



70-462^{Q&As}

Administering Microsoft SQL Server 2012/2014 Databases

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QUESTION 1

You administer all the deployments of Microsoft SQL Server 2012 in your company.

A database contains a large product catalog that is updated periodically.

You need to be able to send the entire product catalog to all branch offices on a monthly basis.

Which configuration should you use?

- A. Two servers configured in the same data center A primary server configured to perform log-shipping every 10 minutes A backup server configured as a warm standby
- B. SQL Server that includes an application database configured to perform transactional replication
- C. Two servers configured in the same data center SQL Server Availability Group configured in Asynchronous-Commit Availability Mode One server configured as an Active Secondary
- D. D Two servers configured in a Windows Failover Cluster in the same data center SQL Server configured as a clustered instance
- E. SQL Server that includes an application database configured to perform snapshot replication
- F. Two servers configured in different data centers SQL Server Availability Group configured in Synchronous-Commit Availability Mode One server configured as an Active Secondary
- G. Two servers configured on the same subnet SQL Server Availability Group configured in Synchronous-Commit Availability Mode
- H. Two servers configured in different data centers SQL Server Availability Group configured in Asynchronous-Commit Availability Mode

Correct Answer: E

QUESTION 2

You administer a Microsoft SQL Server 2012 server.

When transaction logs grow, SQL Server must send an email message to the database administrators.

You need to configure SQL Server to send the email messages.

What should you configure?

- A. SQL Mail
- B. An Extended Events session
- C. Alerts and operators in SQL Server Agent
- D. Policies under Policy-Based Management

Correct Answer: C



QUESTION 3

DRAG DROP

You administer several Microsoft SQL Server 2012 servers.

You want to run scheduled checks to confirm that the databases on the servers are not configured to AutoShrink.

You need to create a policy to check the condition.

What should you do? (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:

The screenshot shows a list of actions in a drag-and-drop interface. The actions are:

- Create a new condition to check that the Database facet SHRINKDB field is set to **TRUE**.
- Create a new condition to check that the Database facet @Autoshrink field is set to **FALSE**.
- Create a new policy to check the condition. Set the evaluation mode to **On Demand**.
- Create a new policy to check the condition. Set the evaluation mode to **Schedule**.
- Create a schedule and enable the policy.
- Export the schedule, the policy, and the condition to SQL files using the management studio SCRIPT AS... CREATE TO option.
- Right-click on the policy in Management Studio and select **Evaluate**.

Correct Answer:



Create a new condition to check that the Database facet SHRINKKDB field is set to **TRUE**.

Create a new condition to check that the Database facet @Autoshrink field is set to **FALSE**.

Create a new policy to check the condition. Set the evaluation mode to **On Demand**.

Create a schedule and enable the policy.

Create a new policy to check the condition. Set the evaluation mode to **Schedule**.

Export the schedule, the policy, and the condition to SQL files using the management studio SCRIPT AS... CREATE TO option.

Right-click on the policy in Management Studio and select **Evaluate**.

QUESTION 4

DRAG DROP

You administer a Microsoft SQL Server database.

You want to import data from a text file to the database.

You need to ensure that the following requirements are met:

Data import is performed by using a stored procedure.

Data is loaded as a unit and is minimally logged.

Which data import command and recovery model should you choose? (To answer, drag the appropriate data import command or recovery model to the appropriate location or locations in the answer area. Each data import command or recovery model 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:



Command/Recovery Model Name	Command/Recovery Model
BCP	Data import command
BULK INSERT	Recovery model
Bulk-logged	
OPENDATASOURCE	
Full	

Correct Answer:

Command/Recovery Model Name	Command/Recovery Model
BCP	Data import command
	Recovery model
OPENDATASOURCE	
Full	

BULK INSERT

Bulk-logged

QUESTION 5

DRAG DROP

You administer a Microsoft SQL Server instance that contains a database of confidential data.

You need to enable Transparent Data Encryption.

Which four 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

Create a master key.

Create a certificate in the user database protected by the master key.

Create a certificate in the master database protected by the master key.

Create a database encryption key in the user database and protect it by a password

Create a database encryption key in the master database and protect it by a password.

Create a database encryption key in the user database and protect it by the certificate.

Create a database encryption key in the master database and protect it by the certificate.

Set the database option to enable encryption.

Answer Area



Correct Answer:



Actions

Create a certificate in the user database protected by the master key.

Create a database encryption key in the user database and protect it by a password

Create a database encryption key in the master database and protect it by a password.

