

## IT ACADEMY 70-463.premium.exam.220q

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File Version: 19.0



**Exam code: 70-463**

**Exam name: Implementing a Data Warehouse with Microsoft SQL Server 2012**

**Version 19.0**

## 70-463

### QUESTION 1

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 sales transaction data.

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. Set the Sensitive property of the parameters to True.
- B. Set the ProtectionLevel property of the package to EncryptSensitiveWithUserKey.
- C. Change the parameters to package parameters.
- D. Change the project to the Legacy Deployment model.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 2

You develop a SQL Server Integration Services (SSIS) package that imports SQL Azure data into a data warehouse every night.

The SQL Azure data contains many misspellings and variations of abbreviations. To import the data, a developer used the Fuzzy Lookup transformation to choose the closest-matching string from a reference table of allowed values. The number of rows in the reference table is very large. If no acceptable match is found, the Fuzzy Lookup transformation passes a null value.

The current setting for the Fuzzy Lookup similarity threshold is 0.50.  
Many values are incorrectly matched.

You need to ensure that more accurate matches are made by the Fuzzy Lookup transformation without degrading performance.

What should you do?

- A. Change the Exhaustive property to True.
- B. Change the similarity threshold to 0.55.
- C. Change the similarity threshold to 0.40.
- D. Increase the maximum number of matches per lookup.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

<http://msdn.microsoft.com/en-us/library/ms137786.aspx>

### QUESTION 3

You install a SQL Server 2012 database engine instance on a production server. A month later, you install SQL Server 2012 Integration Services (SSIS).

You must develop an SSIS project and deploy it to the server by using the Project Deployment model.

Operations Log records that are outside the configured retention period must be cleaned automatically.

You need to create the SSIS catalog on the production server. What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Enable XP Command Shell.
- B. Enable CLR Integration.
- C. Enable OLE Automation.
- D. Start the SQL Server Browser service.
- E. Enable Cross Database Ownership Chaining
- F. Start the SQL Server Agent service
- G. Enable Ad Hoc Remote Queries.

**Correct Answer:** BF

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Ref: [http://msdn.microsoft.com/en-us/library/gg471509\(v=sql.110\).aspx](http://msdn.microsoft.com/en-us/library/gg471509(v=sql.110).aspx)

#### **QUESTION 4**

A SQL Server Integration Services (SSIS) package on a computer is failing periodically in production. The package was created less than one year ago and was deployed to the SSIS catalog.

Sometimes the package is started on a SQL Agent schedule; sometimes the package is started manually by an SSIS developer by using the Object Explorer in SQL Server Management Studio.

You need to identify the authenticated user responsible for starting the package each time it failed in the past.

Where can you find this information?

- A. the SQL Server Log
- B. the SSISDB.[catalog].[executions] view
- C. the SSISDB.[catalog].[event\_messages] view
- D. the SQL Agent Job History
- E. the SQL Agent Error Log

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 5**

You maintain a SQL Server Integration Services (SSIS) package. The package was developed by using SQL Server 2008 Business Intelligence Development Studio (BIDS). The package includes custom scripts that must be upgraded.

You need to upgrade the package to SQL Server 2012.

Which tool should you use?

- A. SSIS Upgrade Wizard in SQL Server 2008 BIDS
- B. SSIS Upgrade Wizard in SQL Server Data Tools
- C. SQL Server DTExecUI utility (dtexecui.exe)
- D. SQL Server dtexec utility (dtexec.exe)

**Correct Answer:** B

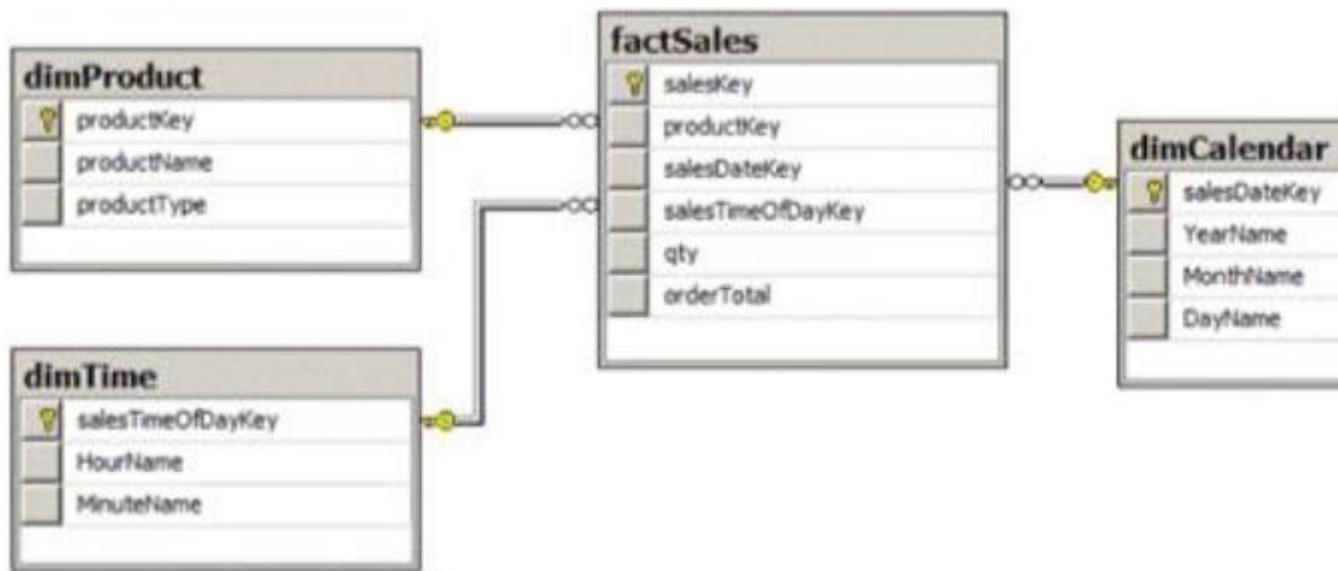
**Section:** (none)

## Explanation

### Explanation/Reference:

#### QUESTION 6

You are reviewing the design of an existing fact table named factSales, which is loaded from a SQL Azure database by a SQL Server Integration Services (SSIS) package each day. The fact table has approximately 1 billion rows and is dimensioned by product, sales date, and sales time of day.



The database administrator is concerned about the growth of the database. Users report poor reporting performance against this database. Reporting requirements have recently changed and the only remaining report that uses this fact table reports sales by product name, sale month, and sale year. No other reports will be created against this table.

You need to reduce the report processing time and minimize the growth of the database.

What should you do?

- A. Partition the table by product type.
- B. Create a view over the fact table to aggregate sales by month.
- C. Change the granularity of the fact table to month.
- D. Create an indexed view over the fact table to aggregate sales by month.

**Correct Answer: C**

**Section: (none)**

**Explanation**

### Explanation/Reference:

#### QUESTION 7

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. Create a time mapping table.
- B. Change the level of granularity in both fact tables to be the same.

- C. Merge the fact tables.
- D. Create a view on the sales table.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 8**

You are designing a data warehouse for a software distribution business that stores sales by software title. It stores sales targets by software category. Software titles are classified into subcategories and categories. Each software title is included in only a single software subcategory, and each subcategory is included in only a single category. The data warehouse will be a data source for an Analysis Services cube.

The data warehouse contains two fact tables:

- factSales, used to record daily sales by software title
- factTarget, used to record the monthly sales targets by software category

Reports must be developed against the warehouse that reports sales by software title, category and subcategory, and sales targets.

You need to design the software title dimension. The solution should use as few tables as possible while supporting all the requirements.

What should you do?

- A. Create three software tables, dimSoftware, dimSoftwareCategory, and dimSoftwareSubcategory and a fourth bridge table that joins software titles to their appropriate category and subcategory table records with foreign key constraints. Direct the cube developer to use key granularity attributes.
- B. Create three software tables, dimSoftware, dimSoftwareCategory, and dimSoftwareSubcategory. Connect factSales to all three tables and connect factTarget to dimSoftwareCategory with foreign key constraints. Direct the cube developer to use key granularity attributes.
- C. Create one table, dimSoftware, which contains Software Detail, Category, and Subcategory columns. Connect factSales to dimSoftware with a foreign key constraint. Direct the cube developer to use a non-key granularity attribute for factTarget.
- D. Create two tables, dimSoftware and dimSoftwareCategory. Connect factSales to dimSoftware and factTarget to dimSoftwareCategory with foreign key constraints. Direct the cube developer to use key granularity attributes.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 9**

You are designing a data warehouse hosted on SQL Azure. The data warehouse currently includes the dimUser and dimDistrict dimension tables and the factSales fact table. The dimUser table contains records for each user permitted to run reports against the warehouse; and the dimDistrict table contains information about sales districts. The system is accessed by users from certain districts, as well as by area supervisors and users from the corporate headquarters.

You need to design a table structure to ensure that certain users can see sales data for only certain districts. Some users must be permitted to see sales data from multiple districts.

What should you do?

- A. Add a district column to the dimUser table.
- B. Partition the factSales table on the district column.
- C. Create a userDistrict table that contains primary key columns from the dimUser and dimDistrict tables.

D. For each district, create a view of the factSales table that includes a WHERE clause for the district.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 10

You are reviewing the design of a customer dimension table in an existing data warehouse hosted on SQL Azure.

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

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

What should you do?

- A. Add StartDate and EndDate columns to the customer dimension.
- B. Add an IsCurrent column to the customer dimension.
- C. Enable Snapshot Isolation on the data warehouse.
- D. Add CurrentValue and PreviousValue columns to the customer dimension.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 11

You are implementing the indexing strategy for a fact table in a data warehouse. The fact table is named Quotes. The table has no indexes and consists of seven columns:

- [ID]
- [QuoteDate]
- [Open]
- [Close]
- [High]
- [Low]
- [Volume]

Each of the following queries must be able to use a columnstore index:

- SELECT AVG ([Close]) AS [AverageClose] FROM Quotes WHERE [QuoteDate] BETWEEN '20100101' AND '20101231'.
- SELECT AVG([High] - [Low]) AS [AverageRange] FROM Quotes WHERE [QuoteDate] BETWEEN '20100101' AND '20101231'.
- SELECT SUM([Volume]) AS [SumVolume] FROM Quotes WHERE [QuoteDate] BETWEEN '20100101' AND '20101231'.

You need to ensure that the indexing strategy meets the requirements. The strategy must also minimize the number and size of the indexes.

What should you do?

- A. Create one columnstore index that contains [ID], [Close], [High], [Low], [Volume], and [QuoteDate].
- B. Create three columnstore indexes:
  - One containing [QuoteDate] and [Close]
  - One containing [QuoteDate], [High], and [Low]

- One containing [QuoteDate] and [Volume]
- C. Create one columnstore index that contains [QuoteDate], [Close], [High], [Low], and [Volume].
- D. Create two columnstore indexes:  
One containing [ID], [QuoteDate], [Volume], and [Close] One containing [ID], [QuoteDate], [High], and [Low]

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <http://msdn.microsoft.com/en-us/library/gg492088.aspx> Reference: <http://msdn.microsoft.com/en-us/library/gg492153.aspx>

### **QUESTION 12**

You are designing an enterprise star schema that will consolidate data from three independent data marts. One of the data marts is hosted on SQL Azure.

Most of the dimensions have the same structure and content. However, the geography dimension is slightly different in each data mart.

You need to design a consolidated dimensional structure that will be easy to maintain while ensuring that all dimensional data from the three original solutions is represented.

What should you do?

- A. Create a junk dimension for the geography dimension.
- B. Implement change data capture.
- C. Create a conformed dimension for the geography dimension.
- D. Create three geography dimensions.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 13**

To facilitate the troubleshooting of SQL Server Integration Services (SSIS) packages, a logging methodology is put in place.

The methodology has the following requirements:

- The deployment process must be simplified.
- All the logs must be centralized in SQL Server.
- Log data must be available via reports or T-SQL.
- Log archival must be automated.

You need to configure a logging methodology that meets the requirements while minimizing the amount of deployment and development effort.

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. Add an OnError event handler to the SSIS project.
- D. Use an msi file to deploy the package on the server.
- E. Configure the output of a component in the package data flow to use a data tap.

- F. Run the dtutil command to deploy the package to the SSIS catalog and store the configuration in SQL Server.
- G. Open a command prompt and run the dtexec /rep /conn command.
- H. Open a command prompt and run the dtutil /copy command.
- I. Open a command prompt and run the dtexec /dumperror /conn command.
- J. Configure the SSIS solution to use the Project Deployment Model.
- K. Create a reusable custom logging component and use it in the SSIS project.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference:

<http://msdn.microsoft.com/en-us/library/ms140246.aspx> [http://msdn.microsoft.com/en-us/library/ms180378\(v=sql.110\).aspx](http://msdn.microsoft.com/en-us/library/ms180378(v=sql.110).aspx)

#### **QUESTION 14**

You are developing a SQL Server Integration Services (SSIS) project that copies a large amount of rows from a SQL Azure database. The project uses the Package Deployment Model. This project is deployed to SQL Server on a test server.

You need to ensure that the project is deployed to the SSIS catalog on the production server. What should you do?

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

**Correct Answer:** I

**Section:** (none)

**Explanation**

**Explanation/Reference:**

References:

<http://msdn.microsoft.com/en-us/library/hh231102.aspx> <http://msdn.microsoft.com/en-us/library/hh213290.aspx> <http://msdn.microsoft.com/en-us/library/hh213373.aspx>

#### **QUESTION 15**

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:

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

### **QUESTION 16**

You develop and deploy a SQL Server Integration Services (SSIS) package.  
The package is stored in the file system.

You need to execute the package without importing it to the SSIS server. What should you use to execute the package? (Each correct answer presents a complete solution.  
Choose all that apply.)

- A. catalog.start\_package
- B. dtexec
- C. SQL Server Management Studio
- D. SQL Server Agent

**Correct Answer:** BD

**Section:** (none)

**Explanation**

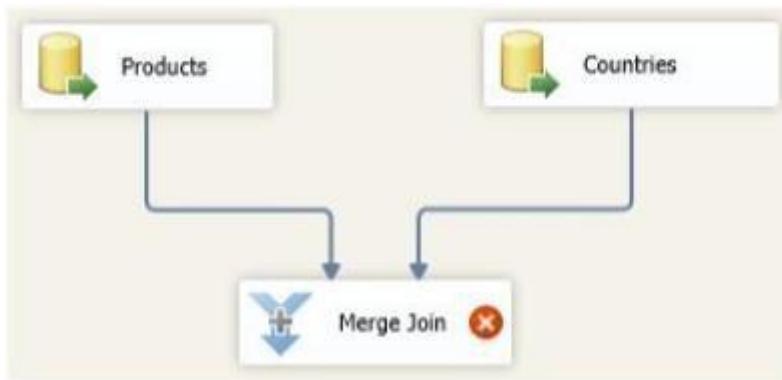
**Explanation/Reference:**

Ref: [http://technet.microsoft.com/en-us/library/ms141708\(v=sql.110\).aspx](http://technet.microsoft.com/en-us/library/ms141708(v=sql.110).aspx)

### **QUESTION 17**

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 correct answer presents part of the solution. Choose all that apply.)

- A. Change the ORDER BY clause on the product source to order by ProductName.
- B. Change the Merge Join transformation to a Merge transformation.
- C. Set the appropriate SortKeyPosition properties on the data sources.
- D. Set the IsSorted property on both data sources.

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 18

You are creating a SQL Server Integration Services (SSIS) package to retrieve product data from two different sources. One source is hosted in a SQL Azure database. Each source contains products for different distributors.

Products for each distributor source must be combined for insertion into a single product table destination.

You need to select the appropriate data flow transformation to meet this requirement. Which transformation types should you use? (Each correct answer presents a complete solution. Choose all that apply.)

- A. Multicast
- B. Merge Join
- C. Term Extraction
- D. union All
- E. Merge

**Correct Answer:** DE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <http://msdn.microsoft.com/en-us/library/ms141703.aspx> Reference: <http://msdn.microsoft.com/en-us/library/ms141775.aspx> Reference: <http://msdn.microsoft.com/en-us/library/ms141020.aspx>  
 Reference: <http://msdn.microsoft.com/en-us/library/ms141809.aspx> Reference: <http://msdn.microsoft.com/en-us/library/ms137701.aspx>

#### QUESTION 19

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

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:

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

## **QUESTION 20**

You are using SQL Server Data Tools to develop a SQL Server Integration Services (SSIS) project.

The first package that you create in this project contains a package connection that accesses a flat file. Additional packages in the project must also access this file.

You need to define and reuse the flat file connection in all project packages.

What should you do?

- A. Convert the package Connection Manager in the first package to a project Connection Manager.
- B. Copy the package Connection Manager and paste it into the second package.
- C. Convert the project to the Package Deployment model.
- D. Set the ProtectionLevel property of the package Connection Manager to DontSaveSensitive to reuse the flat file connection.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## **QUESTION 21**

You are designing a SQL Server Integration Services (SSIS) package that uses the Fuzzy Lookup transformation.

The reference data to be used in the transformation does not change. You need to reuse the Fuzzy Lookup match index to increase performance and reduce maintenance.

What should you do?

- A. Select the GenerateAndPersistNewIndex option in the Fuzzy Lookup Transformation Editor.
- B. Select the GenerateNewIndex option in the Fuzzy Lookup Transformation Editor.
- C. Select the DropExistingMatchIndex option in the Fuzzy Lookup Transformation Editor.
- D. Execute the sp\_FuzzyLookupTableMaintenanceUninstall stored procedure.
- E. Execute the sp\_FuzzyLookupTableMaintenanceInvoke stored procedure.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://msdn.microsoft.com/en-us/library/ms137786.aspx>

**QUESTION 22**

You are using a SQL Server Integration Services (SSIS) project that is stored in the SSIS catalog. An Environment has been defined in the SSIS catalog.

You need to add the Environment to the project.

Which stored procedure should you use?

- A. catalog.set\_environment\_reference\_type
- B. catalog.set\_environment\_property
- C. catalog.create\_environment\_reference
- D. catalog.create\_environment

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:****QUESTION 23**

You are developing a SQL Server Integration Services (SSIS) package that imports data into a data warehouse hosted on SQL Azure.

The package uses a Foreach container to process text files found in a folder. The package must be deployed to a single server by using the Project Deployment model.

Multiple SQL Server Agent jobs call the package. Each job is executed on a different schedule. Each job passes a different folder path to the package. You need to configure the package to accept the folder path from each job.

Which package configuration should you use?

- A. .dtsConfig file
- B. Registry Entry
- C. Environment Variable
- D. Parent Package Variable
- E. XML Configuration File

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

Reference:

<http://msdn.microsoft.com/en-us/library/ms345179.aspx> <http://msdn.microsoft.com/en-us/library/ms141708.aspx> <http://msdn.microsoft.com/en-us/library/hh213214.aspx> <http://msdn.microsoft.com/en-us/library/hh213296.aspx> <http://msdn.microsoft.com/en-us/library/hh213293.aspx>

**QUESTION 24**

You are developing a SQL Server Integration Services (SSIS) package that imports data from a relational database to a data warehouse.

You are importing data from a relational table named Projects. The table has change data capture enabled on all columns.

You need to process only the most recent values from rows that have been inserted or updated since the

previous execution of the package.

Which query should you use as the data source?

- A. **SELECT \* FROM cdc.fn\_cdc\_get\_all\_changes\_Projects (@from\_Isn, @to\_Isn, N'all')**
  - B. **SELECT \* FROM cdc.fn\_cdc\_get\_all\_changes\_Projects (@from\_Isn, @to\_Isn, N'all update')**
  - C. **SELECT \* FROM cdc.Projects\_CT WHERE @from\_Isn >= \_\$start\_Isn AND @to\_Isn < \_\$start\_Isn'**
  - D. **SELECT \* FROM cdc.fn\_cdc\_get\_net\_changes\_Projects (@from\_Isn, @to\_Isn)**
- A. Option A
  - B. Option B
  - C. Option C
  - D. Option D

**Correct Answer:** D

**Section:** (none)

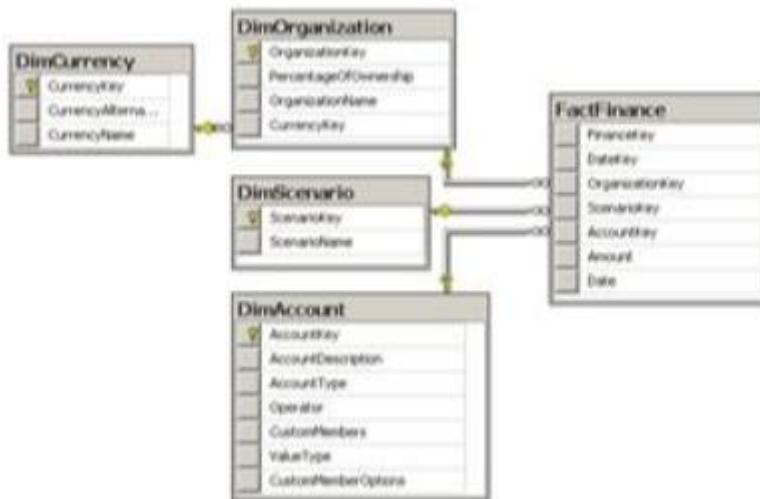
**Explanation**

**Explanation/Reference:**

Reference: <http://msdn.microsoft.com/en-us/library/bb522511.aspx> Reference: <http://msdn.microsoft.com/en-us/library/bb510627.aspx> Reference: <http://msdn.microsoft.com/en-us/library/cc645937.aspx>

## QUESTION 25

You are developing a SQL Server Integration Services (SSIS) package to load data into a data warehouse.



You need to establish the correct order for loading each table to maximize parallel processing.

Which order should you use?

- A. 1. DimCurrency, DimScenario, DimAccount in parallel  
2. DimOrganization  
3. FactFinance
- B.
- C. DimCurrency, DimOrganization in parallel  
2. DimScenario, DimAccount in parallel  
3. FactFinance
- D. 1. DimCurrency, FactFinance in parallel

- 2. DimOrganization, DimScenario, DimAccount in parallel
- E. 1. FactFinance
  - 2. DimOrganization, DimScenario, DimAccount in parallel
  - 3. DimCurrency
- F. 1. DimCurrency
  - 2. DimOrganization
  - 3. DimScenario, DimAccount in parallel
  - 4. FactFinance

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

References:

<http://msdn.microsoft.com/en-us/library/ms139892.aspx> <http://msdn.microsoft.com/en-us/library/ms141261.aspx>

### **QUESTION 26**

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. OnPostExecute
- B. OnWarning
- C. OnExecStatusChanged
- D. OnVariableValueChanged

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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

### **QUESTION 27**

You are editing a SQL Server Integration Services (SSIS) package that contains three Execute SQL tasks and no other tasks. The package and all three Execute SQL tasks have their TransactionOption property set to Supported.

You need to ensure that if any of the Execute SQL tasks fail, all three tasks will roll back their changes.

What should you do?

- A. Move the three Execute SQL tasks into a Sequence container.
- B. Move the three Execute SQL tasks into a Foreach Loop container.
- C. Change the TransactionOption property of all three Execute SQL tasks to Required.
- D. Change the TransactionOption property of the package to Required.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:

<http://msdn.microsoft.com/en-us/library/ms137749.aspx> <http://msdn.microsoft.com/en-us/library/microsoft.sqlserver.dts.runtime.dtstransactionoption.aspx>

**QUESTION 28**

You are creating a SQL Server Integration Services (SSIS) package that implements a Type 3 Slowly Changing Dimension (SCD).

You need to add a task or component to the package that allows you to implement the SCD logic.

What should you use?

- A. a Script component
- B. an SCD component
- C. an Aggregate component
- D. a Merge component

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 29**

You are developing a SQL Server Integration Services (SSIS) package that imports data into a data warehouse. You add an Execute SQL task to the control flow.

The task must execute a simple INSERT statement. The task has the following requirements:

- The INSERT statement must use the value of a string package variable. The variable name is StringVar.
- The Execute SQL task must use an OLE DB Connection Manager.

In the Parameter Mapping tab of the Execute SQL task, StringVar has been added as the only parameter.

You must configure the SQLStatement property of the Execute SQL task.

Which SQL statement should you use?

- A. INSERT INTO dbo.Table (variablevalue) VALUES (\$StringVar)
- B. INSERT INTO dbo.Table (variablevalue) VALUES (0)
- C. INSERT INTO dbo.Table (variablevalue) VALUES (@0)
- D. INSERT INTO dbo.Table (variablevalue) VALUES (?)

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

References:

<http://msdn.microsoft.com/en-us/library/ms141003.aspx> <http://msdn.microsoft.com/en-us/library/ms140355.aspx> <http://msdn.microsoft.com/en-us/library/cc280502.aspx>

**QUESTION 30**

You are installing the Data Quality Client on user desktops.

You need to ensure that the prerequisite software components are installed.

Which components must be present to meet this goal? (Each correct answer presents part of the solution. Choose all that apply.)

- A. SQL Server Management Studio
- B. Internet Explorer 6.0 SP1 or later
- C. Microsoft Silverlight 5
- D. .NET Framework 3.5 SP1
- E. .NET Framework 4.0
- F. Microsoft Silverlight 4
- G. SQL Server Data Tools

**Correct Answer:** BE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Before installing DQS, make sure that your computer meets the minimum system requirements.

Data Quality Client requirement:

.NET Framework 4.0 (installed during the Data Quality Client installation, if not already installed)

Internet Explorer 6.0 SP1 or later

**QUESTION 31**

You are creating a SQL Server Master Data Services (MDS) model. This model is used to store a master list of products.

An attribute must be added to the Product entity to define the sales manager responsible for each product.

You need to create an attribute in the Product entity that prevents users from entering invalid sales manager values.

Which type of attribute should you create?

- A. Recursive
- B. Explicit
- C. Domain-based
- D. User-defined
- E. Derived
- F. Parent

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

References:

<http://msdn.microsoft.com/en-us/library/bb190163.aspx> <http://msdn.microsoft.com/en-us/library/ee633737.aspx> <http://msdn.microsoft.com/en-us/library/ee633759.aspx> <http://msdn.microsoft.com/en-us/library/ee633745.aspx> <http://msdn.microsoft.com/en-us/library/ee633724.aspx> <http://msdn.microsoft.com/en-us/library/ff487058.aspx>

**QUESTION 32**

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. Run the DQSInstaller.exe command.
- B. Install the data providers that are used for data refresh.
- C. Install ADOMD.NET.
- D. Run the dbimpexp.exe command.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

References:

<http://msdn.microsoft.com/en-us/library/ff877917.aspx> <http://msdn.microsoft.com/en-us/library/gg492277.aspx>

**QUESTION 33**

You are creating a SQL Server Master Data Services (MDS) model for a company.

The source data for the company is stored in a single table that contains the manager-to- subordinate relationships.

You need to create a hierarchy representing the organizational structure of the company.

Which hierarchy type should you use?

A. Organizational

B. Recursive

C. Non-Mandatory Explicit

D. Many-to-Many

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 34**

You are the data steward for a Business Intelligence project.

You must identify duplicate rows stored in a SQL Server table and output discoveries to a CSV file. A Data Quality Services (DQS) knowledge base has been created to support this project.

You need to produce the CSV file with the least amount of development effort.

What should you do?

A. Create an Integration Services package and use a Data Profiling transform.

B. Create a custom .NET application based on the Knowledgebase class.

C. Create a data quality project.

D. Create a CLR stored procedure based on the Knowledgebase class.

E. Create a Master Data Services (MDS) business rule.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:

<http://msdn.microsoft.com/en-us/library/hh213052.aspx>

**QUESTION 35**

You manage a SQL Server Master Data Services (MDS) environment. A new application requires access to the product data that is available in the MDS repository. You need to design a solution that gives the application access to the product data with the least amount of development effort.

What should you do?

- A. Create a Subscription View in MDS.
- B. Access the product entity tables in the MDS database directly.
- C. Use SQL Server Integration Services (SSIS) to extract the data and put it in a staging database.
- D. Use change data capture on the product entity tables.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 36**

You are installing SQL Server Data Quality Services (DQS). You need to give users belonging to a specific Active Directory group access to the Data Quality Server.

Which SQL Server application should you use?

- A. Data Quality Client with administrative credentials
- B. SQL Server Configuration Manager with local administrative credentials
- C. SQL Server Data Tools with local administrative permissions
- D. SQL Server Management Studio with administrative credentials

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 37**

You are using the Knowledge Discovery feature of the Data Quality Services (DQS) client application to modify an existing knowledge base.

In the mapping configuration, two of the three columns are mapped to existing domains in the knowledge base. The third column, named Team Type, does not yet have a domain.

You need to complete the mapping of the Team Type column.

What should you do?

- A. Add a column mapping for the Team Type column.
- B. Map a composite domain to the source column.
- C. Create a composite domain that includes the Team Type column.
- D. Add a domain for the Team Type column.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

References:

<http://msdn.microsoft.com/en-us/library/ff877917.aspx> <http://msdn.microsoft.com/en-us/library/hh213015.aspx> <http://msdn.microsoft.com/en-us/library/gg524799.aspx>

#### **QUESTION 38**

You are maintaining a Data Quality Services (DQS) environment. The production server failed and a new server has been set up. The DQS databases are restored to a new server. All the appropriate permissions are granted.

DQS users are experiencing issues connecting to the new Data Quality Server. You need to enable users to connect to the new server. Which Surface Area Configuration property should you enable?

- A. AdHocRemoteQueriesEnabled
- B. SoapEndpointsEnabled
- C. ClrIntegrationEnabled
- D. RemoteDacEnabled
- E. OleAutomationEnabled
- F. XpCmdShellEnabled

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 39**

Occasionally a job that executes an existing SQL Server Integration Services (SSIS) package does not complete and nothing is processed.

You need to ensure that package logging occurs. Your solution must minimize deployment and development efforts.

What should you do?

- A. Create a reusable custom logging component.
- B. Use the gacutil command.
- C. Use the Project Deployment Wizard.
- D. Run the package by using the dtexec /rep /conn command.
- E. Add a data tap on the output of a component in the package data flow.
- F. Create an OnError event handler.
- G. Use the dtutil /copy command.
- H. Deploy the package by using an msi file.
- I. Run the package by using the dtexec /dumperror /conn command.
- J. Run the package by using the dtexecui.exe utility and the SQL Log provider.
- K. Deploy the package to the Integration Services catalog by using dtutil and use SQL Server to store the configuration.

**Correct Answer:** J

**Section:** (none)

**Explanation**

**Explanation/Reference:**

References:

<http://msdn.microsoft.com/en-us/library/ms140246.aspx> <http://msdn.microsoft.com/en-us/library/hh231187.aspx>

### **QUESTION 40**

You are writing a SQL Server Integration Services (SSIS) package that transfers data from a legacy system.

Data integrity in the legacy system is very poor. Invalid rows are discarded by the package but must be logged to a CSV file for auditing purposes.

You need to establish the best technique to log these invalid rows while minimizing the amount of development effort.

What should you do?

- A. Add a data tap on the output of a component in the package data flow.

- B. Deploy the package by using an msi file.
- C. Run the package by using the dtexecui.exe utility and the SQL Log provider.
- D. uses the dtutil /copy command.
- E. Deploy the package to the Integration Services catalog by using dtutil and use SQL Server to store the configuration.
- F. Create an OnError event handler.
- G. uses the Project Deployment Wizard.
- H. Use the gacutil command.
- I. Create a reusable custom logging component.
- J. Run the package by using the dtexec /rep /conn command.
- K. Run the package by using the dtexec /dumperror /conn command.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:

<http://www.rafael-salas.com/2012/01/ssis-2012-quick-peek-to-data-taps.html> <http://msdn.microsoft.com/en-us/library/hh230989.aspx> <http://msdn.microsoft.com/en-us/library/jj655339.aspx>

#### **QUESTION 41**

You are deploying a new SQL Server Integration Services (SSIS) project to the test environment.

A package in the project uses a custom task component.

You need to ensure that the custom object is deployed on the test environment correctly.  
What should you do?

- A. Run the package by using the dtexec /rep /conn command.
- B. Create a reusable custom logging component.
- C. Create an OnError event handler.
- D. Use the gacutil command.
- E. Use the dtutil /copy command.
- F. Deploy the package to the Integration Services catalog by using dtutil and use SQL Server to store the configuration.
- G. Run the package by using the dtexec /dumperror /conn command.
- H. Use the Project Deployment Wizard.
- I. Deploy the package by using an msi file.
- J. Add a data tap on the output of a component in the package data flow.
- K. Run the package by using the dtexecui.exe utility and the SQL Log provider.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:

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

#### **QUESTION 42**

You are deploying a project to the SQL Server Integration Services (SSIS) catalog.

You need to ensure that the project is deployed to the production environment with the least amount of administrative effort.

What should you do?

- A. Create an On Error event handler.
- B. Add a data tap on the output of a component in the package data flow.
- C. Use the gacutil command.
- D. Create a reusable custom logging component.
- E. Run the package by using the dtexecui.exe utility and the SQL Log provider.
- F. Run the package by using the dtexec /rep /conn command.
- G. Use the Integration Services Deployment Wizard.
- H. Run the package by using the dtexec /dumperror /conn command.
- I. Use the dtutil /copy command.
- J. Deploy the package to the Integration Services catalog by using dtutil and use SQL Server to store the configuration.
- K. Deploy the package by using an msi file.

**Correct Answer:** G

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference:

<http://msdn.microsoft.com/en-us/library/hh479588.aspx> <http://msdn.microsoft.com/en-us/library/hh213290.aspx> <http://msdn.microsoft.com/en-us/library/hh213373.aspx>

#### **QUESTION 43**

To ease the debugging of packages, you standardize the SQL Server Integration Services (SSIS) package logging methodology.

The methodology has the following requirements:

- Centralized logging in SQL Server
- Simple deployment
- Availability of log information through reports or T-SQL · Automatic purge of older log entries
- Configurable log details

You need to configure a logging methodology that meets the requirements while minimizing the amount of deployment and development effort.

What should you do?

- A. Deploy the package by using an msi file.
- B. Use the gacutil command.
- C. Create an OnError event handler.
- D. Create a reusable custom logging component.
- E. Use the dtutil /copy command.
- F. Use the Project Deployment Wizard.
- G. Run the package by using the dtexec /rep /conn command.
- H. Add a data tap on the output of a component in the package data flow.
- I. Run the package by using the dtexec /dumperror /conn command.
- J. Run the package by using the dtexecui.exe utility and the SQL Log provider.
- K. Deploy the package to the Integration Services catalog by using dtutil and use SQL Server to store the configuration.

**Correct Answer:** J

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**References:**

<http://msdn.microsoft.com/en-us/library/ms140246.aspx> [http://msdn.microsoft.com/en-us/library/ms180378\(v=sql.110\).aspx](http://msdn.microsoft.com/en-us/library/ms180378(v=sql.110).aspx)

**QUESTION 44**

You are creating a SQL Server Master Data Services (MDS) model for a company.

The source data for the company is stored in a single table that contains the manager-to- subordinate relationships.

You need to create a hierarchy representing the organizational structure of the company.

Which hierarchy type should you use?

- A. Natural
- B. Explicit
- C. Parent
- D. Recursive

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://technet.microsoft.com/en-us/library/ff487006.aspx> Reference: <http://msdn.microsoft.com/en-us/library/ee633747.aspx> Reference: <http://technet.microsoft.com/en-us/library/ee633759.aspx>

**QUESTION 45**

You are the data steward for a Business Intelligence project. You must identify duplicate rows stored in a SQL Server table and output discoveries to a CSV file. A Data Quality Services (DQS) knowledge base has been created to support this project.

You need to produce the CSV file with the least amount of development effort.  
What should you do?

- A. Create an Integration Services package and use a Fuzzy Lookup transform.
- B. Create a Master Data Services (MDS) model.
- C. Create a Data Quality Project.
- D. Create an Integration Services package and use a DQS Cleansing transform.
- E. Create an Integration Services package and use a Fuzzy Grouping transform.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Ref: <http://msdn.microsoft.com/en-us/library/hh213052.aspx>

**QUESTION 46**

You are using the Knowledge Discovery feature of the Data Quality Services (DQS) client application to modify an existing knowledge base.

In the mapping configuration, two of the three columns are mapped to existing domains in the knowledge base. The third column, named Group, does not yet have a domain.

You need to complete the mapping of the Group column.

What should you do?

- A. Map a composite domain to the source column.
- B. Create a composite domain that includes the Group column.

- C. Add a domain for the Group column.
- D. Add a column mapping for the Group column.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 47**

You are installing SQL Server Data Quality Services (DQS).

You need to give specific users access to the Data Quality Server.

Which SQL Server application should you use?

- A. SQL Server Configuration Manager
- B. SQL Server Data Tools
- C. SQL Server Management Studio
- D. Data Quality Client

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Ref: <http://msdn.microsoft.com/en-us/library/hh213045.aspx>

**QUESTION 48**

You manage a SQL Server Master Data Services (MDS) environment. A new application requires access to the product data that is available in the MDS repository. You need to design a solution that gives the application access to the product data with the least amount of development effort.

What should you do?

- A. Use sp\_addlinkedserver to add a linked server to access the MDS database tables directly.
- B. Create an OLE DB connection string that sets the Provider property to MDS.
- C. Use transactional replication for data synchronization.
- D. Create a Subscription View in MDS.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 49**

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

References:

<http://msdn.microsoft.com/en-us/library/ff877917.aspx> <http://msdn.microsoft.com/en-us/library/gg492277.aspx>

### **QUESTION 50**

You are creating a SQL Server Integration Services (SSIS) package that implements a Type 3 Slowly Changing Dimension (SCD).

You need to add a task or component to the package that allows you to implement the SCD logic.

What should you use?

- A. a Data Conversion component
- B. an Execute SQL task that executes a MERGE statement on the database
- C. a Merge component
- D. an Expression task

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Note: Type of Slowly Changing Dimensions

Slowly Changing Dimensions are categorized into three types named: Type 1, Type 2, and Type3. The Type 1 SCD does not maintain the history of changing attributes, it overwrites values of the attributes. Type 2 maintains historical values for changing attributes. Type 3 that we do not use much maintains separate columns for changed attributes. SSIS SCD wizard supports both Type 1 and Type 2.

Using MERGE instead of SCD wizard

Replacement of SCD wizard with MERGE is not a straightforward technique. If the SCD has both Type 1 and Type 2 types attributes, they need to be handled separately.

### **QUESTION 51**

You are developing a SQL Server Integration Services (SSIS) package to load data into a SQL Server table on ServerA. The package includes a data flow and is executed on ServerB. The destination table has its own identity column.

The destination data load has the following requirements:

- The identity values from the source table must be used.
- Default constraints on the destination table must be ignored.
- Batch size must be 100,000 rows.

You need to add a destination and configure it to meet the requirements.

Which destination should you use?

- A. OLE DB Destination with Fast Load
- B. SQL Server Destination
- C. ADO NET Destination without Bulk Insert
- D. ADO NET Destination with Bulk Insert
- E. OLE DB Destination without Fast Load

**Correct Answer:** A

**Section:** (none)

## **Explanation**

### **Explanation/Reference:**

Explanation:

Reference: <http://msdn.microsoft.com/en-us/library/ms141237.aspx> Reference: <http://msdn.microsoft.com/en-us/library/ms139821.aspx> Reference: <http://msdn.microsoft.com/en-us/library/ms141095.aspx>

### **QUESTION 52**

You are developing a SQL Server Integration Services (SSIS) package that imports data into a data warehouse.

You add an Execute SQL task to the control flow. The task must execute a simple INSERT statement.

The task has the following requirements:

- The INSERT statement must use the value of a string package variable. The variable name is StringVar.
- The Execute SQL task must use an OLE DB Connection Manager.

In the Parameter Mapping tab of the Execute SQL task, StringVar has been added as the only parameter.

You must configure the SQLStatement property of the Execute SQL task.

Which SQL statement should you use?

- A. INSERT INTO dbo.Table (variablevalue) VALUES (@StringVar)
- B. INSERT INTO dbo.Table (variablevalue) VALUES (\$Project::StringVar)
- C. INSERT INTO dbo.Table (variablevalue) VALUES (?)
- D. INSERT INTO dbo.Table (variablevalue) VALUES (\$Package::StringVar)

**Correct Answer: C**

**Section: (none)**

**Explanation**

### **Explanation/Reference:**

Topic 2, Volume B

### **QUESTION 53**

You are developing a SQL Server Integration Services (SSIS) package that imports data into a data warehouse hosted on SQL Azure.

The package uses a Foreach container to process text files found in a folder. The package must be deployed to a single server by using the Project Deployment model.

Multiple SQL Server Agent jobs call the package. Each job is executed on a different schedule.

Each job passes a different folder path to the package. You need to configure the package to accept the folder path from each job.

Which package configuration should you use?

