



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

Administering a SQL Database Infrastructure

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### QUESTION 1

You are implementing a SQL Server 2016 five-node failover cluster.

You need to choose a quorum configuration.

Which configuration should you use?

- A. Distributed File System (DFS)
- B. Node Majority
- C. Cluster Shared Volume (CSV)
- D. Node and Disk Majority

Correct Answer: D

Node and Disk Majority (recommended for clusters with an even number of nodes) Incorrect Answers:

B: Node Majority (recommended for clusters with an odd number of nodes)

References: [https://docs.microsoft.com/en-us/previous-versions/windows/it-pro/windows-server-2008-R2-and-2008/cc731739\(v=ws.11\)](https://docs.microsoft.com/en-us/previous-versions/windows/it-pro/windows-server-2008-R2-and-2008/cc731739(v=ws.11))

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### QUESTION 2

#### DRAG DROP

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
```

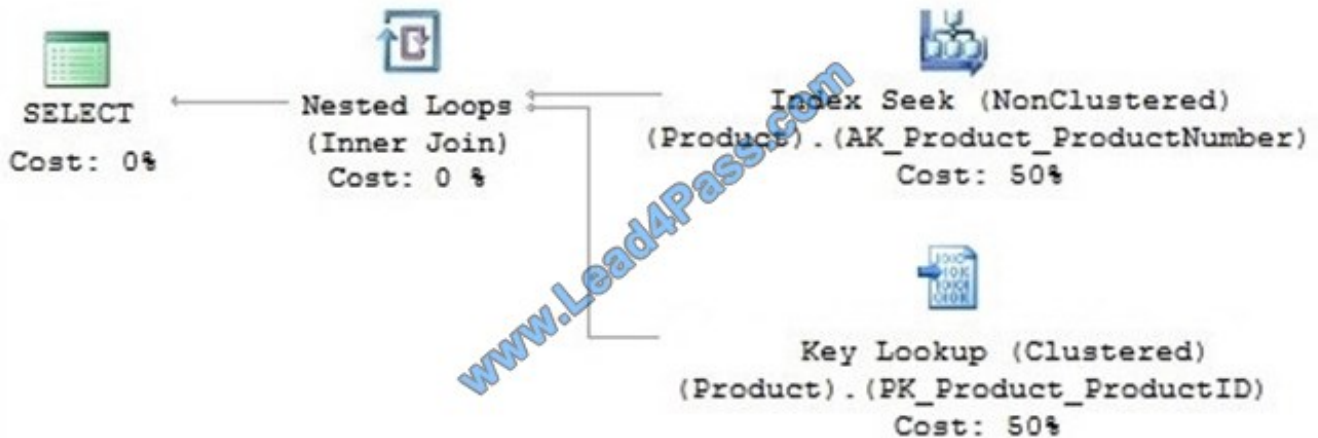


WHERE ProductNumber = N'\'

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.



You plan to use Extended Events to review all Transact-SQL statements that are run against the ContosoSQL1 instance. The output from the Extended Events session must contain both start and stop events and must be written to a file. You

must configure the Extended Events session to minimize possible data loss and reduce the effect on server performance.

You plan to deploy an additional secondary replica named ContosoSQL3 to ContosoAG1. Read-only traffic must be load-balanced between the two secondary replicas, regardless of which instance is the primary replica. Contoso plans to add

an additional dedicated reporting system that will rely on real-time data from the transactional databases.

End of repeated scenario

You need to create the blocking reports.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:



### Actions

Retrieve the blocking reports from the SQL Server logs

Create a SQL Agent Alert to notify you when blocking reports have been created

Configure data collection on the SQL Server instance

Set the Blocked process threshold server configuration option to **60**

Use Extended Events to capture the blocking reports for review

Enable the Show advanced options server configuration option

### Answer Area

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Correct Answer:



### Actions

- Retrieve the blocking reports from the SQL Server logs
- Create a SQL Agent Alert to notify you when blocking reports have been created
- Configure data collection on the SQL Server instance
- 
- 
- 

### Answer Area

- Enable the Show advanced options server configuration option
- Set the Blocked process threshold server configuration option to **60**
- Use Extended Events to capture the blocking reports for review



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### QUESTION 3

#### Overview

You are a database administrator for a company named Litware, Inc.

Litware is a book publishing house. Litware has a main office and a branch office.

You are designing the database infrastructure to support a new web-based application that is being developed.

The web application will be accessed at [www.litwareinc.com](http://www.litwareinc.com). Both internal employees and external partners will use the application.

You have an existing desktop application that uses a SQL Server 2008 database named App1\_DB.

App1\_DB will remain in production.

#### Requirements

#### Planned Changes

You plan to deploy a SQL Server 2014 instance that will contain two databases named Database1 and Database2.



