during the BULK INSERT operations and perform point-in-time recovery after the BULK INSERT transaction. Changes made must not interrupt the log backup chain.

You plan to add a new instance named Instance6 to a datacenter that is geographically distant from Site1 and Site2. You must minimize latency between the nodes in AG1.

All databases use the full recovery model. All backups are written to the network location \\SQLBackup\. A separate process copies backups to an offsite location. You should minimize both the time required to restore the databases and the

space required to store backups. The recovery point objective (RPO) for each instance is shown in the following table.

Instance	Recovery point objective
Instance 1	5 minutes
Instance 2	5 minutes
Instance 3	5 minutes
Instance 4	60 minutes
Instance 5	24 hours



Full backups of OperationsMain take longer than six hours to complete. All SQL Server backups use the keyword COMPRESSION. You plan to deploy the following solutions to the environment. The solutions will access a database named DB1 that is part of AG1. The wait statistics monitoring requirements for the instances are described in the following table.

Instance	Description
Instance1	Aggregate wait statistics since the last server restart.
Instance4	Identify the most prominent wait types for all the commands originating session, between session connections, or between application pool reset.
Instance5	Identify all the wait types for queries currently running on the server.



You need to reduce the amount of time it takes to backup OperationsMain. What should you do?

- A. Modify the backup script to use the keyword SKIP in the FILE_SNAPSHOT statement.
- B. Modify the backup script to use the keyword SKIP in the WITH statement
- C. Modify the backup script to use the keyword NO_COMPRESSION in the WITH statement.
- D. Modify the full database backups script to stripe the backup across multiple backup files.

Correct Answer: D

One of the filegroup is read_only should be as it only need to be backup up once. Partial backups are useful whenever you want to exclude read-only filegroups. A partial backup resembles a full database backup, but a partial backup does not contain all the filegroups. Instead, for a read-write database, a partial backup contains the data in the primary filegroup, every read-write filegroup, and, optionally, one or more read-only files. A partial backup of a read-only database contains only the primary filegroup.

From scenario: Instance1 experiences heavy read-write traffic. The instance hosts a database named OperationsMain that is four terabytes (TB) in size. The database has multiple data files and filegroups. One of the filegroups is read_only and is half of the total database size.

References: <https://docs.microsoft.com/en-us/sql/relational-databases/backup-restore/partial-backups-sql-server>

QUESTION 8

Note: This question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in this series.

Information and details provided in a question apply only to that question.

You need to examine information about logins, CPU times, and Disk I/O on a particular database in Microsoft Azure.

What should you use?

- A. Activity Monitor
- B. Sp_who3
- C. SQL Server Management Studio (SSMS) Object Explorer
- D. SQL Server Data Collector
- E. SQL Server Data Tools (SSDT)
- F. SQL Server Configuration Manager

Correct Answer: A

Activity Monitor displays information about SQL Server processes and how these processes affect the current instance of SQL Server. Activity Monitor is a tabbed document window with the following expandable and collapsible panes: Overview, Active User Tasks, Resource Waits, Data File I/O, and Recent Expensive Queries.

The Activity User Tasks Pane shows information for active user connections to the instance, including the following column:

*

Login: The SQL Server login name under which the session is currently executing.

The Recent Expensive Queries Pane shows information about the most expensive queries that have been run on the instance over the last 30 seconds, including the following column:

*

CPU (ms/sec): The rate of CPU use by the query

References:[https://technet.microsoft.com/en-us/library/cc879320\(v=sql.105\).aspx](https://technet.microsoft.com/en-us/library/cc879320(v=sql.105).aspx)

QUESTION 9

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

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A company has an on-premises Microsoft SQL Server environment and Microsoft Azure SQL Database instances. The environment hosts several customer databases.

One customer reports that their database is not responding as quickly as the service level agreements dictate. You observe that the database is fragmented.

You need to optimize query performance.

Solution: You rebuild all indexes.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

You can remedy index fragmentation by either reorganizing an index or by rebuilding an index.

References:[https://msdn.microsoft.com/en-us/library/ms189858\(v=sql.105\).aspx](https://msdn.microsoft.com/en-us/library/ms189858(v=sql.105).aspx)

QUESTION 10

You are creating a database that will store usernames and passwords for an application.