- A. Parent Package Variable
- B. XML Configuration File
- C. Environment Variable
- D. .dtsConfig file
- E. Registry Entry

**Correct Answer: C**

**Section: (none)**

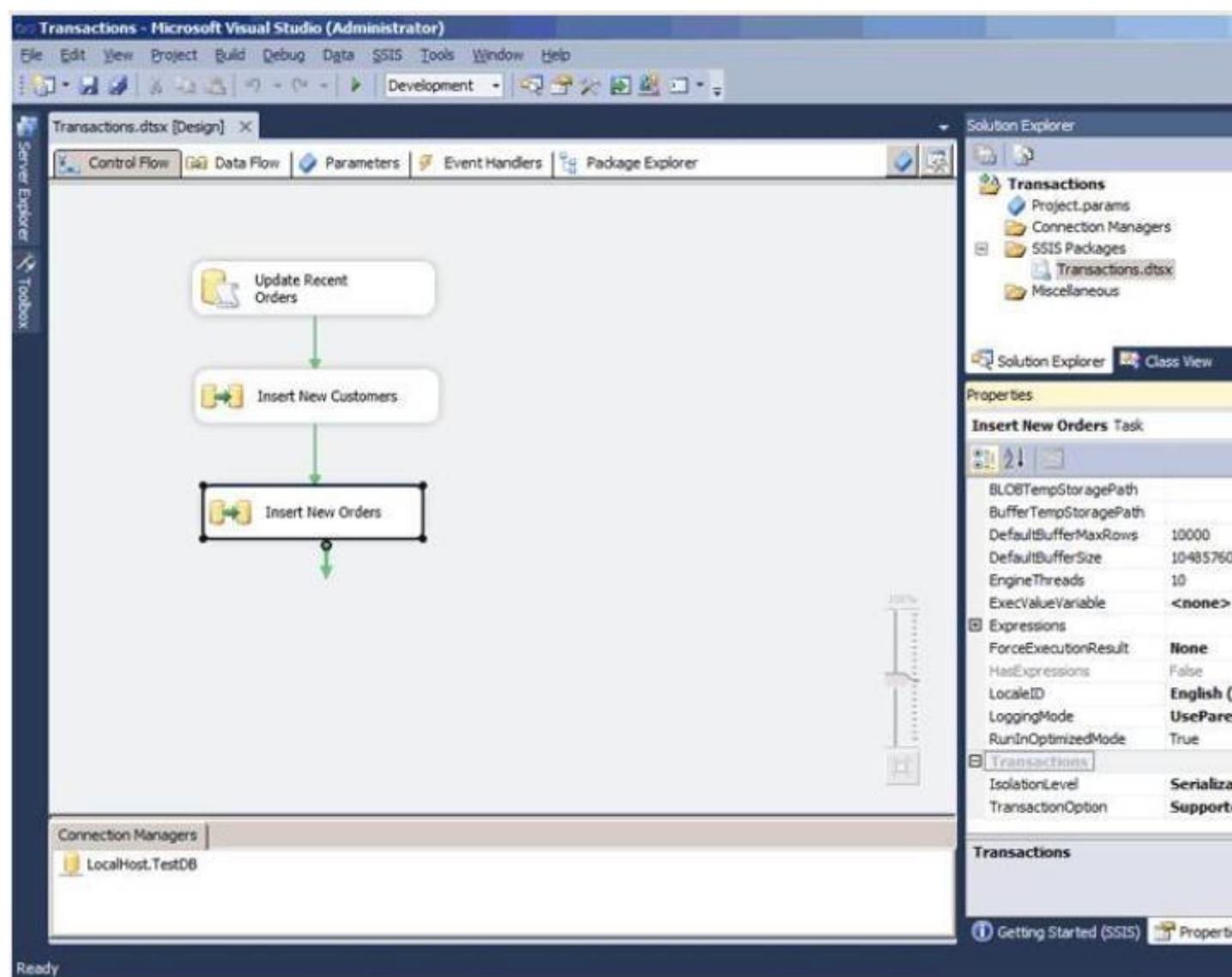
**Explanation**

### **Explanation/Reference:**

**QUESTION 54****CORRECT TEXT**

You are designing a package control flow. The package moves sales order data from a SQL Azure transactional database to an on-premise reporting database. The package will run several times a day, while new sales orders are being added to the transactional database.

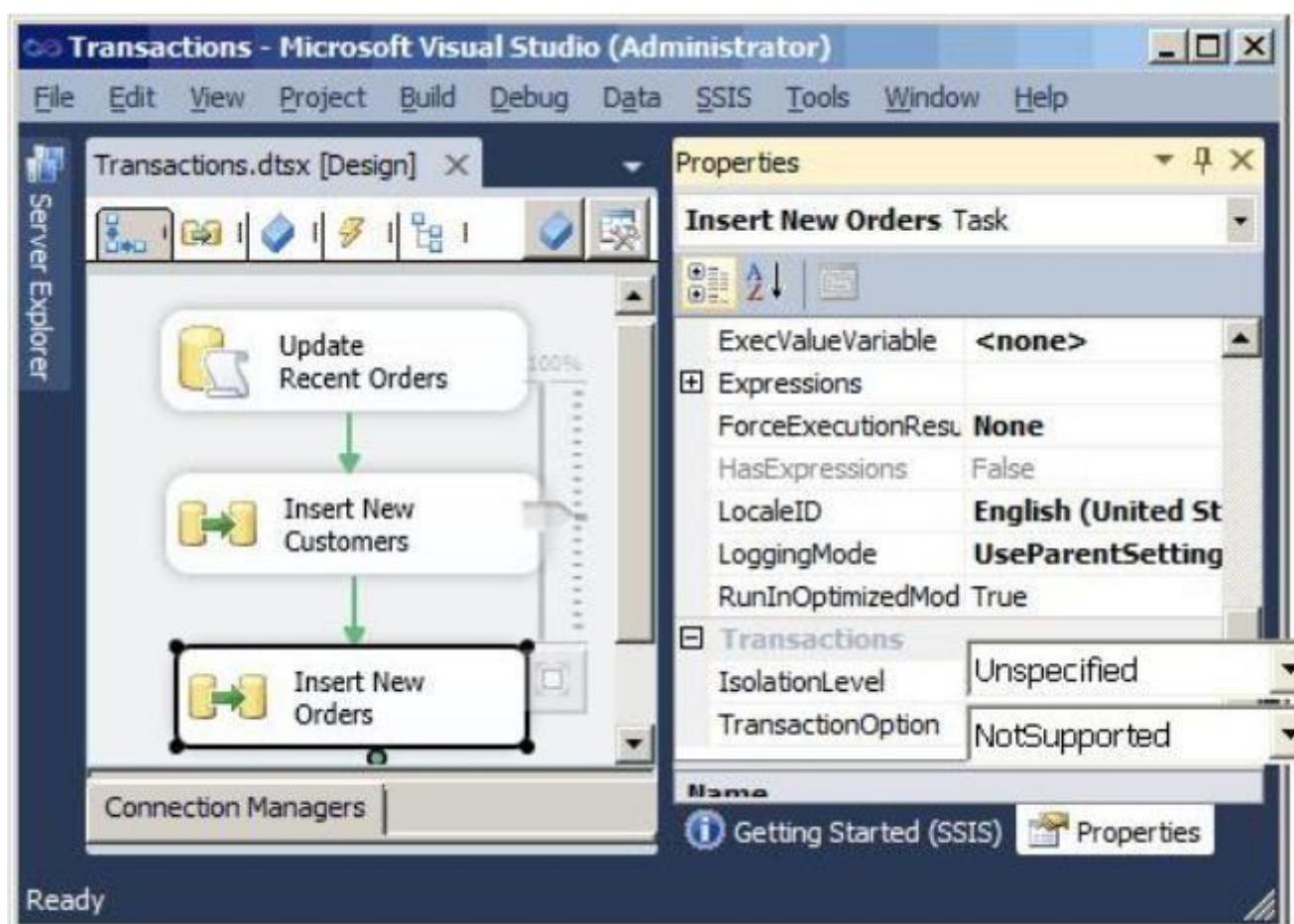
The current design of the package control flow is shown in the answer area. (Click the Exhibit button.)



The Insert New Orders Data Flow task must meet the following requirements:

- Usage of the tempdb database should not be impacted.
- Concurrency should be maximized, while only reading committed transactions.
- If the task fails, only that task needs to be rolled back.

You need to configure the Insert New Orders Data Flow task to meet the requirements.



How should you configure the transaction properties? To answer, select the appropriate setting or settings in the answer area.

- 
- 
- 
- 

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Answer: IsolationLevel = ReadCommitted.

TransactionOption = Required

**QUESTION 55**

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?

- OnProgress
- OnInformation
- OnPostExecute

D. OnComplete

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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

### **QUESTION 56**

You are designing a data warehouse for a fresh food distribution business that stores sales by individual product. It stores sales targets by product category. Products are classified into subcategories and categories.

Each product is included in only a single product subcategory, and each subcategory is included in only a single category.

The data warehouse will be a data source for an Analysis Services cube.

The data warehouse contains two fact tables:

- factSales, used to record daily sales by product
- factProductTarget, used to record the monthly sales targets by product category

Reports must be developed against the warehouse that reports product sales by product, category and subcategory, and product sales targets.

You need to design the product dimension. The solution should use as few tables as possible while supporting all the requirements.

What should you do?

- A. Create two product tables, dimProduct and dimProductCategory. Connect factSales to dimProduct and factProductTarget to dimProductCategory with foreign key constraints. Direct the cube developer to use key granularity attributes.
- B. Create one product table, dimProduct, which contains product detail, category, and subcategory columns. Connect factSales to dimProduct with a foreign key constraint. Direct the cube developer to use a non-key granularity attribute for factProductTarget.
- C. Create three product tables, dimProduct, dimProductCategory, and dimProductSubcategory, and a fourth bridge table that joins products to their appropriate category and subcategory table records with foreign key constraints. Direct the cube developer to use key granularity attributes.
- D. Create three product tables, dimProduct, dimProductCategory, and dimProductSubcategory. Connect factSales to all three product tables and connect factProductTarget to dimProductCategory with foreign key constraints. Direct the cube developer to use key granularity attributes.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 57**

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. Enable Snapshot Isolation on the data warehouse.
- C. Add an IsCurrent column to the student dimension.
- D. Add StartDate and EndDate columns to the student dimension.

**Correct Answer:** D

**Section:** (none)

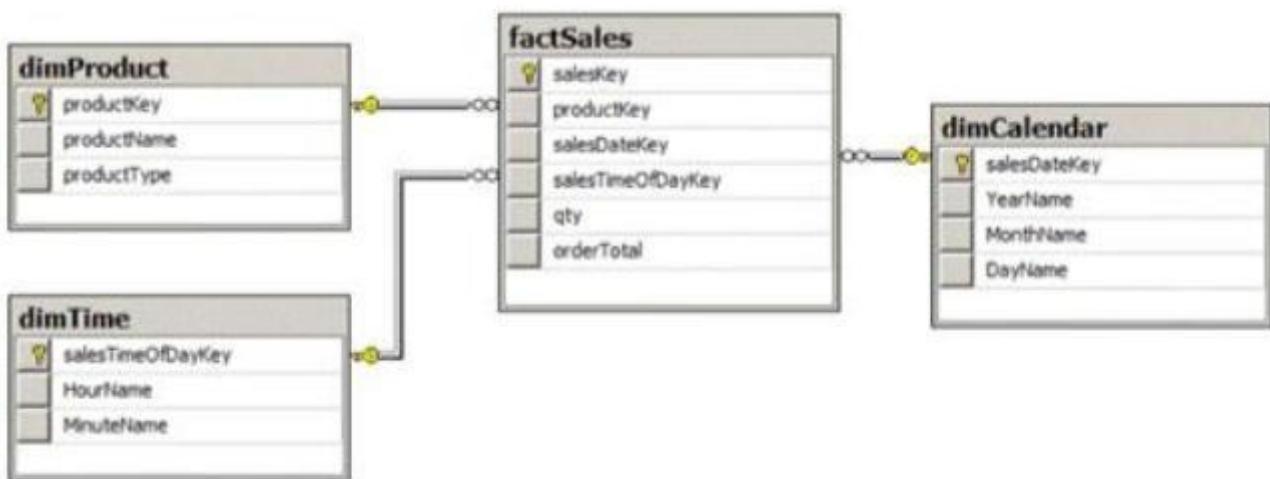
**Explanation**

**Explanation/Reference:**

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

**QUESTION 58**

You are reviewing the design of an existing fact table named factSales, which is loaded incrementally from a SQL Azure database by a SQL Server Integration Services (SSIS) package each hour. The fact table has approximately 4 billion rows and is dimensioned by product, sales date, and sales time of day.



The database administrator is concerned about the rapid growth of the database and users experience poor reporting performance against this database. Reporting requirements have recently changed and the only remaining report that uses this fact table reports sales by product name, sale month, and sale year. No other reports will be created against this table.

You need to reduce the report processing time and minimize the growth of the database.

What should you do?

- A. Create an indexed view over the fact table to sum orderTotal by month.
- B. Create a view over the fact table to sum orderTotal by month.
- C. Change the granularity of the fact table to month.
- D. Partition the fact table by productKey.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 59**

You are designing an enterprise star schema that will consolidate data from three independent data marts. One of the data marts is hosted on SQL Azure.

Most of the dimensions have the same structure and content. However, the geography dimension is slightly

different in each data mart.

You need to design a consolidated dimensional structure that will be easy to maintain while ensuring that all dimensional data from the three original solutions is represented.

What should you do?

- A. Create a conformed dimension for the geography dimension.
- B. Implement change tracking.
- C. Create a degenerate dimension for the geography dimension.
- D. Create a Type 2 slowly changing dimension for the geography dimension.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 60**

You are adding a new capability to several dozen SQL Server Integration Services (SSIS) packages. The new capability is not available as an SSIS task. Each package must be extended with the same new capability.

You need to add the new capability to all the packages without copying the code between packages.

What should you do?

- A. Use the Expression task.
- B. Use the Script task.
- C. Develop a custom task.
- D. Use the Script component,
- E. Develop a custom component.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

References:

<http://msdn.microsoft.com/en-us/library/ms135965.aspx> <http://msdn.microsoft.com/en-us/library/ms345161.aspx>

#### **QUESTION 61**

You are creating a SQL Server Integration Services (SSIS) package to retrieve product data from two different sources. One source is hosted in a SQL Azure database. Each source contains products for different distributors.

Products for each distributor source must be combined for insertion into a single product table destination.

You need to select the appropriate data flow transformation to meet this requirement.

Which transformation types should you use? (Each answer represents a complete solution. Choose all that apply.)

- A. Slowly Changing Dimension
- B. pivot
- C. Lookup
- D. Union All
- E. Merge

**Correct Answer:** DE  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 62**

You are designing a SQL Server Integration Services (SSIS) data flow to load sales transactions from a source system into a data warehouse hosted on SQL Azure. One of the columns in the data source is named ProductCode.

Some of the data to be loaded will reference products that need special processing logic in the data flow.

You need to enable separate processing streams for a subset of rows based on the source product code.

Which data flow transformation should you use?

- A. Audit
- B. Source Assistant
- C. Script Task
- D. Conditional Split

**Correct Answer:** D  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

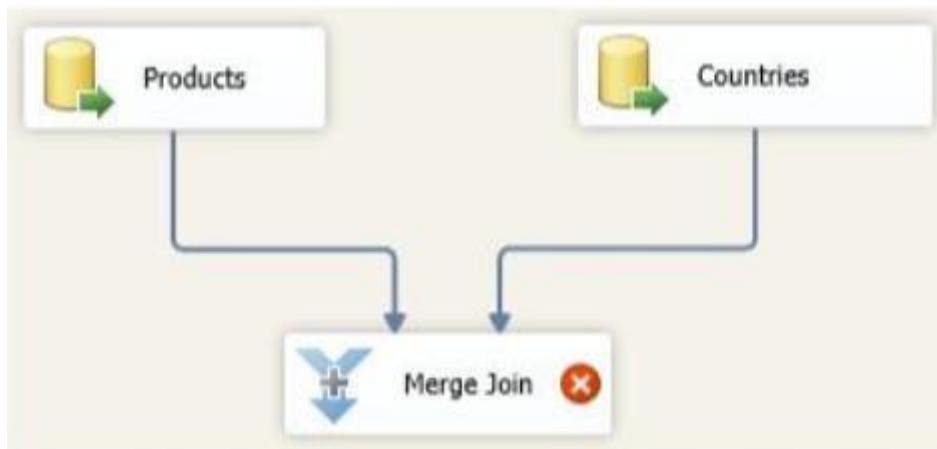
Explanation:

<http://msdn.microsoft.com/en-us/library/ms137640.aspx> <http://msdn.microsoft.com/en-us/library/ms141150.aspx> <http://msdn.microsoft.com/en-us/library/ff929138.aspx> <http://msdn.microsoft.com/en-us/library/ff929116.aspx>

**QUESTION 63**

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

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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>

#### **QUESTION 64**

You are using a SQL Server Integration Services (SSIS) project that is stored in the SSIS catalog. An Environment has been defined in the SSIS catalog.

You need to add the Environment to the project.

Which stored procedure should you use?

- A. catalog.create\_environment\_variable
- B. catalog.create\_environment\_reference
- C. catalog.set\_execution\_parameter\_value
- D. catalog.set\_environment\_variable\_value

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Environments (Test, Production etc) are associated with projects by creating references to the environments in the projects.

#### **QUESTION 65**

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

The package is stored as the myPackage.dtsx file in the root directory of the C drive of the SSIS server.

You need to run the package from the command prompt.

Which command should you use?

- A. dtexec /sql myPackage
- B. dtexec /d "C:\File System\myPackage.dtsx"
- C. dtexec /f "C:\myPackage.dtsx"
- D. dtexec /com "myPackage.dtsx"

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 66**

You are troubleshooting an existing SQL Server Integration Services (SSIS) package. On several occasions, the package execution does not finish and no data seems to have been transferred.

You need to ensure that package logging occurs. Your solution must minimize deployment and development efforts.

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

References:

<http://msdn.microsoft.com/en-us/library/ms141212.aspx> <http://www.mssqltips.com/sqlservertip/2450/ssis-package-deployment-model-in-sql-server-2012-part-1-of-2/>  
<http://www.mssqltips.com/sqlservertip/2450/ssis-package-deployment-model-in-sql-server-2012-part-2-of-2/>

## QUESTION 67

You are implementing a SQL Server Integration Services (SSIS) package that loads data hosted in a SQL Azure database into a data warehouse.

The source system contains redundant or inconsistent data. When the package finds invalid data, the row containing the invalid data must be omitted but it must also be written to a text file for further analysis.

You need to establish the best technique to log these invalid rows while keeping the amount of development effort to a minimum.

What should you do?

- A. Add an OnError event handler to the SSIS project.
- 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 gacutil 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 dtutil /copy command.
- G. Create a reusable custom logging component and use it in the SSIS project.
- H. Configure the SSIS solution to use the Project Deployment Model.
- I. Configure the output of a component in the package data flow to use a data tap.
- J. Open a command prompt and run the dtexec /rep /conn command.
- K. Open a command prompt and run the dtexec /dumperror /conn command.

**Correct Answer:** I

**Section: (none)****Explanation****Explanation/Reference:**

Explanation:

**References:**

<http://technet.microsoft.com/en-us/library/hh230989.aspx> <http://www.rafael-salas.com/2012/01/ssis-2012-quick-peek-to-data-taps.html> <http://msdn.microsoft.com/en-us/library/ms162820.aspx> <http://msdn.microsoft.com/en-us/library/hh231187.aspx> <http://technet.microsoft.com/en-us/library/ms140223.aspx> <http://msdn.microsoft.com/en-us/library/jj655339.aspx>

**QUESTION 68**

You develop a SQL Server Integration Services (SSIS) package that imports SQL Azure data into a data warehouse every night.

The SQL Azure data contains many misspellings and variations of abbreviations. To import the data, a developer used the Fuzzy Lookup transformation to choose the closest-matching string from a reference table of allowed values. The number of rows in the reference table is very large. If no acceptable match is found, the Fuzzy Lookup transformation passes a null value.

The current setting for the Fuzzy Lookup similarity threshold is 0.50.  
Many values are incorrectly matched.

You need to ensure that more accurate matches are made by the Fuzzy Lookup transformation without degrading performance.

What should you do?

- A. Change the Exhaustive property to True.
- B. Decrease the maximum number of matches per lookup.
- C. Change the similarity threshold to 0.85.
- D. Increase the maximum number of matches per lookup.

**Correct Answer: C****Section: (none)****Explanation****Explanation/Reference:****QUESTION 69**

You install a SQL Server 2012 database engine instance on a production server. A month later, you install SQL Server 2012 Integration Services (SSIS).

You must develop an SSIS project and deploy it to the server by using the Project Deployment model.

Operations log records that are outside the configured retention period must be cleaned automatically.

You need to create the SSIS catalog on the production server and ensure that the operations log cleaning requirement is met.

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

- A. Enable CLR Integration.
- B. Enable FILESTREAM with Full Access.
- C. Enable the Resource Governor.
- D. Change the recovery mode of the msdb database to FULL.
- E. Change the Server-wide Default Logging Level in SSISDB to Verbose.
- F. Start the SQL Server Browser service.
- G. Start the SQL Server Agent service.

**Correct Answer:** AG

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 70**

You maintain a SQL Server Integration Services (SSIS) package. The package was developed by using SQL Server 2008 Business Intelligence Development Studio (BIDS). The package includes custom scripts that must be upgraded.

You need to upgrade the package to SQL Server 2012.

Which tool should you use?

- A. SQL Server Configuration Manager
- B. SQL Server Agent
- C. SSIS Upgrade Wizard in SQL Server Management Studio
- D. SQL Server DTExecUI utility (dtexecui.exe)

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Use the SSIS Package Upgrade Wizard to migrate packages that were developed in SQL Server 2005 Integration Services (SSIS) and SQL Server 2008 Integration Services (SSIS) to the package format that the current release of Integration Services uses. Reference: SSIS Upgrade Wizard (SSIS Package Upgrade Wizard)

**QUESTION 71**

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.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 72**

A SQL Server Integration Services (SSIS) package was deployed two weeks ago with the Project Deployment Model.

Sometimes the package is started as part of a multistep SQL job. At other times, the package is started manually by a database administrator by using the Object Explorer in SQL Server Management Studio.

You need to identify the authenticated user responsible for starting the package each time it executes.

How can you find this information?

- A. In the SSISDB.[catalog], query the .[executions] view.
- B. In the SSISDB.[catalog] , query the [event\_messages] view.
- C. In SQL Server Management Studio, view the SQL Agent Job History.
- D. In SQL Server Management Studio, view the SQL Agent Error Log.
- E. In SQL Server Management Studio, view the SQL Server Log.

**Correct Answer:** A

**Section:** (none)

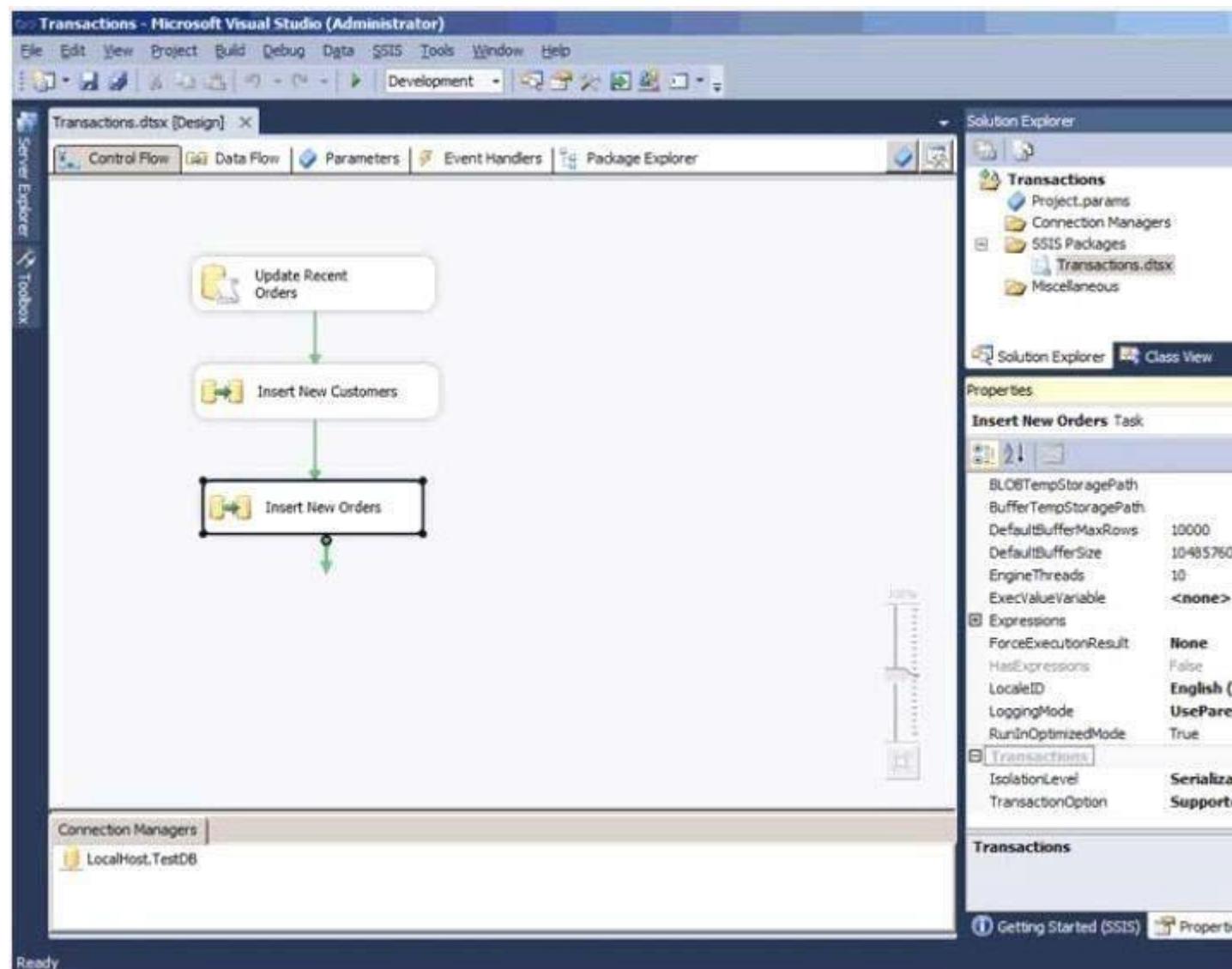
**Explanation**

**Explanation/Reference:**

### QUESTION 73

**CORRECT TEXT**

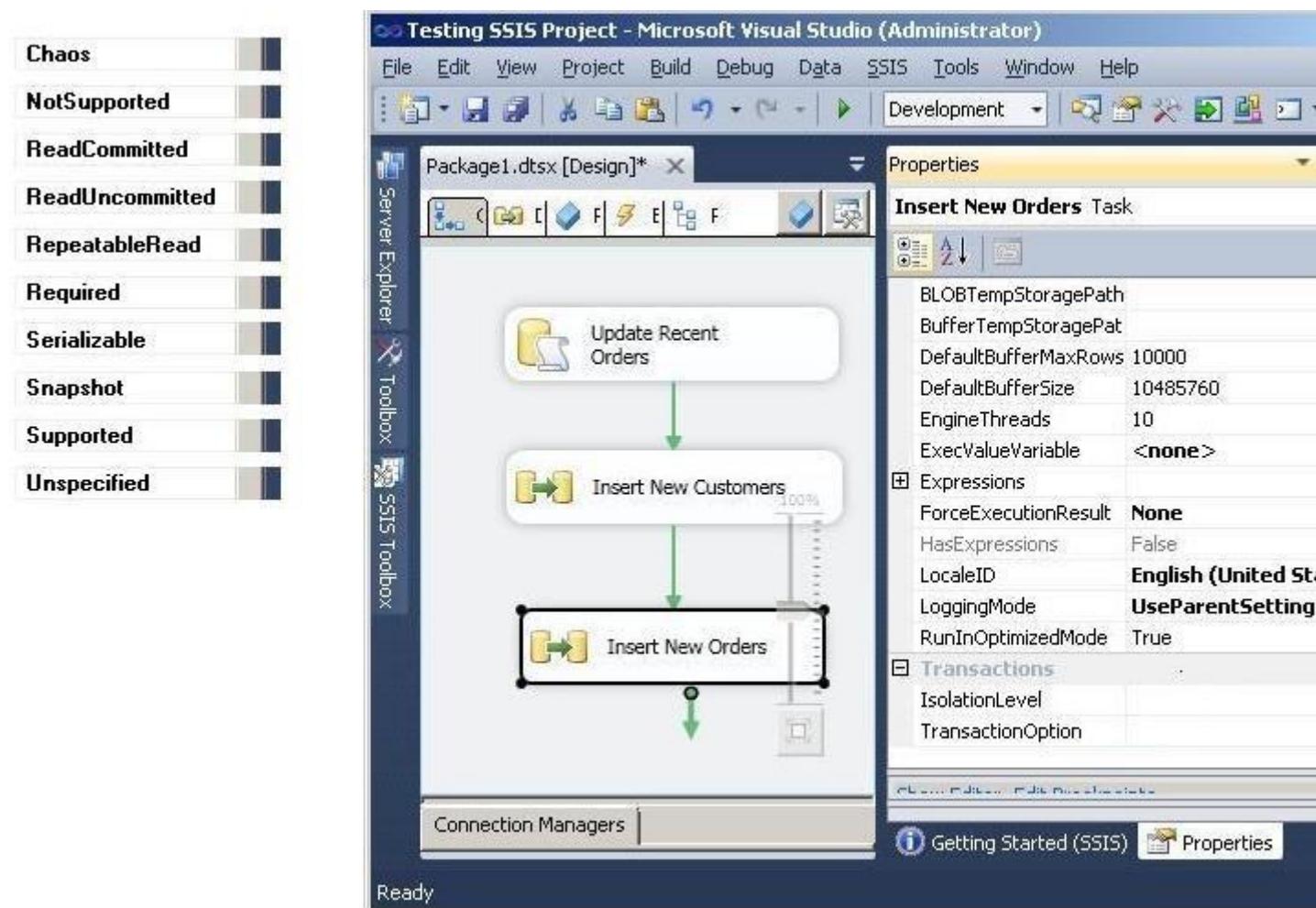
You are designing a package control flow. The package moves sales order data from a SQL Azure transactional database to an on-premise reporting database. The package will run several times a day, while new sales orders are being added to the transactional database. The current design of the package control flow is shown in the answer area. (Click the Exhibit button.)



The Insert New Orders Data Flow task must meet the following requirements:

- Usage of the tempdb database should not be impacted.
- Concurrency should be maximized, while only reading committed transactions.
- If the task fails, only that task needs to be rolled back.

You need to configure the Insert New Orders Data Flow task to meet the requirements. How should you configure the transaction properties? (To answer, select the appropriate setting or settings in the answer area.)



- A.
- B.
- C.
- D.

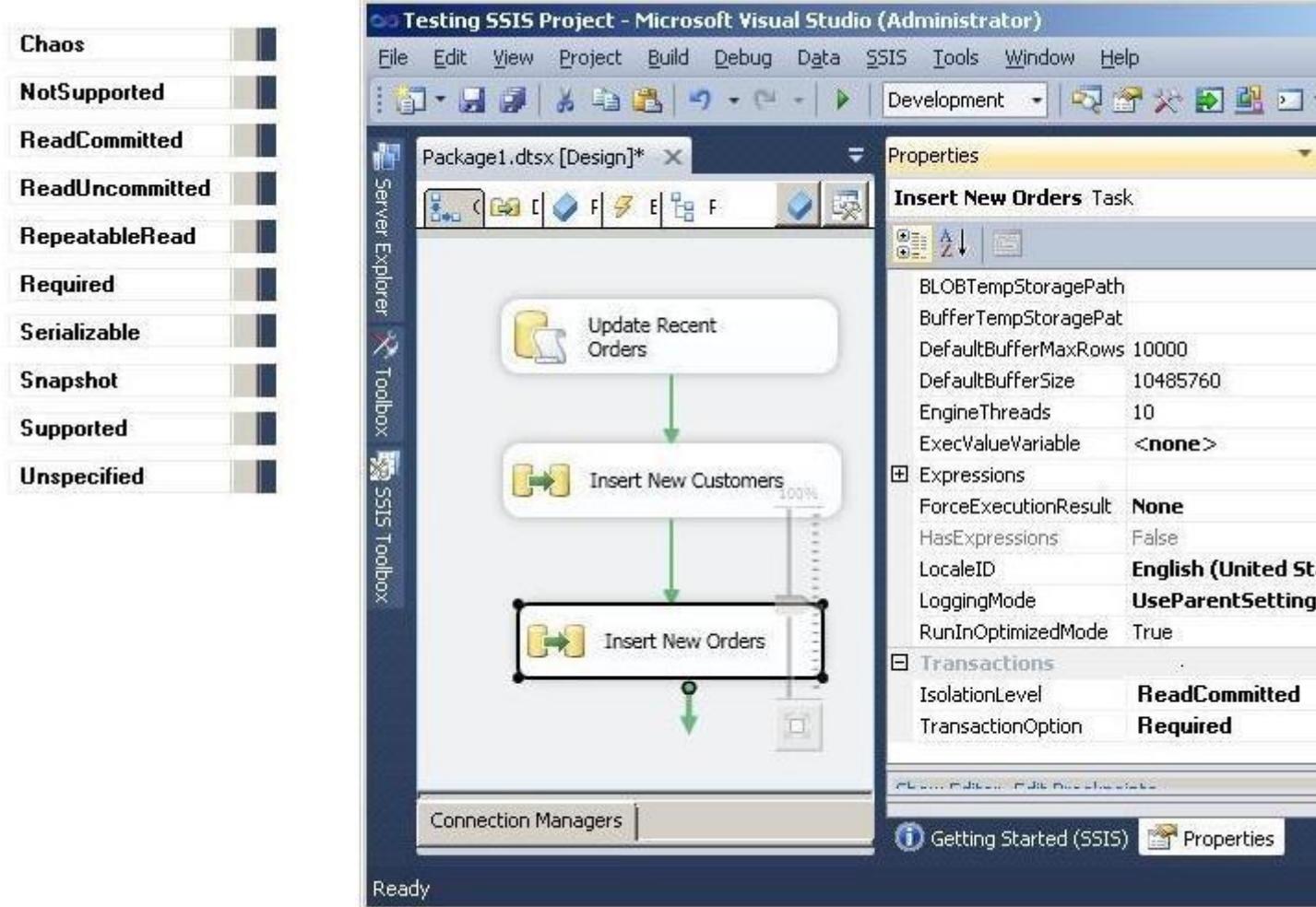
**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Answer: IsolationLevel = ReadCommitted.  
TransactionOption = Required



#### References:

<http://msdn.microsoft.com/en-us/library/ms137690.aspx> <http://msdn.microsoft.com/en-us/library/ms137749.aspx> <http://msdn.microsoft.com/en-us/library/microsoft.sqlserver.dts.runtime.dtscontainer.isolationlevel.aspx> <http://msdn.microsoft.com/en-us/library/ms173763.aspx>

#### QUESTION 74

You administer a Microsoft SQL Server 2012 server that has SQL Server Integration Services (SSIS) installed.

You plan to deploy new SSIS packages to the server. The SSIS packages use the Project Deployment Model together with parameters and Integration Services environment variables.

You need to configure the SQL Server environment to support these packages.

What should you do?

- Create SSIS configuration files for the packages.
- Create an Integration Services catalog.
- Install Data Quality Services.
- Install Master Data services.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**Reference:**

<http://msdn.microsoft.com/en-us/library/hh479588.aspx> <http://msdn.microsoft.com/en-us/library/hh213290.aspx> <http://msdn.microsoft.com/en-us/library/hh213373.aspx>

**QUESTION 75**

You develop a SQL Server Integration Services (SSIS) package that imports SQL Azure data into a data warehouse every night.

The SQL Azure data contains many misspellings and variations of abbreviations. To import the data, a developer used the Fuzzy Lookup transformation to choose the closest-matching string from a reference table of allowed values. The number of rows in the reference table is very large.

If no acceptable match is found, the Fuzzy Lookup transformation passes a null value. The current setting for the Fuzzy Lookup similarity threshold is 0.50.

Many values are incorrectly matched.

You need to ensure that more accurate matches are made by the Fuzzy Lookup transformation without degrading performance.

What should you do?

- A. Decrease the maximum number of matches per lookup.
- B. Change the similarity threshold to 0.55.
- C. Change the Exhaustive property to True.
- D. Increase the maximum number of matches per lookup.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://msdn.microsoft.com/en-us/library/ms137786.aspx>

**QUESTION 76**

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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/ms174884.aspx> <http://decipherinfosys.wordpress.com/2007/02/01/surrogate-keys-vs-natural-keys-for-primary-key/> <http://www.agiledata.org/essays/keys.html> <http://www.databasejournal.com/features/mssql/article.php/3922066/SQL-Server-Natural-Key-Verses-Surrogate-Key.htm> <http://www.jameserra.com/archive/2012/01/surrogate-keys/>

**QUESTION 77**

**CORRECT TEXT**

You administer a Microsoft SQL Server 2012 database. The database contains a table that has the

following definition:

```
CREATE TABLE [Sales].[Customer] (
    [CustomerID] int NOT NULL,
    [CustomerName] nvarchar(50) NOT NULL,
    [TerritoryID] int NULL,
    [LastContactDate] datetimeoffset NULL,
    [CustomerType] nchar(1) NOT NULL,
    [Notes] varchar(250) NULL
)
```

You want to export data from the table to a flat file by using the SQL Server Import and Export Wizard.

You need to ensure that the following requirements are met:

The first row of the file contains the first row of data.

Each record is of the same length.

The date follows the U.S. date format.

The file supports international characters.

What should you do? (To answer, simply select the option or options in the answer area that you would configure.)



- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Answer: Tick the "Unicode" checkbox.

Set the Format option to "Fixed Width"

Untick the "Column names in the first data row" checkbox.

Explanation:

Each record is of the same length = Fixed Width.

The file supports international characters = Unicode. The date follows the U.S. date format = Locale (already configured). The first row of the file contains the first row of data = Uncheck "Column names in the first data row"

**QUESTION 78**

You administer a Microsoft SQL Server 2012 database. The database contains a table named Employee. Part of the Employee table is shown in the exhibit.

Column Name	Condensed Type
EmployeeID	int
EmployeeNum	char(10)
LastName	nvarchar(200)
FirstName	nvarchar(200)
MiddleName	nvarchar(200)
DateHired	date
DepartmentID	int
JobTitle	varchar(200)
ReportsToID	int

<b>Column name</b>	<b>Description</b>
EmployeeID(pk)	Uniquely identifies the employee record in the table Used throughout the database by all the other tables that reference the Employee table
EmployeeNum	An alphanumeric value calculated according to company requirements Has to be unique within the Employee table Exists only within the Employee table
DepartmentID	References another table named Department that contains data about each department in the company
ReportsToID	Contains the EmployeeID of the manager to whom an employee reports
ReportsToID	Contains the EmployeeID of the manager to whom an employee reports

Confidential information about the employees is stored in a separate table named EmployeeData. One record exists within EmployeeData for each record in the Employee table. You need to assign the appropriate constraints and table properties to ensure data integrity and visibility. On which column in the Employee table should you create a unique constraint?

- A. DateHired
- B. DepartmentID
- C. EmployeeID
- D. EmployeeNum
- E. FirstName
- F. JobTitle
- G. LastName
- H. MiddleName
- I. ReportsToID

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 79**

You administer a Microsoft SQL Server 2012 database. The database contains a table named Employee.

Part of the Employee table is shown in the exhibit. (Click the Exhibit button.)

Employee (jek)	
Column Name	Condensed Type
EmployeeID	int
EmployeeNum	char(10)
LastName	nvarchar(200)
FirstName	nvarchar(200)
MiddleName	nvarchar(200)
DateHired	date
DepartmentID	int
JobTitle	varchar(200)
ReportsToID	int

Column name	Description
EmployeeID	Uniquely identifies the employee record in the table Used throughout the database by all the other tables that reference the Employee table
EmployeeNum	An alphanumeric value calculated according to company requirements Has to be unique within the Employee table Exists only within the Employee table
DepartmentID	References another table named Department that contains each department in the company
ReportsToID	Contains the EmployeeID of the manager to whom an employee reports

Confidential information about the employees is stored in a separate table named EmployeeData. One record exists within EmployeeData for each record in the Employee table. You need to assign the appropriate constraints and table properties to ensure data integrity and visibility. On which column in the Employee table should you use an identity specification to include a seed of 1,000 and an increment of 1?

- A. DateHired
- B. DepartmentID
- C. EmployeeID
- D. EmployeeNum
- E. FirstName
- F. JobTitle
- G. LastName
- H. MiddleName
- I. ReportsToID

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 80**

You are a database developer of a Microsoft SQL Server 2012 database. You are designing a table that will store Customer data from different sources. The table will include a column that contains the CustomerID from the source system and a column that contains the SourceID. A sample of this data is as shown in the following table. You need to ensure that the table has no duplicate CustomerID within a SourceID. You also need to ensure that the data in the table is in the order of SourceID and then CustomerID.

Which Transact- SQL statement should you use?

- A. CREATE TABLE Customer  
(SourceID int NOT NULL IDENTITY,  
CustomerID int NOT NULL IDENTITY,  
CustomerName varchar(255) NOT NULL);
- B. CREATE TABLE Customer  
(SourceID int NOT NULL,  
CustomerID int NOT NULL PRIMARY KEY CLUSTERED,  
CustomerName varchar(255) NOT NULL);
- C. CREATE TABLE Customer  
(SourceID int NOT NULL PRIMARY KEY CLUSTERED,  
CustomerID int NOT NULL UNIQUE,  
CustomerName varchar(255) NOT NULL);
- D. CREATE TABLE Customer  
(SourceID int NOT NULL,  
CustomerID int NOT NULL,  
CustomerName varchar(255) NOT NULL,  
CONSTRAINT PK\_Customer PRIMARY KEY CLUSTERED  
(SourceID, CustomerID));

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 81**

You are designing a SQL Server Integration Services (SSIS) solution. The solution will contain an SSIS project that includes several SSIS packages. Each SSIS package will define the same connection managers and variables.

You have the following requirements:

- Ensure that the deployment model supports changing the content of connection strings by using parameters at execution time.

- Ensure that the deployment model automatically starts from calls to the catalog.start\_execution stored procedure in the SSISDB database.
- Maximize performance at execution time.
- Minimize development effort.

You need to design a solution that meets the requirements.

What should you do? (More than one answer choice may achieve the goal. Select the BEST answer.)

