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Implementing a Data Warehouse with Microsoft SQL Server 2012

Microsoft 70-463

Version Demo

Total Demo Questions: 15

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Topic Break Down

Topic	No. of Questions
Topic 1, Volume A	65
Topic 2, Volume B	57
Topic 3, Volume C	120
Total	242

QUESTION NO: 1

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

You create a script task in the package.

You need to dynamically set the file name of a connection object named File1 by using the script task.

Which line of code should you add to the script task?

- A. `Me.Dts.Connections("File1").Properties.Item("FileName").SetValue = "C:/temp/temp.txt"`
- B. `Me.Dts.Connections("File1").AcquireConnection("C:/temp/temp.txt")`
- C. `Me.Dts.Connections("File1").ConnectionString = "C:/temp/temp.txt"`
- D. `Me.Dts.Connections("File1").Variables.Item["FileName"].value = "C:/temp/temp.txt"`

ANSWER: D

Explanation:

References: <https://social.msdn.microsoft.com/Forums/sqlserver/en-US/faeb29c7-6879-4d51-b94e-09404de02339/how-to-pass-the-existing-filename-into-a-variable-in-ssisscript-task?forum=sqlintegrationservices>

QUESTION NO: 2 - (HOTSPOT)

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

Parameterize - __sql2012 [X]

Specify the property to parameterize and the parameter to use. An expression referencing the parameter will be created on the property.

Property:

ConnectionString
Description
InitialCatalog
Name
Password
RetainSameConnection
ServerName
UserName

Do not use parameter

Use existing parameter

\$Project::DatabaseName
\$Project::ProcessDate
\$Project::ServerName
\$Project::StartDate

Create new parameter

Name:

Description:

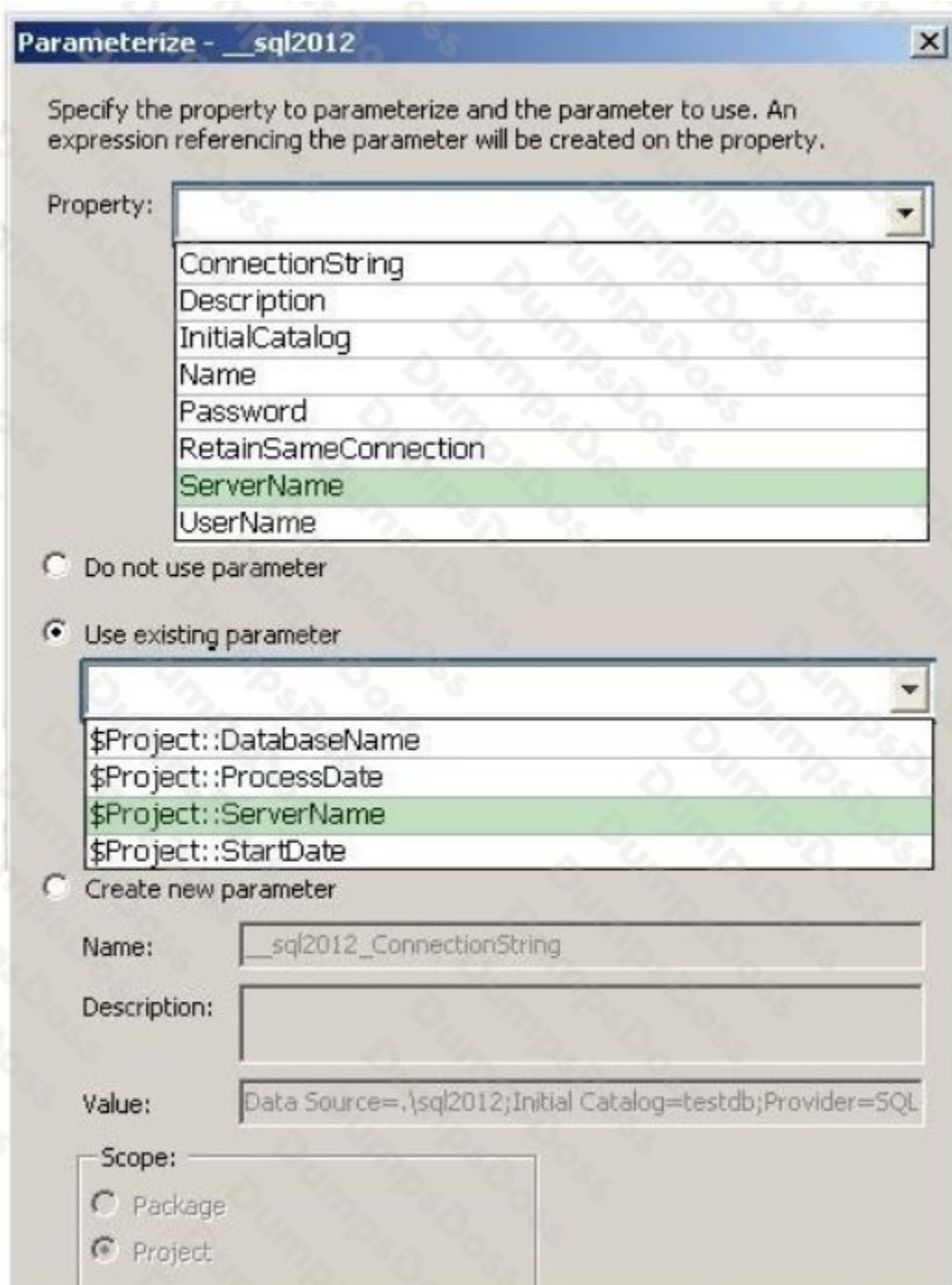
Value:

