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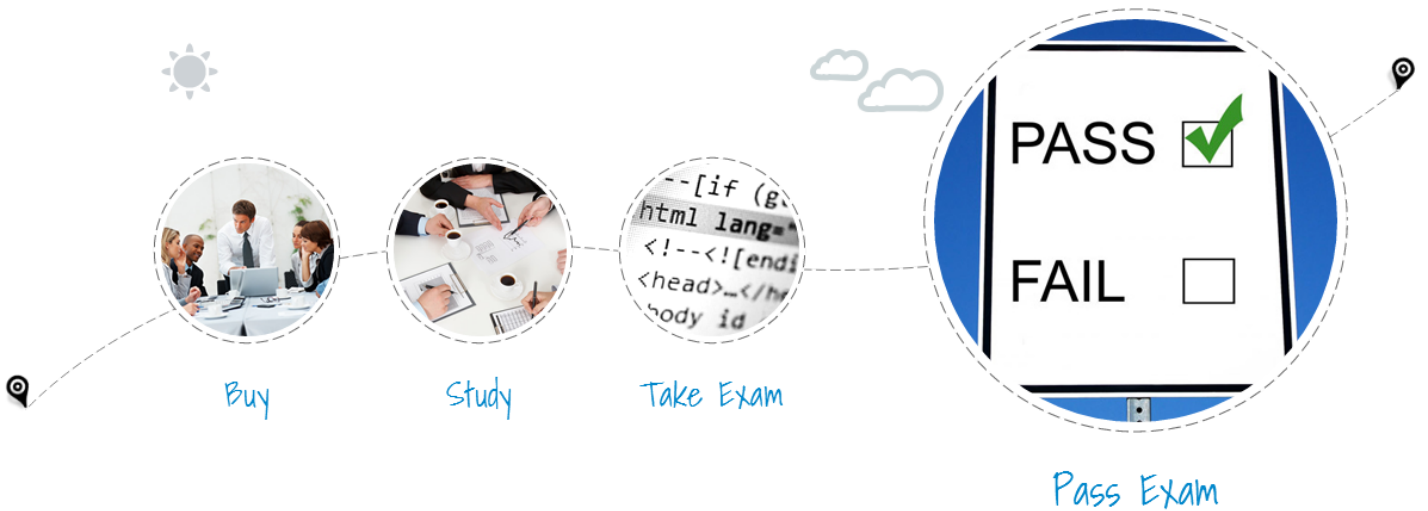
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Exam : **070-463**

Title : Implementing a Data
Warehouse with Microsoft
SQL Server 2012/2014

Vendor : Microsoft

Version : DEMO

NO.1 You are designing a SQL Server Integration Services (SSIS) package that uploads a file to a table named Orders in a SQL Azure database.

The company's auditing policies have the following requirements:

*An entry must be written to a dedicated SQL Server log table named OrderLog.

*The entry must be written as soon as the file upload task completes.

You need to meet the company's policy requirements. Which event handler should you use?

- A. OnProgress
- B. OnPostExecute
- C. OnInformation
- D. OnComplete

Answer: B

Reference: <http://msdn.microsoft.com/en-us/library/ms140223.aspx>

NO.2 You are developing a SQL Server Integration Services (SSIS) package.

To process complex scientific data originating from a SQL Azure database, a custom task component is added to the project.

You need to ensure that the custom component is deployed on a test environment correctly.

What should you do?

- A. Open a command prompt and run the gacutil command.
- B. Open a command prompt and execute the package by using the SQL Log provider and running the dtexecui.exe utility.
- C. Use an msi file to deploy the package on the server.
- D. Open a command prompt and run the dtexec /rep /conn command.
- E. Run the dtutil command to deploy the package to the SSIS catalog and store the configuration in SQL Server.
- F. Open a command prompt and run the dtexec /dumperror /conn command.
- G. Open a command prompt and run the dtutil /copy command.
- H. Create a reusable custom logging component and use it in the SSIS project.
- I. Configure the SSIS solution to use the Project Deployment Model.
- J. Add an OnError event handler to the SSIS project.
- K. Configure the output of a component in the package data flow to use a data tap.