- A. Use a project deployment model. Modify connection manager properties to use project parameters. Ensure that the SSISDB database is created.
- B. Use a project deployment model. Configure connections in an XML configuration file referenced by an environment variable that corresponds to the SQL Server environment of each SSIS package.
- C. Use a package deployment model. Use a SQL Server package configuration with a common filter. Change the contents of the SSIS Configurations table at runtime.
- D. Use a package deployment model. Save each SSIS package to a file share that can be accessed from all environments.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 82

You are designing a partitioning strategy for a large fact table in a data warehouse. Tens of millions of new records are loaded into the data warehouse weekly, outside of business hours.

Most queries are generated by reports and by cube processing. Data is frequently queried at the day level and occasionally at the month level.

You need to partition the table to maximize the performance of queries. What should you do? (More than one answer choice may achieve the goal. Select the BEST answer.)

- A. Partition the fact table by month, and compress each partition.
- B. Partition the fact table by week.
- C. Partition the fact table by year.
- D. Partition the fact table by day, and compress each partition.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 83

You are designing an extract, transform, load (ETL) process for loading data from a SQL Server database into a large fact table in a data warehouse each day with the prior day's sales data.

The ETL process for the fact table must meet the following requirements:

- Load new data in the shortest possible time.
- Remove data that is more than 36 months old.
- Ensure that data loads correctly.
- Minimize record locking.
- Minimize impact on the transaction log.

You need to design an ETL process that meets the requirements. What should you do? (More than one answer choice may achieve the goal. Select the BEST answer.)

- A. Partition the destination fact table by date. Insert new data directly into the fact table and delete old data

- directly from the fact table.
- B. Partition the destination fact table by date. Use partition switching and staging tables both to remove old data and to load new data.
  - C. Partition the destination fact table by customer. Use partition switching both to remove old data and to load new data into each partition.
  - D. Partition the destination fact table by date. Use partition switching and a staging table to remove old data. Insert new data directly into the fact table.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 84**

You are designing a fact table in a SQL Server database.

The fact table must meet the following requirements:

- Include a columnstore index.
- Allow users to choose up to 10 dimension tables and up to five facts at one time. - Maximize performance of queries that aggregate measures by using any of the 10 dimensions.
- Support billions of rows.
- Use the most efficient design strategy.

You need to design the fact table to meet the requirements. What should you do? (More than one answer choice may achieve the goal. Select the BEST answer.)

- A. Design a fact table with 5 dimensional key columns and 10 measure columns. Place the columnstore index on the dimensional key columns.
- B. Design a fact table with 5 dimensional key columns and 10 measure columns. Place the columnstore index on the measure columns.
- C. Design a fact table with 10 dimensional key columns and 5 measure columns. Place the columnstore index on the dimensional key columns and the measure columns.
- D. Design a fact table with 10 dimensional key columns and 5 measure columns. Place the columnstore index on only the measure columns.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 85**

You are designing a SQL Server Integration Services (SSIS) solution that will load multiple Online Transactional Processing (OLTP) data sources into a SQL Server data mart.

You have the following requirements:

- Ensure that the process supports the creation of an exception report that details possible duplicate key values, null ratios within columns, and column-length distributions of values.
- Ensure that users can generate the exception report in an XML format.
- Use the minimum development effort.

You need to design the SSIS solution to meet the requirements. What should you do? (More than one answer choice may achieve the goal. Select the BEST answer.)

- A. Use a Data Profiling task. Use a Data Flow task to extract the XML output of the Data Profiling task into a SQL Server table. Query the table to view the exceptions.
- B. Use Data Flow tasks to process the clean data.

- C. Use a Data Profiling task. Read the exceptions in Data Profile Viewer.
- D. Design a stored procedure that examines data for common dirty data patterns. Use an Execute SQL task.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 86**

You are designing a SQL Server Integration Services (SSIS) solution. The solution will contain an SSIS project that includes several SSIS packages. Each SSIS package will define the same connection managers and variables.

You have the following requirements:

- The deployment model must support changing the content of connection strings by using parameters at execution time.
- The deployment model must automatically log events to the SSISDB database.
- Maximize performance at execution time.

You need to design a solution that meets the requirements. What should you do? (More than one answer choice may achieve the goal. Select the BEST answer.)

- A. Use a project deployment model. Modify connection manager properties to use project parameters.
- B. Use a package deployment model. Save each SSIS package to a file share that can be accessed from all environments.
- C. Use a package deployment model. Configure connections in an XML configuration file referenced by an environment variable that corresponds to the SQL Server environment of each SSIS package.
- D. Use a project deployment model. Modify connection manager properties to use package parameters.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 87**

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. Create a view on the sales table.
- B. Partition the fact tables by day.
- C. Create a surrogate key for the time dimension.
- D. Change the level of granularity in both fact tables to be the same.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 88**

You are deploying a new SQL Server Integration Services (SSIS) package to several 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 the package.
- The deployment procedure must be automated as much as possible.
- 

You need to set up a deployment strategy that meets the requirements.

What should you do?

- A. Use the gacutil command.
- B. Use the dtutil /copy command.
- C. Use the Project Deployment Wizard.
- D. Create an OnError event handler.
- E. Create a reusable custom logging component.
- F. Run the package by using the dtexec /rep /conn command.
- G. Run the package by using the dtexec /dumperror /conn command.
- H. Run the package by using the dtexecui.exe utility and the SQL Log provider.
- I. Add a data tap on the output of a component in the package data flow.
- J. Deploy the package by using an msi file.
- K. Deploy the package to the Integration Services catalog by using dtutil and use SQL Server to store the configuration.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 89**

You maintain a SQL Server Integration Services (SSIS) package. The package was developed by using SQL Server 2008 Business Intelligence Development Studio (BIDS). The package includes custom scripts that must be upgraded.

You need to upgrade the package to SQL Server 2012.

Which tool should you use?

- A. SQL Server dtexec utility (dtexec.exe)
- B. SQL Server DTExecUI utility (dtexecui.exe)
- C. SSIS Upgrade Wizard in SQL Server Data Tools
- D. SQL Server Integration Services Deployment Wizard

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Use the SSIS Package Upgrade Wizard to upgrade SQL Server 2005 Integration Services (SSIS) packages and SQL Server 2008 Integration Services (SSIS) packages to the package format for the current (2012) release of SQL Server Integration Services.

#### **QUESTION 90**

You administer a SQL Server Integration Services (SSIS) solution in the SSIS catalog. A SQL Server Agent job is used to execute a package daily with the basic logging level. Recently, the package execution failed because of a primary key violation when the package inserted data into the destination table.

You need to identify all previous times that the package execution failed because of a primary key violation. What should you do?

- A. Use an event handler for OnError for the package.
- B. Use an event handler for OnError for each data flow task.
- C. Use an event handler for OnTaskFailed for the package.
- D. View the job history for the SQL Server Agent job.
- E. View the All Messages subsection of the All Executions report for the package.
- F. Store the System::SourceID variable in the custom log table.
- G. Store the System::ServerExecutionID variable in the custom log table.
- H. Store the System::ExecutionInstanceGUID variable in the custom log table.
- I. Enable the SSIS log provider for SQL Server for OnError in the package control flow.
- J. Enable the SSIS log provider for SQL Server for OnTaskFailed in the package control flow.
- K. Deploy the project by using dtutil.exe with the /COPY DTS option.
- L. Deploy the project by using dtutil.exe with the /COPY SQL option.
- M. Deploy the .ispac file by using the Integration Services Deployment Wizard.
- N. Create a SQL Server Agent job to execute the SSISDB.catalog.validate\_project stored procedure.
- O. Create a SQL Server Agent job to execute the SSISDB.catalog.validate\_package stored procedure.
- P. Create a SQL Server Agent job to execute the SSISDB.catalog.create\_execution and SSISDB.catalog.start\_execution stored procedures.
- Q. Create a table to store error information. Create an error output on each data flow destination that writes OnError event text to the table.
- R. Create a table to store error information. Create an error output on each data flow destination that writes OnTaskFailed event text to the table.

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 91**

You are developing a SQL Server Integration Services (SSIS) package to load data into a Windows Azure SQL Database database. The package consists of several data flow tasks.

The package has the following auditing requirements:

- If a data flow task fails, a Transact-SQL (T-SQL) script must be executed.
- The T-SQL script must be executed only once per data flow task that fails, regardless of the nature of the error.

You need to ensure that auditing is configured to meet these requirements.

What should you do?

- A. Use an event handler for OnError for the package.
- B. Use an event handler for OnError for each data flow task.
- C. Use an event handler for OnTaskFailed for the package.
- D. View the job history for the SQL Server Agent job.
- E. View the All Messages subsection of the All Executions report for the package.
- F. Store the System::SourceID variable in the custom log table.
- G. Store the System::ServerExecutionID variable in the custom log table.
- H. Store the System::ExecutionInstanceGUID variable in the custom log table.
- I. Enable the SSIS log provider for SQL Server for OnError in the package control flow.
- J. Enable the SSIS log provider for SQL Server for OnTaskFailed in the package control flow.
- K. Deploy the project by using dtutil.exe with the /COPY DTS option.
- L. Deploy the project by using dtutil.exe with the /COPY SQL option.
- M. Deploy the .ispac file by using the Integration Services Deployment Wizard.
- N. Create a SQL Server Agent job to execute the SSISDB.catalog.validate\_project stored procedure.

- O. Create a SQL Server Agent job to execute the SSISDB.catalog.validate\_package stored procedure.
- P. Create a SQL Server Agent job to execute the SSISDB.catalog.create\_execution and SSISDB.catalog.start\_execution stored procedures.
- Q. Create a table to store error information. Create an error output on each data flow destination that writes OnTaskFailed event text to the table.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 92**

You are developing a SQL Server Integration Services (SSIS) project with multiple packages to copy data to a Windows Azure SQL Database database.

An automated process must validate all related Environment references, parameter data types, package references, and referenced assemblies. The automated process must run on a regular schedule.

You need to establish the automated validation process by using the least amount of administrative effort.

What should you do?

- A. Use an event handler for OnError for the package.
- B. Use an event handler for OnError for each data flow task.
- C. Use an event handler for OnTaskFailed for the package.
- D. View the job history for the SQL Server Agent job.
- E. View the All Messages subsection of the All Executions report for the package.
- F. Store the System::SourceID variable in the custom log table.
- G. Store the System::ServerExecutionID variable in the custom log table.
- H. Store the System::ExecutionInstanceGUID variable in the custom log table.
- I. Enable the SSIS log provider for SQL Server for OnError in the package control flow.
- J. Enable the SSIS log provider for SQL Server for OnTaskFailed in the package control flow.
- K. Deploy the project by using dtutil.exe with the /COPY DTS option.
- L. Deploy the project by using dtutil.exe with the /COPY SQL option.
- M. Deploy the .ispac file by using the Integration Services Deployment Wizard.
- N. Create a SQL Server Agent job to execute the SSISDB.catalog.validate\_project stored procedure.
- O. Create a SQL Server Agent job to execute the SSISDB.catalog.validate\_package stored procedure.
- P. Create a SQL Server Agent job to execute the SSISDB.catalog.create\_execution and SSISDB.catalog.start\_execution stored procedures.
- Q. Create a table to store error information. Create an error output on each data flow destination that writes OnError event text to the table.
- R. Create a table to store error information. Create an error output on each data flow destination that writes OnTaskFailed event text to the table.

**Correct Answer:** N

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 93**

You are developing a SQL Server Integration Services (SSIS) project by using the Project Deployment Model. All packages in the project must log custom messages. You need to produce reports that combine the custom log messages with the system-generated log messages. What should you do?

- A. Use an event handler for OnError for the package.
- B. Use an event handler for OnError for each data flow task.
- C. Use an event handler for OnTaskFailed for the package.
- D. View the job history for the SQL Server Agent job.
- E. View the All Messages subsection of the All Executions report for the package.
- F. Store the System::SourceID variable in the custom log table.
- G. Store the System::ServerExecutionID variable in the custom log table.
- H. Store the System::ExecutionInstanceGUID variable in the custom log table.
- I. Enable the SSIS log provider for SQL Server for OnError in the package control flow.
- J. Enable the SSIS log provider for SQL Server for OnTaskFailed in the package control flow,
- K. Deploy the project by using dtutil.exe with the /COPY DTS option.
- L. Deploy the project by using dtutil.exe with the /COPY SQL option.
- M. Deploy the .ispac file by using the Integration Services Deployment Wizard.
- N. Create a SQL Server Agent job to execute the SSISDB.catalog.validate\_project stored procedure.
- O. Create a SQL Server Agent job to execute the SSISDB.catalog.validate\_package stored procedure.
- P. Create a SQL Server Agent job to execute the SSISDB.catalog.create\_execution and SSISDB.catalog.start\_execution stored procedures.
- Q. Create a table to store error information. Create an error output on each data flow destination that writes OnError event text to the table.
- R. Create a table to store error information. Create an error output on each data flow destination that writes OnTaskFailed event text to the table.

**Correct Answer:** G

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 94**

You are developing a SQL Server Integration Services (SSIS) package to implement an incremental data load strategy. The package reads data from a source system that uses the SQL Server change data capture (CDC) feature.

You have added a CDC Source component to the data flow to read changed data from the source system.

You need to add a data flow transformation to redirect rows for separate processing of insert, update, and delete operations.

Which data flow transformation should you use?

- A. Audit
- B. Merge Join
- C. Merge
- D. CDC Splitter

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation: The CDC splitter splits a single flow of change rows from a CDC source data flow into different data flows for Insert, Update and Delete operations Ref: <http://msdn.microsoft.com/en-us/library/hh758656.aspx>

#### **QUESTION 95**

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

\* 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.

## QUESTION 96

You develop a SQL Server Integration Services (SSIS) package in a project by using the Project Deployment Model. It is regularly executed within a multi-step SQL Server Agent job.

You make changes to the package that should improve performance.

You need to establish if there is a trend in the durations of the next 10 successful executions of the package. You need to use the least amount of administrative effort to achieve this goal.

What should you do?

- A. After 10 executions, in SQL Server Management Studio, view the Execution Performance subsection of the All Executions report for the package.
- B. Configure the package to send you an email upon completion that includes information about the duration of the package. After 10 executions, view the emails.
- C. Enable logging to the Application Event Log in the package control flow for the OnInformation event. After 10 executions, view the Application Event Log.
- D. Enable logging to the Application Event Log in the package control flow for the OnPostExecute event. After 10 executions, view the Application Event Log.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

The All Executions Report displays a summary of all Integration Services executions that have been performed on the server. There can be multiple executions of the sample package. Unlike the Integration Services Dashboard report, you can configure the All Executions report to show executions that have started during a range of dates. The dates can span multiple days, months, or years.

The report displays the following sections of information.

\* Filter

Shows the current filter applied to the report, such as the Start time range.

\* Execution Information

Shows the start time, end time, and duration for each package execution. You can view a list of the parameter values that were used with a package execution, such as values that were passed to a child package using the Execute Package task.

### QUESTION 97

Your team is creating SQL Server Integration Services (SSIS) packages that have several dependencies. The packages use parameters for configuration purposes.

Your company's IT policies include the following change control requirements:

- After a package is ready for deployment, your team must hand over the process to junior IT personnel.
- The process must guarantee that when a package has been validated, that same package (and all its dependencies) is deployed to production.
- The process must be repeatable and reliable and must be executed with the least administrative and training effort by junior IT personnel.

You need to use the most appropriate deployment unit to satisfy the company policies, while minimizing issues such as incorrect version or configuration.

Which type of deployment unit should you use?

- A. dtsx
- B. SSIS deployment manifest
- C. msi
- D. ispac

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

### QUESTION 98

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 source should you use?

- A. Raw File source
- B. XML source
- C. Custom source component
- D. Flat File source

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

### QUESTION 99

You are developing a SQL Server Integration Services (SSIS) project by using the Project Deployment Model.

The project is deployed to a single SSIS catalog, and transfers data to and from multiple databases hosted on SQL Server.

The project must be configured to be able to export data to and from five different production servers that run SQL Server 2012. Each target server requires different values for connection strings and parameters in

the SSIS project.

You need to meet the requirements by using the least amount of administrative effort.

What should you do?

- A. For each target server, create separate registry entry configurations. Select the registry entry at package execution time.
- B. For each target server, create separate Environments in the SSIS catalog of the host SQL Server SSIS instance. Select the appropriate Environment at package execution time.
- C. Create one SSIS catalog Environment. Change the values of each Environment variable at package execution time.
- D. For each target server, create a separate XML configuration file. Select the XML configuration file at package execution time.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 100**

You are developing a SQL Server Integration Services (SSIS) package to implement an incremental data load strategy.

The package reads data from a source system. Depending on the value in a source column, the package redirects rows to one of five different data flow paths.

You need to add a data flow transformation to support the package redirection.

Which data flow transformation should you use?

- A. Conditional Split
- B. Pivot
- C. Multicast
- D. Lookup

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 101**

You are developing a SQL Server Integration Services (SSIS) project that contains a project Connection Manager and multiple packages.

All packages in the project must connect to the same database. The server name for the database must be set by using a parameter named ServerParam when any package in the project is executed.

You need to develop this project with the least amount of development effort.

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

- A. Set the Sensitive property of the parameter to True.
- B. Edit each package Connection Manager. Set the ServerName property to @[\$Project::ServerParam].
- C. Edit the project Connection Manager in Solution Explorer. Set the ServerName property to @[\$Project::ServerParam].
- D. Create a project parameter named ServerName.

- E. Create a package parameter named ServerName in each package.
- F. Set the Required property of the parameter to True.

**Correct Answer:** CDF

**Section:** (none)

**Explanation**

**Explanation/Reference:**

C: From question: " The server name for the database must be set by using a parameter named ServerParam when any package in the project is executed."

D: SSIS 2012 has introduced the concept of Project level connection managers. An SSIS project is generally more than one package. To simplify lives, the SSIS team now allows for the sharing of common resources across projects, connection managers being one of those resources.

F: When a parameter is marked as required, a server value or execution value must be specified for that parameter. Otherwise, the corresponding package does not execute. Although the parameter has a default value at design time, it will never be used once the project is deployed.

**Note:**

\* Integration Services (SSIS) parameters allow you to assign values to properties within packages at the time of package execution. You can create project parameters at the project level and package parameters at the package level. Project parameters are used to supply any external input the project receives to one or more packages in the project. Package parameters allow you to modify package execution without having to edit and redeploy the package.

Reference: Integration Services (SSIS) Parameters

### **QUESTION 102**

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. Install the Analysis Services OLE DB Provider.
- B. Run the DQSInstaller.exe command.
- C. Run the Configuration component in the Data Quality Client.
- D. Make the data available for DQS operations.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 103**

You are developing a SQL Server Integration Services (SSIS) project by using the Project Deployment Model.

The project will be deployed to an SSIS catalog folder where Environments have already been created. You need to deploy the project. What should you do?

- A. Use an event handler for OnError for the package.
- B. Use an event handler for OnError for each data flow task.
- C. Use an event handler for OnTaskFailed for the package.
- D. View the job history for the SQL Server Agent job.
- E. View the All Messages subsection of the All Executions report for the package.
- F. Store the System::SourceID variable in the custom log table.
- G. Store the System::ServerExecutionID variable in the custom log table.
- H. Store the System::ExecutionInstanceGUID variable in the custom log table.

- I. Enable the SSIS log provider for SQL Server for OnError in the package control flow.
- J. Enable the SSIS log provider for SQL Server for OnTaskFailed in the package control flow,
- K. Deploy the project by using dtutil.exe with the /COPY DTS option.
- L. Deploy the project by using dtutil.exe with the /COPY SQL option.
- M. Deploy the .ispac file by using the Integration Services Deployment Wizard.
- N. Create a SQL Server Agent job to execute the SSISDB.catalog.validate\_project stored procedure.
- O. Create a SQL Server Agent job to execute the SSISDB.catalog.validate\_package stored procedure.
- P. Create a SQL Server Agent job to execute the SSISDB.catalog.create\_execution and SSISDB.catalog.start\_execution stored procedures.
- Q. Create a table to store error information. Create an error output on each data flow destination that writes OnError event text to the table.
- R. Create a table to store error information. Create an error output on each data flow destination that writes OnTaskFailed event text to the table.

**Correct Answer:** M

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 104**

You are developing a SQL Server Integration Services (SSIS) package to load data into a data warehouse. The package consists of several data flow tasks.

The package experiences intermittent errors in the data flow tasks.

If any data flow task fails, all package error information must be captured and written to a SQL Server table by using an OLE DB connection manager.

You need to ensure that the package error information is captured and written to the table.

What should you do?

- A. Use an event handler for OnError for the package.
- B. Use an event handler for OnError for each data flow task.
- C. Use an event handler for OnTaskFailed for the package.
- D. View the job history for the SQL Server Agent job.
- E. View the All Messages subsection of the All Executions report for the package.
- F. Store the System::SourceID variable in the custom log table.
- G. Store the System::ServerExecutionID variable in the custom log table.
- H. Store the System::ExecutionInstanceGUID variable in the custom log table.
- I. Enable the SSIS log provider for SQL Server for OnError in the package control flow.
- J. Enable the SSIS log provider for SQL Server for OnTaskFailed in the package control flow.
- K. Deploy the project by using dtutil.exe with the /COPY DTS option.
- L. Deploy the project by using dtutil.exe with the /COPY SQL option.
- M. Deploy the .ispac file by using the Integration Services Deployment Wizard.
- N. Create a SQL Server Agent job to execute the SSISDB.catalog.validate\_project stored procedure.
- O. Create a SQL Server Agent job to execute the SSISDB.catalog.validate\_package stored procedure.
- P. Create a SQL Server Agent job to execute the SSISDB.catalog.create\_execution and SSISDB.catalog.start\_execution stored procedures.
- Q. Create a table to store error information. Create an error output on each data flow destination that writes OnError event text to the table.
- R. Create a table to store error information. Create an error output on each data flow destination that writes OnTaskFailed event text to the table.

**Correct Answer:** I

**Section: (none)****Explanation****Explanation/Reference:****QUESTION 105**

You are developing a SQL Server Integration Services (SSIS) project to read and write data from a Windows Azure SQL Database database to a server that runs SQL Server 2012. The connection will be used by data flow tasks in multiple SSIS packages. The address of the target Windows Azure SQL Database database will be provided by a project parameter. You need to create a solution to meet the requirements by using the least amount of administrative effort and maximizing data flow performance.

What should you do?

- A. Use an SSIS Script task that uses the custom assembly to parse the text data when inserting it.
- B. Use an SSIS Script transformation that uses the custom assembly to parse the text data when inserting it.
- C. Create a SQL Common Language Runtime (SQLCLR) function that uses the custom assembly to parse the text data, deploy it in the Windows Azure SQL Database database, and use it when inserting data.
- D. Create a SQL Common Language Runtime (SQLCLR) stored procedure that uses the custom assembly to parse the text data, deploy it in the Windows Azure SQL Database database, and use it when inserting data.

**Correct Answer: A****Section: (none)****Explanation****Explanation/Reference:****QUESTION 106**

You develop a SQL Server Integration Services (SSIS) project by using the Package Deployment Model. A package in the project extracts data from a Windows Azure SQL Database database.

The package is deployed to SQL Server.

The package is not producing the desired results.

You need to generate the .mdmp and .tmp debug files in order to troubleshoot the issues.

What should you do?

- A. Execute the catalog.add\_data\_tap stored procedure with the package execution\_id.
- B. Execute the catalog.create\_execution\_dump stored procedure with the package execution\_id.
- C. Run the DTEXEC utility with the /DumpOnError option.
- D. Run the DTEXEC utility with the /Reporting V option.

**Correct Answer: C****Section: (none)****Explanation****Explanation/Reference:****QUESTION 107**

You are developing a SQL Server Integration Services (SSIS) project that contains a project Connection Manager and multiple packages.

All packages in the project must connect to the same database. The server name for the database must be set by using a parameter named ParamConnection when any package in the project is executed.

You need to develop this project with the least amount of development effort.

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

- A. Create a package parameter named ConnectionName in each package.
- B. Edit each package Connection Manager. Set the ConnectionName property to @[\$Project::ParamConnection].
- C. Edit the project Connection Manager in Solution Explorer. Set the ConnectionName property to @[\$Project::ParamConnection].
- D. Set the Sensitive property of the parameter to True.
- E. Create a project parameter named ConnectionName.
- F. Set the Required property of the parameter to True.

**Correct Answer:** CEF

**Section:** (none)

**Explanation**

**Explanation/Reference:**

C: From question: "The server name for the database must be set by using a parameter named ParamConnection when any package in the project is executed."

E: SSIS 2012 has introduced the concept of Project level connection managers. An SSIS project is generally more than one package. To simplify lives, the SSIS team now allows for the sharing of common resources across projects, connection managers being one of those resources.

F: When a parameter is marked as required, a server value or execution value must be specified for that parameter. Otherwise, the corresponding package does not execute. Although the parameter has a default value at design time, it will never be used once the project is deployed.

**Note:**

\* Integration Services (SSIS) parameters allow you to assign values to properties within packages at the time of package execution. You can create project parameters at the project level and package parameters at the package level. Project parameters are used to supply any external input the project receives to one or more packages in the project. Package parameters allow you to modify package execution without having to edit and redeploy the package.

Reference: Integration Services (SSIS) Parameters

**QUESTION 108**

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 source should you use?

- A. Raw File source
- B. XML source
- C. Custom source component
- D. Flat File source

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 109**

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?

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 110

You develop a SQL Server Integration Services (SSIS) package that imports Windows Azure SQL Database data into a data warehouse every night. The Windows Azure SQL Database data contains many misspellings and variations of abbreviations. To import the data, a developer used the Fuzzy Lookup transformation to choose the closest-matching string from a reference table of allowed values. The number of rows in the reference table is very large.

If no acceptable match is found, the Fuzzy Lookup transformation passes a null value. The current setting for the Fuzzy Lookup similarity threshold is 0.50.

Many values are incorrectly matched.

You need to ensure that more accurate matches are made by the Fuzzy Lookup transformation without degrading performance.

What should you do?

- Change the similarity threshold to 0.40.
- Decrease the maximum number of matches per lookup.
- Change the similarity threshold to 0.85.
- Increase the maximum number of matches per lookup.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

\* Similarity threshold

Set the similarity threshold at the component level by using the slider. The closer the value is to 1, the closer the resemblance of the lookup value to the source value must be to qualify as a match. Increasing the threshold can improve the speed of matching since fewer candidate records need to be considered.

### QUESTION 111

You maintain a SQL Server Integration Services (SSIS) package. The package was developed by using

SQL Server 2008 Business Intelligence Development Studio (BIDS). The package includes custom scripts that must be upgraded.  
You need to upgrade the package to SQL Server 2012.  
Which tool should you use?

- A. SQL Server Integration Services Deployment Wizard
- B. SQL Server Configuration Manager
- C. SSIS Upgrade Wizard in SQL Server Management Studio
- D. SSIS Upgrade Wizard in SQL Server 2008 BIDS

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

You can upgrade packages that were created in earlier versions of Integration Services to the Integration Services format that SQL Server 2012 uses. SQL Server provides the SSIS Package Upgrade Wizard to help in this process. Because you can configure the wizard to backup up your original packages, you can continue to use the original packages if you experience upgrade difficulties.

You can run the SSIS Package Upgrade Wizard from SQL Server Data Tools (SSDT), from SQL Server Management Studio, or at the command prompt.

**Note:**

\* When you upgrade an instance of SQL Server 2005 or SQL Server 2008 to the current release of SQL Server, your existing SQL Server 2008 Integration Services (SSIS) packages are not automatically upgraded to the package format that the current release SQL Server Integration Services uses. You will have to select an upgrade method and manually upgrade your packages.

**QUESTION 112**

You are preparing to install SQL Server 2012 Master Data Services (MDS).

You need to ensure that the database requirements are met.

What should you install?

- A. Microsoft SharePoint Foundation 2010 SP1
- B. SQL Server 2012 Enterprise (64-bit) x64 on the database server
- C. SQL Server 2012 Data Center (64-bit) x64 on the database server
- D. SQL Server 2008 Enterprise (64-bit) x64 on the database server

**Correct Answer:** B

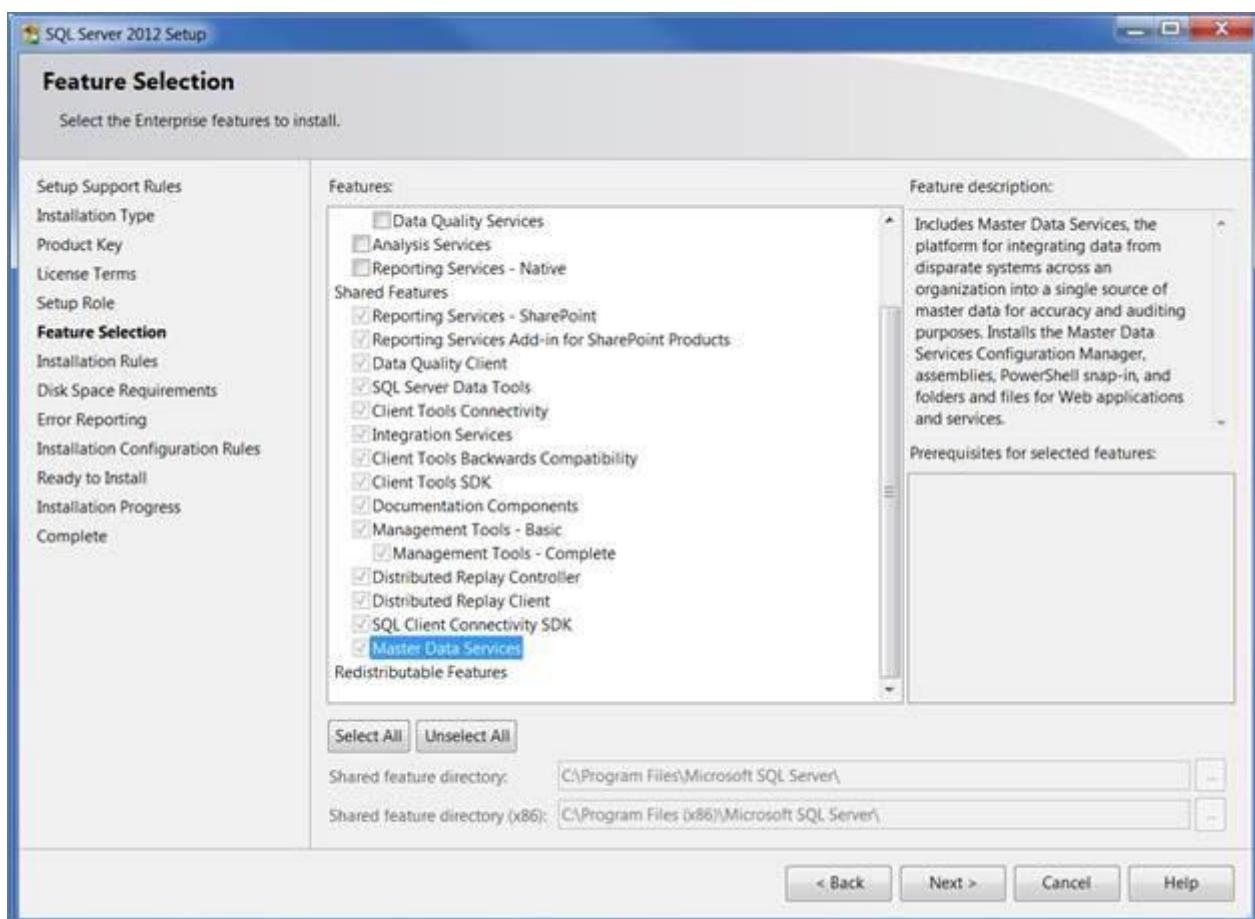
**Section:** (none)

**Explanation**

**Explanation/Reference:**

\* Master Data Services is a new feature introduced in SQL Server 2008 R2 and further enhanced in SQL Server 2012.

\* SQL Server 2012 Enterprise features include Master Data Services:



**Note:**

\* Microsoft SQL Server Master Data Services is a Master Data Management (MDM) product from Microsoft, which will ship as a part of the Microsoft SQL Server database. Originally code-named Bulldog, Master Data Services is the rebranding of the Stratature MDM product titled +EDM, which Microsoft acquired in June 2007. Master Data Services is architecturally similar to +EDM, with increased integration with other Microsoft applications as well as some new features. Master Data Services first shipped with Microsoft SQL Server 2008 R2.

**QUESTION 113**

You are installing the Data Quality Server component of Data Quality Services.

You need to provision the hardware and install the software for the server that runs the Data Quality Server.

You must ensure that the minimum Data Quality Server prerequisites are met.  
What should you do?

- A. Install SQL Server 2012 Database Engine.
- B. Install Microsoft SharePoint Server 2010 Enterprise Edition with PowerPivot.
- C. Make sure the server has at least 4 GB of RAM.
- D. Install Microsoft Internet Explorer 6.0 SP1 or later.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Data Quality Server Minimum System Requirements

\* SQL Server 2012 Database Engine.

\* Memory (RAM):

Minimum: 2 GB

Recommended: 4 GB or more

Note: SQL Server Data Quality Services (DQS) is a new feature in SQL Server 2012 that contains the following two components: Data Quality Server and Data Quality Client.

#### **QUESTION 114**

You are implementing a SQL Server Integration Services (SSIS) package that imports Microsoft Excel workbook data into a Windows Azure SQL Database database. The package has been deployed to a production server that runs Windows Server 2008 R2 and SQL Server 2012.

The package fails when executed on the production server.

You need to ensure that the package can load the Excel workbook data without errors. You need to use the least amount of administrative effort to achieve this goal.

What should you do?

- A. Install a 64-bit ACE driver and execute the package by using the 64-bit run-time option.
- B. Enable Address Windowing Extensions (AWE) for the local SQL Server instance.
- C. Replace the SSIS Excel source with a SSIS Flat File source.
- D. Install a 64-bit ACE driver and replace the Excel source with an OLE DB source.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

XLSX files, the new file type in Excel 2007/2010 cannot be opened with Excel Source/Destination in SSIS. To use XLSX in SSIS we need to install ACE driver and use OLE DB Source/Destination to read read/write data in XLSX files. ACE is a set of components that facilitate the transfer of data between existing Microsoft Office files such as Microsoft Office Access (\*.mdb and \*.accdb) files and Microsoft Office Excel 7 (\*.xls, \*.xlsx, and \*.xlsb) files to Microsoft SQL Server. If the SQL Server or your development box does not have ACE driver then install that 1st.

**Note:**

\* The most efficient way to link to SQL Server is using an OLEDB connection manager.

Incorrect:

Not B:

- \* Address Windowing Extensions (AWE) is a Microsoft Windows application programming interface that allows a 32-bit software application to access more physical memory than it has virtual address space.
- \* Address Windowing Extensions (AWE) is a set of extensions that allows an application to quickly manipulate physical memory greater than 4GB. Certain data-intensive applications, such as database management systems and scientific and engineering software, need access to very large caches of data. In the case of very large data sets, restricting the cache to fit within an application's 2GB of user address space is a severe restriction.

#### **QUESTION 115**

You develop a SQL Server Integration Services (SSIS) package in a project by using the Project Deployment Model. It is regularly executed within a multi-step SQL Server Agent job. You make changes to the package that should improve performance. You need to establish if there is a trend in the durations of the next 10 successful executions of the package. You need to use the least amount of administrative effort to achieve this goal.

What should you do?

- A. After 10 executions, view the job history for the SQL Server Agent job.
- B. After 10 executions, in SQL Server Management Studio, view the Execution Performance subsection of the All Executions report for the project.
- C. Enable logging to the Application Event Log in the package control flow for the OnInformation event.  
After 10 executions, view the Application Event Log.
- D. Enable logging to an XML file in the package control flow for the OnPostExecute event.  
After 10 executions, view the XML file.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

The All Executions Report displays a summary of all Integration Services executions that have been performed on the server. There can be multiple executions of the sample package. Unlike the Integration Services Dashboard report, you can configure the All Executions report to show executions that have started during a range of dates. The dates can span multiple days, months, or years.

The report displays the following sections of information.

\* Filter

Shows the current filter applied to the report, such as the Start time range.

\* Execution Information

Shows the start time, end time, and duration for each package execution. You can view a list of the parameter values that were used with a package execution, such as values that were passed to a child package using the Execute Package task.

**QUESTION 116**

You are performance tuning a SQL Server Integration Services (SSIS) package to load sales data from a source system into a data warehouse that is hosted on Windows Azure SQL Database. The package contains a data flow task that has 10 source-to-destination execution trees. Only five of the source-to-destination execution trees are running in parallel. You need to ensure that all the execution trees run in parallel.

What should you do?

- A. Add OnError and OnWarning event handlers.
- B. Create a new project and add the package to the project.
- C. Query the ExecutionLog table.
- D. Add an Execute SQL task to the event handlers.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 117**

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.RestoreDQDatabases 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.InitServer stored procedure with the appropriate parameter.

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Steps to restore DQS Databases:

1. Restore DQS\_MAIN database.
  2. Restore the DQS\_PROJECTS database.
  - Restore the DQS\_STAGING\_DATA database.
  - 3.
  - In Object Explorer, right-click the server, and then click New Query.
  - 4.
- In the Query Editor window, copy the following SQL statements, and 5.  
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 6. 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)

### **QUESTION 118**

You are designing an extract, transform, and load (ETL) solution that loads data into dimension tables. The ETL process involves many transformation steps.

You need to ensure that the design can provide:

- Auditing information for compliance and business user acceptance
- Tracking and unique identification of records for troubleshooting and error correction

What should you do?

- A. Create a SQL Common Language Runtime (SQLCLR) component that records all transformation steps in a Microsoft SharePoint list.
- B. Create a version control repository for the transformation steps in Team Foundation Server (TFS).
- C. Develop a custom data lineage solution.
- D. Develop a Data Quality Services (DQS) solution.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 119**

To support the implementation of new reports, Active Directory data will be downloaded to a SQL Server database by using a SQL Server Integration Services (SSIS) 2012 package.

The following requirements must be met:

- All the user information for a given Active Directory group must be downloaded to a SQL Server table.
- The download process must traverse the Active Directory hierarchy recursively.

You need to configure the package to meet the requirements by using the least development effort.

What should you use?

- A. script component
- B. custom component

- C. XML source
- D. script task

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 120**

You are creating a Data Quality Services (DQS) solution. You must provide statistics on the accuracy of the data.

You need to use DQS profiling to obtain the required statistics.

Which DQS activity should you use?

- A. Cleansing
- B. Matching
- C. Knowledge Discovery
- D. Matching Policy

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Ref: [http://msdn.microsoft.com/en-gb/library/hh213055\(v=sql.110\).aspx](http://msdn.microsoft.com/en-gb/library/hh213055(v=sql.110).aspx)

#### **QUESTION 121**

You are developing a SQL Server Integration Services (SSIS) project to read and write data from a Windows Azure SQL Database database to a server that runs SQL Server 2012. The connection will be used by data flow tasks in multiple SSIS packages. The address of the target Windows Azure SQL Database database will be provided by a project parameter.

You need to create a solution to meet the requirements by using the least amount of administrative effort.

What should you do?

- A. Add a SQLMOBILE connection manager to each package.
- B. Add an ADO.NET project connection manager.
- C. Add a SQLMOBILE project connection manager.
- D. Add an ADO.NET connection manager to each data flow task.
- E. Add a SQLMOBILE connection manager to each data flow task.
- F. Add an ADO.NET connection manager to each package.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Ref: <http://www.databasejournal.com/features/mssql/windows-azure-sql-database-uploading-data-by-using-sql-server-integration-services.html>

#### **QUESTION 122**

A SQL Server Integration Services (SSIS) 2012 package currently downloads sales data from a Windows Azure SQL Database database.

To improve sales data accuracy, exchange rates must be downloaded daily from a public HTTP website instead of from a weekly flat file. The public website hosts a comma-separated values (CSV) file that

contains one row per currency.

You need to download the CSV file to the environment.

What should you use to retrieve the document from the website?

- A. a Script component
- B. a Web Service task
- C. a Web Service source
- D. a Script task

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 123**

You are designing a SQL Server Integration Services (SSIS) data flow to load sales transactions from a source system into a data warehouse hosted on Windows Azure SQL Database. One of the columns in the data source is named ProductCode. Some of the data to be loaded will reference products that need special processing logic in the data flow.

You need to enable separate processing streams for a subset of rows based on the source product code.

Which data flow transformation should you use?

- A. Source Assistant
- B. Destination Assistant
- C. Audit
- D. Script Component

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Script Component Transformation:

The transformation that uses script to extract, transform, or load data.

**Note:**

\* SQL Server Integration Services provides three different types of data flow components: sources, transformations, and destinations. Sources extract data from data stores such as tables and views in relational databases, files, and Analysis Services databases. Transformations modify, summarize, and clean data. Destinations load data into data stores or create in-memory datasets.

**Incorrect:**

Not A, Not B: No Data Transforms called Source Assistant or Destination Assistant Not C: Not related to auditing

### **QUESTION 124**

You are administering SQL Server Integration Services (SSIS) permissions on a production server that runs SQL Server 2012.

Package developers in your company must have permission to perform the following tasks only on their own projects:

View projects and packages, View Environments, Validate packages, Execute packages.

You need to grant rights to the developers without assigning unnecessary privileges.

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

- A. Add developer logins to the db\_ssislduser role in the msdb database.
- B. Add developer logins to the db\_ssoperator role in the msdb database.
- C. Grant Execute permission in the projects for the developer logins.
- D. Grant Read permission in the SSIS catalog folder, the projects, and the Environments.
- E. Add developer logins to the ssis\_admin role in the SSISDB database.
- F. Grant Modify permission in the projects for the developer logins.

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

B: db\_ssoperator  
\* Read actions  
Enumerate all packages.  
View all packages.  
Execute all packages.  
Export all packages.  
Execute all packages in SQL Server Agent.  
\* Write actions  
None

D: Need read permissions on the Environments in order to be able to view them.