Create a database encryption key in the master database and protect it by the certificate.

Answer Area

Create a master key.

Create a certificate in the master database protected by the master key.

Create a database encryption key in the user database and protect it by the certificate.

Set the database option to enable encryption.

The steps to setup TDE are:

Step 1: Create a master key

We must first create the master key. It must be created in the master database.

Example:

```
USE master;
```

```
GO
```

```
CREATE MASTER KEY ENCRYPTION BY PASSWORD = '1234';
```

```
go
```

Step 2: Create or obtain a certificate protected by the master key

Once the master key is created, we will go ahead and create the actual certificate in the master database, not the user database.

Example:

```
CREATE CERTIFICATE MyServerCert WITH SUBJECT = 'My DEK Certificate';
```

```
go
```



USE AdventureWorks2012;

GO

Step 3: Create a database encryption key and protect it by the certificate

Now, we must utilize our USE command to switch to the database, the user database, that we wish to encrypt. Then we create a connection or association between the certificate that we just created and the actual database.

Example:

USE

GO

CREATE DATABASE ENCRYPTION KEY

WITH ALGORITHM = AES_256

ENCRYPTION BY SERVER CERTIFICATE TDE_Cert;

GO

Step 4: Set the database to use encryption

Example:

ALTER DATABASE AdventureWorks2012

SET ENCRYPTION ON;

GO

References: <https://docs.microsoft.com/en-us/sql/relational-databases/security/encryption/transparent-data-encryption>

QUESTION 6

Note: This question is part of a series of questions that use the same set of 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 administer a Microsoft SQL Server database named Contoso on a server named Server01.

You need to be notified immediately when fatal errors occur on Server01. What should you create?

- A. An Alert
- B. A Server Audit Specification
- C. An Extended Event session
- D. A Resource Pool
- E. A Policy



F. A SQL Profiler Trace

G. A Database Audit Specification

Correct Answer: A

Reference: <http://www.sqlskills.com/blogs/glenn/creating-sql-server-agent-alerts-for-critical-errors/>

QUESTION 7

You create a table that has the StudentCode, SubjectCode, and Marks columns to record mid-year marks for students. The table has marks obtained by 50 students for various subjects.

You need to ensure that the top half of the students arranged by their average marks must be given a rank of 1 and the remaining students must be given a rank of 2.

Which Transact-SQL query should you use?



- A. `SELECT StudentCode as Code,
RANK() OVER (ORDER BY AVG (Marks) DESC) AS Value
FROM StudentMarks
GROUP BY StudentCode`
- B. `SELECT Id, Name, Marks,
DENSE_RANK() OVER (ORDER BY Marks DESC) AS Rank
FROM StudentMarks`
- C. `SELECT StudentCode as Code,
DENSE_RANK() OVER (ORDER BY AVG (Marks) DESC) AS Value
FROM StudentMarks
GROUP BY StudentCode`
- D. `SELECT StudentCode as Code,
NTILE (2) OVER (ORDER BY AVG (Marks) DESC) AS Value
FROM StudentMarks
GROUP BY StudentCode`
- E. `SELECT StudentCode AS Code,Marks AS Value FROM (
SELECT StudentCode, Marks AS Marks,
RANK() OVER (PARTITION BY SubjectCode ORDER BY Marks ASC)
AS Rank
FROM StudentMarks) tmp
WHERE Rank = 1`
- F. `SELECT StudentCode AS Code,Marks AS Value FROM (
SELECT StudentCode, Marks AS Marks,
RANK() OVER (PARTITION BY SubjectCode ORDER BY Marks DESC)
AS Rank
FROM StudentMarks) tmp
WHERE Rank = 1`
- G. `SELECT StudentCode AS Code,Marks AS Value FROM (
SELECT StudentCode, Marks AS Marks,
RANK () OVER (PARTITION BY StudentCode ORDER BY Marks ASC)
AS Rank
FROM StudentMarks) tmp
WHERE Rank = 1`
- H. `SELECT StudentCode AS Code,Marks AS Value FROM (
SELECT StudentCode, Marks AS Marks,
RANKO OVER (PARTITION BY StudentCode ORDER BY Marks DESC)
AS Rank
FROM StudentMarks) tmp
WHERE Rank = 1`

A. OptionA

B. OptionB

C. OptionC



D. OptionD

E. OptionE

F. OptionF

G. OptionG

H. OptionH

Correct Answer: D

QUESTION 8

You are developing a SQL Server Integration Services (SSIS) package.

