



# 70-457<sup>Q&As</sup>

Transition Your MCTS on SQL Server 2008 to MCSA: SQL Server 2012, Part 1

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### QUESTION 1

You administer a Microsoft SQL Server database that supports a banking transaction management application.

You need to retrieve a list of account holders who live in cities that do not have a branch location.

Which Transact-SQL query or queries should you use? (Each correct answer presents a complete solution. Choose all that apply.)

- A. SELECT AccountHolderID FROM AccountHolder WHERE CityID NOT IN (SELECT CityID FROM BranchMaster)
- B. SELECT AccountHolderID FROM AccountHolder WHERE CityID ALL (SELECT CityID FROM BranchMaster)
- C. SELECT AccountHolderID FROM AccountHolder WHERE CityID SOME (SELECT CityID FROM BranchMaster)
- D. SELECT AccountHolderID FROM AccountHolder WHERE CityID ANY (SELECT CityID FROM BranchMaster)

Correct Answer: AB

Reference: <http://msdn.microsoft.com/en-us/library/ms188047.aspx> Reference: <http://msdn.microsoft.com/en-us/library/ms177682.aspx> Reference: <http://msdn.microsoft.com/en-us/library/ms173545.aspx>

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### QUESTION 2

You are developing a database application by using Microsoft SQL Server 2012. An application that uses a database begins to run slowly. You discover that a large amount of memory is consumed by single-use dynamic queries. You need to reduce procedure cache usage from these statements without creating any additional indexes.

What should you do?

- A. Add a HASH hint to the query.
- B. Add a LOOP hint to the query.
- C. Add a FORCESEEK hint to the query.
- D. Add an INCLUDE clause to the index.
- E. Add a FORCESCAN hint to the Attach query.
- F. Add a columnstore index to cover the query.
- G. Enable the optimize for ad hoc workloads option.
- H. Cover the unique clustered index with a columnstore index.
- I. Include a SET FORCEPLAN ON statement before you run the query.
- J. Include a SET STATISTICS PROFILE ON statement before you run the query.
- K. Include a SET STATISTICS SHOWPLAN\_XML ON statement before you run the query.
- L. Include a SET TRANSACTION ISOLATION LEVEL REPEATABLE READ statement before you run the query.



M. Include a SET TRANSACTION ISOLATION LEVEL SNAPSHOT statement before you run the query.

N. Include a SET TRANSACTION ISOLATION LEVEL SERIALIZABLE statement before you run the query.

Correct Answer: G

Reference: <http://msdn.microsoft.com/en-us/library/cc645587.aspx>

### QUESTION 3

You administer a Microsoft SQL Server 2012 database.

You configure Transparent Data Encryption (TDE) on the Orders database by using the following statements:

```
CREATE MASTER KEY ENCRYPTION BY PASSWORD = 'MyPassword1!'
CREATE CERTIFICATE TDE_Certificate WITH SUBJECT = 'TDE_Certificate';

BACKUP CERTIFICATE TDE_Certificate TO FILE = 'd:\TDE_Certificate.cer'
WITH PRIVATE KEY (FILE = 'd:\TDE_Certificate.key', ENCRYPTION BY PASSWORD = 'MyPassword1!');

CREATE DATABASE ENCRYPTION KEY
WITH ALGORITHM = AES_256
ENCRYPTION BY SERVER CERTIFICATE TDE_Certificate;

ALTER DATABASE Orders SET ENCRYPTION ON;
```

You attempt to restore the Orders database and the restore fails. You copy the encryption file to the original location.

A hardware failure occurs and so a new server must be installed and configured.

After installing SQL Server to the new server, you restore the Orders database and copy the encryption files to their original location. However, you are unable to access the database.

You need to be able to restore the database.

Which Transact-SQL statement should you use before attempting the restore?

- A. ALTER DATABASE Master SET ENCRYPTION OFF;
- B. CREATE CERTIFICATE TDE\_Certificate FROM FILE = 'd:\TDE\_Certificate.cer'  
WITH PRIVATE KEY (FILE = 'd:\TDE\_Certificate.key', DECRYPTION BY PASSWORD = 'MyPassword1!');
- C. CREATE CERTIFICATE TDE\_Certificate WITH SUBJECT = 'TDE\_Certificate';  
USE Orders;  
CREATE DATABASE ENCRYPTION KEY  
WITH ALGORITHM = AES\_256  
ENCRYPTION BY SERVER CERTIFICATE TDE\_Certificate;
- D. CREATE CERTIFICATE TDE\_Certificate FROM FILE = 'd:\TDE\_Certificate.cer';

A. B. C. D.

Correct Answer: B



#### QUESTION 4

You administer a Microsoft SQL Server 2012 database that has Trustworthy set to On. You create a stored procedure that returns database-level information from Dynamic Management Views.

You grant User1 access to execute the stored procedure. You need to ensure that the stored procedure returns the required information when User1 executes the stored procedure. You need to achieve this goal by granting the minimum

permissions required.

What should you do? (Each correct answer presents a complete solution. Choose all that apply.)

- A. Create a SQL Server login that has VIEW SERVER STATE permissions. Create an application role and a secured password for the role.
- B. Modify the stored procedure to include the EXECUTE AS OWNER statement. Grant VIEW SERVER STATE permissions to the owner of the stored procedure.
- C. Create a SQL Server login that has VIEW SERVER STATE permissions. Modify the stored procedure to include the EXECUTE AS {newlogin} statement.
- D. Grant the db\_owner role on the database to User1.
- E. Grant the sysadmin role on the database to User1.

Correct Answer: BC

Reference: <http://msdn.microsoft.com/en-us/library/ms187861.aspx>

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#### QUESTION 5

You develop a Microsoft SQL Server 2012 server database that supports an application. The application contains a table that has the following definition:

```
CREATE TABLE Inventory (  
ItemID int NOT NULL PRIMARY KEY,  
ItemsInStore int NOT NULL,  
ItemsInWarehouse int NOT NULL)
```

You need to create a computed column that returns the sum total of the ItemsInStore and ItemsInWarehouse values for each row.

The new column is expected to be queried heavily, and you need to be able to index the column.

Which Transact-SQL statement should you use?

- A. ALTER TABLE Inventory ADD TotalItems AS ItemsInStore + ItemsInWarehouse
- B. ALTER TABLE Inventory ADD TotalItems AS ItemsInStore + ItemsInWarehouse PERSISTED
- C. ALTER TABLE Inventory ADD TotalItems AS SUM(ItemsInStore, ItemsInWarehouse) PERSISTED



D. ALTER TABLE Inventory ADD TotalItems AS SUM(ItemsInStore, ItemsInWarehouse)

Correct Answer: B

Reference: <http://msdn.microsoft.com/en-us/library/ms174979.aspx>

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