Incorrect:

Not A: db\_ssislduser  
\* Read actions  
Enumerate own packages.  
Enumerate all packages.  
View own packages.  
Execute own packages.  
Export own packages.  
\* Write Actions  
Import packages.  
Delete own packages.  
Change own package roles.  
Not E: db\_ssadmin  
Too many permissions (such as delete all packages).

### QUESTION 125

To support the implementation of new reports, Active Directory data will be downloaded to a SQL Server database by using a SQL Server Integration Services (SSIS) 2012 package.

The following requirements must be met:

- All the user information for a given Active Directory group must be downloaded to a SQL Server table.
- The download process must traverse the Active Directory hierarchy recursively.

You need to configure the package to meet the requirements by using the least development effort.

Which item should you use?

- A. Script task
- B. Script component configured as a transformation
- C. Script component configured as a source
- D. Script component configured as a destination

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 126**

You are designing a SQL Server Integration Services (SSIS) 2012 package that imports data from a Windows Azure SQL Database database into a SQL Server database.

The SSIS package has the following requirements:

- Every night, a very large amount of data is imported into the staging database.
- Package processing time must be minimized.
- The package must run on its own dedicated server when it is deployed to production.
- Transaction log activity when data is imported must be minimized.

You need to design the package to meet the requirements.

Which destination component should you use?

- A. Raw File
- B. ODBC
- C. Bulk Insert
- D. OLE DB

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 127**

You are implementing a SQL Server Integration Services (SSIS) 2012 package that loads data from various flat files and a Windows Azure SQL Database database.

Daily transactions must be loaded into a staging database. All the SSIS tasks will use the CurrentDate variable as the transaction date.

You need to set the CurrentDate variable to the date stored in a control table of the Windows Azure SQL Database database when the package starts. You need to achieve this goal by using the least amount of development effort.

What should you use to set the variable?

- A. an Expression task
- B. an Execute SQL task
- C. a Script component
- D. a Script task

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 128**

You are preparing to install SQL Server 2012 Master Data Services (MDS).

You need to ensure that the database requirements are met.

What should you install?

- A. Microsoft SharePoint Server 2010 Standard Edition SP1

- B. Microsoft SharePoint Server 2010 Enterprise Edition SP1
- C. SQL Server 2012 Data Center (64-bit) x64 on the database server
- D. SQL Server 2012 Enterprise (64-bit) x64 on the database server

**Correct Answer:** D

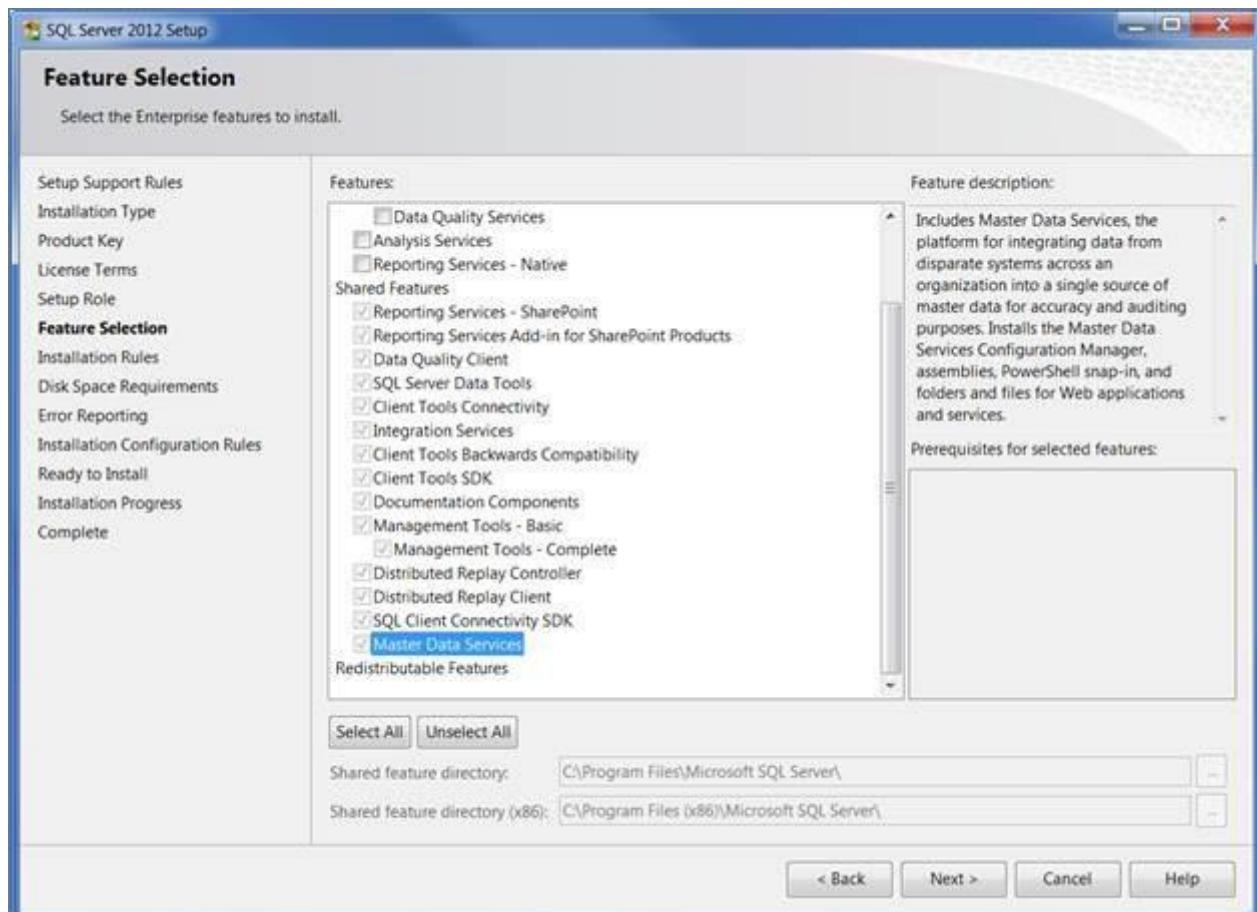
**Section:** (none)

**Explanation**

**Explanation/Reference:**

\* Master Data Services is a new feature introduced in SQL Server 2008 R2 and further enhanced in SQL Server 2012.

\* SQL Server 2012 Enterprise features include Master Data Services:



**Note:**

\* Microsoft SQL Server Master Data Services is a Master Data Management (MDM) product from Microsoft, which will ship as a part of the Microsoft SQL Server database. Originally code-named Bulldog, Master Data Services is the rebranding of the Stratature MDM product titled +EDM, which Microsoft acquired in June 2007. Master Data Services is architecturally similar to +EDM, with increased integration with other Microsoft applications as well as some new features. Master Data Services first shipped with Microsoft SQL Server 2008 R2.

### QUESTION 129

You are implementing a SQL Server Integration Services (SSIS) package that imports Microsoft Excel workbook data into a Windows Azure SQL Database database. The package has been deployed to a production server that runs Windows Server 2008 R2 and SQL Server 2012.

The package fails when executed on the production server.

You need to ensure that the package can load the Excel workbook data without errors. You need to use the least amount of administrative effort to achieve this goal.

What should you do?

- A. Create a custom SSIS source component that encapsulates the 32-bit driver and compile it in 64-bit mode.
- B. Install a 64-bit ACE driver and execute the package by using the 64-bit run-time option.
- C. Execute the package by using the 32-bit run-time option.
- D. Replace the SSIS Excel source with a SSIS Flat File source.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

\* See step 3 below.

To publish an Excel worksheet to Azure SQL Database, your package will contain a Data Flow Task, Excel Source task, and ADO NET Destination.

- 1) Create an SSIS project.
- 2) Drop a Data Flow Task onto the Control Flow design surface, and double click the Data Flow Task.
- 3) Drop an Excel Source onto the Data Flow design surface. Note When using the Excel Source task on a 64-bit machine, set Run64BitRuntime to False.

\*

Incorrect:

Not D: The Flat File source reads data from a text file. The text file can be in delimited, fixed width, or mixed format.

### **QUESTION 130**

You are installing the Data Quality Server component of Data Quality Services.

You need to provision the hardware and install the software for the server that runs the Data Quality Server.

You must ensure that the minimum Data Quality Server prerequisites are met.

What should you do?

- A. Install Microsoft Internet Explorer 6.0 SP1 or later.
- B. Install SQL Server 2012 Database Engine.
- C. Make sure the server has at least 4 GB of RAM.
- D. Install Microsoft SharePoint Server 2010 Standard Edition.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Data Quality Server Minimum System Requirements

\* SQL Server 2012 Database Engine.

\* Memory (RAM):

Minimum: 2 GB

Recommended: 4 GB or more

Note: SQL Server Data Quality Services (DQS) is a new feature in SQL Server 2012 that contains the following two components: Data Quality Server and Data Quality Client.

### **QUESTION 131**

You are designing a data warehouse that contains a customer dimension. The customer dimension contains the original customer attributes as well as the most recent set of updated attributes. When a customer is updated, the original customer attributes must be preserved.

The customer dimension design must:

Support a Type 3 Slowly Changing Dimension (SCD) process Minimize the total storage consumed

You need to design a solution that meets these requirements.

What should you do?

- A. Design two tables. One table will hold the original customer surrogate key and attributes. The other table will hold the most recent customer surrogate key and attributes.
- B. Design a table as a Type 2 SCD dimension that holds the surrogate key for each customer and its attributes. Limit the number of records per customer within the table to two.
- C. Design a table to hold the surrogate key for each customer and its attributes. Add a column to store an indicator that identifies the record as original data or recent data.
- D. Design a table to hold the surrogate key for each customer and its attributes as well as additional columns to store the original attributes.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 132**

You are designing a data warehouse hosted on Windows Azure SQL Database. The data warehouse currently includes the dimUser and dimRegion dimension tables and the factSales fact table. The dimUser table contains records for each user permitted to run reports against the warehouse, and the dimRegion table contains information about sales regions.

The system is accessed by users from certain regions, as well as by area supervisors and users from the corporate headquarters.

You need to design a table structure to ensure that certain users can see sales data for only certain regions. Some users must be permitted to see sales data from multiple regions.

What should you do?

- A. For each region, create a view of the factSales table that includes a WHERE clause for the region.
- B. Create a userRegion table that contains primary key columns from the dimUser and dimRegion tables.
- C. Add a region column to the dimUser table.
- D. Partition the factSales table on the region column.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 133**

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

The package uses a data flow task to source data from a SQL Server database for loading into a dimension table in a data warehouse.

You need to create a separate data flow path for data that has been modified since it was last processed.

Which data flow components should you use to identify modified data? (Each correct answer presents a complete solution. Choose all that apply.)

- A. Multicast
- B. Data Conversion
- C. Lookup
- D. Slowly Changing Dimension
- E. Aggregate

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

A: The transformation that distributes data sets to multiple outputs. The transformation that distributes data sets to multiple outputs.

C: Lookup Transformation

The transformation that looks up values in a reference table using an exact match.

**Note:**

\* SQL Server Integration Services provides three different types of data flow components: sources, transformations, and destinations. Sources extract data from data stores such as tables and views in relational databases, files, and Analysis Services databases. Transformations modify, summarize, and clean data. Destinations load data into data stores or create in-memory datasets.

**Incorrect:**

Not B: Data Conversion Transformation

The transformation that converts the data type of a column to a different data type.

Not D: Slowly Changing Dimension Transformation

The transformation that configures the updating of a slowly changing dimension. Not E: The Aggregate transformation applies aggregate functions, such as Average, to column values and copies the results to the transformation output. Besides aggregate functions, the transformation provides the GROUP BY clause, which you can use to specify groups to aggregate across.

**QUESTION 134**

You are designing an Extract, Transform and Load (ETL) solution that loads data into dimension tables.

The ETL process involves many transformation steps.

You need to ensure that the design can provide:

- Auditing information for compliance and business user acceptance
- Tracking and unique identification of records for troubleshooting and error correction

What should you do?

- A. Develop a Master Data Services (MDS) solution.
- B. Develop a Data Quality Services (DQS) solution.
- C. Create a version control repository for the ETL solution.
- D. Develop a custom data lineage solution.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 135**

You are designing a data warehouse that uses SQL Server 2012.

The data warehouse contains a table named factSales that stores product sales. The table has a clustered index on the primary key, four foreign keys to dimension tables, and an aggregate column for sales totals. All key columns use the INT data type, and the aggregate column uses the MONEY data type.

You need to increase the speed of data retrieval from the factSales table.

Which index type should you add to the table?

- A. Full text
- B. Spatial
- C. Non-clustered
- D. Clustered

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 136**

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. Create a time mapping table.
- B. Partition the fact tables by day.
- C. Create a time dimension that can join to both fact tables at their respective granularity.
- D. Join the two fact tables.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 137**

You are creating a Data Quality Services (DQS) solution. You must provide statistics on the accuracy of the data.

You need to use DQS profiling to obtain the required statistics.

Which DQS activity should you use?

- A. Cleansing
- B. Knowledge Discovery
- C. SQL Profiler
- D. Matching Rule Definition

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 138**

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. Run the Data Quality Server Installer.
- B. Install the data providers that are used for data refresh.
- C. Run the dbimpexp.exe command.

D. Install the Analysis Services OLE DB Provider.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 139**

You are implementing a new SQL Server Integration Services (SSIS) 2012 package that loads data from various flat files and a Windows Azure SQL Database database.

Daily transactions must be loaded into a staging database. All the SSIS tasks will use the CurrentDate variable as the transaction date.

You need to set the CurrentDate variable to the current execution date when the package starts. You need to achieve this goal by using the least amount of development effort.

What should you use to set the variable?

- A. An Expression task
- B. A Script component
- C. A Script task
- D. An Execute SQL task

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Ref: <http://msdn.microsoft.com/en-us/library/ms141214.aspx>

<http://blog.sqltechie.com/2012/11/expression-task-in-ssis-2012.html>

**QUESTION 140**

You are developing a SQL Server Integration Services (SSIS) package to implement an incremental data load strategy. The package reads data from a source system that uses the SQL Server change data capture (CDC) feature.

You have added a CDC Source component to the data flow to read changed data from the source system.

You need to add a data flow transformation to redirect rows for separate processing of insert, update, and delete operations.

Which data flow transformation should you use?

- A. Audit
- B. DQS Cleansing
- C. CDC Splitter
- D. Pivot

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation: The CDC splitter splits a single flow of change rows from a CDC source data flow into different data flows for Insert, Update and Delete operations Ref: <http://msdn.microsoft.com/en-us/library/hh758656.aspx>

**QUESTION 141**

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. Data Cleansing transformation
- C. Fuzzy Lookup transformation
- D. Term Lookup transformation
- E. Data Profiling task

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 142**

You are designing a SQL Server Integration Services (SSIS) project that uses the Project Deployment Model.

The project will contain 10 packages. All the packages must connect to the same data source and destination.

You need to define and reuse the connection managers in all the packages by using the least development effort.

What should you do?

- A. Implement parent package variables.
- B. Copy and paste connection managers from one package to the others.
- C. Implement project connection managers.
- D. Implement package connection managers.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 143**

You are designing a SQL Server Integration Services (SSIS) data flow to load sales transactions from a source system into a data warehouse hosted on Windows Azure SQL Database. One of the columns in the data source is named ProductCode.

Some of the data to be loaded will reference products that need special processing logic in the data flow.

You need to enable separate processing streams for a subset of rows based on the source product code.

Which Data Flow transformation should you use?

- A. Multicast
- B. Conditional Split
- C. Script Task
- D. Data Conversion

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

We use Conditional Split to split the source data into separate processing streams. A Script Component (Script Component is the answer to another version of this question) could be used but this is not the same as a Script Task.

#### **QUESTION 144**

You are designing a SQL Server Integration Services (SSIS) 2012 package that imports data from a Windows Azure SQL Database database into a SQL Server database.

The SSIS package has the following requirements:

- Every night, a very large amount of data is imported into the staging database.
- Package processing time must be minimized.
- The package must run on its own dedicated server when it is deployed to production.
- Transaction log activity when data is imported must be minimized.

You need to design the package to meet the requirements.

Which destination component should you use?

- A. DataReader
- B. OLE DB
- C. ADO.NET
- D. SQL Server

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 145**

You are administering SQL Server Integration Services (SSIS) permissions on a production server that runs SQL Server 2012.

Quality Assurance (QA) testers in the company must have permission to perform the following tasks on specific projects:

- View and validate projects and packages
- View Environments and Environment variables
- Execute packages

You need to grant the minimum possible privileges to the QA testers. What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

- A. In the SSISDB database, add QA Tester logons to the ssis\_admin role.
- B. In the msdb database, add QA Tester logons to the db\_ssisoperator role.
- C. Grant Modify permission in the projects to the QA Tester logons.
- D. Grant Read permission in the SSIS catalog folder, the projects, and the Environments to the QA Tester logons.
- E. Grant Execute permission in the projects to the QA Tester logons.
- F. In the msdb database, add QA Tester logons to the db\_ssisltduser role.

**Correct Answer: BD**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 146**

You are designing a data warehouse that uses SQL Server 2012.

The data warehouse contains a table named factSales that stores product sales. The table has a clustered index on the primary key, four foreign keys to dimension tables, and an aggregate column for sales totals. All key columns use the int data type and the aggregate column uses the money data type.

You need to increase the speed of data retrieval from the factSales table.

Which index type should you add to the table?

- A. Clustered
- B. Semantic search
- C. Nonclustered
- D. XML

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 147**

You are designing a data warehouse that contains a product dimension.

The product dimension contains the original product attributes as well as the most recent set of updated attributes. When a product is updated, the original product attributes must be preserved.

The product dimension design must:

- Support a Type 3 Slowly Changing Dimension (SCD) process
- Minimize the total storage consumed

You need to design a solution that meets these requirements.

What should you do?

- A. Design two tables. One table will hold the original product surrogate key and attributes. The other table will hold the most recent product surrogate key and attributes.
- B. Design a table as a Type 2 SCD dimension that holds the surrogate key for each product and its attributes. Limit the number of records per product within the table to two.
- C. Design a table to hold the surrogate key for each product and its attributes as well as additional columns to store the original attributes.
- D. Design a table to hold the surrogate key for each product and its attributes. Add a column to store an indicator that identifies the record as original data or recent data.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 148**

You are designing a complex SQL Server Integration Services (SSIS) project that uses the Project Deployment model.

The project will contain between 15 and 20 packages. All the packages must connect to the same data source and destination.

You need to define and reuse the connection managers in all the packages by using the least development

effort.

What should you do?

- A. Copy and paste the connection manager details into each package.
- B. Implement project connection managers.
- C. Implement package connection managers.
- D. Implement parent package variables in all packages.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 149**

You are designing a SQL Server Integration Services (SSIS) data flow to load sales transactions from a source system into a data warehouse hosted on Windows Azure SQL Database. One of the columns in the data source is named ProductCode.

Some of the data to be loaded will reference products that need special processing logic in the data flow.

You need to enable separate processing streams for a subset of rows based on the source product code.

Which Data Flow transformation should you use?

- A. Script Component
- B. Audit
- C. Destination Assistant
- D. Data Conversion

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

The Script component can be used as a source, a transformation, or a destination. This component supports one input and multiple outputs. Depending on how the component is used, it supports either an input or outputs or both. The script is invoked by every row in the input or output.

If used as a source, the Script component supports multiple outputs.

If used as a transformation, the Script component supports one input and multiple outputs.

If used as a destination, the Script component supports one input.

#### **QUESTION 150**

You are performance tuning a SQL Server Integration Services (SSIS) package to load sales data from a source system into a data warehouse that is hosted on Windows Azure SQL Database.

The package contains a data flow task that has seven source-to-destination execution trees.

Only three of the source-to-destination execution trees are running in parallel.

You need to ensure that all the execution trees run in parallel.

What should you do?

- A. Set the EngineThreads property of the data flow task to 7.
- B. Set the MaxConcurrentExecutables property of the package to 7.

- C. Create seven data flow tasks that contain one source-to-destination execution tree each.
- D. Place the data flow task in a For Loop container that is configured to execute seven times.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 151**

You develop a SQL Server Integration Services (SSIS) package in a project by using the Project Deployment Model. It is regularly executed within a multi-step SQL Server Agent job.

You make changes to the package that should improve performance.

You need to establish if there is a trend in the durations of the next 10 successful executions of the package. You need to use the least amount of administrative effort to achieve this goal.

What should you do?

- A. Enable logging to an XML file in the package control flow for the OnInformation event. After 10 executions, view the XML file.
- B. After 10 executions, view the job history for the SQL Server Agent job.
- C. After 10 executions, in SQL Server Management Studio, view the Execution Performance subsection of the All Executions report for the package.
- D. Enable logging to an XML file in the package control flow for the OnPostExecute event.  
After 10 executions, view the XML file.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 152**

You are designing a SQL Server Integration Services (SSIS) package that uses the Fuzzy Lookup transformation.

The reference data to be used in the transformation changes with every package execution.

Common language runtime (CLR) integration cannot be enabled on the SQL Server database where the reference table is located.

You need to configure the Fuzzy Lookup transformation in the most efficient manner.  
What should you do?

- A. Execute the sp\_FuzzyLookupTableMaintenanceInvoke stored procedure.
- B. Select the GenerateNewIndex option in the Fuzzy Lookup Transformation Editor.
- C. Execute the sp\_FuzzyLookupTableMaintenanceUninstall stored procedure.
- D. Select the GenerateAndPersistNewIndex option in the Fuzzy Lookup Transformation Editor.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 153**

You are developing a SQL Server Integration Services (SSIS) package to implement an incremental data load strategy. The package reads data from a source system that uses the SQL Server change data capture (CDC) feature.

You have added a CDC Source component to the data flow to read changed data from the source system.

You need to add a data flow transformation to redirect rows for separate processing of insert, update, and delete operations.

Which data flow transformation should you use?

- A. DQS Cleansing
- B. Merge Join
- C. Pivot
- D. Conditional Split

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 154**

You are designing a data warehouse that uses SQL Server 2012. You are preparing to update the contents of a fact table that contains a non-clustered columnstore index.

You need to run an update statement against the table.

What should you do first?

- A. Pause the columnstore index.
- B. Change the recovery model of the database to Bulk-logged.
- C. Change the non-clustered columnstore index to be a clustered columnstore index.
- D. Drop the columnstore index.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 155**

You are using SQL Server Data Tools to develop a SQL Server Integration Services (SSIS) project.

The first package that you create in this project contains a package connection that accesses a Microsoft Excel file. Additional packages in the project must also access this file.

You need to define and reuse the Excel file connection in all project packages.

What should you do?

- A. Copy the package Connection Manager and paste it in the second package.
- B. Set the RetainSameConnection property of the package Connection Manager to True.
- C. Convert the package Connection Manager in the first package to a project Connection Manager.
- D. Convert the project to the Package Deployment model.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 156**

You are designing a SQL Server Integration Services (SSIS) data flow to load sales transactions from a source system into a data warehouse hosted on Windows Azure SQL Database. One of the columns in the data source is named ProductCode.

Some of the data to be loaded will reference products that need special processing logic in the data flow.

You need to enable separate processing streams for a subset of rows based on the source product code.

Which Data Flow transformation should you use?

- A. Multicast
- B. Conditional Split
- C. Destination Assistant
- D. Script Task

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

We use Conditional Split to split the source data into separate processing streams.

A Script Component (Script Component is the answer to another version of this question) could be used but this is not the same as a Script Task.

**QUESTION 157**

Your company uses a proprietary encryption algorithm to secure sensitive data. A custom cryptographic assembly was developed in Microsoft .NET and is used in several applications.

A SQL Server Integration Services (SSIS) package is importing data into a Windows Azure SQL Database database. Some of the data must be encrypted with the proprietary encryption algorithm.

You need to design the implementation strategy to meet the requirements while minimizing development and deployment effort and maximizing data flow performance.

What should you do?

- A. Create a SQL Common Language Runtime (SQLCLR) function that uses the custom assembly to encrypt the data, deploy it in the Windows Azure SQL Database database, and use it when inserting data.
- B. Use an SSIS Script transformation that uses the custom assembly to encrypt the data when inserting it.
- C. Create a SQL Common Language Runtime (SQLCLR) stored procedure that uses the custom assembly to encrypt the data, deploy it in the Windows Azure SQL Database database, and use it when inserting data.
- D. Use an SSIS Script task that uses the custom assembly to encrypt the data when inserting it.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 158**

A SQL Server Integration Services (SSIS) package named DataFeed interacts with an external vendor data feed. The package is executed several times a day, either as part of other packages' control flow or by itself. The external data feed is unreliable because network failures and slow

response times are frequent. The package is currently deployed on the file system. To analyze the reliability of the external data feed, you must collect execution data. Every time the DataFeed package is executed, the following information must be logged:

- Start Time
- End Time
- Execution Result
- Execution Duration

You need to design a logging solution that meets the requirements by using the least amount of administrative and development effort.

Which three 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:**

Add <b>OnError</b> and <b>OnWarning</b> event handlers.	
Query the <b>catalog.executable_statistics</b> view.	
Query the <b>ExecutionLog</b> table.	
Deploy the project that contains the package to the SSIS catalog and execute the package on the server.	
Deploy the package to the msdb database.	
Add an Execute SQL task to the event handlers.	
Query the <b>catalog.execution_data_statistics</b> view.	
Create a new project and add the package to the project.	

**Correct Answer:**

Add <b>OnError</b> and <b>OnWarning</b> event handlers.	
Query the <b>catalog.executable_statistics</b> view.	
Query the <b>ExecutionLog</b> table.	
Deploy the package to the msdb database.	
Add an Execute SQL task to the event handlers.	
Query the <b>catalog.execution_data_statistics</b> view.	
Create a new project and add the package to the project.	
Deploy the project that contains the SSIS catalog and execute the package.	

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Ref: <http://msdn.microsoft.com/en-us/library/hh479592.aspx>

**QUESTION 159**

You are editing a SQL Server Integration Services (SSIS) package that contains a task with a sensitive property.

You need to create a project parameter and configure it so that its value is encrypted when it is deployed to the SSIS catalog.

Which three steps 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:**

Select the property to be parameterized and set the scope to **Project**.



Edit the parameter and set the **Sensitive** property to **True**.

Convert the project to the Legacy Deployment model.

Select the property to be parameterized and set the scope to **Package**.

Right-click the task and choose **Parameterize**.

Right-click the task and choose **Properties**.

**Correct Answer:**

Select the property to be parameterized and set the scope to **Project**.

Right-click the task and choose **Properties**.

Convert the project to the Legacy Deployment model.

Select the property to be parameterized and set the scope to **Package**.

Right-click the task and choose **Properties**.

Edit the parameter and set the **Sensitive** property to **True**.

**Section: (none)****Explanation****Explanation/Reference:****QUESTION 160**

A new SQL Server Integration Services (SSIS) project is deployed to the SSIS catalog.

To troubleshoot some data issues, you must output the data streaming through several data flows into text files for further analysis. You have the list of data flow package paths and identification strings of the various task components that must be analyzed.

You need to create these output files with the least amount of administrative and development effort.

Which three stored procedures should you execute 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:

<code>catalog.create_folder</code>	
<code>catalog.create_execution_dump</code>	
<code>catalog.add_data_tap</code>	
<code>catalog.configure_catalog</code>	
<code>catalog.add_data_tap_by_guid</code>	
<code>catalog.create_execution</code>	
<code>catalog.start_execution</code>	

Correct Answer:

<code>catalog.create_folder</code>		<code>catalog.create_execution</code>
<code>catalog.create_execution_dump</code>		
<code>catalog.configure_catalog</code>		<code>catalog.add_data_tap</code>
<code>catalog.add_data_tap_by_guid</code>		
		<code>catalog.start_execution</code>

Section: (none)

Explanation

**Explanation/Reference:**

Ref: [http://msdn.microsoft.com/en-gb/library/hh230989\(v=sql.110\).aspx](http://msdn.microsoft.com/en-gb/library/hh230989(v=sql.110).aspx)

#### QUESTION 161

A SQL Server Integration Services (SSIS) project has been deployed to the SSIS catalog. The project includes a project Connection Manager to connect to the data warehouse.

The SSIS catalog includes two Environments:

- Development
- QA

Each Environment defines a single Environment Variable named `ConnectionString` of type string. The value of each variable consists of the connection string to the development or QA data warehouses.

You need to be able to execute deployed packages by using either of the defined Environments. Which three 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:

- In the deployed project, set the **ConnectionString** property of the Connection Manager to use the **ConnectionString** Environment Variable.
- In the deployed package, set the **ConnectionString** property of the Connection Manager to use the **ConnectionString** Environment Variable.
- Add the Environment reference to the deployed project.
- Deploy the project to the **Development** and **QA** Environments.
- Add permissions to the **Development** and **QA** Environments.
- Execute the deployed package by using the required Environment.



#### Correct Answer:

- In the deployed project, set the **ConnectionString** property of the Connection Manager to use the **ConnectionString** Environment Variable.
- Add the Environment reference to the deployed project.
- In the deployed package, set the **ConnectionString** property of the Connection Manager to use the **ConnectionString** Environment Variable.
- Execute the deployed package by using the required Environment.
- Deploy the project to the **Development** and **QA** Environments.
- Add permissions to the **Development** and **QA** Environments.



#### Section: (none)

#### Explanation

#### Explanation/Reference:

#### QUESTION 162

You use SQL Server Integration Services (SSIS) for extract, transformation, load (ETL) processing.

Issues concerning addresses are discovered in the data warehouse that you manage. Validation must separate the addresses into three categories:

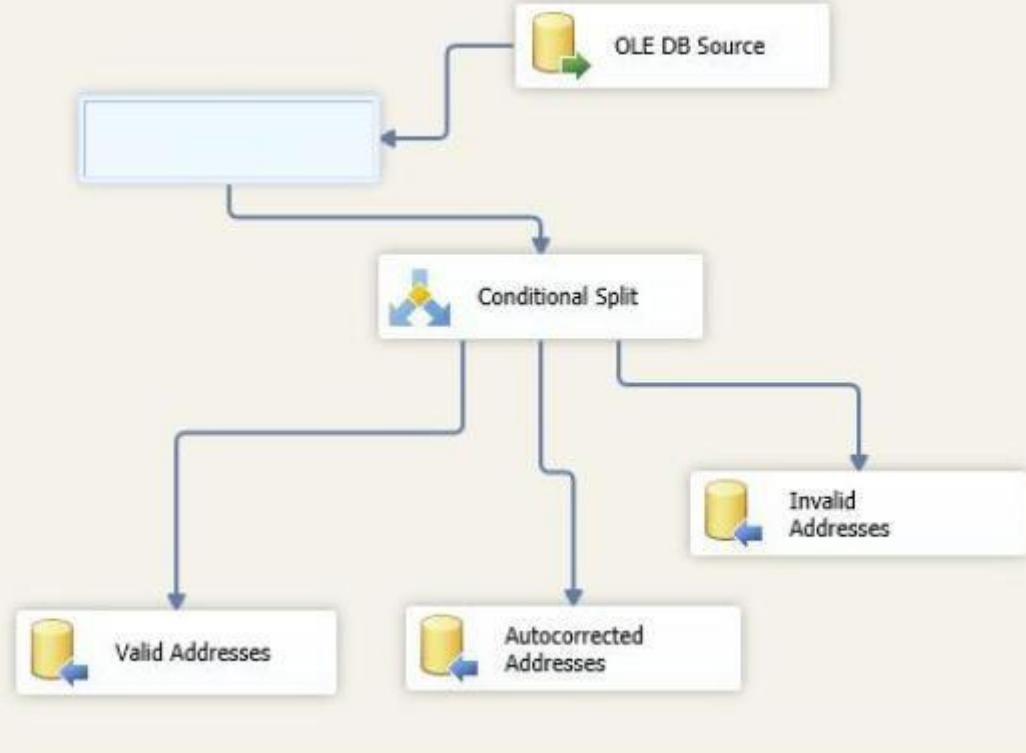
- Valid addresses
- Autocorrected addresses
- Invalid addresses

You need to enhance the SSIS packages to perform address validation by using an external service.

Which transformation should you use? (To answer, drag the appropriate transformation from the list of options to the correct location or locations in the answer area.)

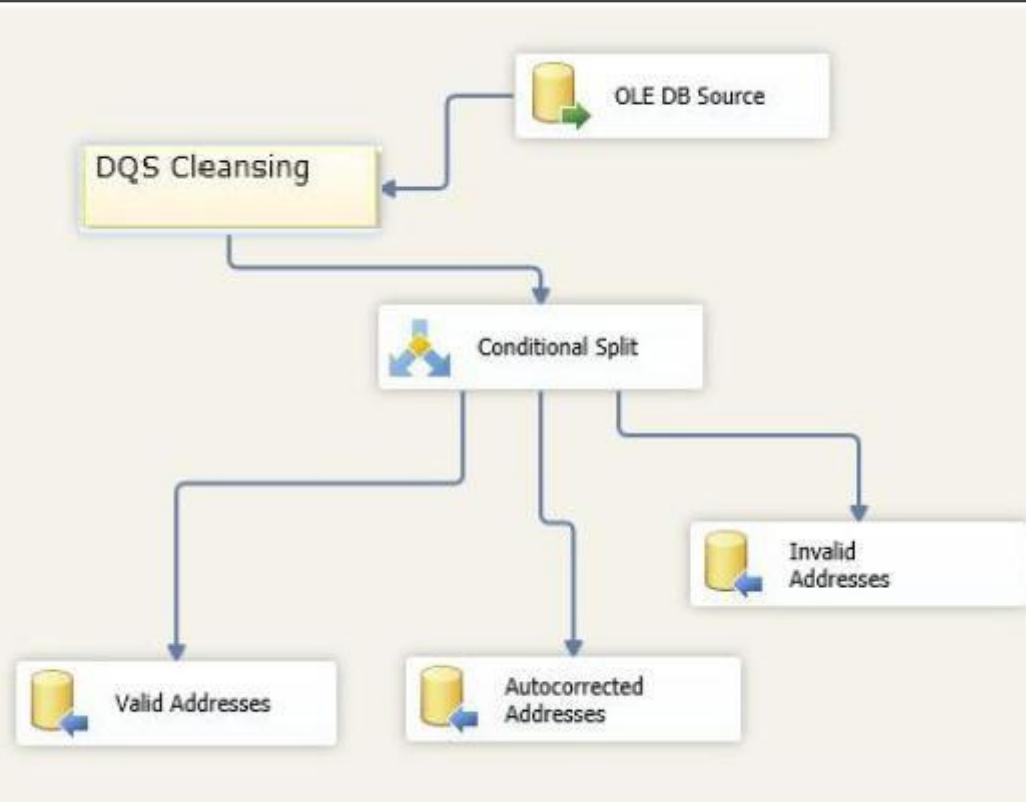
**Select and Place:**

- Lookup
- Term Lookup
- Fuzzy Lookup
- Fuzzy Grouping
- DQS Cleansing
- Slowly Changing Dimension**



**Correct Answer:**

- Lookup
- Term Lookup
- Fuzzy Lookup
- Fuzzy Grouping
- Slowly Changing Dimension**



**Section: (none)**  
**Explanation**

**Explanation/Reference:**

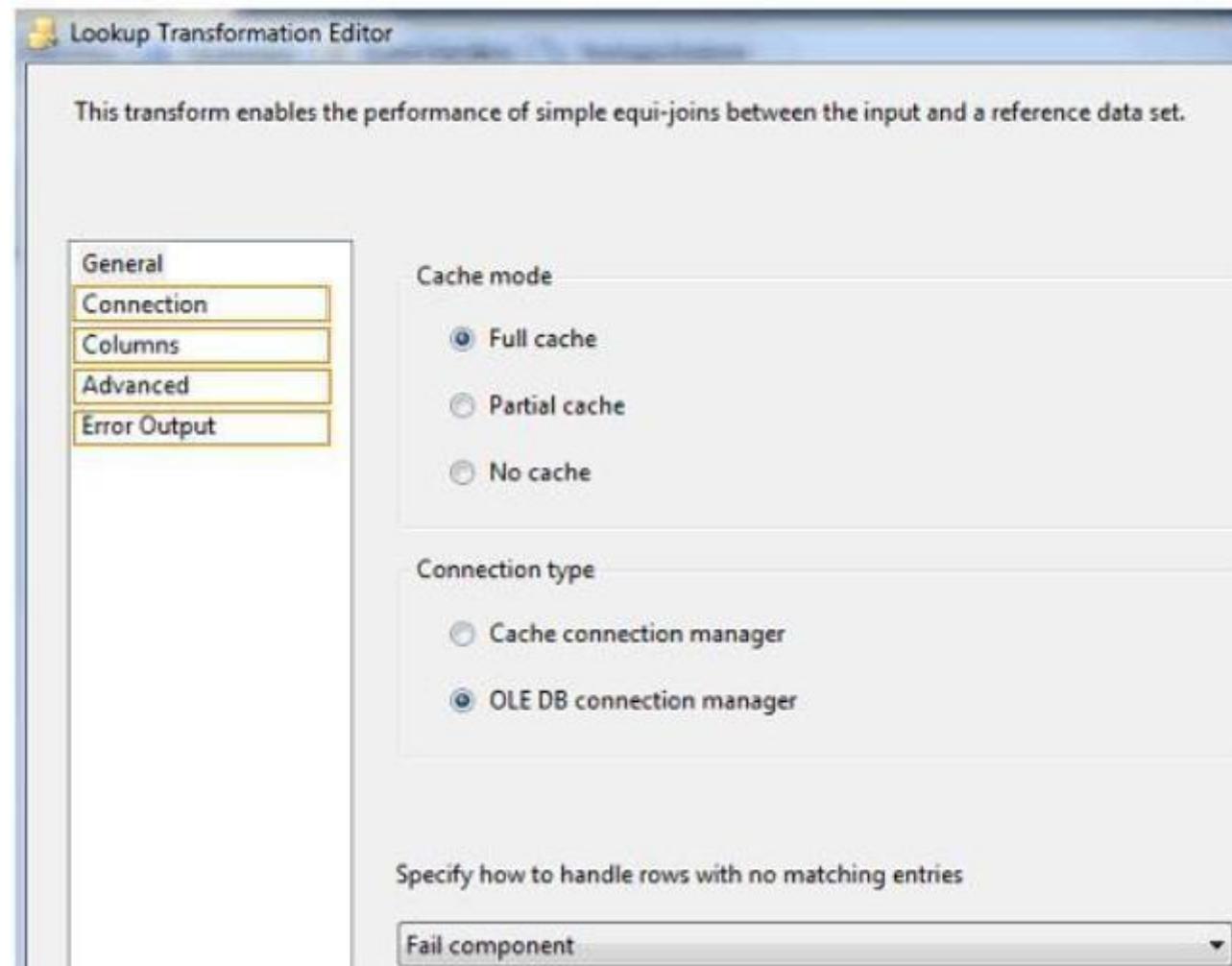
**QUESTION 163**

You are developing a data flow to load sales data into a fact table. In the data flow, you configure a Lookup Transformation in full cache mode to look up the product data for the sale. The lookup source for the product data is contained in two tables.

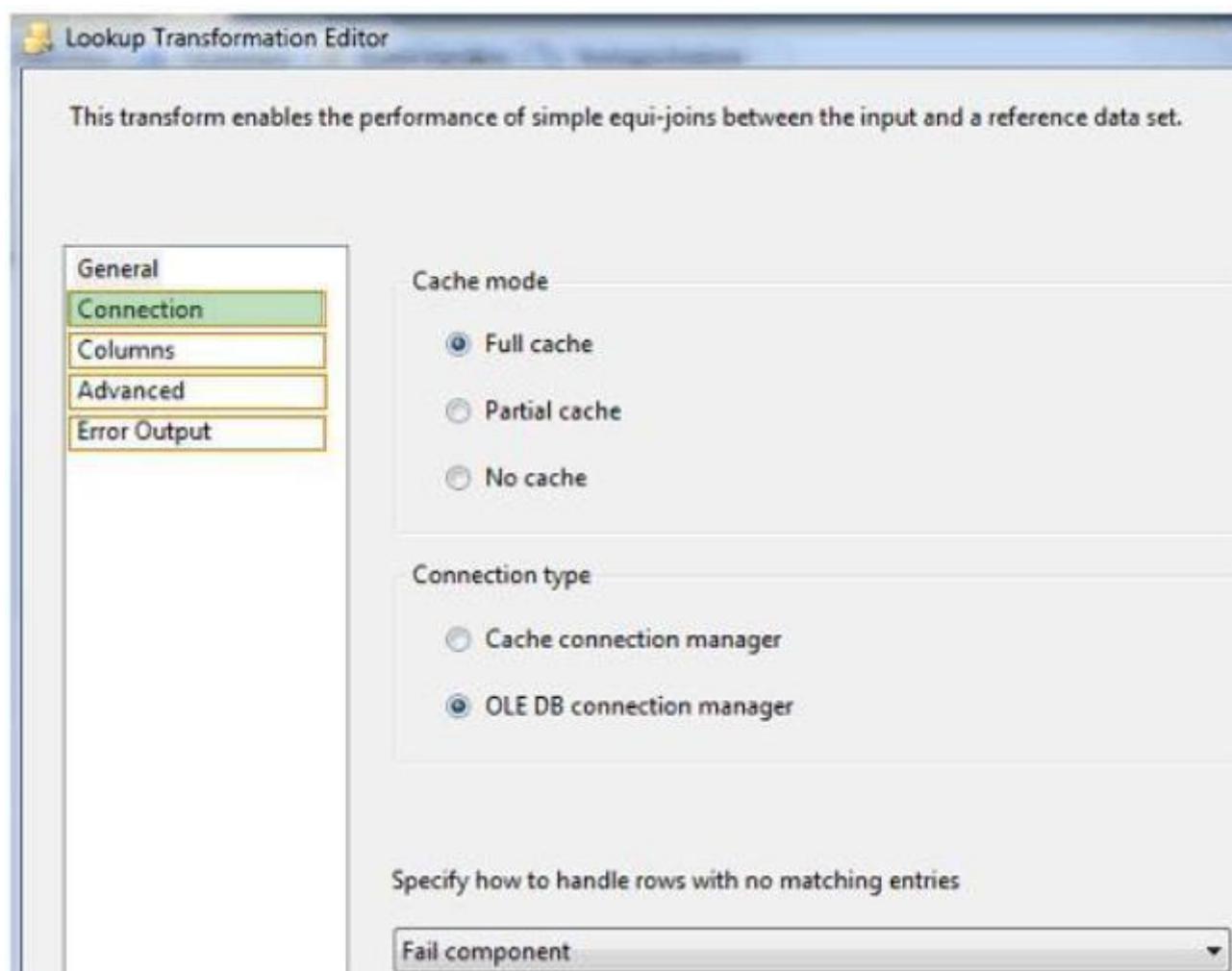
You need to set the data source for the lookup to be a query that combines the two tables. Which page of the Lookup Transformation Editor should you select to configure the query? To answer, select the appropriate page in the answer area.