Answer: A

Reference:

<http://msdn.microsoft.com/en-us/library/ms403356.aspx>

NO.3 You are reviewing the design of a student dimension table in an existing data warehouse hosted on SQL Azure.

The current dimension design does not allow the retention of historical changes to student attributes such as ParentOccupation.

You need to redesign the dimension to enable the full historical reporting of changes to multiple student attributes including ParentOccupation.

What should you do?

- A. Add CurrentValue and PreviousValue columns to the student dimension.
- B. Add an IsCurrent column to the student dimension.

C. Add StartDate and EndDate columns to the student dimension.

D. Enable Snapshot Isolation on the data warehouse.

Answer: C

Explanation

Adding a start and end date will give you this ability as when a record is inserted and given a start and end date, you'll have the ability to determine when they were active therefore giving you a retention of historical changes

NO.4 You are developing a SQL Server Integration Services (SSIS) package.

The package sources data from an HTML web page that lists product stock levels.

You need to implement a data flow task that reads the product stock levels from the HTML web page.

Which data flow sources should you use? Select Two

A. Raw File source

B. Flat File source

C. XML source

D. Custom source component

E. script component

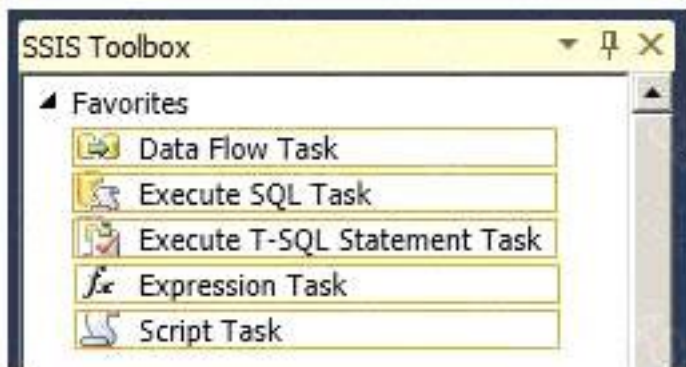
Answer: D,E

NO.5 You are developing a SQL Server Integration Services (SSIS) package.

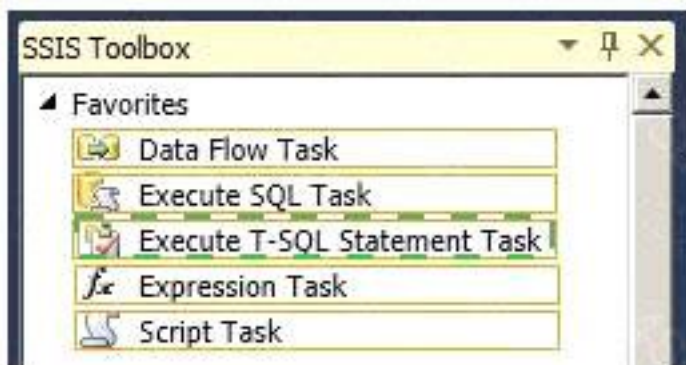
The package must run a parameterized query against a Windows Azure SQL Database database.

You need to use the least amount of development effort to meet the package requirement.

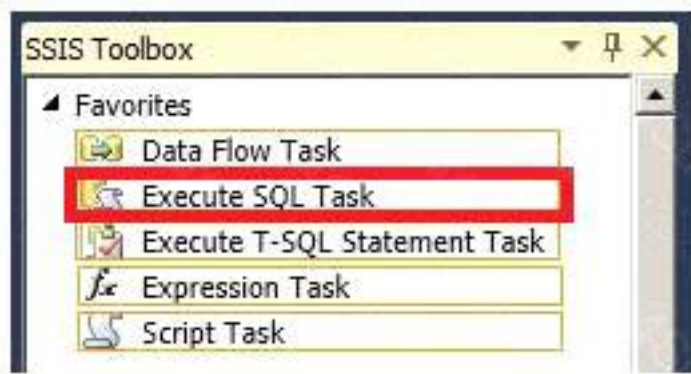
Which task should you use? (To answer, select the appropriate task in the answer area.)



Answer:



Explanation



Running Parameterized SQL Commands

SQL statements and stored procedures frequently use input parameters, output parameters, and return codes.

The Execute SQL task supports the Input, Output, and ReturnValue parameter types. You use the Input type for input parameters, Output for output parameters, and ReturnValue for return codes.