You need to design a package to change a variable value during package execution by using the least amount of development effort.

What should you use?

A. Expression task

B. Script task

C. Execute SQL task

D. Execute Process task

E. Term Extraction transformation

Correct Answer: A

References: <http://msdn.microsoft.com/en-us/library/hh213137.aspx>

QUESTION 9

You administer a Microsoft SQL Server 2012.

A process that normally runs in less than 10 seconds has been running for more than an hour.

You examine the application log and discover that the process is using session ID 60.

You need to find out whether the process is being blocked.

Which Transact-SQL statement should you use?

A. EXEC sp_who 60

B. SELECT * FROM sys.dm_exec_sessions WHERE sessionid = 60



C. EXEC sp_helpdb 60

D. DBCC INPUTBUFFER (60)

Correct Answer: A

References: <http://msdn.microsoft.com/en-us/library/ms174313.aspx> <http://msdn.microsoft.com/en-us/library/ms176013.aspx> <http://msdn.microsoft.com/en-us/library/ms178568.aspx> <http://msdn.microsoft.com/en-us/library/ms187730.aspx>

QUESTION 10

You are a database administrator for a Microsoft SQL Server instance.

You need to ensure that data can be replicated from a production server to two reporting servers in real time.

You also need to ensure that data on the reporting server is always accessible.

Which solution should you use?

A. Availability Groups

B. Extended Events

C. Snapshot Replication

D. Policy Based Management

Correct Answer: A

The AlwaysOn Availability Groups feature is a high-availability and disaster-recovery solution that provides an enterprise-level alternative to database mirroring. Introduced in SQL Server 2012, AlwaysOn Availability Groups maximizes the availability of a set of user databases for an enterprise. An availability group supports a failover environment for a discrete set of user databases, known as availability databases, that fail over together. An availability group supports a set of read-write primary databases and one to four sets of corresponding secondary databases. Optionally, secondary databases can be made available for read-only access and/or some backup operations.

An availability group fails over at the level of an availability replica. Failovers are not caused by database issues such as a database becoming suspect due to a loss of a data file, deletion of a database, or corruption of a transaction log.

References: [https://docs.microsoft.com/en-us/previous-versions/sql/sql-server-2012/hh510230\(v=sql.110\)](https://docs.microsoft.com/en-us/previous-versions/sql/sql-server-2012/hh510230(v=sql.110))

QUESTION 11

Which of the following statements about the tempdb system database is FALSE?

A. It is a globally available resource for all connected users.

B. It can hold explicitly or implicitly created database objects.

C. It must be sized in accordance with the smallest user-database on the machine.

D. It is created every time the SQL Server instance is restarted.



Correct Answer: C

References: <https://msdn.microsoft.com/en-us/library/ms190768%28v=sql.110%29.aspx>

QUESTION 12



DRAG DROP

You administer two Microsoft SQL Server database servers named ProdSrv1 and ProdSrv2. Each server has a database named Orders.

You need to configure transactional replication from the OrderSummary table in the Orders database on ProdSrv1 to the OrderSummary table in the Orders database on ProdSrv2.

Which four 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
Configure ProdSrv2 as a Publisher.	 
Configure ProdSrv1 as a Distributor.	
Configure a publication of the Order-Summary table on ProdSrv1.	
Configure a publication of the Order-Summary table on ProdSrv2.	
Create a subscription of the publication in the Orders database on ProdSrv1.	
Create a subscription of the publication in the Orders database on ProdSrv2.	
Configure ProdSrv1 as a Publisher.	

Correct Answer:



Actions

Configure ProdSrv2 as a Publisher.

Configure a publication of the Order-Summary table on ProdSrv2.

Create a subscription of the publication in the Orders database on ProdSrv2.

Answer Area

Configure ProdSrv1 as a Distributor.

Configure ProdSrv1 as a Publisher.

Configure a publication of the Order-Summary table on ProdSrv1.

Create a subscription of the publication in the Orders database on ProdSrv1.



Step 1: Configure ProdSrv1 as a Distributor.

Step 2: Configure ProdSrv1 as a Publisher.

Step 3: Configure a publication of the Order-Summary table on ProdSrv1.

Step 4: Create a subscription of the publication in the Orders database on ProdSrv1.

Reference: <https://docs.microsoft.com/en-us/sql/relational-databases/replication/configure-publishing-and-distribution>

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