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

## Administering a SQL Database Infrastructure

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**QUESTION 1**

You have a server named Server1 that has 2 processors. You plan to deploy multiple instances of SQL Server 2014 to Server1. Each instance will have multiple databases.

You need to recommend a method to allocate processor time to each database.

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

A. Resource Governor

B. Max Degree of Parallelism

C. Windows System Resource Manager (WSRM)

D. Processor affinity

Correct Answer: A

SQL Server Resource Governor is a feature than 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.

Incorrect Answers:

D: PROCESS AFFINITY Enables hardware threads to be associated with CPUs.

**QUESTION 2**

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.

You have a database that includes a table named Candidate.

You need to update the statistics for a column named Skills in the table and turn off automatic statistics updates for the column.

Solution: You run the following query:

```
USE CustomerDatabase
GO
UPDATE STATISTICS Person.Candidate(Skills)
RESAMPLE, NORECOMPUTE
GO
```

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

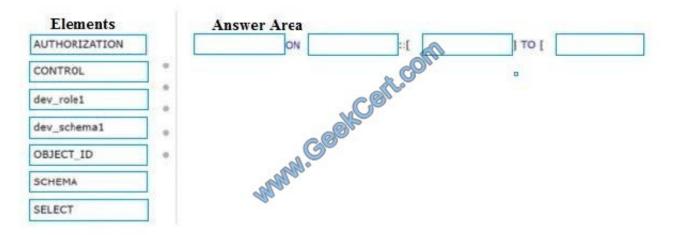RESAMPLE: Update each statistic using its most recent sample rate.

References: https://docs.microsoft.com/en-us/sql/t-sql/statements/update-statistics-transact-sql

**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**

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. 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 wilt contains 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 ad 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.

During performance testing, you discover that database INSERT operations against the Inventory table are slow.

You need to recommend a solution to reduce the amount of time it takes to complete the INSERT operations. What should you recommend?

A. Partition the nonclustered index.

B. Partition the Inventory table.snapshot replication

C. Create a column store index.Master Data Services

D. Drop the clustered index.change data capture

Correct Answer: A

Scenario:

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.

**QUESTION 5**

You administer a Microsoft SQL Server 2016 database instance.

You plan to migrate the database to Windows Azure SQL Database.

You verify that all objects contained in the database are compatible with Windows Azure SQL Database.

You need to ensure that database users and required server logins are migrated to Windows Azure SQL Database.

What should you do?

A. Use the Copy Database wizard.

B. Back up the database from the local server and restore it to Windows Azure SQL Database.

C. Use the Database Transfer wizard.

D. Use SQL Server Management Studio to deploy the database to Windows Azure SQL Database.

Correct Answer: D

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