



70-459^{Q&As}

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QUESTION 1

You have a table named Table1 that contains 1 million rows. Table1 contains a column named Column1 that stores sensitive information. Column1 uses the nvarchar (16) data type.

You have a certificate named Cert1.

You need to replace Column1 with a new encrypted column that uses two-way encryption.

Which code segment should you execute before you remove Column1? To answer, move the appropriate code segments from the list of code segments to the answer area and arrange them in the correct order.

Select and Place:

```
ALTER TABLE Table1
ADD Column2 nvarchar(256);

CLOSE SYMMETRIC KEY;

CREATE SYMMETRIC KEY Key1 WITH ALGORITHM =
SHA1
ENCRYPTION BY CERTIFICATE Cert1;

CREATE CREDENTIAL Cred1 WITH IDENTITY =
'User1', SECRET = 'P@ssw0rd';

OPEN SYMMETRIC KEY Key1
DECRYPTION BY CERTIFICATE Cert1;

CREATE SYMMETRIC KEY Key1 WITH ALGORITHM =
AES_256
ENCRYPTION BY CERTIFICATE Cert1;

UPDATE table1 SET Column2 = EncryptByKey
(Key_GUID('Key1'),Column1);

ALTER TABLE Table1
ADD Column2 varbinary(256);
```

Correct Answer:



```
ALTER TABLE Table1
ADD Column2 nvarchar(256);

CREATE SYMMETRIC KEY Key1 WITH ALGORITHM =
SHA1
ENCRYPTION BY CERTIFICATE Cert1;

CREATE CREDENTIAL Cred1 WITH IDENTITY =
'User1', SECRET = 'P@ssw0rd';

ALTER TABLE Table1
ADD Column2 varbinary(256);

CREATE SYMMETRIC KEY Key1 WITH ALGORITHM =
AES_256
ENCRYPTION BY CERTIFICATE Cert1;

OPEN SYMMETRIC KEY Key1
DECRYPTION BY CERTIFICATE Cert1;

UPDATE table1 SET Column2 = EncryptByKey
(Key_GUID('Key1'),Column1);

CLOSE SYMMETRIC KEY;
```

<http://www.databasejournal.com/features/mssql/article.php/3922881/Column-Level-Encryptionin-SQL-Server.htm>
<http://msdn.microsoft.com/en-us/library/bb510663.aspx> <http://msdn.microsoft.com/en-us/library/ms179331.aspx>
<http://msdn.microsoft.com/en-us/library/ms175491.aspx> <http://msdn.microsoft.com/en-us/library/ms181860.aspx>
<http://msdn.microsoft.com/en-us/library/ms174361.aspx> <http://msdn.microsoft.com/en-us/library/ms190499.aspx>
<http://msdn.microsoft.com/en-us/library/ms177938.aspx> <http://msdn.microsoft.com/en-us/library/ms345262.aspx>
<http://msdn.microsoft.com/en-us/library/ms188357.aspx> <http://msdn.microsoft.com/en-us/library/ms175491.aspx>

QUESTION 2

You have a text file that contains an XML Schema Definition (XSD).

You have a table named Schema1.Table1.

You have a stored procedure named Schema1.Proc1 that accepts an XML parameter named Param1.

You need to store validated XML data in Schema1.Table1. The solution must ensure that only valid XML data is accepted by Param1.

What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Use the modify method to insert the XML schema into each row of the XML column in Table1.
- B. Define an XML column in Table1 by using an XML schema collection.
- C. Declare Param1 var1 as type XML and associate the variable to the XML schema collection.
- D. Create an XML schema collection in the database from the text file.

Correct Answer: ABD

References: <http://msdn.microsoft.com/en-us/library/bb510420.aspx> <http://msdn.microsoft.com/en-us/library/ms187856.aspx> <http://msdn.microsoft.com/en-us/library/ms176009.aspx> <http://msdn.microsoft.com/en-us/library/hh403385.aspx> <http://msdn.microsoft.com/en-us/library/ms184277.aspx>



QUESTION 3

You need to distribute functionality across the three servers.

Which function should you assign to each server? To answer, drag the appropriate functions to the correct servers. Each function 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:

The screenshot shows a drag-and-drop interface with two main panes. The left pane, titled "Functions", contains a list of nine server roles: "AlwaysOn primary replica", "AlwaysOn secondary replica", "file backup server", "witness server", "mirroring primary", "mirroring secondary", "log shipping primary", and "log shipping secondary". The right pane, titled "Answer Area", contains three server names: "HQ office server", "satellite office server", and "cloud server". Next to each server name is a rectangular box labeled "Function". A vertical blue line with a split bar separates the two panes. A large, diagonal watermark "www.Pass4Lead.com" is overlaid across the interface.

Correct Answer:



Functions	Answer Area
	HQ office server AlwaysOn primary replica
	satellite office server AlwaysOn secondary replica
	cloud server file backup server
witness server	
mirroring primary	
mirroring secondary	
log shipping primary	
log shipping secondary	

Note:

* Scenario: The current nightly backups have been failing due to insufficient space on the available drives and manual drive cleanup often needing to happen to get past the errors. Additional space will not be made available for backups on the HQ or satellite servers.

QUESTION 4

You are planning a SQL Server 2012 deployment.

The corporate security policy states that all Windows servers must be installed in an environment that reduces the attack surface.

You plan to deploy two SQL Server instances named SQL1 and SQL2 that must meet the following requirements:

SQL1 will host databases for a line-of-business application that requires 32 GB of RAM SQL2 will host SQL Server Reporting Services and application databases that require 16 GB of RAM. You need to recommend an operating



system for each SQL Server instance. The solution must minimize licensing costs. What should you recommend? To answer, drag the appropriate operating system to the correct server in the answer area.

Select and Place:

Operating Systems	Answer Area
a full installation of Windows Server 2008 R2 Standard	SQL1 Operating system
a Server Core installation of Windows Server 2008 R2 Standard	SQL2 Operating system
a full installation of Windows Server 2008 R2 Enterprise	
a Server Core installation of Windows Server 2008 R2 Enterprise	

Correct Answer:

Operating Systems	Answer Area
	SQL1 a Server Core installation of Windows Server 2008 R2 Standard
	SQL2 a full installation of Windows Server 2008 R2 Standard
a full installation of Windows Server 2008 R2 Enterprise	
a Server Core installation of Windows Server 2008 R2 Enterprise	



QUESTION 5

You need to recommend a change to sp3 to ensure that the procedure continues to execute even if one of the UPDATE statements fails. Which change should you recommend?

- A. Set the IMPLICIT_TRANSACTIONS option to on.
- B. Set the XACT_ABORT option to off.
- C. Set the IMPLICIT_TRANSACTIONS option to off.
- D. Set the XACT_ABORT option to on.

Correct Answer: B

References: <http://msdn.microsoft.com/en-us/library/ms188792.aspx> <http://msdn.microsoft.com/en-us/library/ms188317.aspx> <http://msdn.microsoft.com/en-us/library/ms187807.aspx>

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