Ref: <http://msdn.microsoft.com/en-us/library/ms141003.aspx>

In SSIS there are two tasks that can be used to execute SQL statements: Execute T-SQL Statement and Execute SQL. What is the difference between the two?

The Execute T-SQL Statement task tasks less memory, parse time, and CPU time than the Execute SQL task, but is not as flexible. If you need to run parameterized queries, save the query results to variables, or use property expressions, you should use the Execute SQL task instead of the Execute T-SQL Statement task.

Ref: <http://www.sqlservercentral.com/blogs/jamesserra/2012/11/08/ssis-execute-sql-task-vs-execute-t-sql-statement-task/>

NO.6 You have a data warehouse that contains all of the sales data for your company.

You need to design a SQL Server Integration Services (SSIS) package that reports the average value for the one of the columns in a data flow.

What should you add to the package?

- A. Data profiling tasks that have Column value Distribution Profile.
- B. Data profiling tasks that have a Column Null profile.
- C. Data Profiling tasks that have Column Statistics profile.
- D. the Data Mining Query task.

Answer: A

NO.7 You are designing a SQL Server Integration Services (SSIS) package configuration strategy.

The package configuration must meet the following requirements:

*Include multiple properties in a configuration.

*Support several packages with different configuration settings.

You need to select the appropriate configuration. Which configuration type should you use?

To answer, select the appropriate option from the drop-down list in the dialog box.

Package Configuration Wizard

Select Configuration Type

You can select the type of configuration to create.

SSIS supports a variety of sources to use for setting the properties of objects.

Configuration type:

Specify configuration settings directly

Configuration file name:

Configuration location is stored in an environment variable

Environment variable:

- SQL Server
- XML configuration file**
- Environment variable
- Registry entry
- Parent package variable
- SQL Server

Answer:

Package Configuration Wizard

Select Configuration Type

You can select the type of configuration to create.

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Configuration type:

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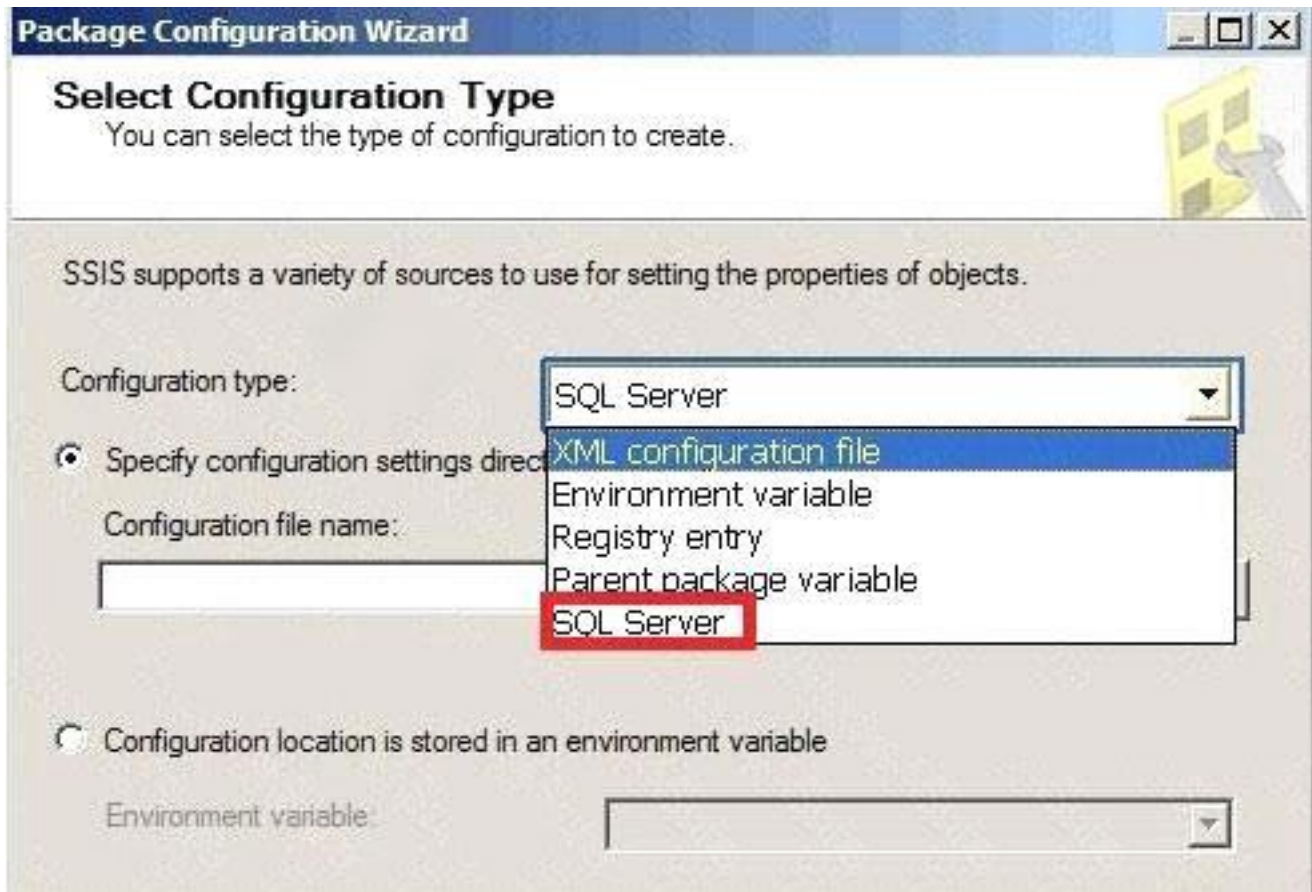
Configuration file name:

