



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 section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Your company has several Microsoft SQL Server instances. Each instance hosts many databases.

You observe I/O corruption on some of the instances.

You need to perform the following actions:

Identify databases where the PAGE VERIFY option is not set.

Configure full page protection for the identified databases.

Solution: You run the following Transact-SQL statement:

```
SELECT NAME, page_verify_option_desc  
FROM master.sys.databases  
WHERE page_verify_option_desc != 'CHECKSUM'  
GO
```

For each database that you identify, you run the following Transact-SQL statement:

```
ALTER DATABASE <database_name>  
SET PAGE_VERIFY CHECKSUM
```

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

We should set the PAGE_VERIFY Database Option to CHECKSUM.

Note:

CHECKSUM is the Way to Go For Page Verify



This isn't about security?this is about you knowing if changes to SQL Server's files are happening outside of its control, whether by corruption or any other means.

It's very easy to check if you're using CHECKSUM. Take a look at your settings today, and make a plan to move to checksum for any databases which need it! SELECT NAME

```
FROM sys.databases
```

```
WHERE page_verify_option_desc = 'CHECKSUM'
```

References:

<https://docs.microsoft.com/en-us/sql/relational-databases/policy-based-management/set-the-page-verify-database-option-to-checksum?view=sql-server-2017>

QUESTION 2

Overview

Application Overview

Contoso, Ltd., is the developer of an enterprise resource planning (ERP) application.

Contoso is designing a new version of the ERP application. The previous version of the ERP application used SQL Server 2008 R2.

The new version will use SQL Server 2014.

The ERP application relies on an import process to load supplier data. The import process updates thousands of rows simultaneously, requires exclusive access to the database, and runs daily. You receive several support calls reporting

unexpected behavior in the ERP application. After analyzing the calls, you conclude that users made changes directly to the tables in the database.

Tables

The current database schema contains a table named OrderDetails.

The OrderDetails table contains information about the items sold for each purchase order. OrderDetails stores the product ID, quantities, and discounts applied to each product in a purchase order. The product price is stored in a table named

Products. The Products table was defined by using the SQL_Latin1_General_CP1_CI_AS collation.

A column named ProductName was created by using the varchar data type. The database contains a table named Orders.

Orders contains all of the purchase orders from the last 12 months. Purchase orders that are older than 12 months are stored in a table named OrdersOld.

The previous version of the ERP application relied on table-level security.

Stored Procedures

The current version of the database contains stored procedures that change two tables. The following shows the



relevant portions of the two stored procedures:

```
CREATE PROC Sales.Proc1
AS
BEGIN TRAN
UPDATE Sales.Table1 ...
UPDATE Sales.Table2 ...
COMMIT TRAN
GO
```

```
CREATE PROC Sales.Proc2
AS
BEGIN TRAN
UPDATE Sales.Table2 ...
UPDATE Sales.Table1 ...
COMMIT TRAN
GO
```

Customer Problems

Installation Issues

The current version of the ERP application requires that several SQL Server logins be set up to function correctly. Most customers set up the ERP application in multiple locations and must create logins multiple times.

Index Fragmentation Issues

Customers discover that clustered indexes often are fragmented. To resolve this issue, the customers defragment the indexes more frequently. All of the tables affected by fragmentation have the following columns that are used as the

clustered index key:

Column	Data type
id	uniqueidentifier
lastModified	datetime
modifiedBy	Varchar(200)

Backup Issues

Customers who have large amounts of historical purchase order data report that backup time is unacceptable.

Search Issues

Users report that when they search product names, the search results exclude product names that contain accents, unless the search string includes the accent.

Missing Data Issues



Customers report that when they make a price change in the Products table, they cannot retrieve the price that the item was sold for in previous orders.

Query Performance Issues

Customers report that query performance degrades very quickly. Additionally, the customers report that users cannot run queries when SQL Server runs maintenance tasks. Import Issues During the monthly import process, database

administrators receive many support calls from users who report that they cannot access the supplier data. The database administrators want to reduce the amount of time required to import the data.

Design Requirements

File Storage Requirements

The ERP database stores scanned documents that are larger than 2 MB. These files must only be accessed through the ERP application. File access must have the best possible read and write performance.

Data Recovery Requirements

If the import process fails, the database must be returned to its prior state immediately.

Security Requirements

You must provide users with the ability to execute functions within the ERP application, without having direct access to the underlying tables.

Concurrency Requirements

You must reduce the likelihood of deadlocks occurring when Sales.Prod and Sales.Proc2 execute.

You need to recommend a solution that meets the data recovery requirement. What should you include in the recommendation?