Answer:

**Hot Area:**



**Correct Answer:**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

References:

<http://msdn.microsoft.com/en-us/library/ms141821.aspx>

<http://msdn.microsoft.com/en-us/library/ms189697.aspx>

**QUESTION 164**

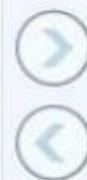
A Data Flow task in a SQL Server Integration Services (SSIS) package produces run-time errors.

You need to edit the package to log specific error messages.

Which three 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:**

- Create an **OnError** event handler for the Data Flow task.
- Define an expression for the **ActionAtEvent** property.
- Add a Notify Operator task.
- Add a WMI Event Watcher task.
- In the **ReadOnlyVariables** list, select **System::ErrorDescription** and add conditional logic to invoke the **FireError** method.
- Add a Script task.



**Correct Answer:**

- Define an expression for the **ActionAtEvent** property.
- Add a Notify Operator task.
- Add a WMI Event Watcher task.

Create an **OnError** event handler for the Data Flow task.



Add a Script task.

In the **ReadOnlyVariables** list, select **System::ErrorDescription** and add conditional logic to invoke the **FireError** method.

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 165**

You are developing a SQL Server Integration Services (SSIS) package that imports data into a data warehouse. You are developing the part of the SSIS package that populates the ProjectDates dimension table.

The business key of the ProjectDates table is the ProjectName column. The business user has given you the dimensional attribute behavior for each of the four columns in the ProjectDates table:

- ExpectedStartDate - New values should be tracked over time.
- ActualStartDate - New values should not be accepted.
- ExpectedEndDate - New values should replace existing values.
- ActualEndDate - New values should be tracked over time.

You use the SSIS Slowly Changing Dimension Transformation.

You must configure the Change Type value for each source column.

Which settings should you select? (To answer, select the appropriate setting or settings in the answer area. Each Change Type may be used once, more than once, or not at all.)

**Select and Place:**

Fixed Attribute
Changing Attribute
Historical Attribute

Dimension Columns	Change Type
ExpectedStartDate	
ActualStartDate	
ExpectedEndDate	
ActualEndDate	

Correct Answer:

Fixed Attribute
Changing Attribute
Historical Attribute

Dimension Columns	Change Type
ExpectedStartDate	Historical Attribute
ActualStartDate	Fixed Attribute
ExpectedEndDate	Changing Attribute
ActualEndDate	Historical Attribute

Section: (none)

Explanation

Explanation/Reference:

Explanation:

References:

<http://msdn.microsoft.com/en-us/library/ms141715.aspx>

<http://msdn.microsoft.com/en-us/library/ms141662.aspx>

#### QUESTION 166

QUESTION NO: 31 DRAG DROP

You are designing a SQL Server Integration Services (SSIS) package. The package moves orderrelated data to a staging table named Order. Every night the staging data is truncated and then all the recent orders from the online store database are inserted into the staging table.

Your package must meet the following requirements:

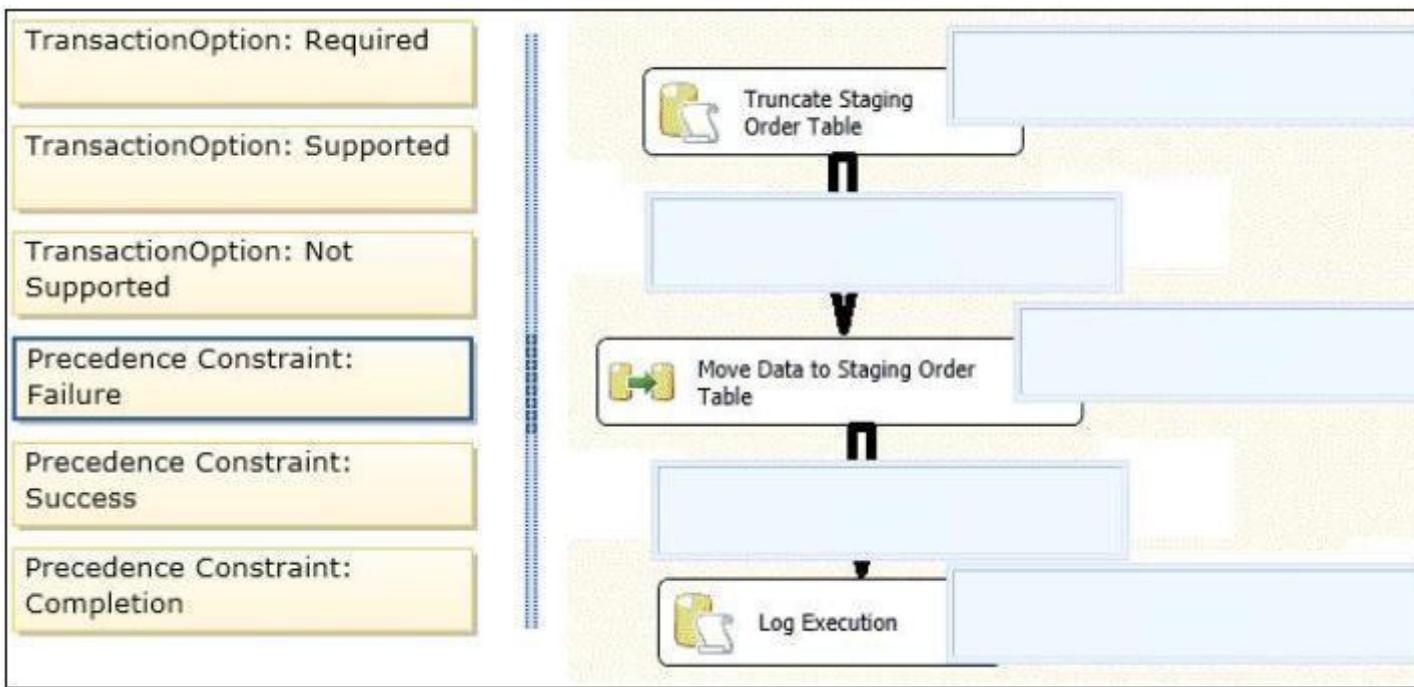
- If the truncate operation fails, the package execution must stop and report an error.
- If the Data Flow task that moves the data to the staging table fails, the entire refresh operation must be rolled back.
- For auditing purposes, a log entry must be entered in a SQL log table after each execution of the Data Flow task.

The TransactionOption property for the package is set to Required.

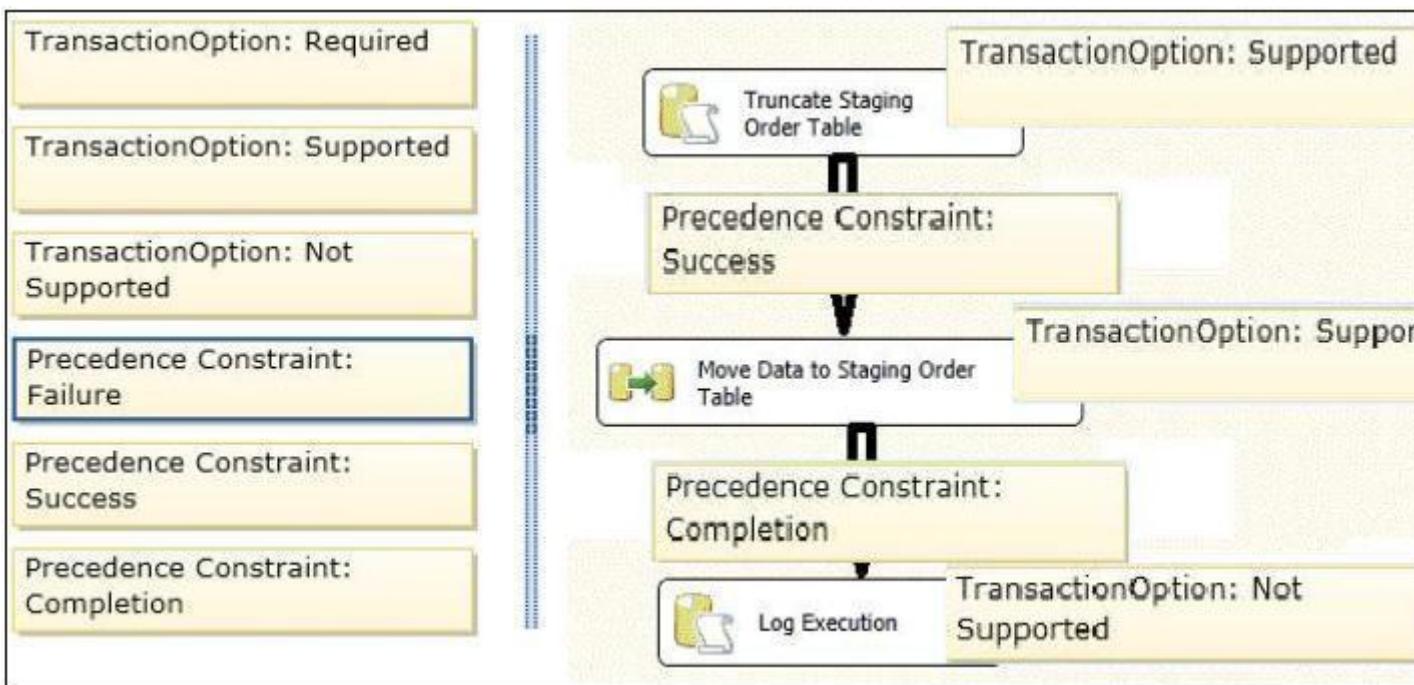
You need to design the package to meet the requirements.

How should you design the control flow for the package? (To answer, drag the appropriate setting from the list of settings to the correct location or locations in the answer area.)

Select and Place:



**Correct Answer:**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

References:

<http://msdn.microsoft.com/en-us/library/ms137690.aspx>

<http://msdn.microsoft.com/en-us/library/ms141144.aspx>

#### **QUESTION 167**

You are building a SQL Server Integration Services (SSIS) package to load data from all files that are automatically copied to a directory each night through an external FTP process.

You need to load data from all copied files to a destination table in SQL Server.

Which three steps 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:

- Open the Control Flow page of the package.
- On the Collection page, select the **Foreach File Enumerator** option and configure the directory and files to process.
- On the Collection page, select the **Foreach ADO Enumerator** option and configure the ADO object source variable.
- Create a File System task.
- Create a For Loop container.
- Create a Foreach Loop container.
- Open the Data Flow page of the package.

#### Correct Answer:

- Open the Control Flow page of the package.
- Create a Foreach Loop container.
- On the Collection page, select the **Foreach ADO Enumerator** option and configure the ADO object source variable.
- On the Collection page, select the **Foreach File Enumerator** option and configure the directory and files to process.
- Create a File System task.
- Create a For Loop container.
- Open the Data Flow page of the package.

#### Section: (none)

#### Explanation

#### Explanation/Reference:

Explanation:

References:

<http://msdn.microsoft.com/en-us/library/ms141724.aspx>  
<http://msdn.microsoft.com/en-us/library/ms137728.aspx>

#### QUESTION 168

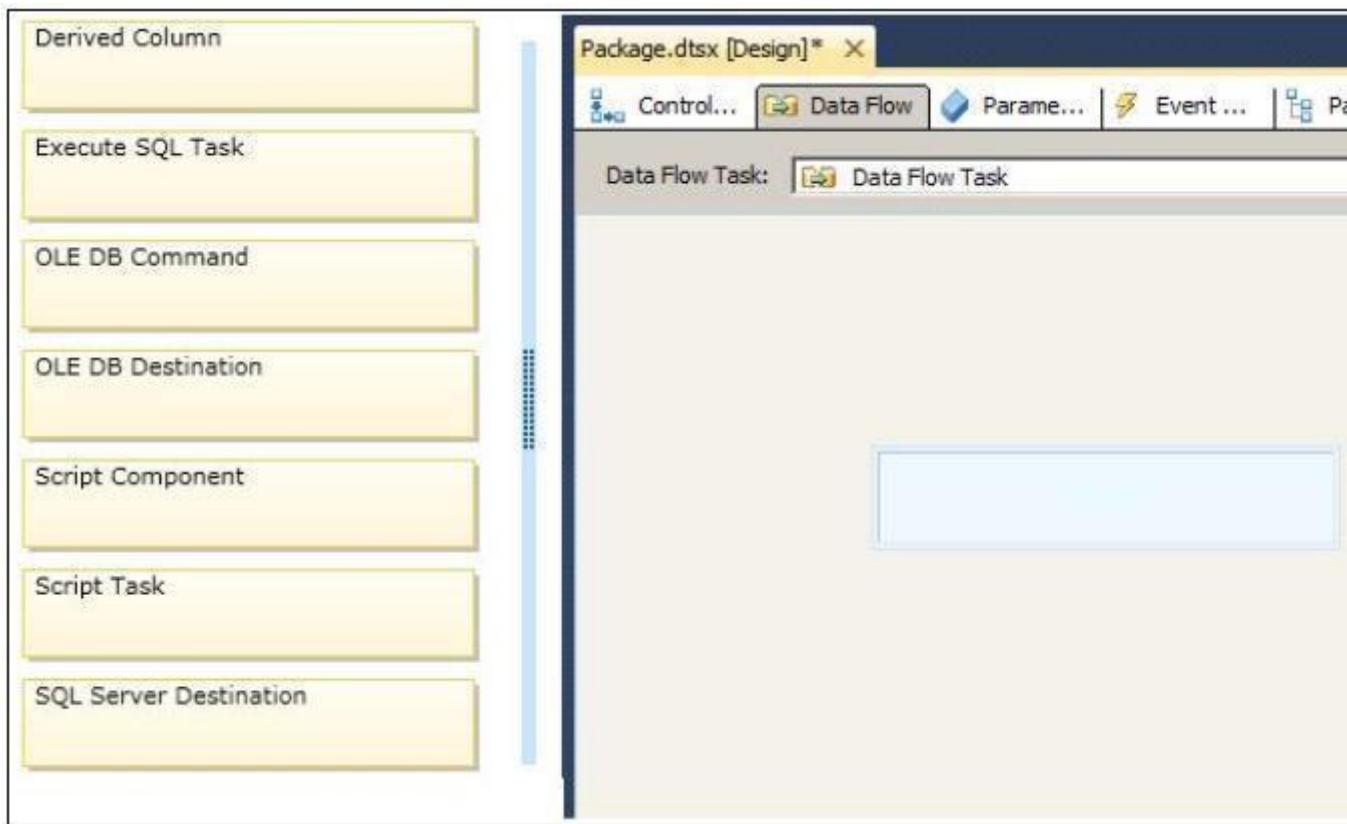
You are developing a SQL Server Integration Services (SSIS) package.

The package uses custom functionality that accesses a SQL Server database. The custom functionality must be implemented by using Language Integrated Query (LINQ).

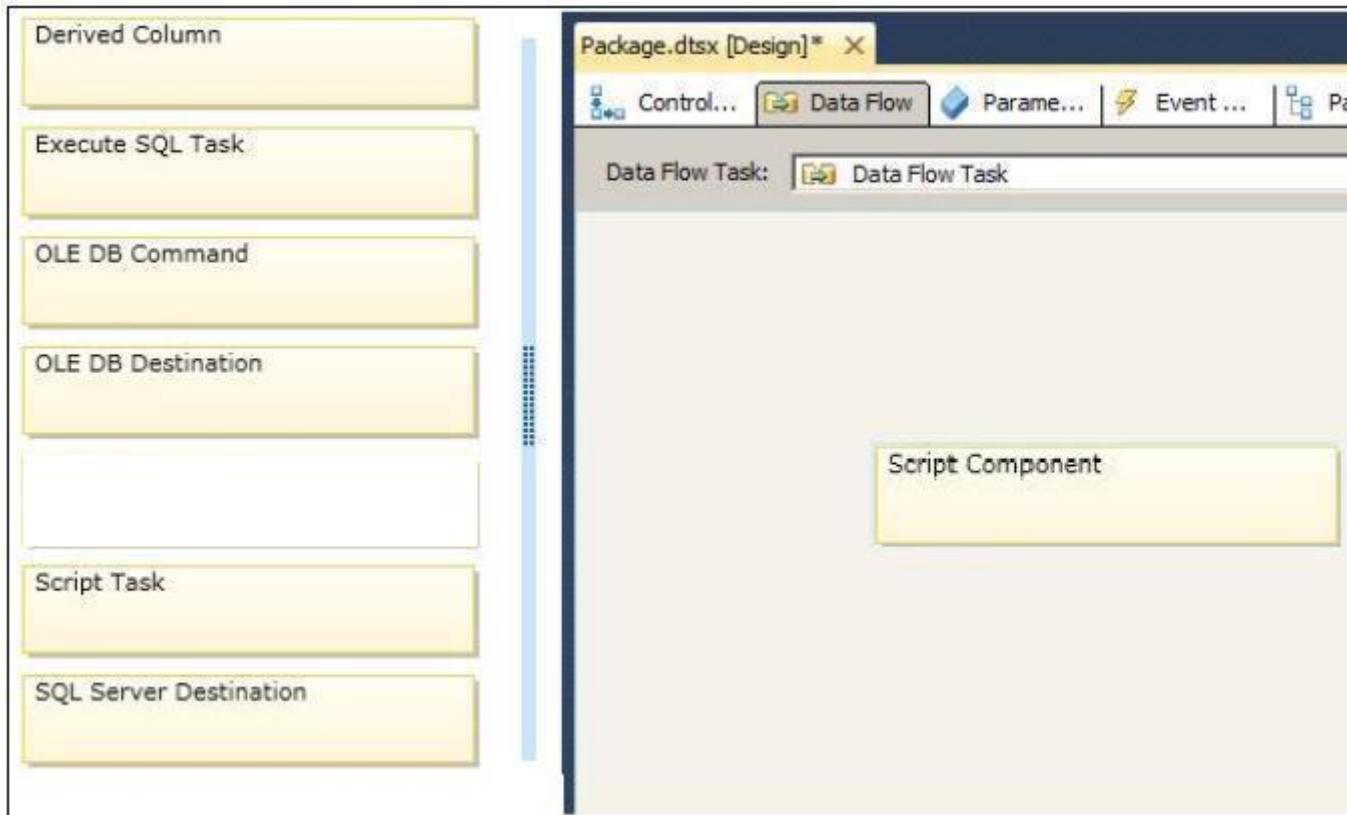
You need to ensure that the LINQ code can be debugged at design time.

What should you select from the SSIS Toolbox? (To answer, drag the appropriate item to the correct location in the answer area.)

#### Select and Place:



**Correct Answer:**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

### QUESTION 169

You are designing an extract, transform, load (ETL) process with SQL Server Integration Services (SSIS). Two packages, Package A and Package B, will be designed. Package A will execute Package B.

Both packages must reference a file path corresponding to an input folder where files will be located for further processing.

You need to design a solution so that the file path can be easily configured with the least administrative and development effort.

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:

- Create one SSIS project containing only **Package A** and another SSIS project containing only **Package B**.
- Add a **Parent Package Variable** configuration in **Package B** to set the **FilePath** variable.
- Add a package parameter named **FilePath** to **Package A** and **Package B**.
- Add a configuration file in **Package A** to set the **FilePath** value.
- Configure the project to use an Environment that sets the **FilePath** parameter.
- Deploy the project to the SSIS catalog.
- Create an SSIS project containing **Package A** and **Package B**.
- Add a project parameter named **FilePath**.



#### Correct Answer:

- Create one SSIS project containing only **Package A** and another SSIS project containing only **Package B**.
- Add a **Parent Package Variable** configuration in **Package B** to set the **FilePath** variable.
- Add a package parameter named **FilePath** to **Package A** and **Package B**.
- Add a configuration file in **Package A** to set the **FilePath** value.
- Create an SSIS project containing **Package A** and **Package B**.
- Add a project parameter named **FilePath**.
- Deploy the project to the SSIS catalog.
- Configure the project to use an Environment that sets the **FilePath** parameter.



#### Section: (none)

#### Explanation

#### Explanation/Reference:

Explanation:

Reference:

<http://msdn.microsoft.com/en-us/library/hh479588.aspx>  
<http://msdn.microsoft.com/en-us/library/hh213290.aspx>

### QUESTION 170

You develop a SQL Server Integration Services (SSIS) project by using the Project Deployment model.

The project contains many packages. It is deployed on a server named Development1. The project will be deployed to several servers that run SQL Server 2012.

The project accepts one required parameter. The data type of the parameter is a string.

A SQL Agent job is created that will call the master.dtsx package in the project. A job step is created for the SSIS package.

The job must pass the value of an SSIS Environment Variable to the project parameter. The value of the Environment Variable must be configured differently on each server that runs SQL Server. The value of the Environment Variable must provide the server name to the project parameter.

You need to configure SSIS on the Development1 server to pass the Environment Variable to the package.

Which four actions should you perform in sequence by using SQL Server Management Studio? (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:

In the SSIS catalog, create an Environment named **DevelopmentEnv**.

In the **DevelopmentEnv** Environment, create an Environment Variable. Name the Environment Variable **PackageEnvironment**. Set the Environment Variable value to **Development1**.

In the SQL Agent job, choose the **DevelopmentEnv** Environment in the Configuration tab of the SQL Server Integration Services job step.

In the project configuration, create an Environment reference to **DevelopmentEnv**. Assign the value of the **PackageEnvironment** Environment Variable to the project parameter.

In the project configuration, edit the value of the project parameter to **DevelopmentEnv**.

In the SSIS catalog, create a folder named **DevelopmentEnv**.



#### Correct Answer:



## Section: (none) Explanation

### Explanation/Reference:

#### References:

<http://msdn.microsoft.com/en-us/library/hh479588.aspx>  
<http://msdn.microsoft.com/en-us/library/hh213230.aspx>  
<http://msdn.microsoft.com/en-us/library/hh213214.aspx>  
[http://sqlblog.com/blogs/jamie\\_thomson/archive/2010/11/13/ssis-server-catalogs-environment-variables-in-ssis-in-denali.aspx](http://sqlblog.com/blogs/jamie_thomson/archive/2010/11/13/ssis-server-catalogs-environment-variables-in-ssis-in-denali.aspx)

### QUESTION 171

You are building a SQL Server Integration Services (SSIS) package to load product data sourced from a SQL Azure database to a data warehouse. Before the product data is loaded, you create a batch record by using an Execute SQL task named Create Batch. After successfully loading the product data, you use another Execute SQL task named Set Batch Success to mark the batch as successful.



You need to create and execute an Execute SQL task to mark the batch as failed if either the Create Batch or Load Products task fails.

Which three steps 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:

Set the **Multiple Constraints** option to **Logical OR**.

Set the **Evaluation Operation** option to **Expression OR Constraint**.

Connect the **Create Batch** and **Load Products** tasks to the **Set Batch Failure** task with failure constraints.

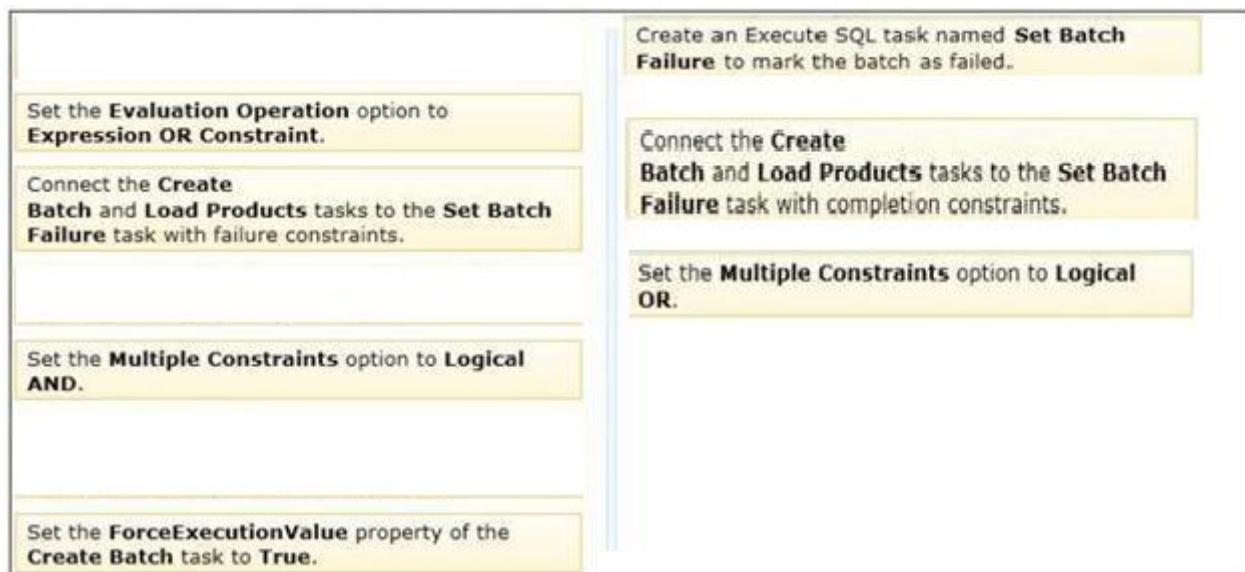
Create an Execute SQL task named **Set Batch Failure** to mark the batch as failed.

Set the **Multiple Constraints** option to **Logical AND**.

Connect the **Create Batch** and **Load Products** tasks to the **Set Batch Failure** task with completion constraints.

Set the **ForceExecutionValue** property of the **Create Batch** task to **True**.

#### Correct Answer:



### Section: (none)

#### Explanation

#### Explanation/Reference:

Explanation:

References:

<http://msdn.microsoft.com/en-us/library/ms141003.aspx>  
<http://msdn.microsoft.com/en-us/library/ms141261.aspx>  
<http://msdn.microsoft.com/en-us/library/ms141722.aspx>  
<http://msdn.microsoft.com/en-us/library/ms139895.aspx>

### QUESTION 172

You are developing a SQL Server Integration Services (SSIS) package to insert new data into a data mart. The package uses a Lookup transformation to find matches between the source and destination.

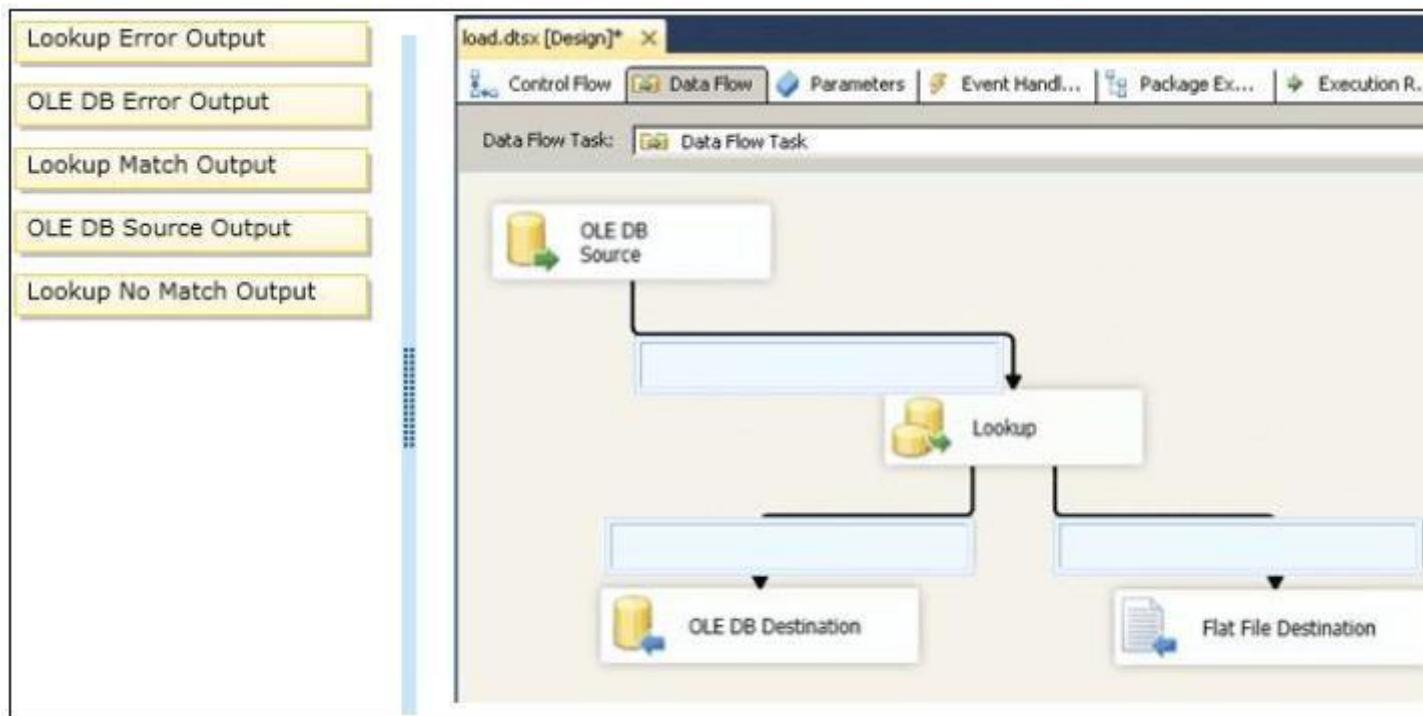
The data flow has the following requirements:

- New rows must be inserted.
- Lookup failures must be written to a flat file.

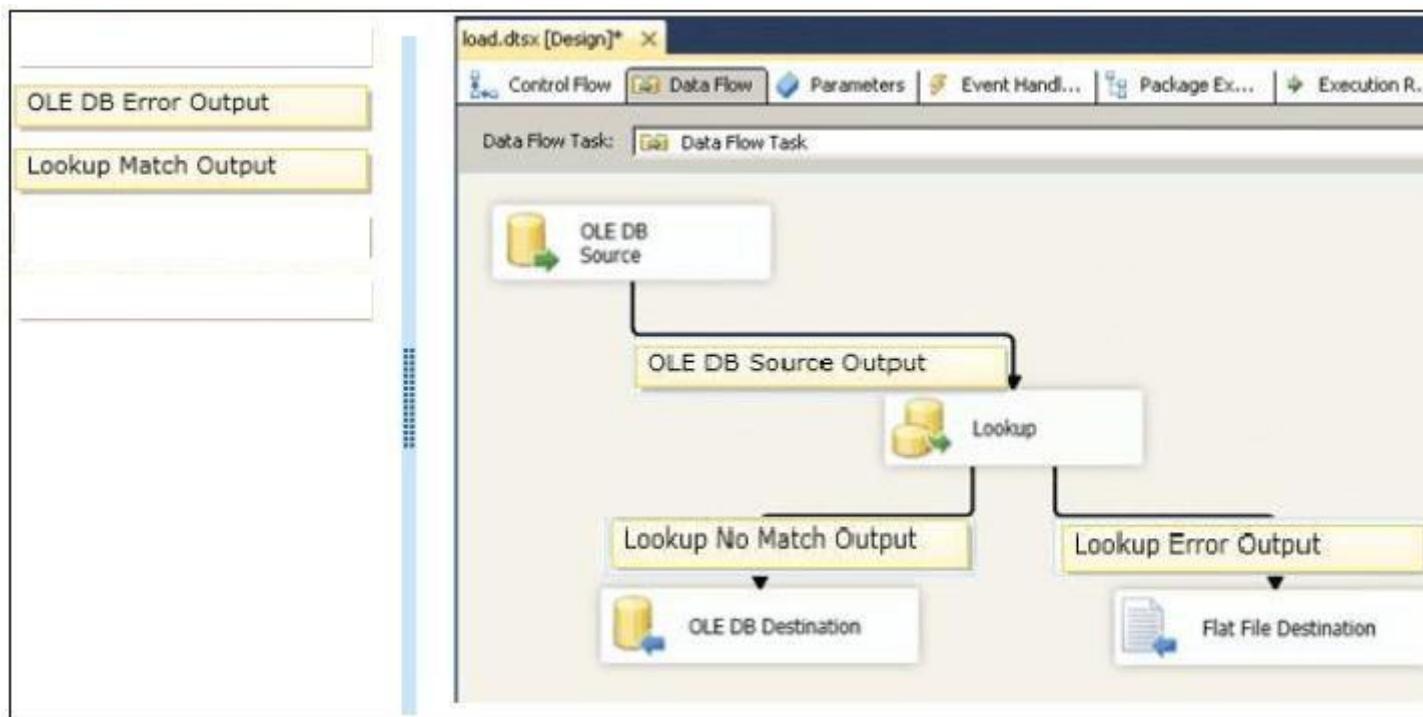
In the Lookup transformation, the setting for rows with no matching entries is set to Redirect rows to no match output. You need to configure the package to direct data into the correct destinations.

How should you design the data flow outputs? (To answer, drag the appropriate transformation from the list of answer options to the correct location in the answer area.)

#### Select and Place:



**Correct Answer:**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

**Explanation:**

Records that have no match in the destination are new records and so should be inserted.

Any errors should be recorded in the flat file.

**References:**

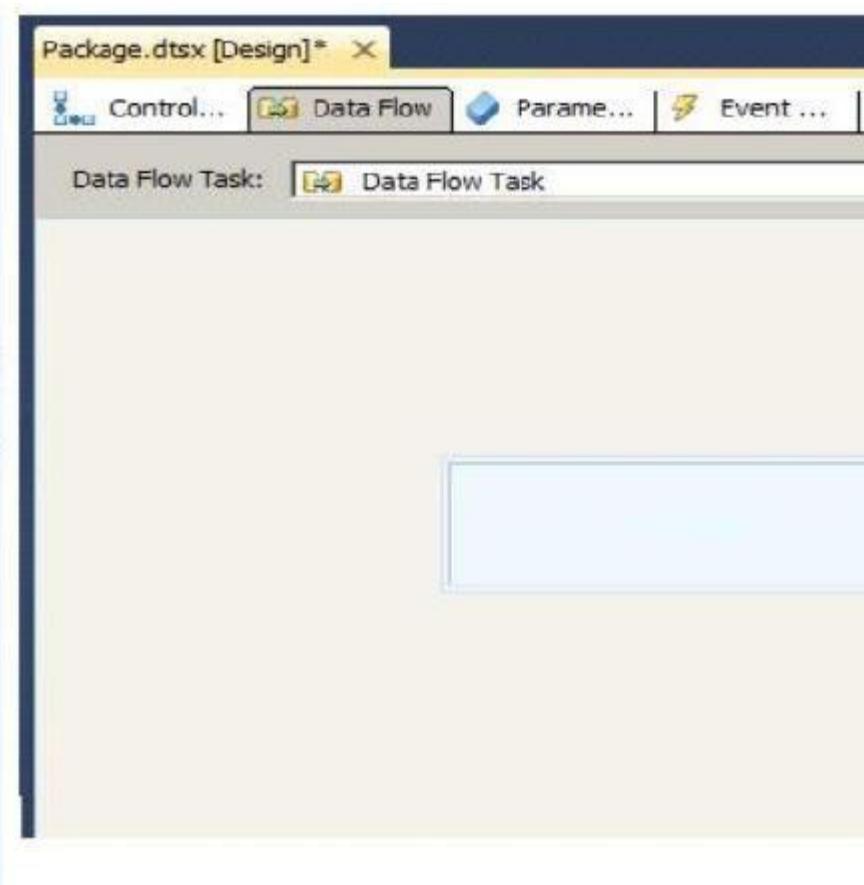
<http://msdn.microsoft.com/en-us/library/ms141821.aspx>

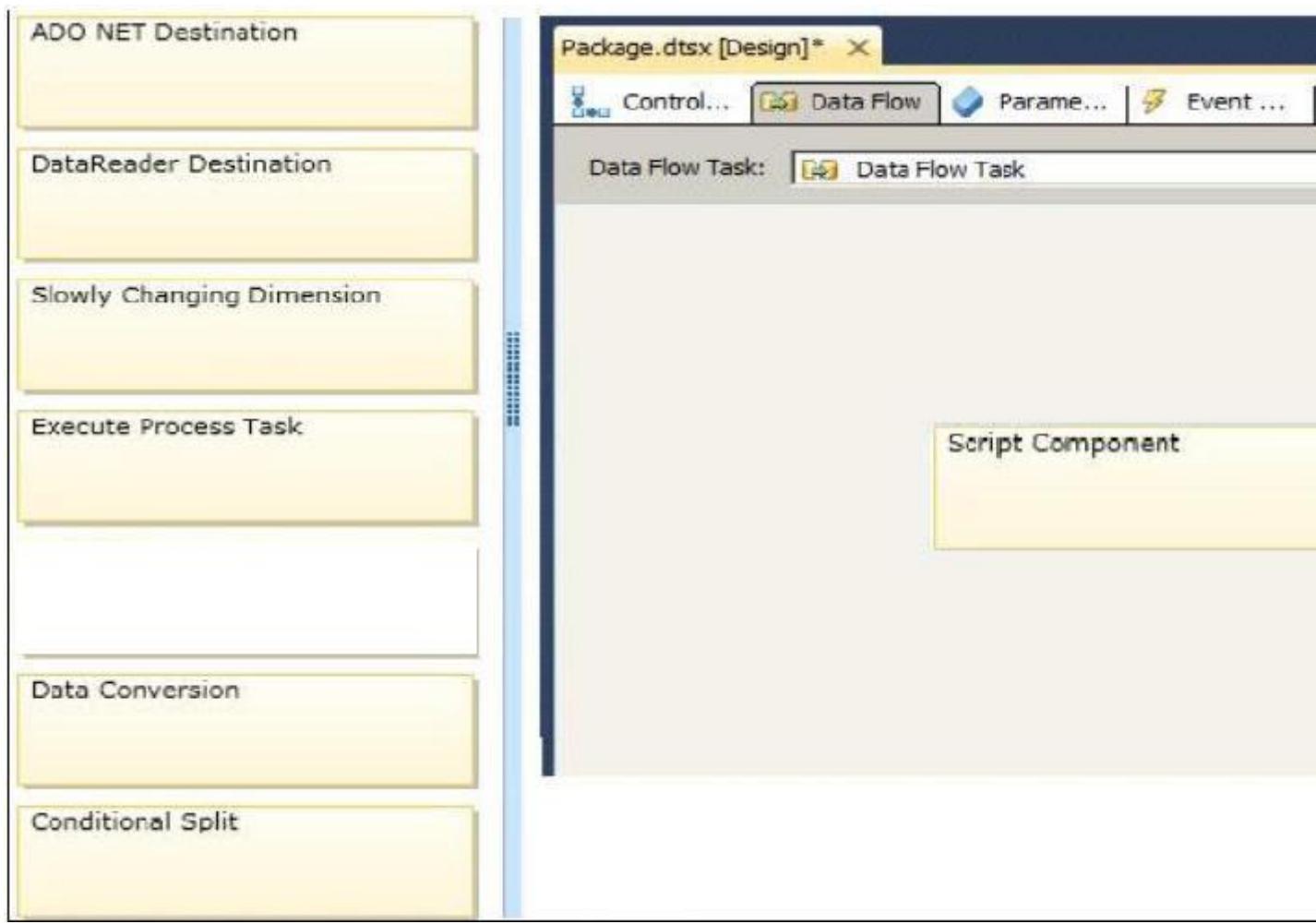
<http://msdn.microsoft.com/en-us/library/bb895366.aspx>

<https://www.simple-talk.com/sql/ssis/implementing-lookup-logic-in-sql-server-integration-services/>

**QUESTION 173**

You are developing a SQL Server Integration Services (SSIS) package. The package uses custom functionality that accesses a SQL Server database. The custom functionality must be implemented by using Language Integrated Query (LINQ). You need to ensure that the LINQ code can be debugged at design time. What should you select from the SSIS Toolbox? (To answer, drag the appropriate item to the correct location in the answer area.)

**Select and Place:****Correct Answer:**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 174**

You are developing a SQL Server Integration Services (SSIS) project by using the Project Deployment model.

The project contains many packages. It is deployed on a server named SQLTest1. The project will be deployed to several servers that run SQL Server 2012.

The project accepts one required parameter. The data type of the parameter is a string.

A SQL Agent job is created that will call the Loading.dtsx package in the project. A job step is created for the SSIS package.

The job must pass the value of an SSIS Environment Variable to the project parameter. The value of the Environment Variable must be configured differently on each server that runs SQL Server. The value of the Environment Variable must provide the server name to the project parameter.

You need to configure SSIS on the SQLTest1 server to pass the Environment Variable to the package.

Which four actions should you perform in sequence by using SQL Server Management Studio? (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:**

In the SSIS catalog, create an Environment named **EnvTest**.

In the **EnvTest** Environment, create an Environment Variable. Name the Environment Variable **EnvServer**. Set the Environment Variable value to **SQLTest1**.

In the SQL Agent job, choose the **EnvTest** Environment in the Configuration tab of the SQL Server Integration Services job step.

In the SSIS catalog, create a folder named **EnvTest**.