Configuration location is stored in an environment variable

Environment variable:

- SQL Server
- XML configuration file**
- Environment variable
- Registry entry
- Parent package variable
- SQL Server**

Explanation



NO.8 A SQL Server Integration Services (SSIS) package imports daily transactions from several files into a SQL Server table named Transaction. Each file corresponds to a different store and is imported in parallel with the other files. The data flow tasks use OLE DB destinations in fast load data access mode.

The number of daily transactions per store can be very large and is growing. The Transaction table does not have any indexes.

You need to minimize the package execution time.

What should you do?

- A. Run the package in Performance mode.
- B. Increase the value of the Row per Batch property.
- C. Partition the table by day and store.
- D. Create a clustered index on the Transaction table.

Answer: B

Explanation

* Data Access Mode - This setting provides the 'fast load' option which internally uses a BULK INSERT statement for uploading data into the destination table instead of a simple INSERT statement (for each single row) as in the case for other options.

* BULK INSERT parameters include:

ROWS_PER_BATCH =rows_per_batch

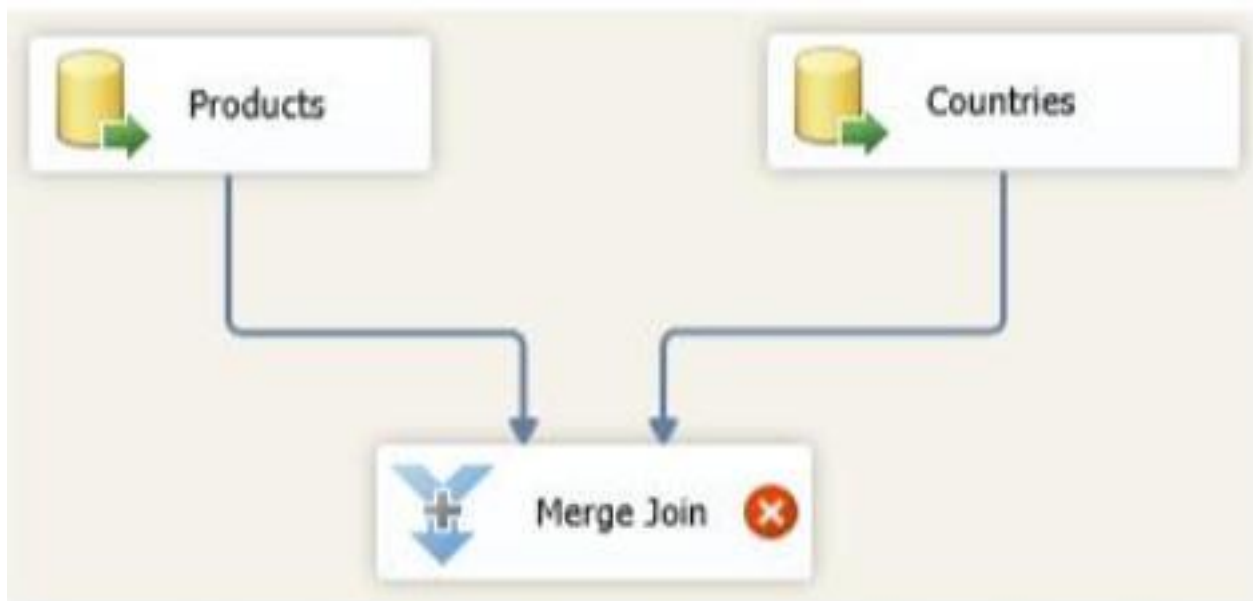
Indicates the approximate number of rows of data in the data file.