You need to recommend a solution to store the passwords in the database.

What should you recommend?

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

A. One-way encryption

B. Encrypting File System (EFS)

C. Transparent Data Encryption (TDE)

D. Reversible encryption

Correct Answer: C

*

Transparent Data Encryption (TDE) is a special case of encryption using a symmetric key. TDE encrypts an entire database using that symmetric key called the database encryption key. The database encryption key is protected by other keys or certificates which are protected either by the database master key or by an asymmetric key stored in an EKM module.

*


SQL Server provides the following mechanisms for encryption: Transact-SQL functions Asymmetric keys Symmetric keys Certificates Transparent Data Encryption

Reference: Transparent Data Encryption (TDE)

QUESTION 11

You are designing a Windows Azure SQL Database for an order fulfillment system. You create a table named Sales.Orders with the following script.

```
CREATE TABLE Sales.Orders  
(  
    OrderID int IDENTITY(1,1) NOT NULL PRIMARY KEY,  
    OrderDate datetimeoffset NOT NULL,  
    CustomerID int NOT NULL  
);
```



Each order is tracked by using one of the following statuses:

Fulfilled

Shipped

Ordered

Received

You need to design the database to ensure that that you can retrieve the following information:

The current status of an order

The previous status of an order.

The date when the status changed.

The solution must minimize storage.

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

A. To the Sales.Orders table, add three columns named Status, PreviousStatus and ChangeDate. Update rows as the order status changes.

B. Create a new table named Sales.OrderStatus that contains three columns named OrderID, StatusDate, and Status. Insert new rows into the table as the order status changes.

C. Implement change data capture on the Sales.Orders table.

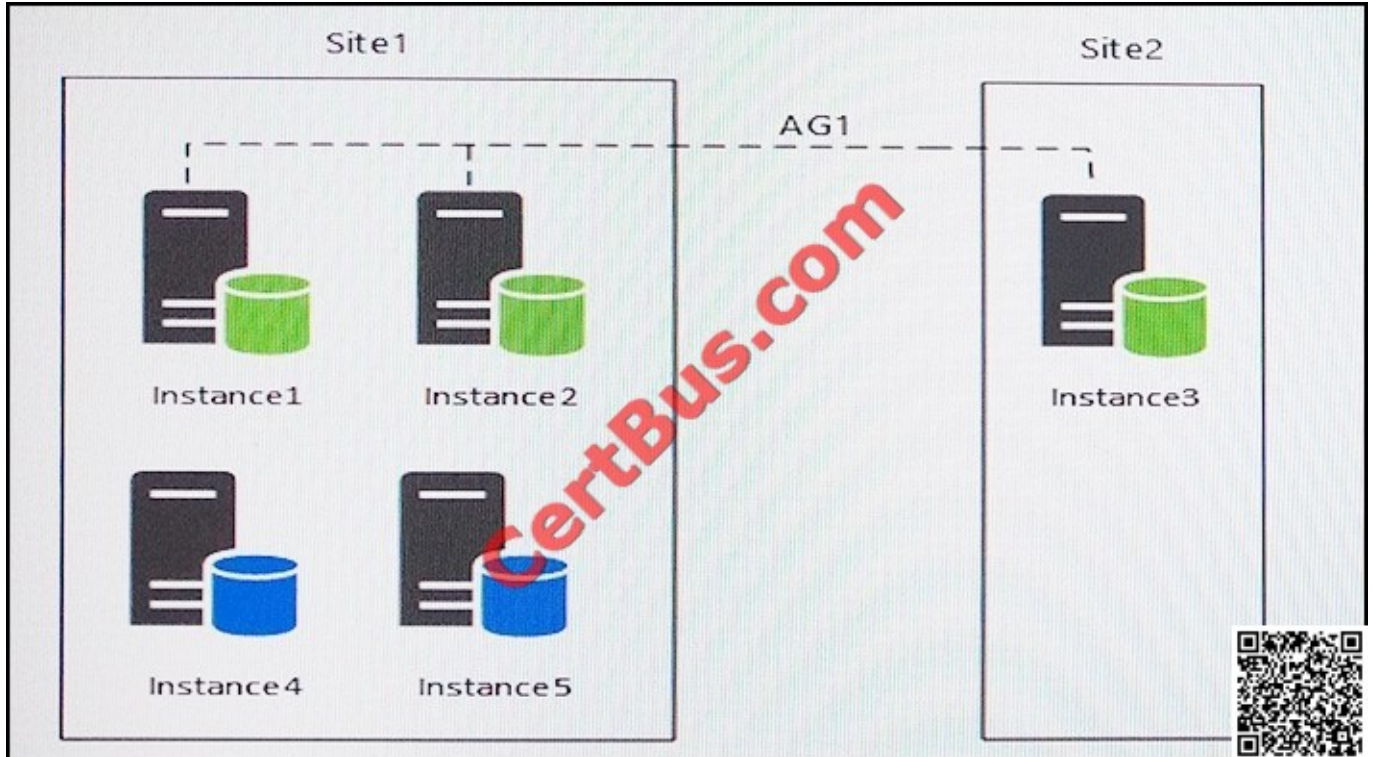
D. To the Sales.Orders table, add three columns named FulfilledDate, ShippedDate, and ReceivedDate. Update the value of each column from null to the appropriate date as the order status changes.