In the project configuration, create an Environment reference to **EnvTest**. Assign the value of the **EnvServer** Environment Variable to the project parameter.

In the project configuration, change the value of the project parameter to **EnvTest**.



**Correct Answer:**

In the SSIS catalog, create a folder named **EnvTest**.

In the project configuration, change the value of the project parameter to **EnvTest**.

In the SSIS catalog, create an Environment **EnvTest**.

In the **EnvTest** Environment, create an Environment Variable. Name the Environment Variable **EnvServer**. Set the Environment Variable value to **SQLTest1**.

In the project configuration, create an Environment reference to **EnvTest**. Assign the value of the **EnvServer** Environment Variable to the project parameter.

In the SQL Agent job, choose the **EnvTest** Environment in the Configuration tab of the SQL Server Integration Services job step.

**Section: (none)**  
**Explanation**

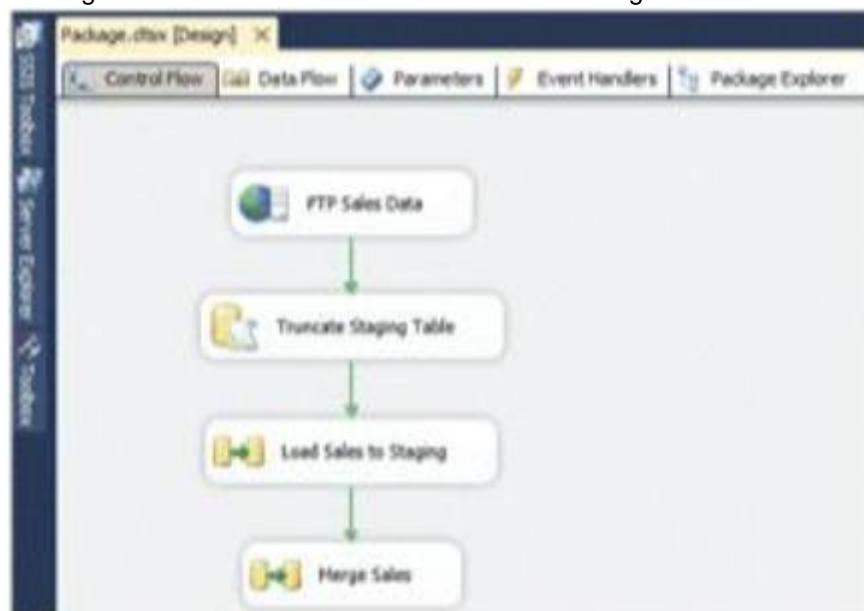
**Explanation/Reference:**

**QUESTION 175**

You are editing a SQL Server Integration Services (SSIS) package that uses checkpoints.

The package performs the following steps:

1. Download a sales transaction file by using FTP.
2. Truncate a staging table.
3. Load the contents of the file to the staging table.
4. Merge the data with another data source for loading to a data warehouse.



The checkpoints are currently working such that if any of the four steps fail, the package will restart from the failed step the next time it executes.

You need to modify the package to ensure that if either the Truncate Staging Table or the Load Sales to Staging task fails, the package will always restart from the Truncate Staging Table task the next time the package runs.

Which three steps 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:

Set the **DelayValidation** property of the container to **True**.

Set the **ForceExecutionResult** property of the **Truncate Staging Table** task to **Success**.

Create a task to delete the checkpoint file if the **Truncate Staging Table** task fails.

Set the **FailPackageOnFailure** property of the container to **True**.

Move the **Truncate Staging Table** and **Load Sales to Staging** tasks to a new Sequence container and set their **FailParentOnFailure** properties to **True**.

Set the **ForceExecutionResult** property of the **Truncate Staging Table** task to **Completion**.

Open the Data Flow page.

Open the SSIS Toolbox.



#### Correct Answer:

Set the **DelayValidation** property of the container to **True**.

Set the **ForceExecutionResult** property of the **Truncate Staging Table** task to **Success**.

Create a task to delete the checkpoint file if the **Truncate Staging Table** task fails.

Open the SSIS Toolbox.

Move the **Truncate Staging Table to Staging** tasks to a new Sequence and set their **FailParentOnFailure** property to **True**.

Set the **ForceExecutionResult** property of the **Truncate Staging Table** task to **Completion**.

Open the Data Flow page.



#### Section: (none)

#### Explanation

#### Explanation/Reference:

#### QUESTION 176

You are building a fact table in a data warehouse.

The table must have a columnstore index. The table cannot be partitioned.

You need to design the fact table and load it with data.

Which three 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:

Enable xVelocity on the server.



Create the columnstore index.

Load the data.

Create the table.

Set the **Allow Snapshot Isolation** database property to **True**.

#### Correct Answer:



**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 177**

You are creating a sales data warehouse. When a product exists in the product dimension, you update the product name. When a product does not exist, you insert a new record.

In the current implementation, the DimProduct table must be scanned twice, once for the insert and again for the update. As a result, inserts and updates to the DimProduct table take longer than expected.

You need to create a solution that uses a single command to perform an update and an insert. How should you use a MERGE T-SQL statement to accomplish this goal? (To answer, drag the appropriate answer choice from the list of options to the correct location or locations in the answer area.)

You may need to drag the split bar between panes or scroll to view content.)

**Select and Place:**

```
Source
Target
Product
Inserted
MATCHED THEN
NOT MATCHED BY TARGET THEN
NOT MATCHED BY PRODUCT AND (Target.ProductID is NULL) THEN
MATCHED AND (Target.ProductID is NULL) THEN

MERGE dbo.DimProduct AS [ ] 
USING (SELECT ProductID, ProductName, ProductColor, ProductCategory
      FROM dbo.StagingProduct) AS [ ]
ON (Target.ProductID = Source.ProductID)
WHEN [ ] 
    UPDATE SET Target.ProductName = Source.ProductName
WHEN [ ] 
    INSERT (ProductID, ProductName, ProductColor, ProductCategory)
    VALUES (Source.ProductID, Source.ProductName, Source.ProductColor, Source.ProductCategory)
    OUTPUT $action, Inserted.* , Deleted.*;

```

Correct Answer:

Product

Inserted

NOT MATCHED BY PRODUCT AND (Target.ProductID is NULL) THEN

MATCHED AND (Target.ProductID is NULL) THEN

MERGE dbo.DimProduct AS Target

USING(SELECT ProductID, ProductName, ProductColor, ProductCategory

FROM dbo.StagingProduct) AS Source

ON (Target.ProductID = Source.ProductID)

WHEN MATCHED THEN

UPDATE SET Target.ProductName = Source.ProductName

WHEN NOT MATCHED BY TARGET THEN

INSERT (ProductID, ProductName, ProductColor, ProductCategory)

VALUES (Source.ProductID, Source.ProductName, Source.ProductColor, Source.ProductCategory)

OUTPUT \$action, Inserted.\*, Deleted.\*;

## Section: (none)

### Explanation

#### Explanation/Reference:

Explanation:

References:

<http://msdn.microsoft.com/en-us/library/bb510625.aspx>

<http://msdn.microsoft.com/en-us/library/cc280522.aspx>

## QUESTION 178

A SQL Server Integration Services (SSIS) project has been deployed to the SSIS catalog. The project includes a project Connection Manager to connect to the data warehouse.

The SSIS catalog includes two Environments:

- Test
- Production

Each Environment defines a single Environment Variable named ConnectionString of type string. The value of each variable consists of the connection string to the test or production data warehouses.

You need to execute deployed packages by using either of the defined Environments.

Which three 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:

In the deployed project, set the **ConnectionString** property of the Connection Manager to use the **ConnectionString** Environment Variable.

Deploy the project to the test and production environments.

Add permissions to the **Test and Production** Environments.

Execute the deployed package by using the required Environment.

Add the Environment reference to the deployed project.

In the deployed package, set the **ConnectionString** property of the Connection Manager to use the **ConnectionString** Environment Variable.



#### Correct Answer:

Deploy the project to the test and production environments.

Add permissions to the **Test and Production** Environments.

Add the Environment reference to the deployed project.

In the deployed project, set the **ConnectionString** property of the Connection Manager to use the **ConnectionString** Environment Variable.



Execute the deployed package by using the required Environment.

#### Section: (none) Explanation

#### Explanation/Reference:

#### QUESTION 179

You are developing a SQL Server Integration Services (SSIS) package that imports data into a data warehouse.

You are developing the part of the SSIS package that populates the ProjectDates dimension

table. The business key of the ProjectDates table is the ProjectName column. The business user has given you the dimensional attribute behavior for each of the four columns in the ProjectDates table:

- ExpectedStartDate - New values should be tracked over time.
- ActualStartDate - New values should not be accepted.
- ExpectedEndDate - New values should replace existing values.
- ActualEndDate - New values should be tracked over time.

You use the SSIS Slowly Changing Dimension Transformation.

You must configure the Change Type value for each source column.

Which Change Type values should you select? (To answer, drag the appropriate value from the list of values to the correct location or locations in the answer area.)

**Select and Place:**

Fixed Attribute	Dimension Columns	Change Type
Historical Attribute	ExpectedStartDate	
Change Attribute	ActualStartDate	
	ExpectedEndDate	
	ActualEndDate	

**Correct Answer:**

Fixed Attribute	Dimension Columns	Change Type
Historical Attribute	ExpectedStartDate	Historical Attribute
Change Attribute	ActualStartDate	Fixed Attribute
	ExpectedEndDate	Change Attribute
	ActualEndDate	Historical Attribute

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

References:

<http://msdn.microsoft.com/en-us/library/ms141715.aspx>

<http://msdn.microsoft.com/en-us/library/ms141662.aspx>

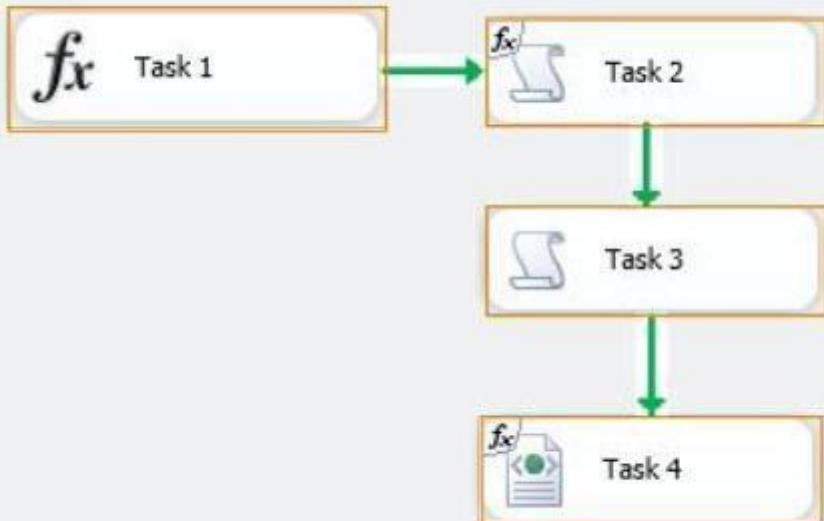
**QUESTION 180**

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

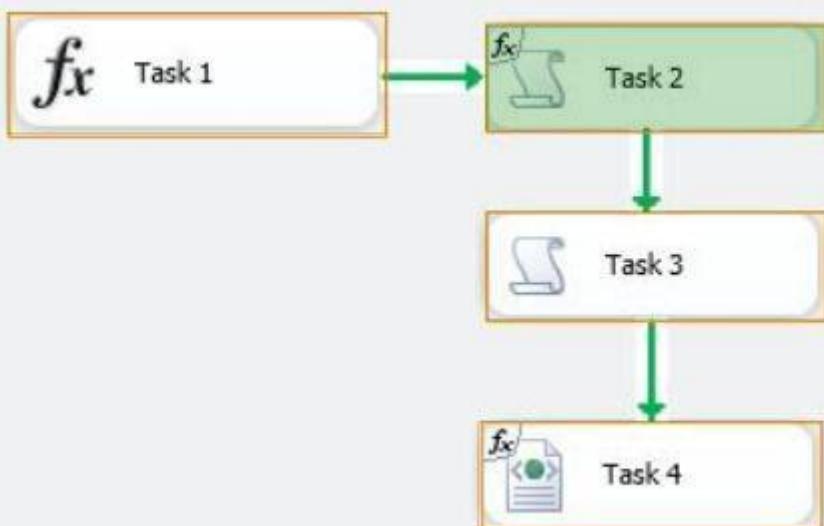
You need to edit the Script task that has an expression defined.

Which task should you select? To answer, select the appropriate setting or settings in the answer area.

**Hot Area:**



**Correct Answer:**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 181

You are developing a SQL Server Integration Services (SSIS) package that imports unsorted data into a data warehouse hosted on SQL Azure.

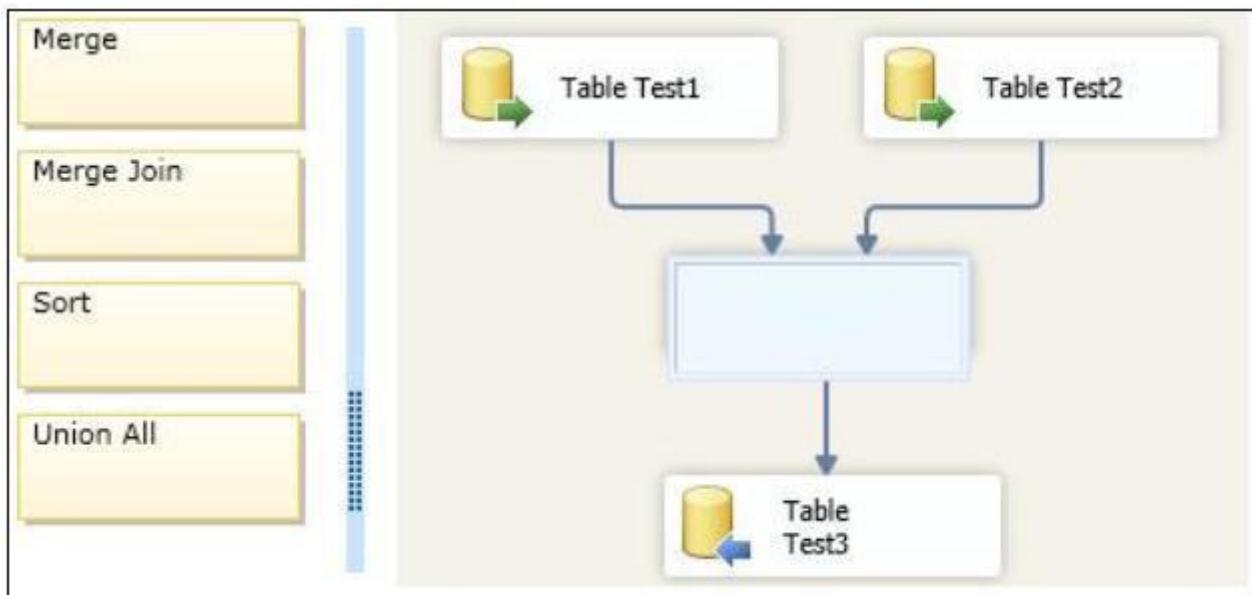
You have the following requirements:

- A destination table must contain all of the data in two source tables.
- Duplicate records must be inserted into the destination table.

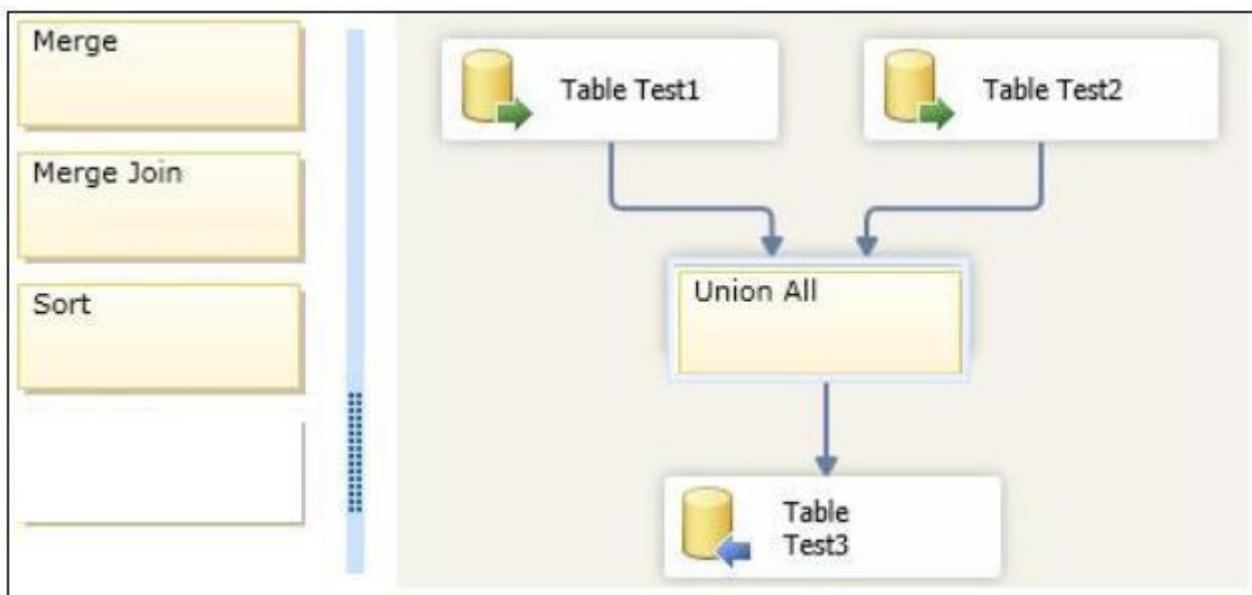
You need to develop a data flow that imports the data while meeting the requirements.

How should you develop the data flow? (To answer, drag the appropriate transformation from the list of transformations to the correct location in the answer area.)

**Select and Place:**



**Correct Answer:**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

References:

<http://msdn.microsoft.com/en-us/library/ms141703.aspx>  
<http://msdn.microsoft.com/en-us/library/ms141775.aspx>  
<http://msdn.microsoft.com/en-us/library/ms141020.aspx>  
<http://msdn.microsoft.com/en-us/library/ms140182.aspx>

#### **QUESTION 182**

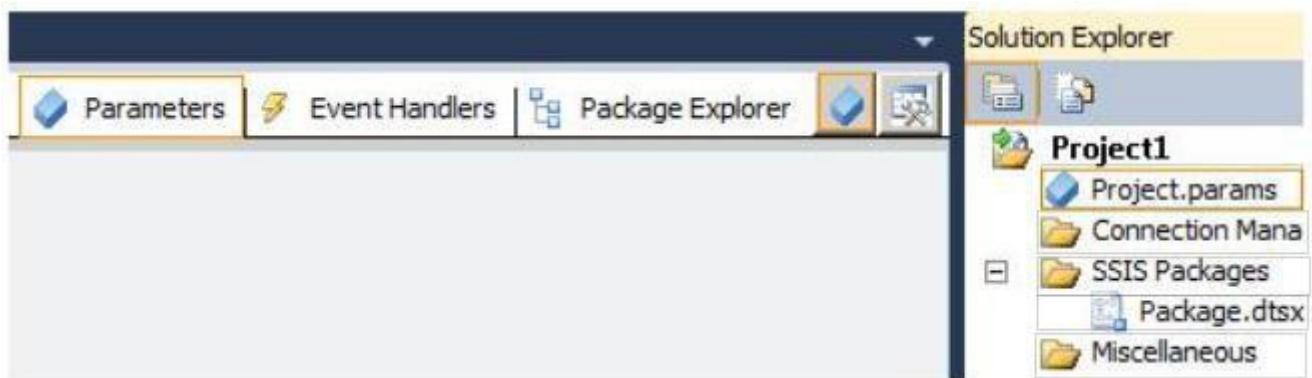
You are editing a SQL Server Integration Services (SSIS) project named Project1 in SQL Server Data Tools.

A package Connection Manager has been parameterized with project scope.

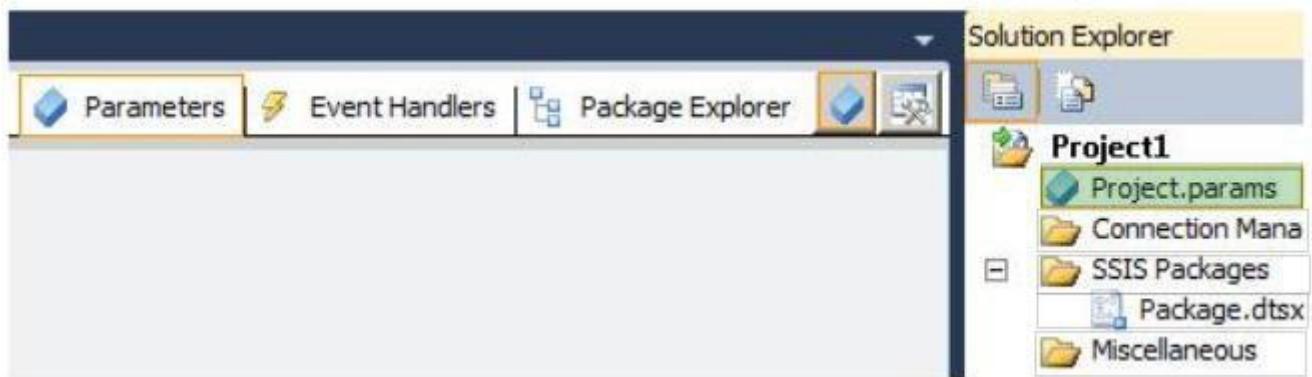
You need to display the parameters that have been generated for the Connection Manager.

What should you use? To answer, select the appropriate setting or settings in the answer area.

**Hot Area:**



**Correct Answer:**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 183**

You are developing a SQL Server Integration Services (SSIS) package that is ready for deployment to a production server. The package contains sensitive information secured by using the EncryptSensitiveWithUserKey package protection level.

You are preparing the package for deployment by the production operations team.

You need to ensure that the production operations team can open and execute the package without re-entering the sensitive information.

Which three steps 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:**

Open the package in SQL Server Data Tools.

In the Properties window, change the **ProtectionLevel** property to **EncryptSensitiveWithPassword** and enter the **PackagePassword**.

Use the **[Encrypt]** option with the required protection level and password.

Run the **dtexecUI** command prompt utility.

Click the task that contains the sensitive information.

Click the design surface of the Control Flow designer.

Run the **dtexec** command prompt utility.

When prompted, reset the package protection level for production.



Correct Answer:

Open the package in SQL Server Data Tools.

Click the design surface of the Control Flow designer.

Use the **[Encrypt]** option with the required protection level and password.

Run the **dtexecUI** command prompt utility.

Click the task that contains the sensitive information.

Run the **dtexec** command prompt utility.

When prompted, reset the package protection level for production.



Section: (none)  
Explanation

**Explanation/Reference:****QUESTION 184**

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
	BULK INSERT
OPENDATASOURCE	Recovery model
	Bulk-logged
Full	

**Section: (none)****Explanation****Explanation/Reference:**

Explanation:

References:

<http://msdn.microsoft.com/en-us/library/ms162802.aspx>  
<http://msdn.microsoft.com/en-us/library/ms188365.aspx>  
<http://msdn.microsoft.com/en-us/library/ms175937.aspx>  
<http://msdn.microsoft.com/en-us/library/aa337544.aspx>

**QUESTION 185**

You administer a Microsoft SQL Server database. Service accounts for SQL Agents are configured to use a local user. A Microsoft SQL Server Integration Services (SSIS) job step has

been created within a SQL Server Agent job. The SSIS package accesses a network share when exporting data from a SQL Server database.

When you execute the SQL Server Agent job, it fails due to a permissions failure on a share on a remote server. You need to ensure that the SQL Server Agent job can execute the SSIS package. 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:**

Ordered List Title	Answer Choices Title
	<p>Add a proxy that references the local user.</p> <p>Add a proxy that references the credential.</p> <p>Create a local user account and grant local administrator on the SQL Server instance.</p> <p>Create a credential that references the local user.</p> <p>Create a credential that references the domain user.</p> <p>Assign the proxy to the Operating System subsystem.</p> <p>Assign the proxy to the SSIS package execution subsystem.</p> <p>Create a domain user account and grant permissions to the domain user account to access the network share.</p>

<< Move

Remove >>

**Correct Answer:**

Ordered List Title	Answer Choices Title
<p>▲ Create a domain user account and grant permissions to the domain user account to access the network share.</p>	<p>Add a proxy that references the local user.</p>
<p>▼ Create a credential that references the domain user.</p>	
<p>Add a proxy that references the credential.</p>	<p>Create a local user account and grant local administrator on the SQL Server instance.</p>
<p>Assign the proxy to the SSIS package execution subsystem.</p>	<p>Create a credential that references the local user.</p>
	<p>&lt;&lt; Move</p> <p>Remove &gt;&gt;</p> <p>Assign the proxy to the Operating System subsystem.</p>

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

References:

<http://msdn.microsoft.com/en-us/library/ms175834.aspx>

<http://msdn.microsoft.com/en-us/library/ms189522.aspx>

<http://msdn.microsoft.com/en-us/library/ms190703.aspx>

<http://msdn.microsoft.com/en-us/library/ms161950.aspx>

**QUESTION 186**

You are designing a SQL Server Integration Services (SSIS) package configuration strategy.

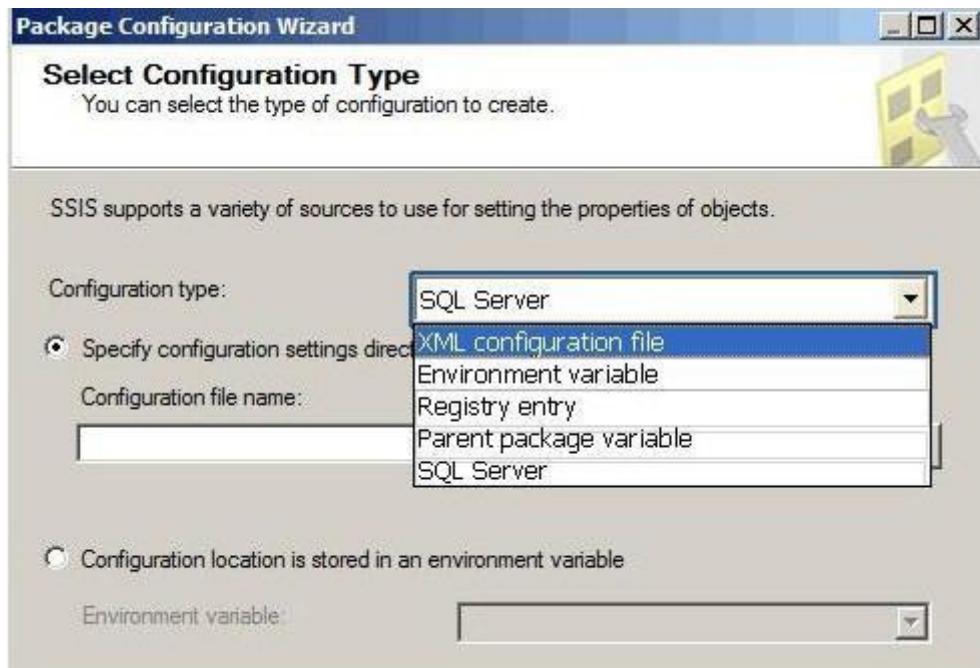
The package configuration must meet the following requirements:

- Include multiple properties in a configuration.
- Support several packages with different configuration settings.

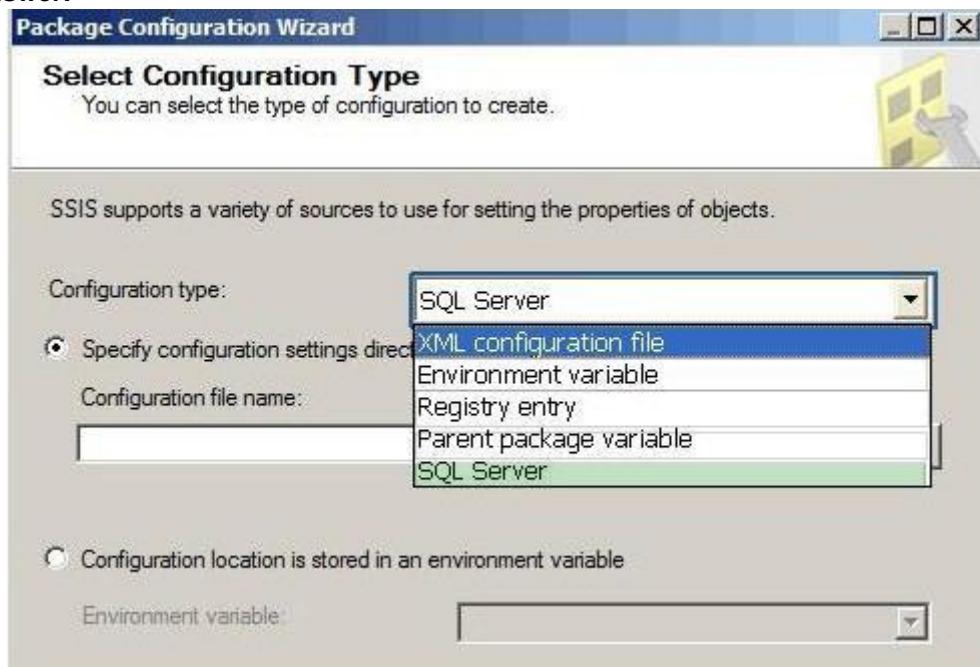
You need to select the appropriate configuration. Which configuration type should you use?

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

**Hot Area:**



**Correct Answer:**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 187**

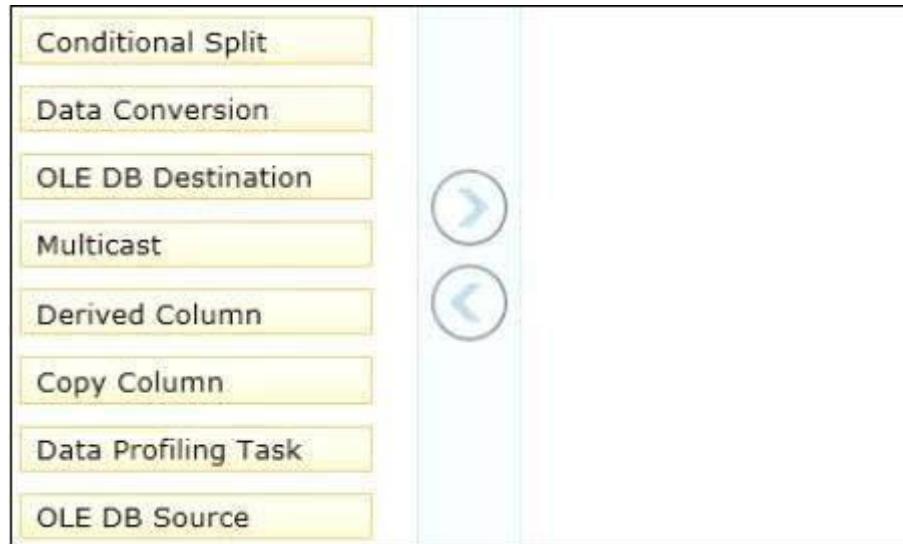
You are creating a SQL Server Integration Services (SSIS) package to populate a fact table from a source table. The fact table and source table are located in a SQL Azure database. The source table has a price field and a tax field. The OLE DB source uses the data access mode of Table. You have the following requirements:

- The fact table must populate a column named TotalCost that computes the sum of the price and tax columns.
- Before the sum is calculated, any records that have a price of zero must be discarded.

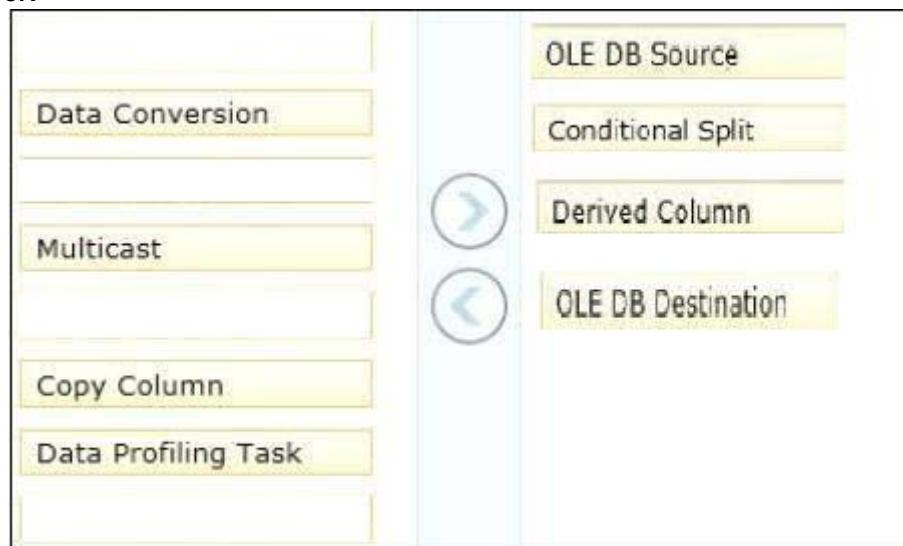
You need to create the SSIS package in SQL Server Data Tools.

In what sequence should you order four of the listed components for the data flow task? (To answer, move the appropriate components from the list of components to the answer area and arrange them in the correct order.)

**Select and Place:**



**Correct Answer:**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 188**

You are designing a SQL Server Integration Services (SSIS) package to execute 12 Transact-SQL (T-SQL) statements on a SQL Azure database. The T-SQL statements may be executed in any order. The T-SQL statements have unpredictable execution times.

You have the following requirements:

- The package must maximize parallel processing of the T-SQL statements.
- After all the T-SQL statements have completed, a Send Mail task must notify administrators.

You need to design the SSIS package. Which three 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:**

Add a Send Mail task to the control flow. Add a precedence constraint for Completion to the final Execute SQL task and link it to the Send Mail task.

Add a Sequence container to the control flow.

Add a Send Mail task to the control flow. Add a precedence constraint for Completion to the Sequence container and link it to the Send Mail task.

Create precedence constraints for Completion between all the Execute SQL tasks.

Add 12 Execute SQL tasks to the control flow and configure the tasks.

Add 12 Execute SQL tasks to the Sequence container and configure the tasks.



**Correct Answer:**

Add a Send Mail task to the control flow. Add a precedence constraint for Completion to the final Execute SQL task and link it to the Send Mail task.

Add a Sequence container to the control

Add 12 Execute SQL tasks to the contro  
configure the tasks.



Create precedence constraints for Completion between all the Execute SQL tasks.

Add a Send Mail task to the control flow  
precedence constraint for Completion to  
container and link it to the Send Mail ta

Add 12 Execute SQL tasks to the Sequence container and configure the tasks.

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 189**

You plan to deploy a SQL Server Integration Services (SSIS) project by using the project deployment model.

You need to monitor control flow tasks to determine whether any of them are running longer than usual. Which three 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:**

Write a query against the **catalog.operation\_messages** view. Add a calculation to the query to compare durations to the **catalog.executables** view.

Execute the query.

Write a query against the **catalog.execution\_component\_phases** view. Add a calculation to the query to compare durations to the **catalog.executables** view.

Connect to the **SSISDB** database.

Connect to the **msdb** database.

Write a query against the **catalog.execution\_component\_phases** view. Add a calculation to the query to compare durations to the **catalog.executions** view.

Write a query against the **catalog.operation\_messages** view. Add a calculation to the query to compare durations to the **catalog.executions** view.

#### Correct Answer:

Write a query against the **catalog.operation\_messages** view. Add a calculation to the query to compare durations to the **catalog.executables** view.

Write a query against the **catalog.execution\_component\_phases** view. Add a calculation to the query to compare durations to the **catalog.executables** view.

Connect to the **msdb** database.

Write a query against the **catalog.operation\_messages** view. Add a calculation to the query to compare durations to the **catalog.executions** view.



Connect to the **SSISDB** database.

Write a query against the **catalog.execution\_component\_phases** view. Add a calculation to the query to compare durations to the **catalog.executions** view.



Execute the query.

#### Section: (none)

#### Explanation

#### Explanation/Reference:

Ref:

<http://msdn.microsoft.com/en-us/library/hh230981.aspx>  
<http://msdn.microsoft.com/en-us/library/ff878089.aspx>

### QUESTION 190

You are validating whether a SQL Server Integration Services (SSIS) package named Master.dtsx in the SSIS catalog is executing correctly.

You need to display the number of rows in each buffer passed between each data flow component of the package.

Which three 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:

Execute a SQL statement with a package name of Master.dtsx against the **catalog.executions** view and return its execution ID.

Run the Master.dtsx package with the logging level set to **Performance**.

Execute a SQL statement with the execution ID equal to the previously retrieved execution ID against the **catalog.execution\_data\_statistics** view and return the **rows\_sent** column values for all the rows.

Run the Master.dtsx package with the logging level set to **Verbose**.

Execute a SQL statement with a package name of Master.dtsx against the **msdb..sysssislog** table and return its execution ID.



#### Correct Answer:

Run the Master.dtsx package with the logging level set to **Verbose**.

Run the Master.dtsx package with the logging level set to **Performance**.



Execute a SQL statement with a package name of Master.dtsx against the **catalog.executions** view and return its execution ID.

Execute a SQL statement with a package name of Master.dtsx against the **msdb..sysssislog** table and return its execution ID.

Execute a SQL statement with the execution ID equal to the previously retrieved execution ID against the **catalog.execution\_data\_statistics** view and return the **rows\_sent** column values for all the rows.

#### Section: (none)

## **Explanation**

### **Explanation/Reference:**

Explanation:

1. Run with verbose settings
2. Get Execution ID from .executions
3. Get stats from .execution\_data\_statistics ( rows\_sent )

Ref: <http://msdn.microsoft.com/en-us/library/hh230986.aspx>

## **QUESTION 191**

You are designing a SQL Server Integration Services (SSIS) package configuration strategy.

The package configuration must meet the following requirements:

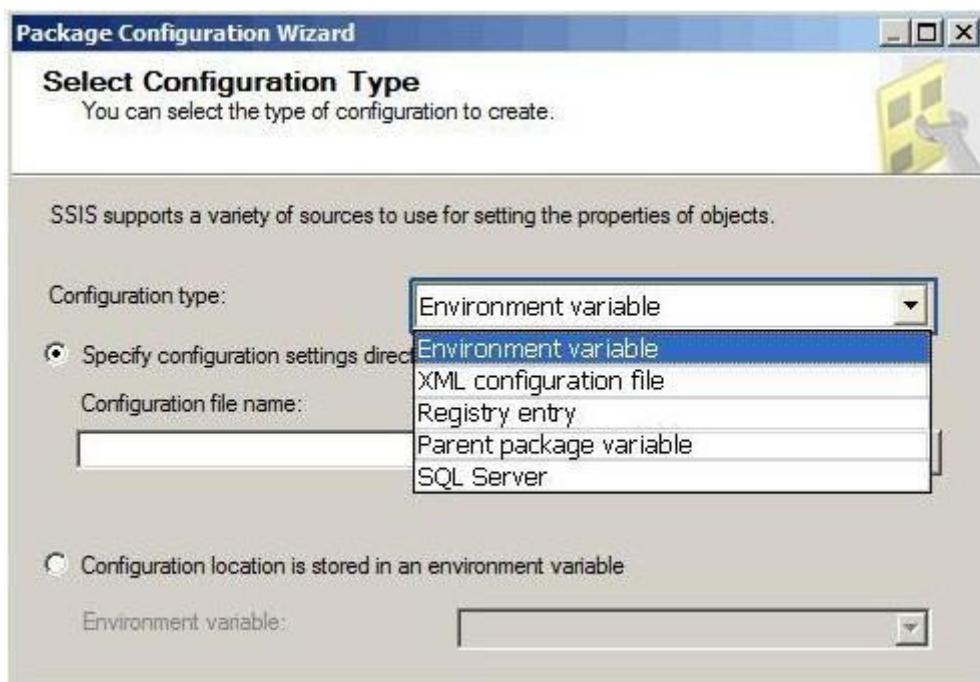
- Include multiple properties in a configuration.
- Force packages to load all settings in the configuration.
- Support Encrypting File System (EFS) formats.

You need to select the appropriate configuration.

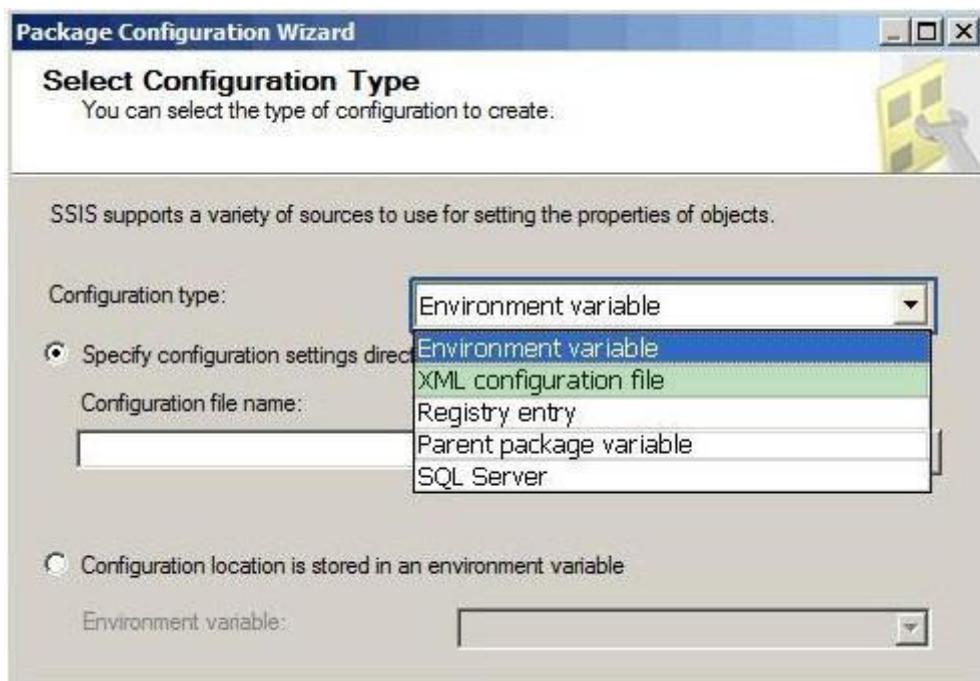
Which configuration type should you use?