By default, all the data in the data file is sent to the server as a single transaction, and the number of rows in the batch is unknown to the query optimizer. If you specify ROWS_PER_BATCH (with a value > 0) the server uses this value to optimize the bulk-import operation. The value specified for

ROWS_PER_BATCH should approximately the same as the actual number of rows.

NO.9 You are developing a data flow transformation to merge two data sources. One source contains product data and the other source contains data about the country in which the product was manufactured. Both data sources contain a two-character CountryCode column and both use SQL Server. Both data sources contain an ORDER BY clause to sort the data by the CountryCode column in ascending order.

You use a Merge Join transformation to join the data.



You need to ensure that the Merge Join transformation works correctly without additional transformations.

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

- A.** Set the MaxBuffersPerInput property on the Merge Join transformation to 2.
- B.** set the appropriate SortKeyPosition properties on the data sources.
- C.** set the IsSorted property on both data sources.
- D.** set the ValidateExternalMetaData property on the Merge Join transformation to True.

Answer: B,C

Explanation

References:

<http://msdn.microsoft.com/en-us/library/ms141775.aspx>

<http://msdn.microsoft.com/en-us/library/ms137653.aspx>

<http://siddhumehta.blogspot.com/2009/05/validateexternalmetadata-property.html>

<http://msdn.microsoft.com/en-us/library/ms135950.aspx>

NO.10 You are the administrator of a server that hosts Data Quality Server for a large retail company.

The server had a hardware failure during business hours.

You need to restore the server that hosts Data Quality Server to another server. You have a recent backup of all the required databases.

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

- A.** Restore the DQS_MAIN, DQS_PROJECTS, and DQS_STAGING_DATA databases to another server as

soon as possible.

B. Execute the DQS_MAIN.internal_core.InitServer stored procedure with the appropriate parameter.

C. Restore only the DQS_MAIN and DQS_STAGING_DATA databases to another server as soon as possible.

D. Execute the DQS_MAIN.internal_core.RestoreDQDatabases stored procedure with the appropriate parameter.

Answer: A,D

Explanation

Steps to restore DQS Databases:

* Restore DQS_MAIN database.

* Restore the DQS_PROJECTS database.

* Restore the DQS_STAGING_DATA database.

* In Object Explorer, right-click the server, and then click

* In the Query Editor window, copy the following SQL statements, and replace <PASSWORD> with the password that you provided during the DQS installation for the database master key:

```
USE [DQS_MAIN]
```

```
GO
```

```
EXECUTE [internal_core].[RestoreDQDatabases] '<PASSWORD>'
```

```
GO
```

* Press F5 to execute the statements. Check the Results pane to verify that the statements have executed successfully.

Note:

* Backup and restore of SQL Server databases are common operations that database administrators perform for preventing loss of data in a case of disaster by recovering data from the backup databases. Data Quality Server is primarily implemented by two SQL Server databases: DQS_MAIN and DQS_PROJECTS. The backup and restore procedures of the Data Quality Services (DQS) databases are similar to any other SQL Server databases.

Ref: [http://msdn.microsoft.com/en-gb/library/hh213068\(v=sql.110\).aspx](http://msdn.microsoft.com/en-gb/library/hh213068(v=sql.110).aspx)

NO.11 You deploy a server that has SQL Server installed.

You deploy a SQL Server Integration Services (SSIS) package to the server.