All database files will be stored in a highly available SAN.

Database1 will contain two tables named Orders and OrderDetails.

Database1 will also contain a stored procedure named usp\_UpdateOrderDetails.

The stored procedure is used to update order information. The stored procedure queries the Orders table twice each time the procedure executes. The rows returned from the first query must be returned on the second query unchanged along with any rows added to the table between the two read operations.

Database1 will contain several queries that access data in the Database2 tables.

Database2 will contain a table named Inventory.

Inventory will contain over 100 GB of data.

The Inventory table will have two indexes: a clustered index on the primary key and a nonclustered index.

The column that is used as the primary key will use the identity property.

Database2 will contain a stored procedure named usp\_UpdateInventory. usp\_UpdateInventory will manipulate a table that contains a self-join that has an unlimited number of hierarchies. All data in Database2 is recreated each day and

does not change until the next data creation process. Data from Database2 will be accessed periodically by an external application named Application1. The data from Database2 will be sent to a database named Appl\_Dbl as soon as changes

occur to the data in Database2. Litware plans to use offsite storage for all SQL Server 2014 backups.

#### Business Requirements

You have the following requirements:

Costs for new licenses must be minimized.

Private information that is accessed by Application must be stored in a secure format.

Development effort must be minimized whenever possible.

The storage requirements for databases must be minimized.

System administrators must be able to run real-time reports on disk usage.

The databases must be available if the SQL Server service fails.

Database administrators must receive a detailed report that contains allocation errors and data corruption.

Application developers must be denied direct access to the database tables. Applications must be denied direct access to the tables.

You must encrypt the backup files to meet regulatory compliance requirements.

The encryption strategy must minimize changes to the databases and to the applications.

You need to recommend a solution to allow application users to perform UPDATE operations on the database tables.



The solution must meet the business requirements.

What should you recommend?

- A. Create stored procedures that use EXECUTE AS clauses.
- B. Create a user-defined database role and add users to the role.
- C. Create functions that use EXECUTE AS clauses.
- D. Create a Policy-Based Management Policy.

Correct Answer: A

-EXECUTE AS Clause (Transact-SQL)

In SQL Server you can define the execution context of the following user-defined modules: functions (except inline table-valued functions), procedures, queues, and triggers.

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#### QUESTION 4

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

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#### QUESTION 5

Which feature should you enable and configure so session requests addressed to a specific instance can be allocated to different processor resources based on session request properties?

- A. Resource Governor
- B. Windows System Resource Manager
- C. Processor affinity
- D. I/O affinity

Correct Answer: C

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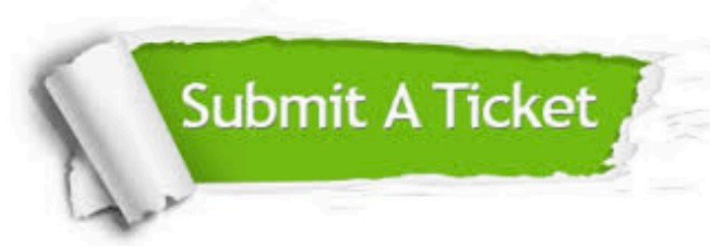
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