Correct Answer: B

QUESTION 12

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You have five servers that run Microsoft Windows 2012 R2. Each server hosts a Microsoft SQL Server instance. The topology for the environment is shown in the following diagram.



You have an Always On Availability group named AG1. The details for AG1 are shown in the following table.

Instance	Node type
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Instance1 experiences heavy read-write traffic. The instance hosts a database named OperationsMain that is four terabytes (TB) in size. The database has multiple data files and filegroups. One of the filegroups is read_only and is half of the

total database size.

Instance4 and Instance5 are not part of AG1. Instance4 is engaged in heavy read-write I/O.

Instance5 hosts a database named StagedExternal. A nightly BULK INSERT process loads data into an empty table that has a rowstore clustered index and two nonclustered rowstore indexes.

You must minimize the growth of the StagedExternal database log file during the BULK INSERT operations and perform point-in-time recovery after the BULK INSERT transaction. Changes made must not interrupt the log backup chain.

You plan to add a new instance named Instance6 to a datacenter that is geographically distant from Site1 and Site2. You must minimize latency between the nodes in AG1.

All databases use the full recovery model. All backups are written to the network location \\SQLBackup\. A separate process copies backups to an offsite location. You should minimize both the time required to restore the databases and the space required to store backups. The recovery point objective (RPO) for each instance is shown in the following table.

Instance	Recovery point objective
Instance 1	5 minutes
Instance 2	5 minutes
Instance 3	5 minutes
Instance 4	60 minutes
Instance 5	24 hours



Full backups of OperationsMain take longer than six hours to complete. All SQL Server backups use the keyword COMPRESSION. You plan to deploy the following solutions to the environment. The solutions will access a database named DB1 that is part of AG1. The wait statistics monitoring requirements for the instances are described in the following table.

Instance	Description
Instance1	Aggregate wait statistics since the last server restart.
Instance4	Identify the most prominent wait types for all the commands originating session, between session connections, or between application pool reset
Instance5	Identify all the wait types for queries currently running on the server.



You need to create a backup plan for Instance4. Which backup plan should you create?

- A. Weekly full backups, nightly differential. No transaction log backups are necessary.
- B. Weekly full backups, nightly differential backups, transaction log backups every 5 minutes.
- C. Weekly full backups, nightly differential backups, transaction log backups every 12 hours.
- D. Weekly full backups, nightly differential backups, nightly transaction log backups.

Correct Answer: B

From scenario: Instance4 and Instance5 are not part of AG1. Instance4 is engaged in heavy read-write I/O. The recovery point objective of Instance4 is 60 minutes. RecoveryPoint Objectives are commonly described as the amount of data that was lost during the outage and recovery period.

References:<http://sqlmag.com/blog/sql-server-recovery-time-objectives-and-recovery-point-objectives>

QUESTION 13

You have a SQL Server 2016 database named DB1.

You plan to import a large number of records from a SQL Azure database to DB1.

You need to recommend a solution to minimize the amount of space used in the transaction log during the import operation.

What should you include in the recommendation?