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

### **Hot Area:**



### **Correct Answer:**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 192**

You are the administrator for a Data Quality Server. You are adding a user who must have permission to:

- Edit and execute a project
- View the activity monitoring data

This user must not be able to:

- Perform any kind of knowledge management
- Create or change a knowledge base
- Terminate an activity or perform administrative duties

You need to develop a Transact-SQL (T-SQL) script to meet these requirements.

What should you do? (To answer, drag the appropriate code segment or segments to the correct location or locations in the answer area.)

**Select and Place:**

[msdb]

[master]

[DQS\_MAIN]

[dqs\_kb\_editor]

[dqs\_kb\_operator]

[dqs\_administrator]

```
USE [master]
GO
CREATE LOGIN [MYDOMAIN\dqsuser] FROM WINDOWS WITH DEFAULT_DATABASE=[master]
GO
USE [DQS_MAIN]
GO
CREATE USER [MYDOMAIN\dqsuser] FOR LOGIN [MYDOMAIN\dqsuser]
GO
ALTER ROLE [dqs_kb_operator] ADD MEMBER [MYDOMAIN\dqsuser]
GO
```

**Correct Answer:**

```
[msdb]  
[master]  
  
[dqs_kb_editor]  
  
[dqs_administrator]  
  
USE [master]  
GO  
CREATE LOGIN [MYDOMAIN\dqsuser] FROM WINDOWS WITH DEFAULT_DATABASE=[ma  
GO  
USE [DQS_MAIN]  
GO  
CREATE USER [MYDOMAIN\dqsuser] FOR LOGIN [MYDOMAIN\dqsuser]  
GO  
ALTER ROLE [dqs_kb_operator]  
GO  
ADD MEMBER [MYDOMAIN\dqsuser]
```

### Section: (none)

#### Explanation

#### Explanation/Reference:

### QUESTION 193

A new dedicated server is used to execute resource-intensive SQL Server Integration Services (SSIS) 2012 packages. The environment that you are deploying the packages to has the following constraints:

- The operating system is Windows Server 2008 R2.
- The SSIS packages are stored in the SSIS catalog.
- Some of these SSIS packages use 32-bit custom components.

You need to install only the components that are required to deploy and run the packages on the new server.

Which three 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:

Configure the MsDtsSrvr.ini.xml file to use the msdb database.

Install Database Engine Services, Integration Services, and Client Tools SDK.

Install Microsoft .NET Framework 3.5 SP1.

Install Database Engine Services, Integration Services, and SQL Server Data Tools.

Install Database Engine Services, Integration Services, and Management Tools – Basic.

Create the SSIS catalog.

Install Database Engine Services and Integration Services.

#### Correct Answer:

Install Database Engine Services, Integration Services, and Client Tools SDK.

Install Microsoft .NET Framework 3.5 SP1.

Install Database Engine Services, Integration Services, and Management Tools – Basic.

Install Database Engine Services and Integration Services.

Create the SSIS catalog.

Install Database Engine Services, Integration Services, and SQL Server Data Tools.

Configure the MsDtsSrvr.ini.xml file to use the msdb database

#### Section: (none)

#### Explanation

##### Explanation/Reference:

Note:

Step 1:

Step 2:

If you require 32-bit versions of the Integration Services runtime and tools to run certain packages in 32-bit mode, you must also install SQL Server Data Tools (SSDT).

Note:

For a complete installation of Integration Services, together with the tools and documentation for developing and managing packages, select both Integration Services and the following Shared Features:

\* SQL Server Data Tools to install the tools for designing packages.

\* Management Tools - Complete to install SQL Server Management Studio for managing packages.

\* Client Tools SDK to install managed assemblies for Integration Services programming.

Step 3: How to Modify the Service Configuration File to Connect to a Named Instance of SQL Server

To connect to a named instance of SQL Server, you must modify the service configuration file, MsDtsSrvr.ini.xml.

#### QUESTION 194

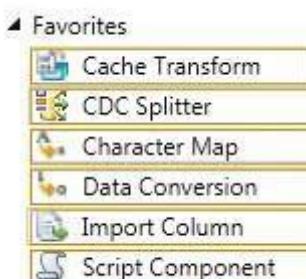
You are developing a SQL Server Integration Service (SSIS) package. The package loads a customer dimension table by using a data flow task.

Changes to the customer attributes must be tracked over time.

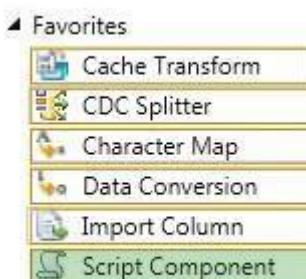
You need to produce a checksum value to identify the rows that have changed since the last Extract, Transform and Load (ETL) process execution. You need to use the least amount of development effort to achieve this goal.

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

#### Hot Area:



**Correct Answer:**



**Section: (none)**  
**Explanation**

**Explanation/Reference:**

**QUESTION 195**

A SQL Server Integration Services (SSIS) package is designed to download data from a financial database hosted in SQL Azure.

The connection string to the financial database is defined as a project parameter named FinConStr. The parameter value must be stored securely and must be set explicitly every time the package is executed.

You need to configure the parameter to meet the requirements.

What should you do? (To answer, configure the appropriate option or options in the dialog box in the answer area.)

**Hot Area:**

A screenshot of the SSIS Parameters dialog box. The 'FinConStr' parameter is selected. The 'Sensitive' and 'Required' dropdowns are open, showing the options False and True.

Name	Data type	Value	Sensitive	Required	Description
FinConStr	String		False True	False True	

**Correct Answer:**

Name	Data type	Value	Sensitive	Required	Description
FinConStr	String		False True	False True	

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 196**

You are the Master Data Services (MDS) administrator at your company.

An existing user must be denied access to a certain hierarchy node for an existing model.

You need to configure the user's permissions.

Which user management menu item should you select? (To answer, configure the appropriate option or options in the dialog box in the answer area.)

**Hot Area:**

Microsoft SQL Server 2012  
Master Data Services

Manage Users      Manage Groups

Users

User Name: username-BMA\username

Edit      Delete

- General
- Membership
- Functions
- Models
- Hierarchy members

**Correct Answer:**

**Section: (none)****Explanation****Explanation/Reference:****QUESTION 197**

You are loading a dataset into SQL Server. The dataset contains numerous duplicates for the Artist and Song columns.

The values in the Artist column in the dataset must exactly match the values in the Artist domain in the knowledge base. The values in the Song column in the dataset can be a close match with the values in the Song domain.

You need to use SQL Server Data Quality Services (DQS) to define a matching policy rule to identify duplicates.

How should you configure the Rule Editor? (To answer, drag the appropriate answers to the answer area.)

**Select and Place:**

0  
50  
100

Prerequisite Choices

No  
Yes

Rule Editor

Domain	Similarity	Weight	Prerequisite
Artist	Similar		
Song	Similar		

**Correct Answer:**

Domain	Similarity	Weight	Prerequisite
Artist	Similar	0	Yes
Song	Similar	100	No

**Section: (none)**

**Explanation**

**Explanation/Reference:**

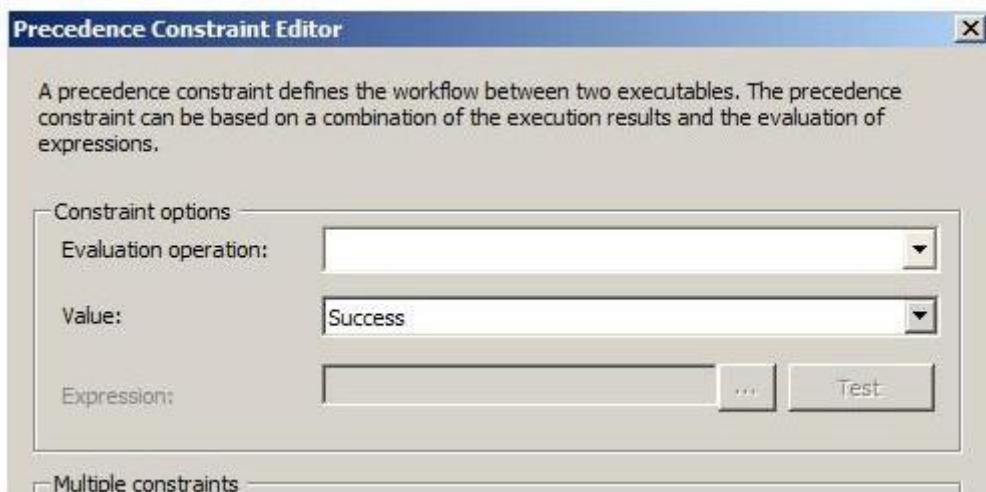
**QUESTION 198**

You are developing a SQL Server Integration Services (SSIS) package. An Execute SQL task in the package checks product stock levels and sets a package variable named InStock to TRUE or FALSE depending on the stock level found.

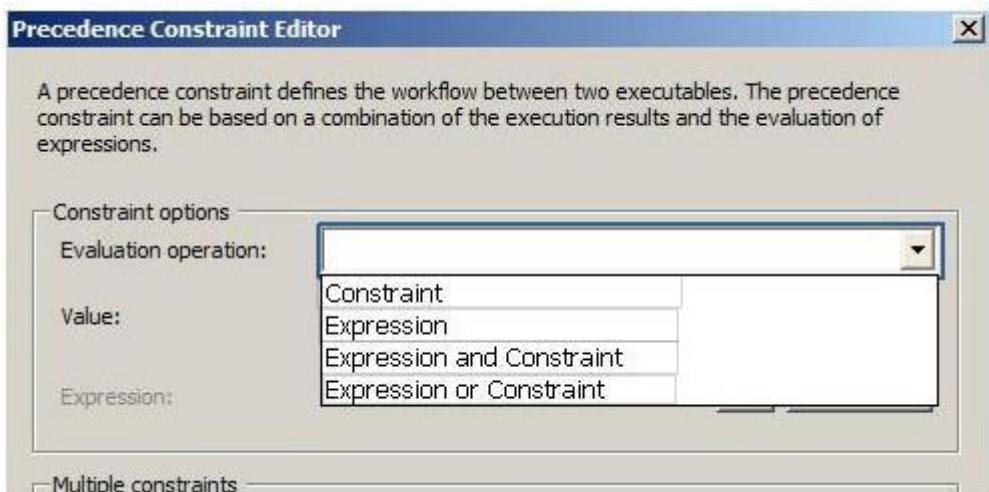
After the successful execution of the Execute SQL task, one of two data flow tasks must run, depending on the value of the InStock variable.

You need to set the precedence constraints.

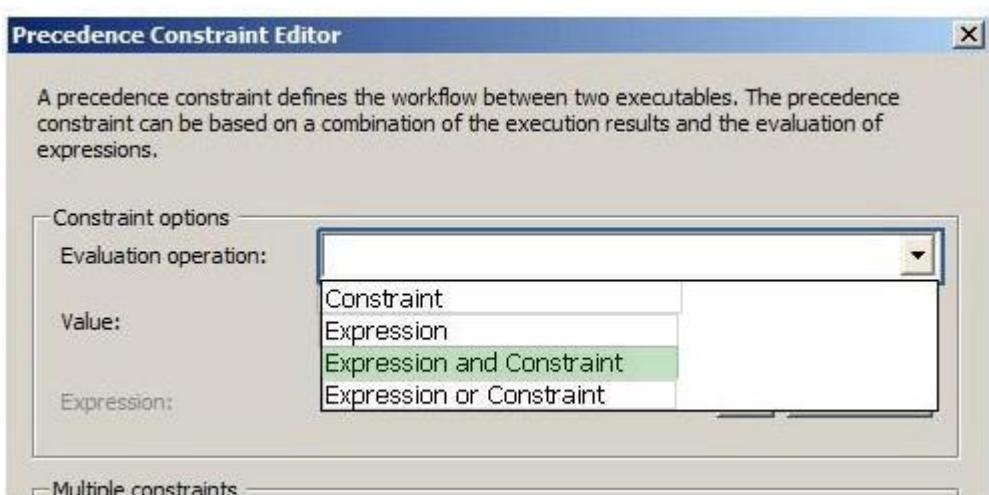
Which value for the evaluation operation should you use? (To answer, select the appropriate option for the evaluation operation in the answer area.)



**Hot Area:**



**Correct Answer:**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 199**

You are developing a SQL Server Integration Services (SSIS) package that downloads data from a Windows Azure SQL Database database.

A stored procedure will be called in an Execute SQL task by using an ODBC connection. This stored procedure has only the @CustomerID parameter of type INT.

A project parameter named CustID will be mapped to the stored procedure parameter @CustomerID.

You need to ensure that the value of the CustID parameter is passed to the @CustomerID stored procedure parameter.

In the Parameter Mapping tab of the Execute SQL task editor, how should you configure the parameter? (To answer, drag the appropriate option or options to the correct location or locations in the answer area.)

**Select and Place:**

@CustomerID	Variable Name:	
\$Project::CustID	Direction:	
User::CustID	Data Type:	
Input		
Output	Parameter Name:	
SQL_INTEGER		
SQL_SMALLINT		
SQL_VARCHAR		
0		
1		

**Correct Answer:**

@CustomerID	Variable Name:	\$Project::CustID
	Direction:	Input
User::CustID	Data Type:	SQL_INTEGER
Output	Parameter Name:	1
SQL_SMALLINT		
SQL_VARCHAR		
0		

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 200**

You are developing a SQL Server Integration Services (SSIS) package that loads data into a data warehouse hosted on Windows Azure SQL Database.

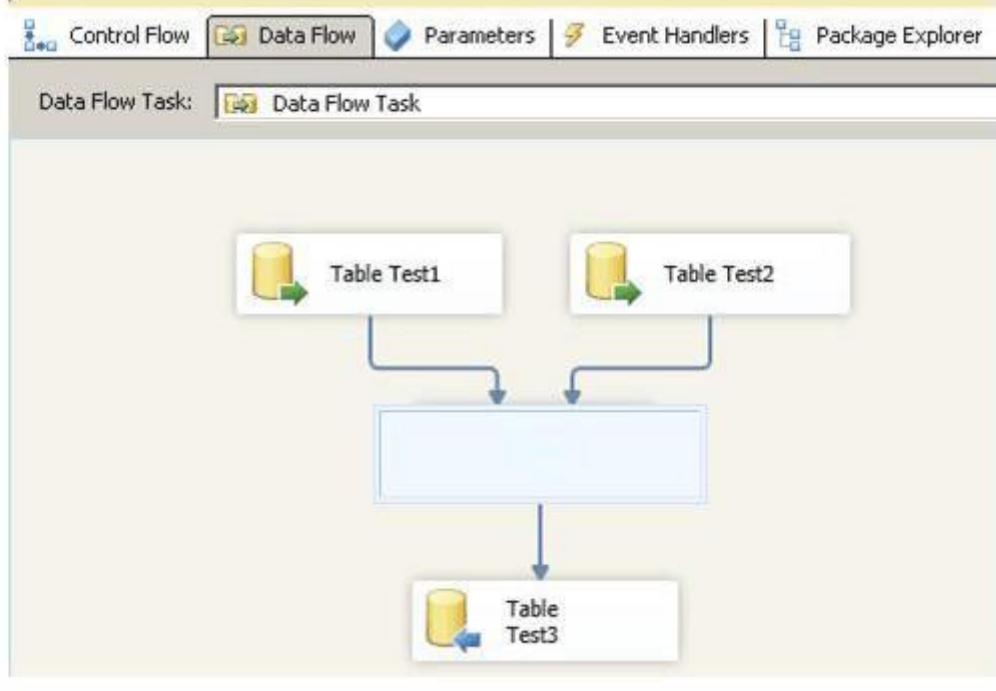
You must combine two data sources together by using the ProductID column to provide complete details for each record. The data retrieved from each data source is sorted in ascending order by the ProductID column.

You need to develop a data flow that imports the data while meeting the requirements.

How should you develop the data flow? (To answer, drag the appropriate transformation from the list of transformations to the correct location in the answer area.)

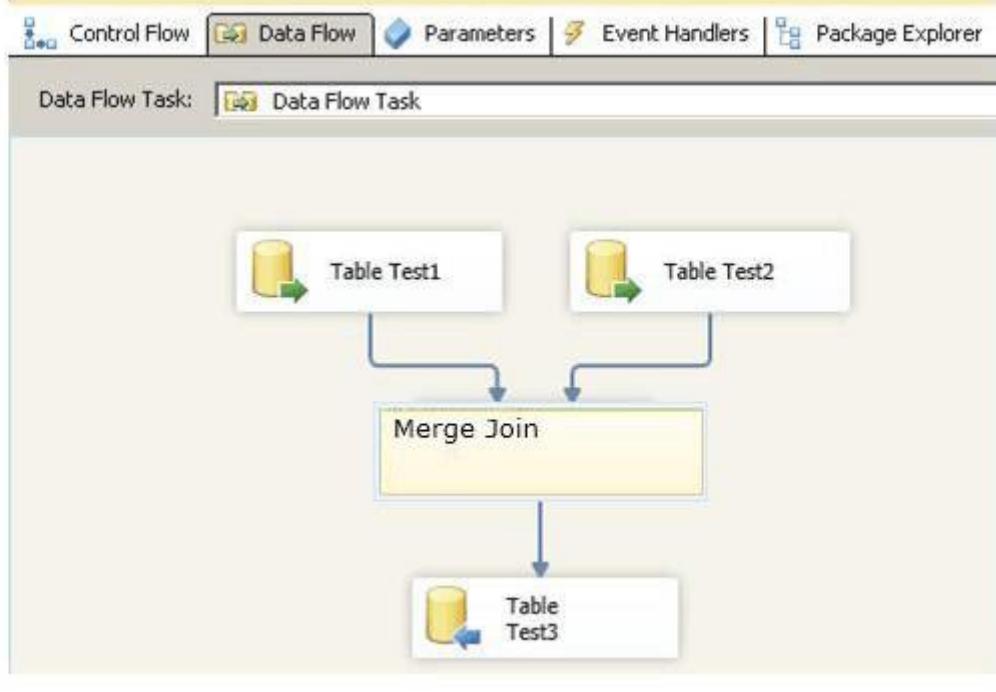
**Select and Place:**

Merge  
Merge Join  
Sort  
Union All



**Correct Answer:**

Merge  
Sort  
Union All



**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 201

You are developing a SQL Server Integration Services (SSIS) package.  
The package contains several tasks that must repeat until an expression evaluates to FALSE.  
You need to add and configure a container to enable this design.  
Which three 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:**

- Configure the **EvalExpression** property.
- Configure the **Enumerator** property.
- Open the Data Flow designer of the package.
- Add and edit a For Loop container.
- Add and edit a Foreach Loop container.
- Open the Control Flow designer of the package.

**Correct Answer:**

- 
- 
- 
- 
- 
- Open the Control Flow designer of the package.
- Configure the **Enumerator** property.
- Open the Data Flow designer of the package.
- Add and edit a For Loop container.
- 
- Configure the **EvalExpression** property.
- 
- Add and edit a Foreach Loop container.
- 

**Section: (none)****Explanation****Explanation/Reference:****Note:**

\* You create the control flow in a package by using the control flow designer.

Integration Services includes three types of containers that you can use in a control flow.

/ Foreach Loop container

/ For Loop container

/ Sequence container

\* For Loop Container

The For Loop container defines a repeating control flow in a package. The loop implementation is similar to the For looping structure in programming languages. In each repeat of the loop, the For Loop container evaluates an expression and repeats its workflow until the expression evaluates to False.

The For Loop container uses the following elements to define the loop:

/ An optional initialization expression that assigns values to the loop counters.

/ An evaluation expression that contains the expression used to test whether the loop should stop or continue.

/ An optional iteration expression that increments or decrements the loop counter.

**QUESTION 202**

You are maintaining a SQL Server Integration Services (SSIS) package. The package uses custom functionality that is implemented in Microsoft Visual C#.

The implementation of the custom functionality changes overtime. The design of the package allows you to deploy new releases of the custom functionality without redeploying the entire package.

You need to implement and deploy an update to the custom functionality without requiring package redeployment.

Which three 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.)

Answer:

**Select and Place:**

- Redeploy the package.
- Edit the C# code.
- Rebuild and redeploy the DLL file that is generated by the Script task.
- Rebuild and redeploy the DLL file that is generated by the Script component.
- Rebuild and redeploy the custom object.
- Open the Script task of the package that contains the custom functionality.
- Open the custom object that contains the custom functionality.
- Open the Script component of the package that contains the custom functionality.

**Correct Answer:**

- Redeploy the package.
- Open the custom object that contains the custom functionality.
- Rebuild and redeploy the DLL file that is generated by the Script task.
- Edit the C# code.
- Rebuild and redeploy the DLL file that is generated by the Script component.
- Rebuild and redeploy the custom object.
- Open the Script task of the package that contains the custom functionality.
- Open the Script component of the package that contains the custom functionality.

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 203**

You are the data steward at your company.

Duplicate customers exist in a Microsoft Excel workbook. You create a Data Quality Services (DQS) knowledge base and matching policy to identify these duplicate customers.

You need to identify the duplicate customers.

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

**Hot Area:**



**Correct Answer:**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 204**

You are developing a SQL Server Integration Services (SSIS) package. The data source for the data flow task is a table that has been configured as a change data capture (CDC) table. You are using a CDC Source component to obtain the CDC data.

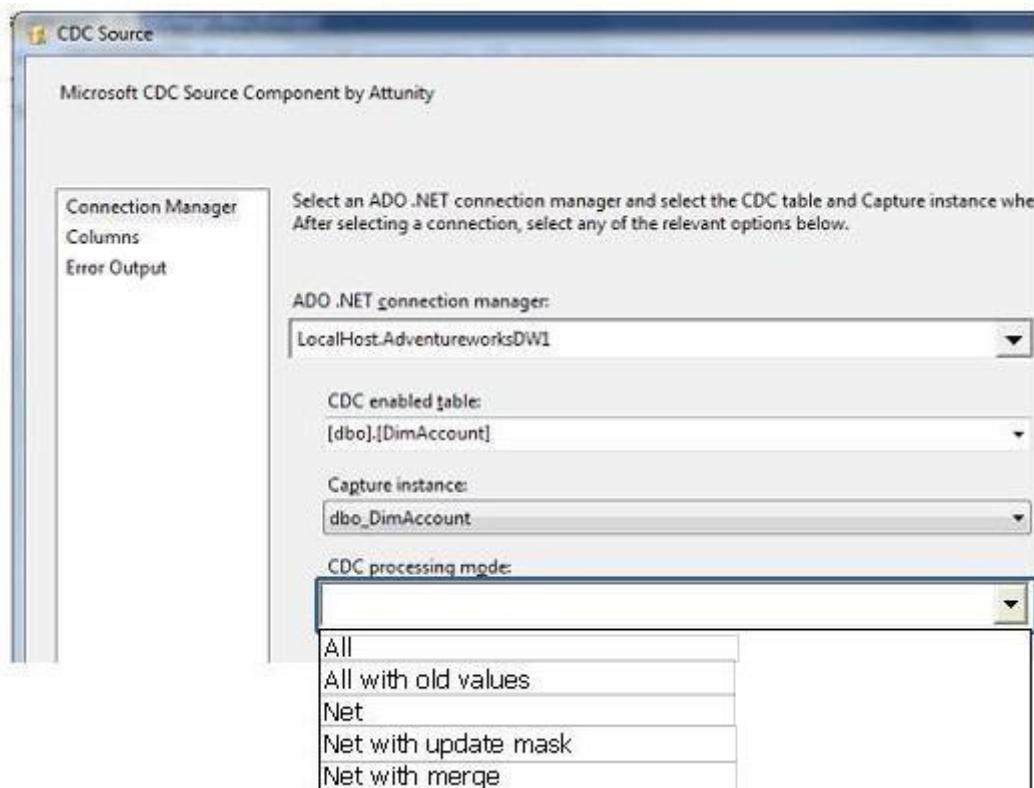
The CDC Source component has the following requirements:

- The output must include metadata columns that indicate which source columns have changed.
- The output must return only one change row per source row that is modified in the current CDC processing range.

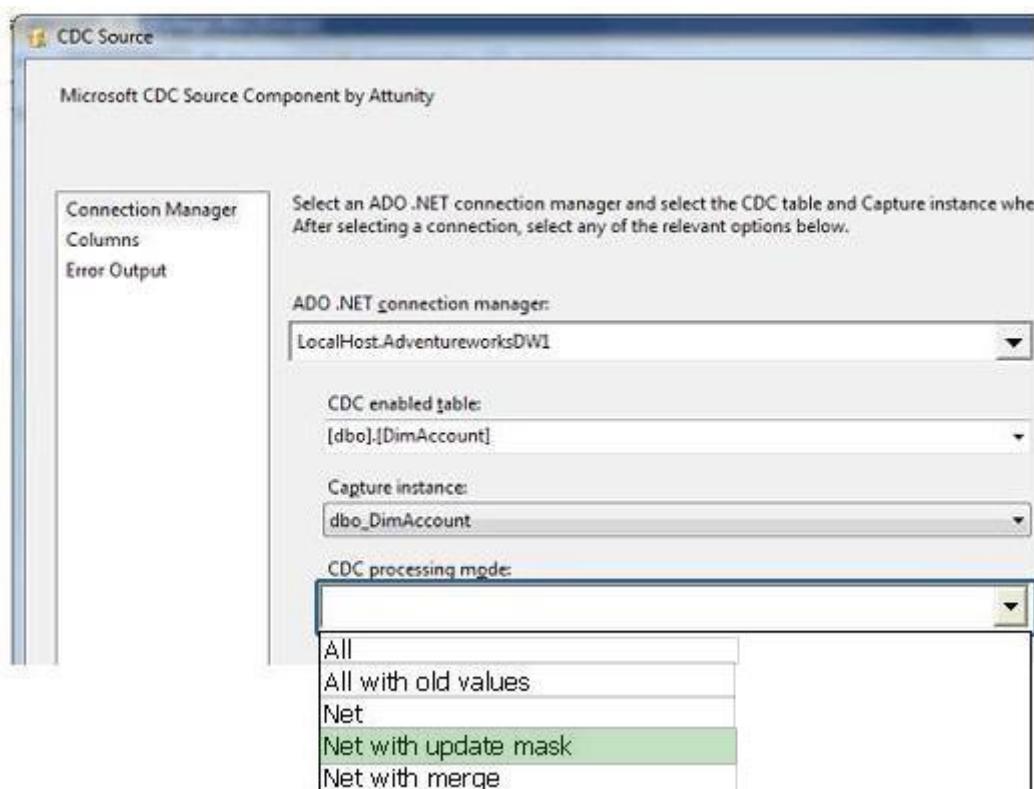
You need to configure the CDC Source component.

Which CDC processing mode should you select? (To answer, configure the appropriate option or options in the dialog box in the answer area.)

**Hot Area:**



**Correct Answer:**



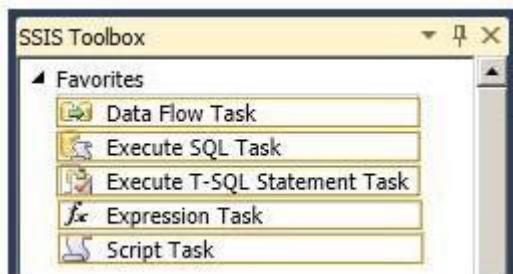
**Section: (none)**  
**Explanation**

**Explanation/Reference:**  
Ref: <http://msdn.microsoft.com/en-gb/library/hh231004.aspx>

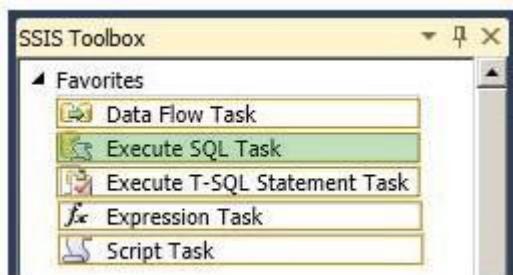
**QUESTION 205**

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.)

**Hot Area:**



**Correct Answer:**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

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 than 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-vsexecutet-sql-statement-task/>

**QUESTION 206**

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

The package contains an ADO object source variable that holds a result set that was returned by a stored procedure execution.

You need to add and configure a container that will execute several tasks for each row in the ADO object source variable.

Which three 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:**

Add and edit a Foreach Loop container.

Open the Data Flow designer of the package.

Set the enumerator property to **Foreach NodeList Enumerator** and select the variable that contains the ADO object source.

Open the Control Flow designer of the package.

Add and edit a Sequence container.

Set the enumerator property to **Foreach ADO Enumerator** and select the variable that contains the ADO object source.

#### Correct Answer:

Open the Data Flow designer of the package.

Add and edit a Sequence container.

Set the enumerator property to **Foreach ADO Enumerator** and select the variable that contains the ADO object source.

Open the Control Flow designer of the package.

Add and edit a Foreach Loop container.

Set the enumerator property to **Foreach NodeList Enumerator** and select the variable that contains the ADO object source.

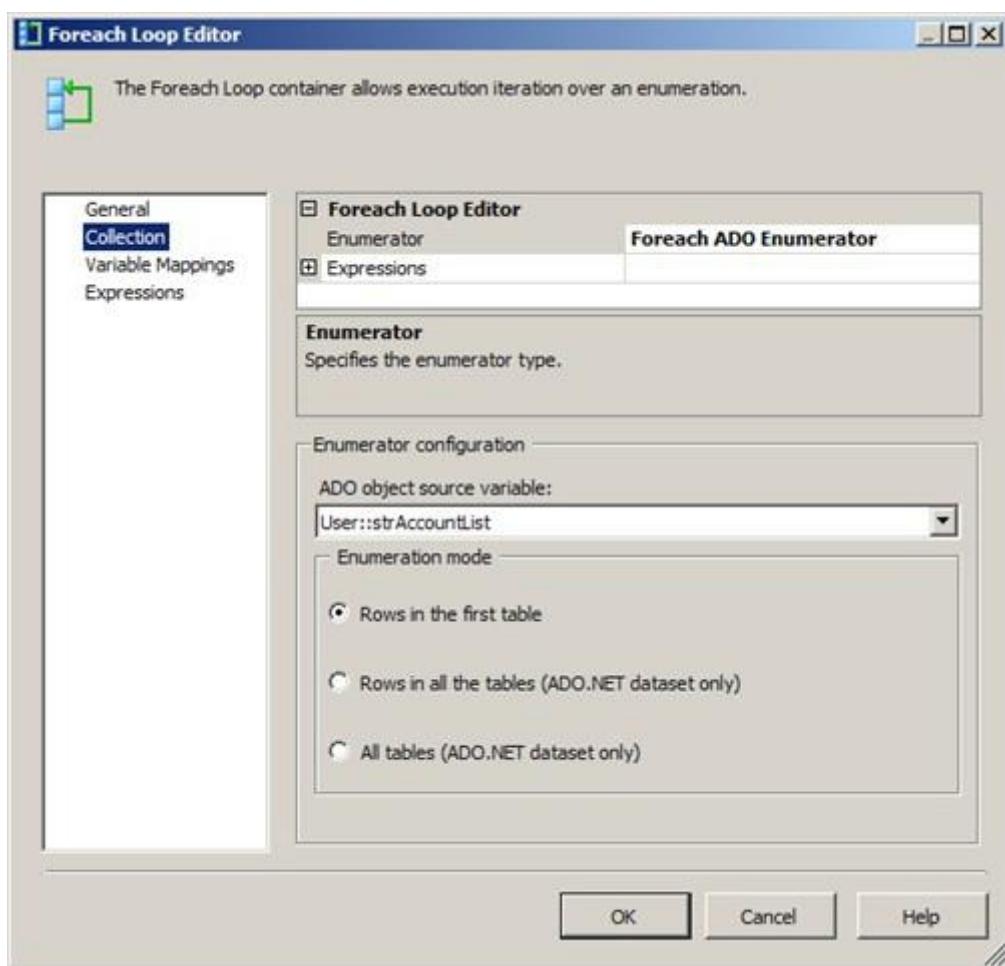
#### Section: (none)

#### Explanation

#### Explanation/Reference:

Note:

Example:



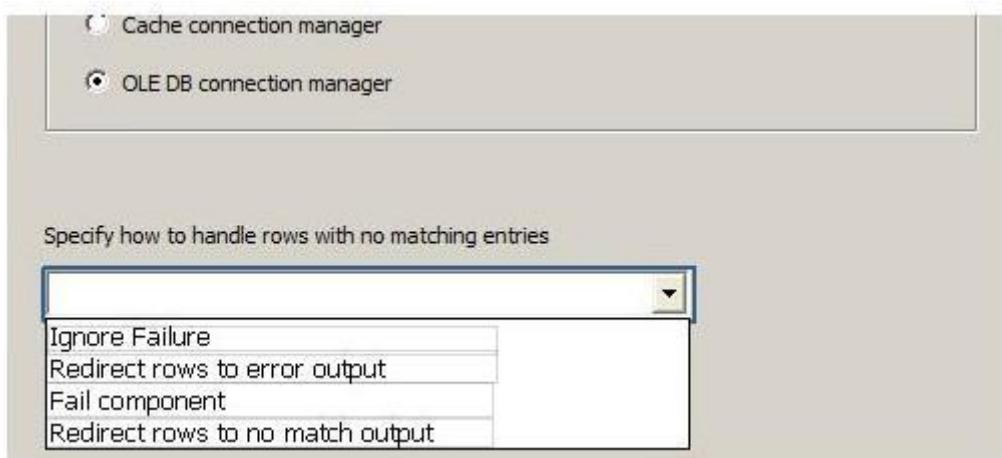
#### QUESTION 207

You are developing a SQL Server Integration Services (SSIS) package to implement an incremental data load strategy. The package reads rows from a source system and compares them to rows in a destination system. New rows will be inserted and changed rows will be updated. You have used a Lookup transformation and a Conditional Split transformation. The Lookup transformation joins the source and destination table on the business key, and includes all columns from the destination table in the data flow output. The Conditional Split transformation inspects the destination columns and directs data flow to either insert new records or update existing records.

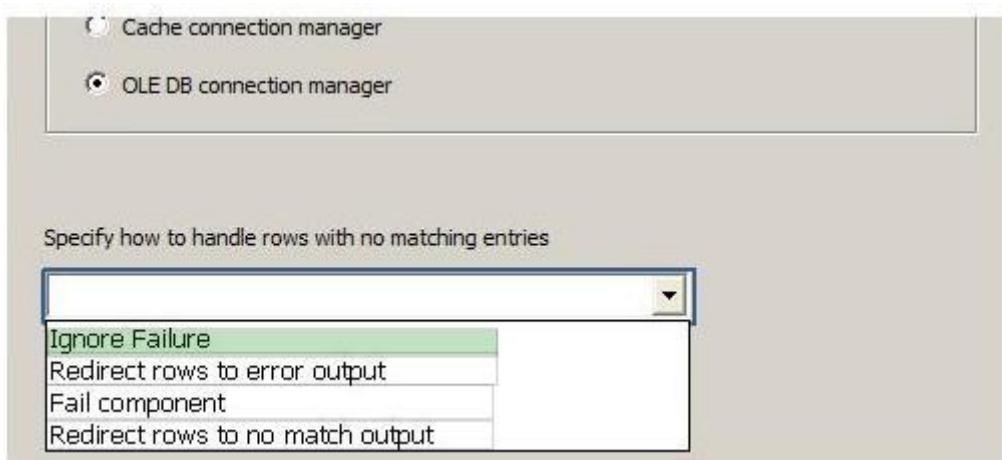
You need to configure the Lookup transformation to ensure that all records flow to the Conditional Split transformation, regardless of whether the rows match an existing row in the destination table.

Which setting should you select? (To answer, select the appropriate option in the answer area.)

#### Hot Area:



**Correct Answer:**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 208

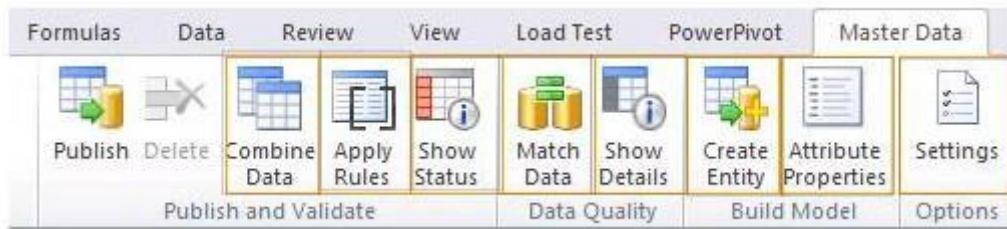
You are using the Master Data Services (MDS) Add-in for Excel to configure the entities in a model. The model consists of two entities: one named Customer and one named State. You open the Customer entity.

Currently, data stewards can enter any text value in the Customer entity's State attribute. You must restrict the entry of values in the State attribute to members defined in the State entity.

You need to configure the State attribute of the Customer entity.

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

**Hot Area:**



**Correct Answer:**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 209

Your company is evaluating the data cleansing capabilities of SQL Server Data Quality Services (DQS).

A stand-alone server will be used to host DQS, as well as all related services necessary to run this service.

You need to install the DQS components on the server by using the minimum amount of steps possible. You also need to grant permissions to a login named DataStewards to enable DataStewards to edit and execute DQS projects.

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:**

Install the Database Engine, Data Quality Client, and Data Quality Server.

Add the **DataStewards** user to the **dqs\_kb\_operator** role.

Run the Data Quality Server Installer.

Add the **DataStewards** user to the **dqs\_kb\_editor** role.

Add a user named **DataStewards** to the DQS\_MAIN database based on the **DataStewards** login.

**Correct Answer:**

Install the Database Engine, Data Quality Data Quality Server.

Run the Data Quality Server Installer.

Add a user named **DataStewards** to the DQS\_MAIN database based on the **DataStewards** login.

Add the **DataStewards** user to the **dqs\_kb\_editor** role.

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Note:

Step 1-2:

\* SQL Server Data Quality Services (DQS) is a new feature in SQL Server 2012 that contains the following two components: Data Quality Server and Data Quality Client.

\* You have to use the SQL Server 2012 Setup to install DQS components. When you run the SQL Server Setup, you have to go through a series of installation wizard pages to select appropriate options based on your requirements.

/ Feature Selection

Data Quality Services under Database Engine Services to install the Data Quality Server.

Data Quality Client to install Data Quality Client.

Step 3-4:

\* The Data Quality Services (DQS) security infrastructure is based upon the SQL Server security infrastructure. A database administrator grants a user a set of permissions by associating the user with a DQS role. Doing so determines the DQS resources that the user has access to and the functional activities that the user is allowed to perform.

\* There are four roles for DQS. One is the database administrator (DBA) who deals primarily

with product installation, database maintenance, and user management. This role primarily uses the SQL Server Management Studio, rather than within the Data Quality Client application. Their server role is sysadmin.

The three other roles are information workers, data stewards who use the product directly by working in the Data Quality Client application. These roles include the following:

/ The DQS Administrator (dqs\_administrator role) can do everything in the scope of the product.

/ The DQS KB Editor (dqs\_kb\_editor role) can perform all of the DQS activities, except for administration.

/ The DQS KB Operator (dqs\_kb\_operator role) can edit and execute a project. They cannot perform any kind of knowledge management; they cannot create or change a knowledge base.

They can see the activity monitoring data, but cannot terminate an activity or perform administrative duties.

