



70-764^{Q&As}

Administering a SQL Database Infrastructure

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QUESTION 1

You have a SQL Server instance on a server named Server1. You need to recommend a solution to perform the following tasks every week:

Rebuild the indexes by using a new fill factor.

Run a custom T-SQL command.

Back up the databases.

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

- A. A trigger
- B. An alert
- C. A maintenance plan
- D. Windows PowerShell
- E. A system policy

Correct Answer: C

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

QUESTION 2

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 collect performance metrics on multiple Microsoft SQL Server instances and store the data in a single repository.

You need to examine disk usage, query statistics, and server activity without building custom counters.

What should you use?

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



Correct Answer: D

The data collector is a core component of the data collection platform for SQL Server 2017 and the tools that are provided by SQL Server. The data collector provides one central point for data collection across your database servers and applications. This collection point can obtain data from a variety of sources and is not limited to performance data

QUESTION 3

You need to assign security to dev_role1.

How should you complete the code? To answer, drag the appropriate elements to the correct locations. Each element may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Select and Place:

Elements

- AUTHORIZATION
- CONTROL
- dev_role1
- dev_schema1
- OBJECT_ID
- SCHEMA
- SELECT

Answer Area

[] ON [] : [] | TO []

Correct Answer:

Elements

- AUTHORIZATION
- []
- []
- []
- OBJECT_ID
- []
- SELECT

Answer Area

CONTROL ON SCHEMA [dev_schema1] TO [dev_role1]

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



QUESTION 4

You administer a Microsoft SQL Server 2016 database.

Users report that an application that accesses the database displays an error, but the error does not provide meaningful information.

No entries are found in the SQL Server log or Windows event logs related to the error.

You need to identify the root cause of the issue by retrieving the error message.

What should you do?

- A. Create an Extended Events session by using the sqlserver.error_reported event.
- B. Create a SQL Profiler session to capture all ErrorLog and EventLog events.
- C. Flag all stored procedures for recompilation by using sp_recompile.
- D. Execute sp_who.

Correct Answer: A

Trapping SQL Server Errors with Extended Events

One very useful usage of Extended Events is the ability to trap SQL Server error without the need to have a server trace running (which, btw, is deprecated), with the additional feature of being able to query the data as soon as it comes in.

This means that we a solution to monitor and trap errors as soon as they happen can be easily created, in order to help developers to fix problems as soon as they are detected. This is really, really, really helpful especially in very big

applications, where the code base is quite old and there is no-one really knowing everything of the solution.

To start a Extended Events sessions in order to trap SQL Server errors with severity greater than 10, just run the following script:

```
CREATE EVENT SESSION [error_trap] ON SERVER
```

```
ADD EVENT sqlserver.error_reported
```

Etc.

References: http://sqlblog.com/blogs/davide_mauri/archive/2013/03/17/trapping-sql-server-errors-with-extended-events.aspx

QUESTION 5

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.

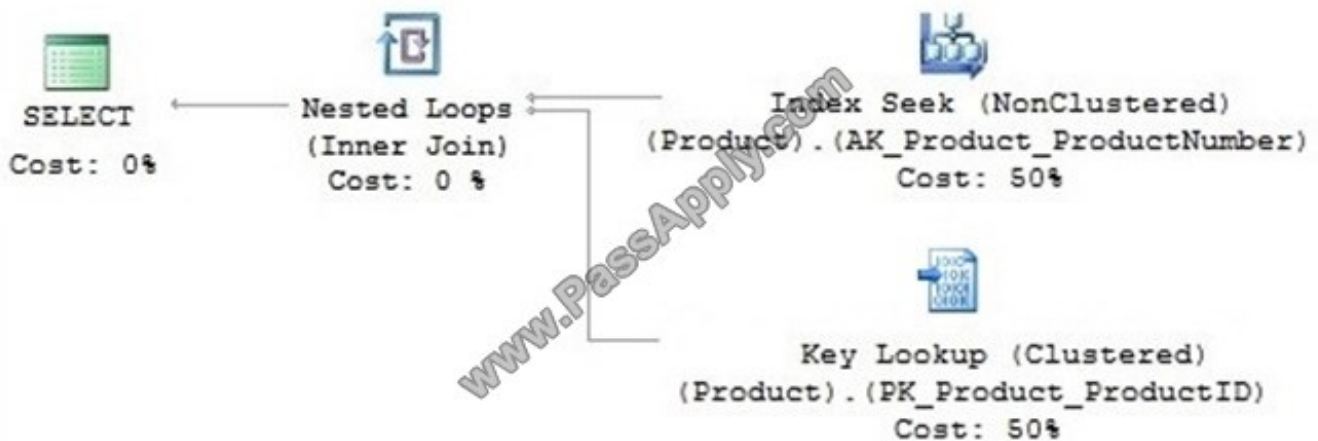
Users report that a query named InventoryQuery1 takes a long time to complete. The query is shown as follows:

```
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.

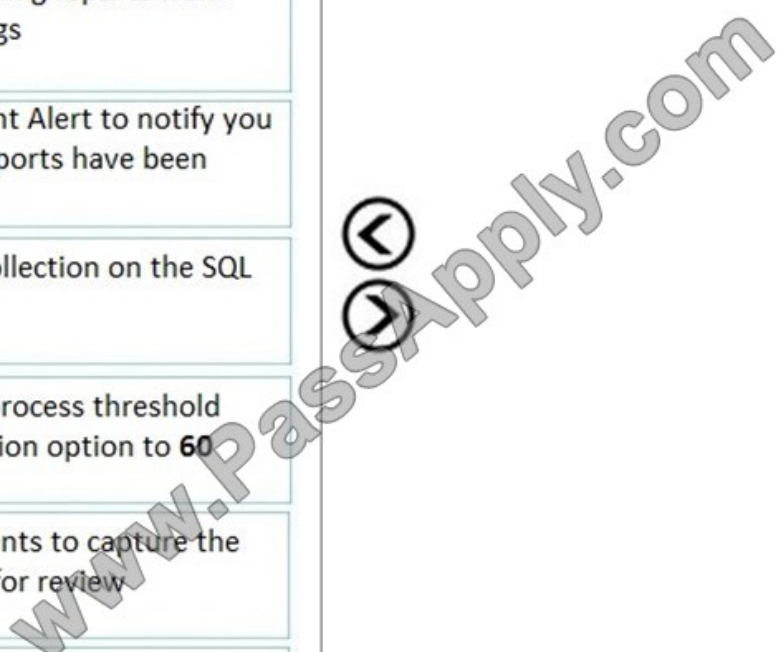






End of repeated scenario

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	Answer Area
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	

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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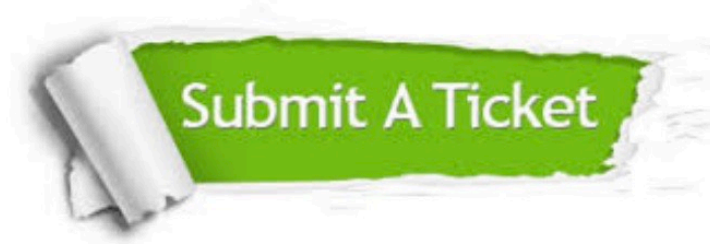
100% Guaranteed Success
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365 Days Free Update
Instant Download After Purchase
24x7 Customer Support
Average 99.9% Success Rate
More than 800,000 Satisfied Customers Worldwide
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