- A. A differential backup
- B. A transaction log backup
- C. Snapshot isolation
- D. A database snapshot

Correct Answer: D

QUESTION 3

Your company hosts Microsoft SQL Server instances for customers. One customer requires that the SQL Server instance send an email when an alert is generated in the Sales database.

You need to create the alert.

How should you complete the Transact-SQL statement? To answer, select the appropriate options in the answer area.

Hot Area:



Answer Area

USE

master
msdb
Sales

GO

EXEC

dbo.sp_add_alert
dbo.sp_add_notification
dbo.sp_add-operator

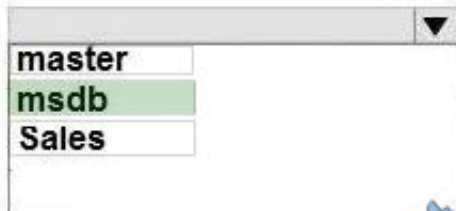
```
@name = N'TestAlert',  
@message_id = 55001,  
@severity = 0  
@notification_message = N'An alert has  
been raised';  
GO
```

Correct Answer:



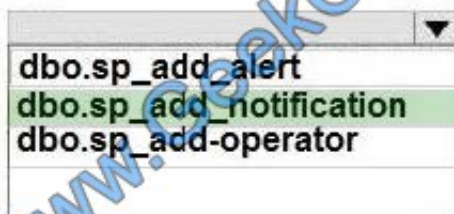
Answer Area

USE



GO

EXEC



```
@name = N'TestAlert',  
@message_id = 55001,  
@severity = 0  
@notification_message = N'An alert has  
been raised';  
GO
```

The following example adds an e-mail notification for the specified alert (Test Alert).

NOTE: This example assumes that Test Alert already exists and that François Ajenstat is a valid operator name.

```
USE msdb ;
```

```
GO
```

```
EXEC dbo.sp_add_notification
```

```
@alert_name = N'Test Alert',
```

```
@operator_name = N'François Ajenstat',
```

```
@notification_method = 1;
```

```
GO
```

References: <https://docs.microsoft.com/en-us/sql/relational-databases/system-stored-procedures/sp-add-notification-transact-sql?view=sql-server-2017>



QUESTION 4

You administer two Microsoft SQL Server 2016 servers named ProdSrv1 and ProdSrv2. ProdSrv1 is configured as a Distributor.

Both servers are configured to use the Windows NT Service virtual accounts for all SQL Services.

You are configuring snapshot replication from ProdSrv1 to ProdSrv2 by using ProdSrv2 as a pull subscriber.

The distribution agent on ProdSrv2 regularly fails, displaying the following error message:

"Cannot access the file. Operating system error code 5 (Access is denied)."

You need to configure the distribution agent by granting only the minimum required access to all accounts.

What should you do?

- A. Configure the Subscriber to use the Local System account.
- B. Configure the SQL Server Agent service to run under the Local System account. Configure the Subscriber to use the SQL Server Agent service account.
- C. Configure the SQL Server Agent service to run under a Windows domain account. Configure the Subscriber to use the SQL Server Agent service account. Grant FULL CONTROL access for the domain account to the ReplData share on ProdSrv1.
- D. Configure the Subscriber to use a Windows domain account. Grant READ access for the domain account to the ReplData share on ProdSrv1.

Correct Answer: D

QUESTION 5

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 migrating a set of databases from an existing Microsoft SQL Server instance to a new instance.

You need to complete the migration while minimizing administrative effort and downtime.

Which should you implement?

- A. log shipping
- B. an Always On Availability Group with all replicas in synchronous-commit mode
- C. a file share witness
- D. a SQL Server failover cluster instance (FCI)
- E. a Windows Cluster with a shared-nothing architecture



F. an Always On Availability Group with secondary replicas in asynchronous-commit mode

G. A Microsoft Azure Stretch Database

Correct Answer: A

SQL Server Log shipping allows you to automatically send transaction log backups from a primary database on a primary server instance to one or more secondary databases on separate secondary server instances. The transaction log backups are applied to each of the secondary databases individually.

References: <https://docs.microsoft.com/en-us/sql/database-engine/log-shipping/about-log-shipping-sql-server?view=sql-server-2017>

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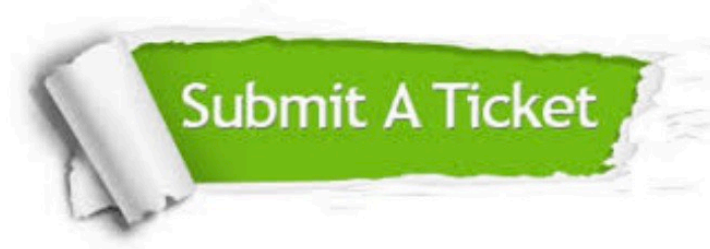
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