- A. The bulk-logged recovery model

- B. The full recovery model
- C. A new partitioned table
- D. A new log file
- E. A new file group

Correct Answer: A

Compared to the full recovery model, which fully logs all transactions, the bulk-logged recovery model minimally logs bulk operations, although fully logging other transactions. The bulk-logged recovery model protects against media failure

and, for bulk operations, provides the best performance and least log space usage.

Note:

The bulk-logged recovery model is a special-purpose recovery model that should be used only intermittently to improve the performance of certain large-scale bulk operations, such as bulk imports of large amounts of data.

Reference: Recovery Models (SQL Server)

QUESTION 14

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 text of the scenario is exactly the same in each question in this series.

You are a database administrator for a company that has an on-premises Microsoft SQL Server environment and Microsoft Azure SQL Database instances. The environment hosts several customer databases, and each customer uses a dedicated instance. The environments that you manage are shown in the following table.

Customer	Cloud Type	Description
AdventureWorks Cycles	Private	The environment includes a database named Adventureworks that contains a single schema named ADVSchema. You must implement auditing for all objects in the ADVSchema schema. You must also implement auditing to record access to data that is considered sensitive by the company.
Tailspin Toys	Private	Tailspin Toys has a custom application that accesses a hosted database named TSpinDB . The application will monitor TSpinDB and capture information over time about which database objects are accessed and how frequently they are accessed.
Contoso, Ltd.	Private	The environment has a database named ConDB that was recently upgraded to Microsoft SQL Server 2016. Contoso reports that ConDB is slow to return results when the server is busy. You must modify the startup parameters to ConDB to optimize performance.
Wingtip Toys	Private	Wingtip Toys has a database named WingDB . All tables in the database have indexes. Users report system response time is slow during peak activity periods. You observe that the performance issues are related to locking. Wingtip Toys receives data updates from suppliers each week. You must implement a process for importing the data into WingDB . You must use minimal logging and minimized data loss during import process.
Wide World Importers	Public	The environment includes a database named WDWDB . Neither auditing nor statistics are configured for WDWDB . You must log any de of views and all database record update operations.



You need to monitor WingDB and gather information for troubleshooting issues. What should you use?

- A. sp_updatestats
- B. sp_lock
- C. sys.dm_os_waiting_tasks
- D. sys.dm_tran_active_snapshot_database_transactions

Correct Answer: B

The sp_lock system stored procedure is packaged with SQL Server and will give you insight into the locks that are happening on your system. This procedure returns much of its information from the syslock info in the master database, which is a system table that contains information on all granted, converting, and waiting lock requests.

Note: sp_lock will be removed in a future version of Microsoft SQL Server. Avoid using this feature in new development work, and plan to modify applications that currently use this feature. To obtain information about locks in the SQL Server

Database Engine, use the sys.dm_tran_locks dynamic management view.

sys.dm_tran_locks returns information about currently active lock manager resources in SQL Server 2008 and later. Each row represents a currently active request to the lock manager for a lock that has been granted or is waiting to be granted.

References: <https://docs.microsoft.com/en-us/sql/relational-databases/system-stored-procedures/sp-lock-transact-sql>

QUESTION 15

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

You need to identify the isolation level used by the query when a deadlock occurs.

What should you do?

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

- A. Query the sys.dm_exec_requests dynamic management view.
- B. Create a trace in SQL Server Profiler that contains the Deadlock graph event.
- C. Query the sys.dm_exec_sessions dynamic management view.
- D. Enable trace flag 1222, and then view the SQL Server error log.

Correct Answer: C

* sys.dm_exec_sessions Returns one row per authenticated session on SQL Server. sys.dm_exec_sessions is a server-scope view that shows information about all active user connections and internal tasks. Include the column: transaction_isolation_level smallint Transaction isolation level of the session. 0 = Unspecified 1 = ReadUncommitted 2 = ReadCommitted 3 = Repeatable 4 = Serializable 5 = Snapshot Is not nullable.

Reference: sys.dm_exec_sessions (Transact-SQL)

QUESTION 16

You have a server named Server1 that has 2 processors.

You plan to deploy multiple instances of SQL Server 2016 to Server1. Each instance will have multiple databases.

You need to recommend a method to set limits on processor time for each database.

What should you include in the recommendation?