Ref: [http://msdn.microsoft.com/en-gb/library/gg492277\(v=sql.110\).aspx](http://msdn.microsoft.com/en-gb/library/gg492277(v=sql.110).aspx)

### QUESTION 210

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

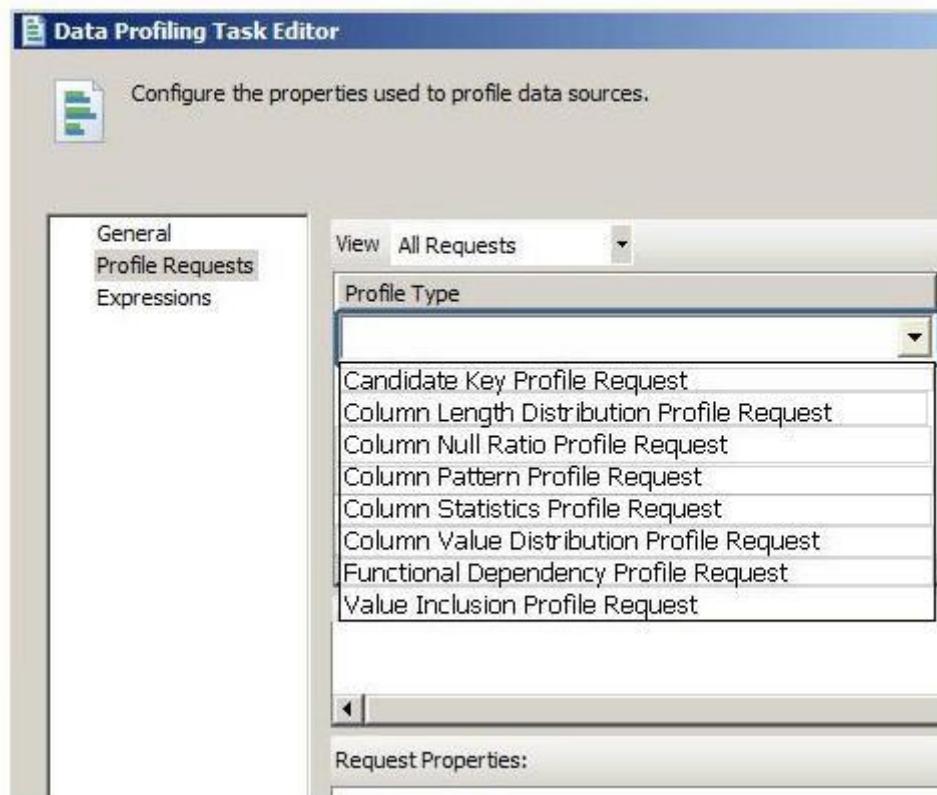
You use a Data Profiling task to examine the data from a source system. You need to establish:

- The minimum and maximum dates for the datetime columns in the source data
- The minimum, maximum, and average values for numeric columns in the source data

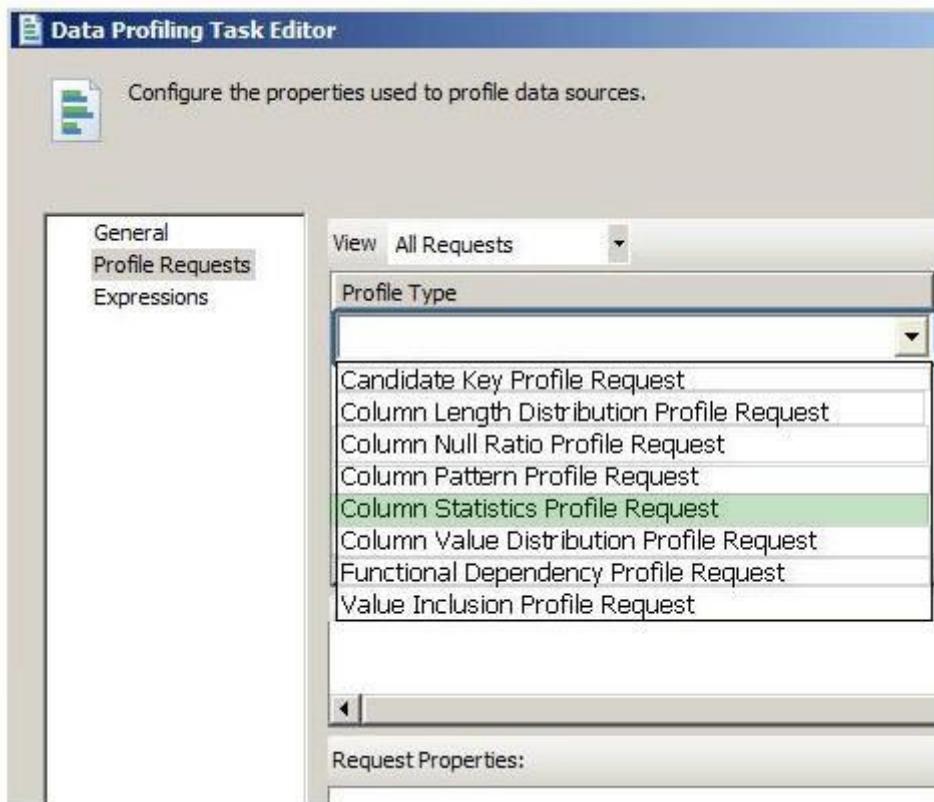
You need to use the appropriate profile type in the Data Profiling task.

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

#### Hot Area:



#### Correct Answer:



**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 211**

You are developing a SQL Server Integration Services (SSIS) package. The data source for the data flow task is a table that has been configured as a change data capture (CDC) table. You are using a CDC Source component to obtain the CDC data.

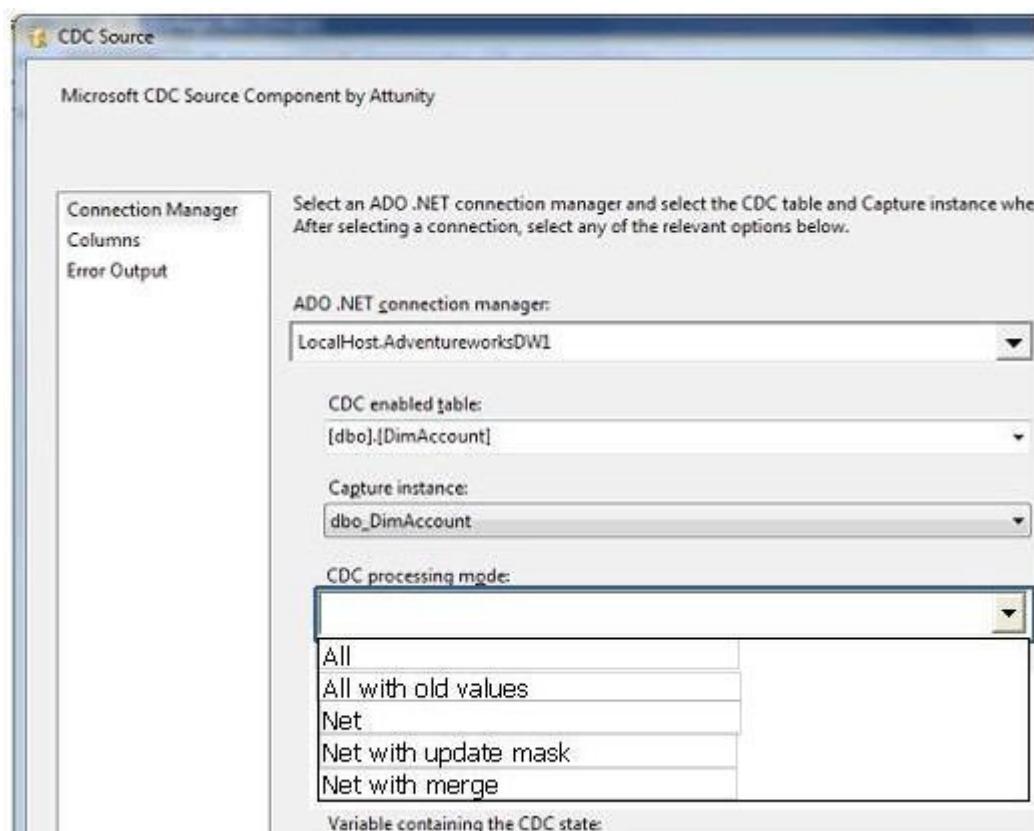
The data source will be polled once per hour. The data is updated with multiple important status changes per minute.

For each captured data change, the before and after values must be included.

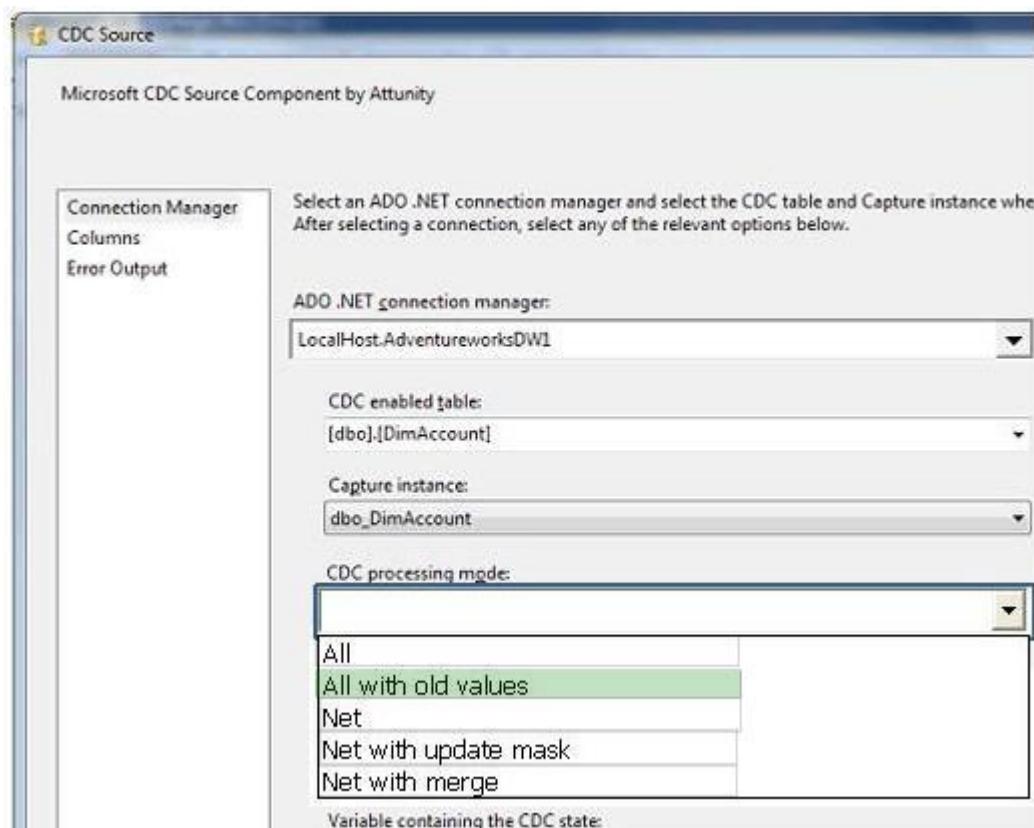
You need to configure the CDC Source component.

Which CDC processing mode should you select? (To answer, configure the appropriate option in the dialog box in the answer area.)

**Hot Area:**



**Correct Answer:**



**Section: (none)**

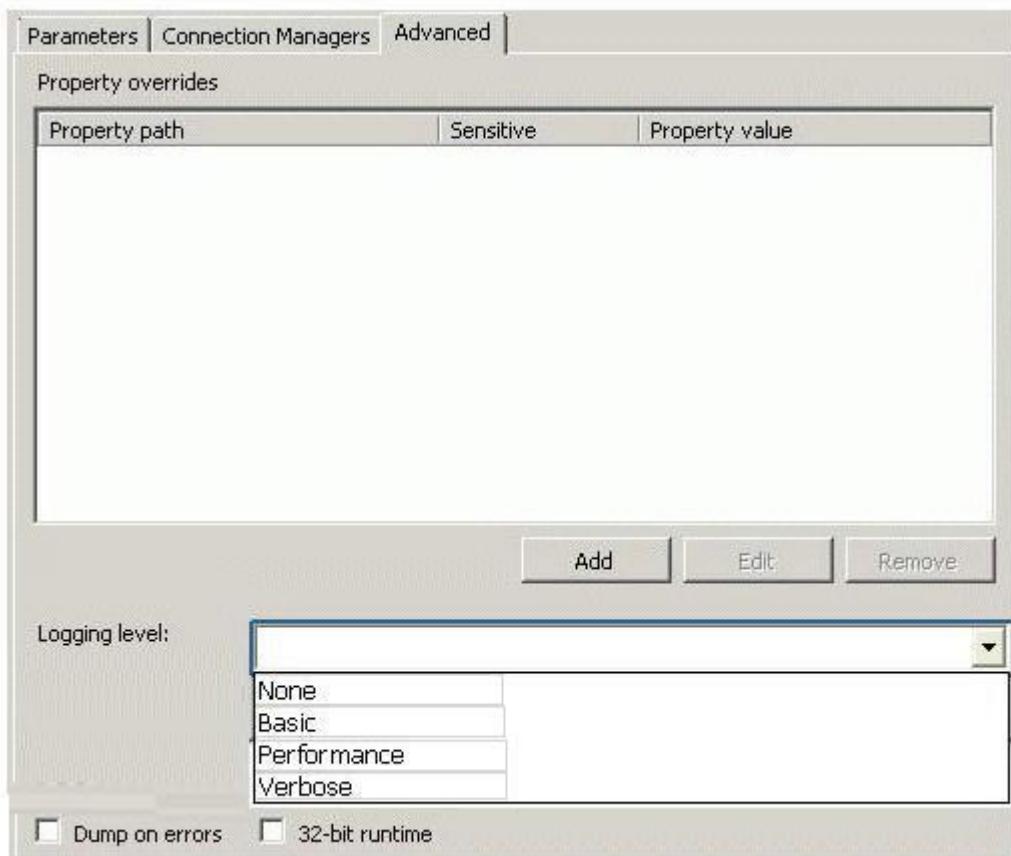
**Explanation**

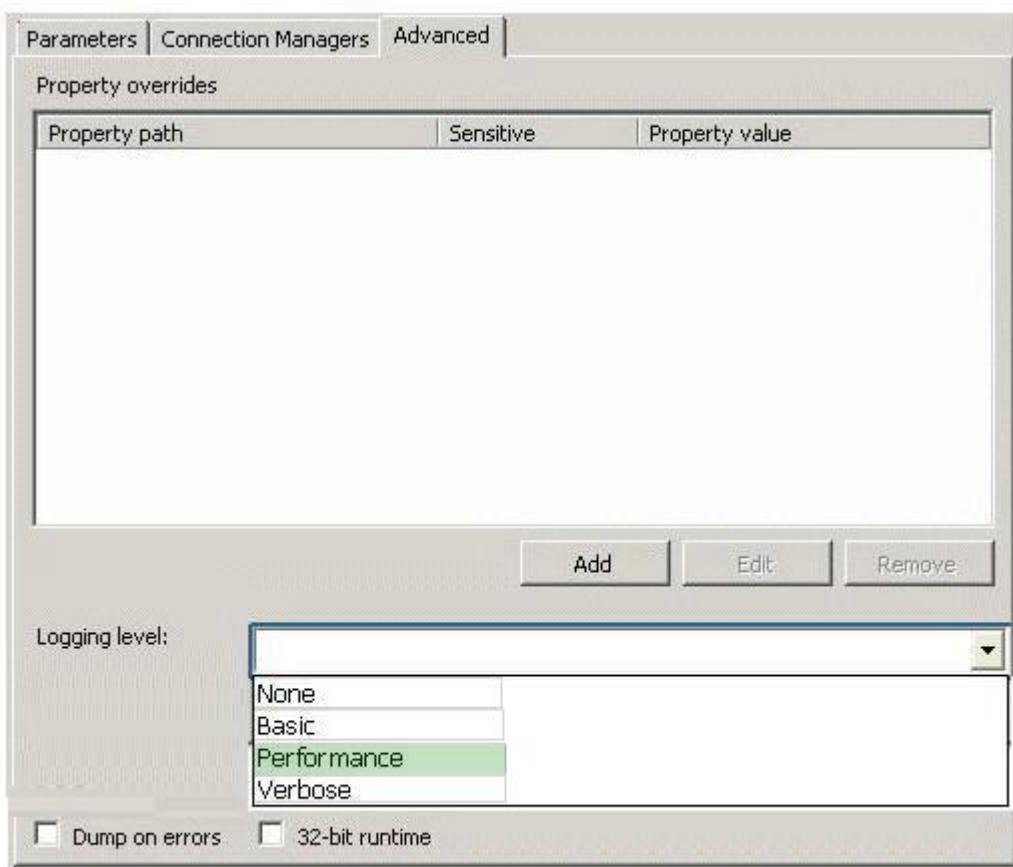
**Explanation/Reference:**

Ref: <http://msdn.microsoft.com/en-gb/library/hh231004.aspx>

**QUESTION 212**

You are developing a SQL Server Integration Services (SSIS) package. OnError and OnWarning events must be logged for viewing in the built-in SSIS reports by using SQL Server Management Studio. You need to execute the package and minimize the number of event types that are logged. Which setting should you use? (To answer, change the appropriate setting in the answer area.)

**Hot Area:****Correct Answer:**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

Ref: <http://msdn.microsoft.com/en-gb/library/hh231191.aspx>

**QUESTION 213**

You are a data warehouse developer responsible for developing data cleansing processes.

Duplicate employees exist in an employee dimension.

You need to map, discover, and manage domain values based on the employee dimension.

Which Data Quality Services (DQS) option should you use? (To answer, select the appropriate option in the answer area.)

**Hot Area:**



**Correct Answer:**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 214**

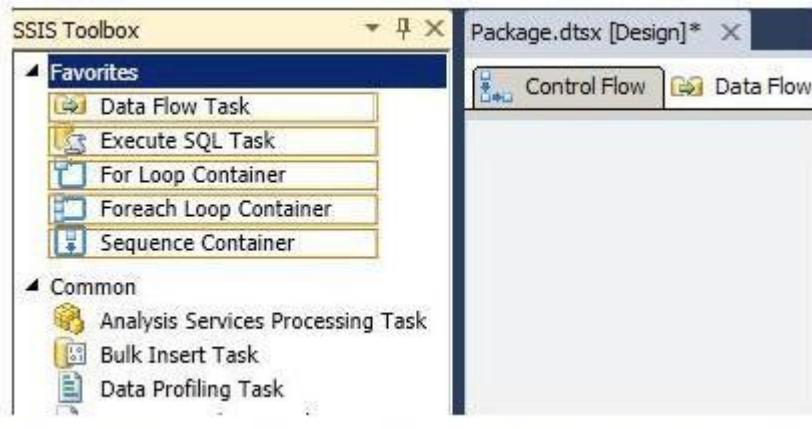
You are developing a SQL Server Integration Services (SSIS) package. The package contains a user-defined variable named @Queue which has an initial value of 10.

The package control flow contains many tasks that must repeat execution until the @Queue variable equals 0.

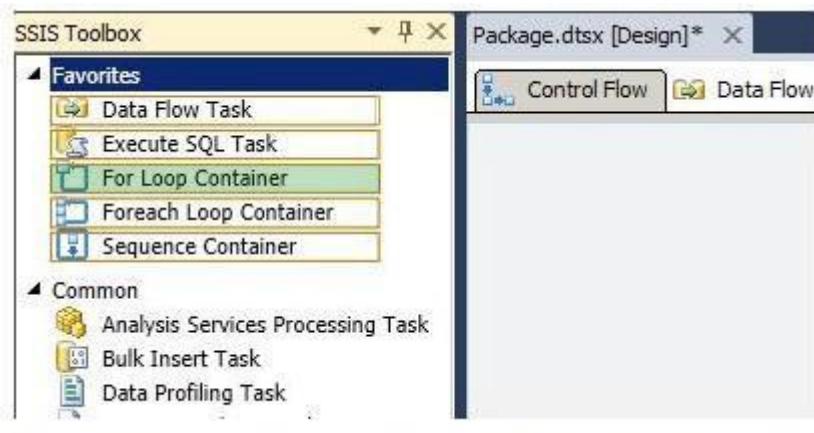
You need to enable the tasks to be grouped together for repeat execution.

Which item should you add to the package? (To answer, select the appropriate item in the answer area.)

**Hot Area:**



**Correct Answer:**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

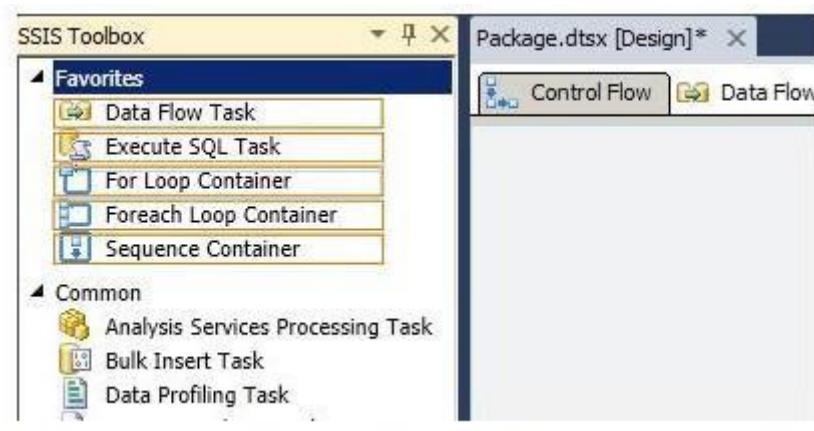
**QUESTION 215**

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

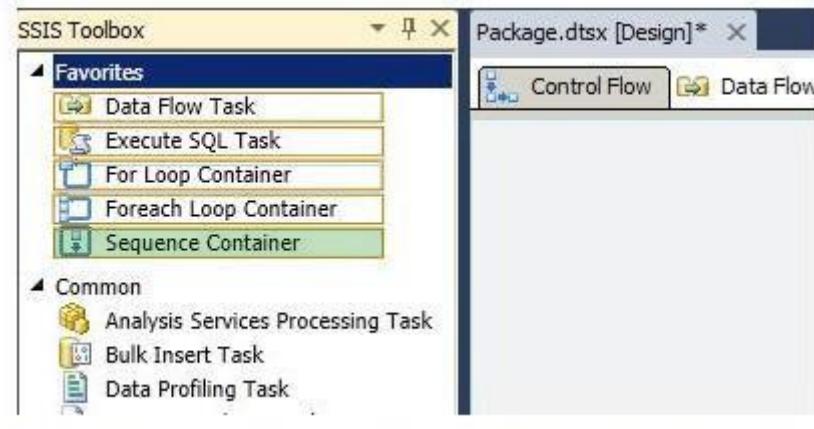
The package control flow will contain many tasks. The tasks will execute consecutively and none will execute more than once. Certain groups of tasks will share variable and transaction scope.

You need to group tasks together while enabling them to be collapsed and expanded as a group. Which item should you use from the SSIS Toolbox? (To answer, select the appropriate item in the answer area.)

**Hot Area:**



**Correct Answer:**



**Section: (none)****Explanation****Explanation/Reference:****QUESTION 216**

You are developing a SQL Server Integration Services (SSIS) package to load data into a SQL Server 2012 database.

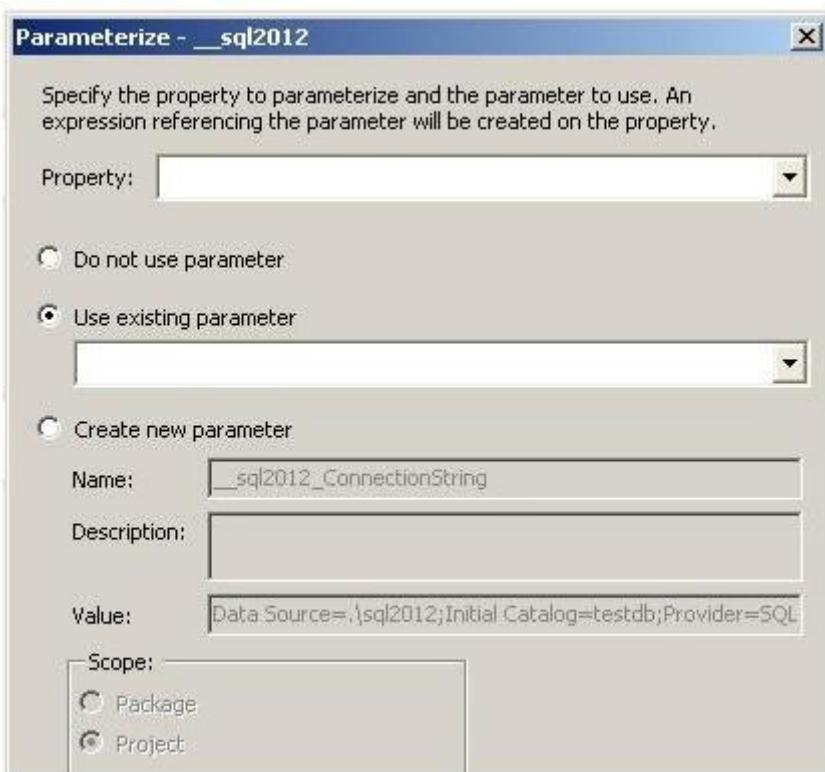
The name of the target instance is passed to the package via an Environment variable.

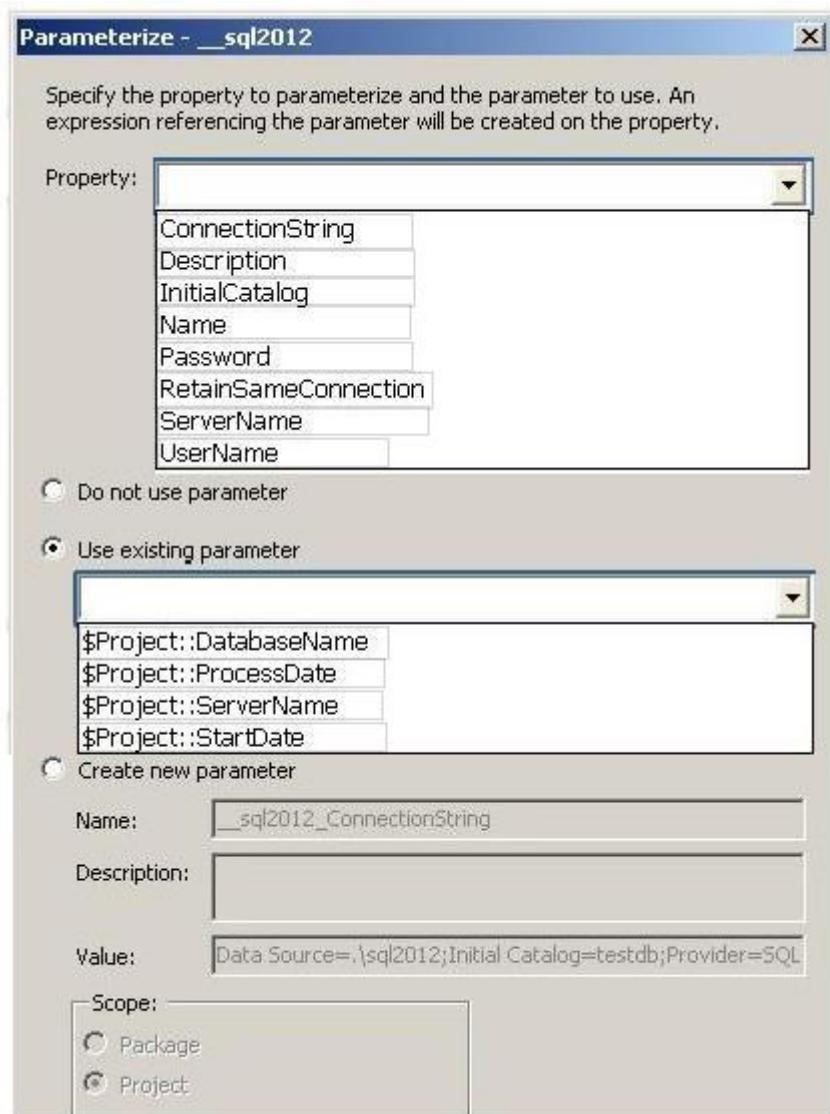
The Environment variable provides the server name to the Project parameter named ServerName.

The OLE DB Project Connection Manager has been parameterized.

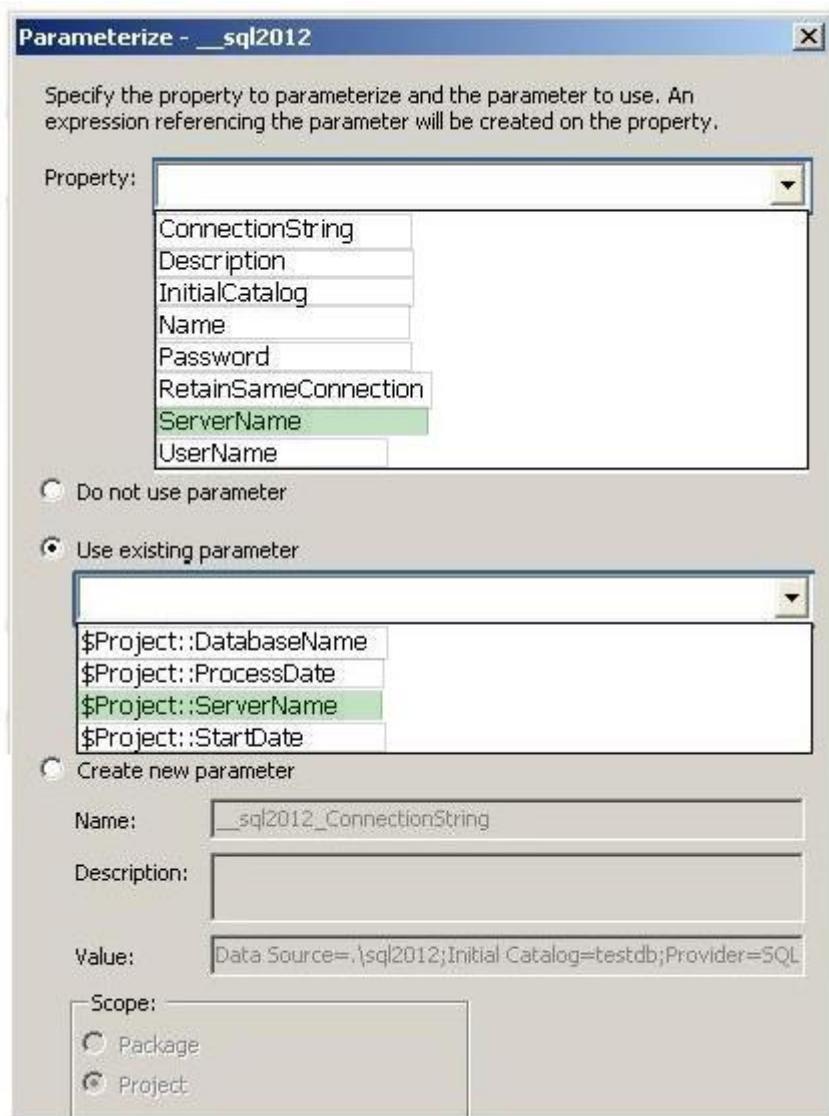
You need to configure the Connection Manager property to accept the parameter.

Which property and parameter should you use? (To answer, configure the appropriate option or options in the dialog box in the answer area.)

**Hot Area:**



**Correct Answer:**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 217**

You administer a large and complex SQL Server Integration Services (SSIS) solution in the SSIS catalog.

You are instructed to execute a package by using PowerShell. You need to create the correct PowerShell command.

How should you place the four code segments in sequence? (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:**

```

.Folders["SSIS70463"]
.Projects["Production"]
.Packages["Package.dtsx"].Execute("false",
$ProductionEnvironment)
$SSIS2012.Catalogs["SSISDB"]
)
)
)

```

**Correct Answer:**

```

$SSIS2012.Catalogs["SSISDB"]
.Folders["SSIS70463"]
.Projects["Production"]
.Packages["Package.dtsx"].Execute("false",
$ProductionEnvironment)
)
)
)

```

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Note:

Example:

```
ProjectInfo testProject = issERVER.Catalogs["SSISDB"].Folders["TEST"].Projects["Integration Services Project2"];
```

```
PackageInfo testPackage = testProject.Packages["Package.dtsx"];
```

Full example:

```

class Program
{
    static void Main(string[] args)
    {
        SqlConnection conn = new SqlConnection("Data Source=localhost;Initial Catalog=SSISDB;Integrated Security=SSPI;");
        IntegrationServices issERVER = new IntegrationServices(conn);
        ProjectInfo testProject =
issERVER.Catalogs["SSISDB"].Folders["TEST"].Projects["Integration Services Project2"];
        PackageInfo testPackage = testProject.Packages["Package.dtsx"];
        testProject.Parameters["ProjectTestParam1"].Set(ParameterInfo.ParameterValueType.ReferenceId, "661");
        testPackage.Parameters["PackageTestParam1"].Set(ParameterInfo.ParameterValueType.Referenced, "662");
        testPackage.Execute(false, null);
    }
}

```

**QUESTION 218**

You are the Master Data Services (MDS) administrator at your company.

An existing user needs to integrate data from other systems into MDS.

You need to give the user permissions to integrate data.

Which user management menu item should you select? (To answer, configure the appropriate option or options in the dialog box in the answer area.)

**Hot Area:**

The screenshot shows the 'Manage Users' section of the SQL Server 2012 Master Data Services interface. A user named 'username-BMA\username' is selected. A context menu is open, with 'Edit' and 'Delete' options at the top. A dropdown menu below shows 'General', 'Membership', 'Functions', 'Models', and 'Hierarchy members'. The 'Functions' option is highlighted with a green background.

**Correct Answer:**

This screenshot is identical to the one above, showing the 'Edit' context menu for the same user. The 'Functions' option is highlighted with a green background.

**Section: (none)**  
**Explanation**

**Explanation/Reference:**

#### **QUESTION 219**

You are developing a SQL Server Integration Services (SSIS) package to load data into a SQL Server 2012 database.

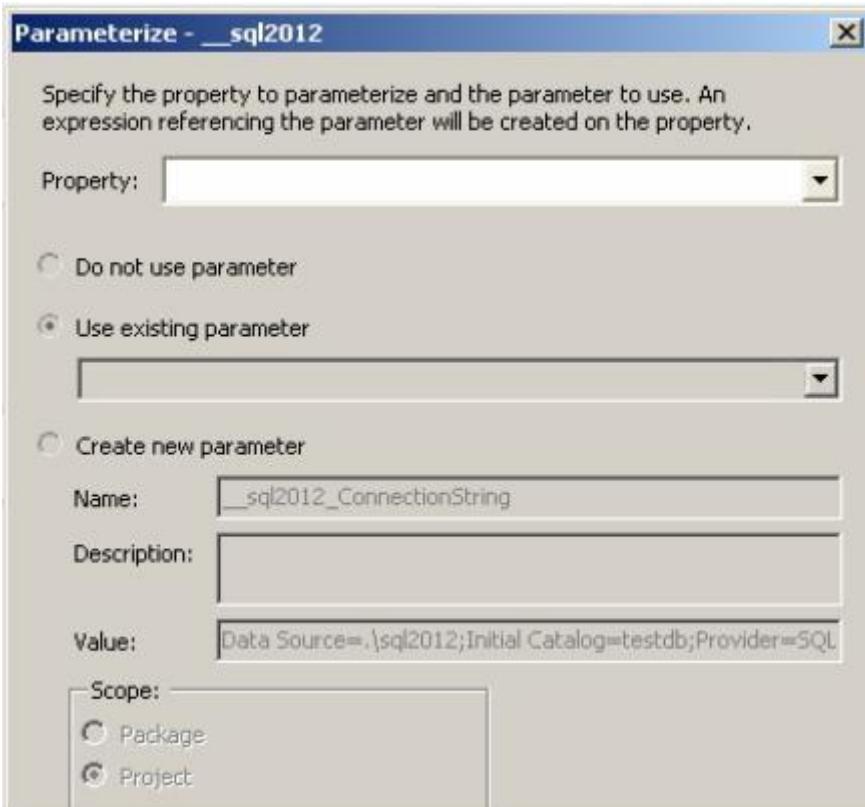
The package is allowed to connect to only one database. An Environment variable contains the name of the database.

The OLE DB project connection manager has been parameterized.

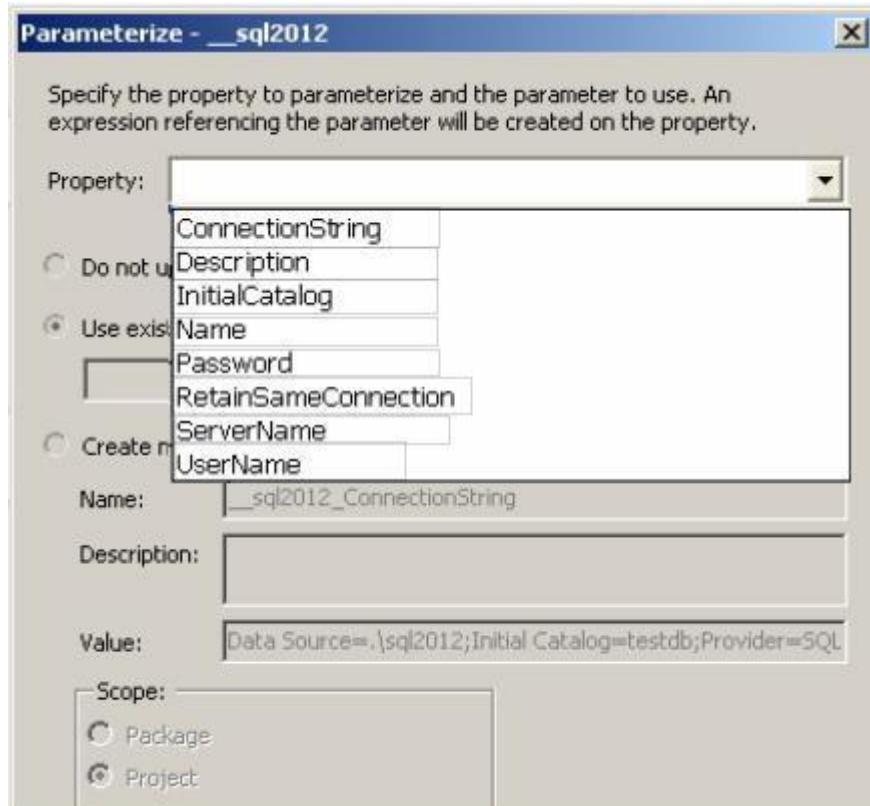
You need to configure the connection manager property to accept the value of the Environment variable.

Which property should you use? (To answer, configure the appropriate option or options in the

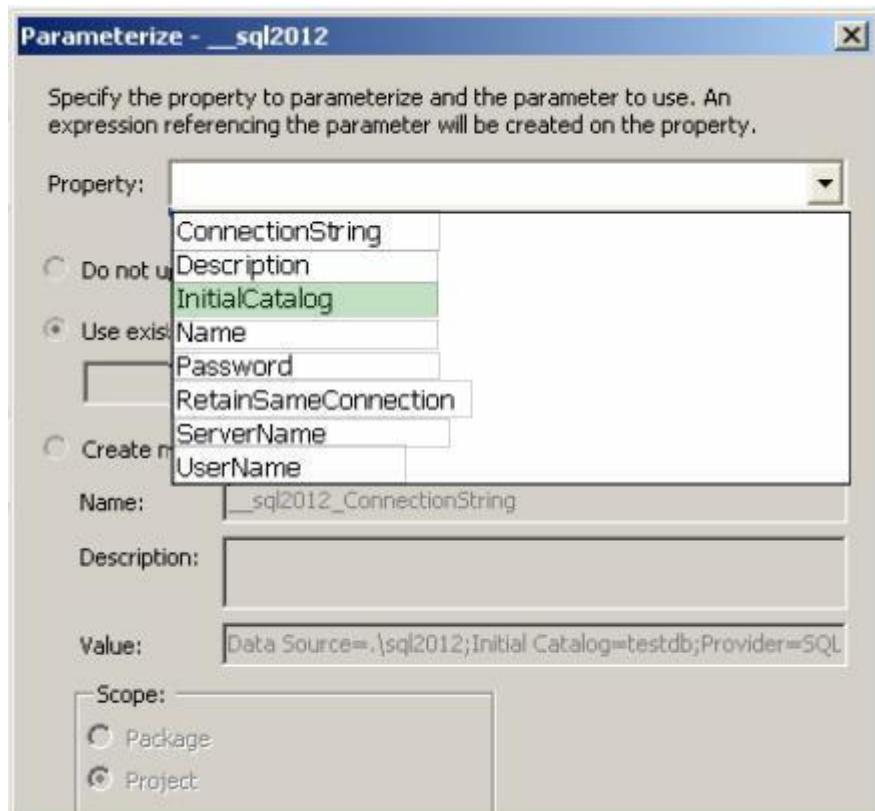
dialog box in the answer area.)



**Hot Area:**



**Correct Answer:**



**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 220**

You are building a fact table in a data warehouse.

The table must have a columnstore index. The table cannot be partitioned.

You need to design the fact table and load it with data.

Which three 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:**

Load the data.

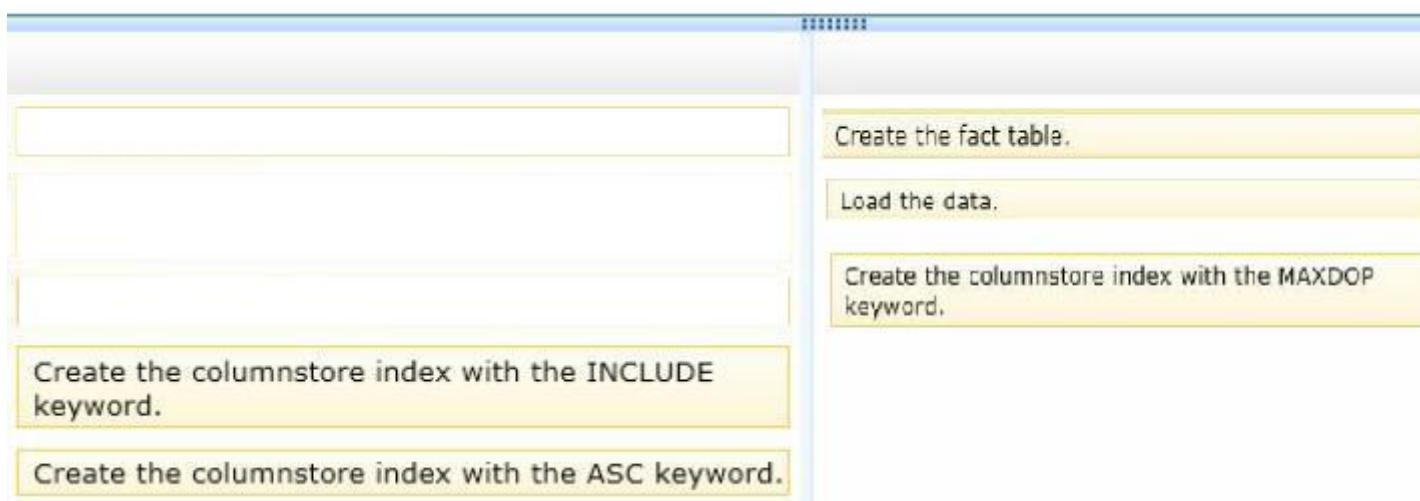
Create the columnstore index with the MAXDOP keyword.

Create the fact table.

Create the columnstore index with the INCLUDE keyword.

Create the columnstore index with the ASC keyword.

**Correct Answer:**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

Only nonclustered columnstore indexes are available in SQL Server 2012 so when the index is created, you cannot update the table (without using partition switching). Therefore you have to load the data BEFORE creating the index.

In SQL Server 2014, you could create a clustered columnstore index which would allow updates to the table after the index is created.