You need to automate the execution of the package. The solution must ensure that you receive a notification if the package fails to execute.

In which order should you perform all the actions? To answer, move all of the actions to the answer area and arrange them in the correct order.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Actions

Create a SQL Server Agent job.

Create an operation.

Configure Database Mail.



Answer Area

Answer:

Actions

Create a SQL Server Agent job.

Create an operation.

Configure Database Mail.



Answer Area

Configure Database Mail.

Create a SQL Server Agent job.

Create an operation.

Explanation

Answer Area

Configure Database Mail.

Create a SQL Server Agent job.

Create an operation.

Here are the steps:

References:

<http://www.sherweb.com/blog/how-to-set-up-database-mail-for-sql-server-job-failures/>

NO.12 You are designing a data warehouse with two fact tables. The first table contains sales per month and the second table contains orders per day.

Referential integrity must be enforced declaratively.

You need to design a solution that can join a single time dimension to both fact tables.

What should you do?

- A. Merge the fact tables.
- B. Create a surrogate key for the time dimension.
- C. Join the two fact tables.
- D. Create a time dimension that can join to both fact tables at their respective granularity.

Answer: D

Explanation

References:

<http://msdn.microsoft.com/en-us/library/ms174537.aspx>

<http://technet.microsoft.com/en-us/library/ms174832.aspx>

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

<http://decipherinfosys.wordpress.com/2007/02/01/surrogate-keys-vs-natural-keys-for-primary-key/>

<http://www.agiledata.org/essays/keys.html>

<http://www.databasejo>

<urnal.com/features/mssql/article.php/3922066/SQL-Server-Natural-Key-Verses-Surrogate-Key.htm>

<http://www.jamesserra.com/archive/2012/01/surrogate-keys/>

NO.13 You are developing a project that contains multiple SQL Server Integration Services (SSIS) packages. The packages will be deployed to the SSIS catalog. One of the steps in each package accesses an FTP site to download data files.

You create project parameters to store the username and password that are used to access the FTP site.

You need to ensure that the username and password values are encrypted when they are deployed.

What should you do?

- A. Convert the parameters to package parameters.
- B. Set the Sensitive property of the parameters to True.
- C. Set the ProtectionLevel property of the package to EncryptSensitiveWithPassword.
- D. Convert the project to the Legacy Deployment model.

Answer: B

NO.14 You are deploying a new SQL Server Integration Services (SSIS) package to five servers.

The package must meet the following requirements:

*.NET Common Language Runtime (CLR) integration in SQL Server must not be enabled.

*The Connection Managers used in the package must be configurable without editing and redeploying the package.

*The deployment procedure must be automated as much as possible.

*Performance must be maximized.

You need to set up a deployment strategy that meets the requirements.
What should you do?

- A. Run the dtutil command to deploy the package to the SSIS catalog and store the configuration in SQL Server.
- B. Open a command prompt and run the dtexec /dumperror /conn command.
- C. Use an msi file to deploy the package on the server.
- D. Open a command prompt and run the dtutil /copy command.
- E. Open a command prompt and run the gacutil command.
- F. Open a command prompt and execute the package by using the SQL Log provider and running the dtexecui.exe utility.
- G. Configure the output of a component in the package data flow to use a data tap.
- H. Add an OnError event handler to the SSIS project.
- I. Open a command prompt and run the dtexec /rep /conn command.
- J. Create a reusable custom logging component and use it in the SSIS project.
- K. Configure the SSIS solution to use the Project Deployment Model.

Answer: D

NO.15 You are completing the installation of the Data Quality Server component of SQL Server Data Quality Services (DQS).

You need to complete the post-installation configuration.
What should you do?

- A. Make the data available for DQS operations.
- B. Install ADOMNET.
- C. Run the Data Quality Server Installer.
- D. Install the Analysis Services OLE DB Provider.

Answer: C

Explanation

References:

<http://msdn.microsoft.com/en-us/library/ff877917.aspx>

<http://msdn.microsoft.com/en-us/library/gg492277.aspx>

NO.16 Which of the following T-SQL functions is not very useful for capturing lineage information?

- A. SUSER_SNAME()
- B. APP_NAME()
- C. DEVICE_STATUS()
- D. USER_NAME()

Answer: C