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

- A. processor affinity
- B. Max Degree of Parallelism
- C. Windows System Resource Manager (WSRM)
- D. Resource Governor

Correct Answer: D

Explanation: SQL Server Resource Governor is a feature that you can use to manage SQL Server workload and system resource consumption. Resource Governor enables you to specify limits on the amount of CPU, physical IO, and memory that incoming application requests can use. Reference: Resource Governor [https://msdn.microsoft.com/en-us/library/bb933866\(v=sql.120\).aspx](https://msdn.microsoft.com/en-us/library/bb933866(v=sql.120).aspx)

QUESTION 17

You have a server that has SQL Server 2016 installed. The server contains 100 user databases.

You need to recommend a backup solution for the user databases.

The solution must meet the following requirements:

Perform a transaction log backup every hour.

Perform a full backup of each database every week. Perform a differential backup of each database every day. Ensure that new user databases are added automatically to the backup solution.

What should you recommend?

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

- A. Policy-Based Management
- B. A Data Definition Language (DDL) trigger
- C. SQL Server Agent jobs
- D. A maintenance plan

Correct Answer: D

Maintenance plans create a workflow of the tasks required to make sure that your database is optimized, regularly backed up, and free of inconsistencies.

Maintenance plans can be created to perform the following task (among others):

Back up the database and transaction log files. Database and log backups can be retained for a specified period. This lets you create a history of backups to be used if you have to restore the database to a time earlier than the last database

backup. You can also perform differential backups.

Reference: Maintenance Plans

QUESTION 18

You deploy a database by using SQL Server 2016. The database contains a table named Table1.

You need to recommend a solution to track all of the deletions executed on Table1. The solution must minimize the amount of custom code required. What should you recommend?

- A. Change data capture
- B. Statistics
- C. A trigger
- D. Master Data Services

Correct Answer: A

Change data capture is designed to capture insert, update, and delete activity applied to SQL Server tables, and to make the details of the changes available in an easily consumed relational format. The change tables used by change data capture contain columns that mirror the column structure of a tracked source table, along with the metadata needed to understand the changes that have occurred.

Reference: About Change Data Capture (SQL Server)

QUESTION 19

Note: This question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in this series.

Information and details provided in a question apply only to that question.

You observe that several indexes are fragmented.

You need to rebuild the indexes.

What should you use?

- A. Activity Monitor
- B. Sp_who3
- C. Object Explorer in the SQL Server Management Studio (SSMS)
- D. SQL Server Data Collector
- E. SQL Server Data Tools (SSDT)
- F. SQL Server Configuration Manager

Correct Answer: C

How to: Rebuild an Index (SQL Server Management Studio) To rebuild an index References:

[https://technet.microsoft.com/en-us/library/ms187874\(v=sql.105\).aspx](https://technet.microsoft.com/en-us/library/ms187874(v=sql.105).aspx)

QUESTION 20

Note: This question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in this series.

Information and details provided in a question apply only to that question. You are the database administrator for a company that hosts Microsoft SQL Server. You manage both on-premises and Microsoft Azure SQL Database environments.

One instance hosts a user database named HRDB. The database contains sensitive human resources data.

You need to grant an auditor permission to view the SQL Server audit logs while following the principle of least privilege.

Which permission should you grant?

- A. DDLAdmin
- B. db_datawriter
- C. dbcreator
- D. dbo
- E. View Database State
- F. View Server State
- G. View Definition
- H. sysadmin

Correct Answer: F

Unless otherwise specified, viewing catalog views requires a principal to have one of the following: References:

[https://technet.microsoft.com/en-us/library/cc280386\(v=sql.110\).aspx](https://technet.microsoft.com/en-us/library/cc280386(v=sql.110).aspx)

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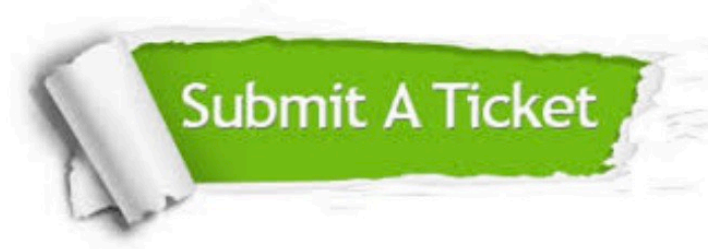
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To update a previously submitted ticket:



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