Scope:

Package

Project

ANSWER:



Explanation:

QUESTION NO: 3

You have a secured database that contains all of the customer data for your company.

You plan to use a project deployment model.

You need to create a SQL Server Integration Services (SSIS) package that connects to the data base by using a dedicated username and password. The solution must ensure that the password used for the connection string is encrypted.

Which two actions should you perform? Each correct answer presents part of the solution.

- A. Modify the set_execution_parameter_value stored procedure.
- B. Set the package protection level to EncryptSensitiveWithPassword.
- C. Select the Sensitive check box for the catalog environment.
- D. Set the sensitive property of the package parameter to True.
- E. Set the package protection level to EncryptSensitiveWithUserKey.

ANSWER: B D

QUESTION NO: 4

You are implementing a SQL Server Integration Services (SSIS) package that imports Microsoft Excel workbook data into a Microsoft Azure SQL Database database. The package has been deployed to a 64-bit production SQL Server.

The package fails when executed on the production server.

You need to ensure that the package can load the 32-bit Excel workbook data without errors.

What should you do?

- A. Replace the SSIS Excel source with a SQL Server source.
- B. Enable Address Windowing Extensions (AWE) for the local SQL Server instance.
- C. Install a 32-bit instance of SSIS side-by-side with the 64-bit version.
- D. Execute the package by using the 32-bit run-time option.

ANSWER: D

Explanation:

If the computer has a 32-bit version of Office, then you have to install the 32-bit version of the components, and you also have to ensure that you run the package in 32-bit mode.

References: <https://docs.microsoft.com/en-us/sql/integration-services/connection-manager/connect-to-an-excel-workbook>

QUESTION NO: 5

Reporting from a Star schema is simpler than reporting from a normalized online transactional processing (OLTP) schema.

What are the reasons for wanting simpler reporting? (Choose all that apply.)

- A. A Star schema typically has fewer tables than a normalized schema. Therefore, queries are simpler because they require fewer joins.
- B. A Star schema has better support for numeric data types than a normalized relational schema; therefore, it is easier to create aggregates.
- C. There are specific Transact-SQL expressions that deal with Star schemas.
- D. A Star schema is standardized and narrative; you can find the information you need for a report quickly.

ANSWER: A D

Explanation:

References: <http://www.vertabelo.com/blog/technical-articles/data-warehouse-modeling-star-schema-vs-snowflake-schema>

QUESTION NO: 6

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. Set the EngineThreads property of the data flow task to 10.
- B. Set the MaxConcurrentExecutables property of the package to 10.
- C. Create 10 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 10 times.

ANSWER: A

QUESTION NO: 7

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.

ANSWER: A

Explanation:

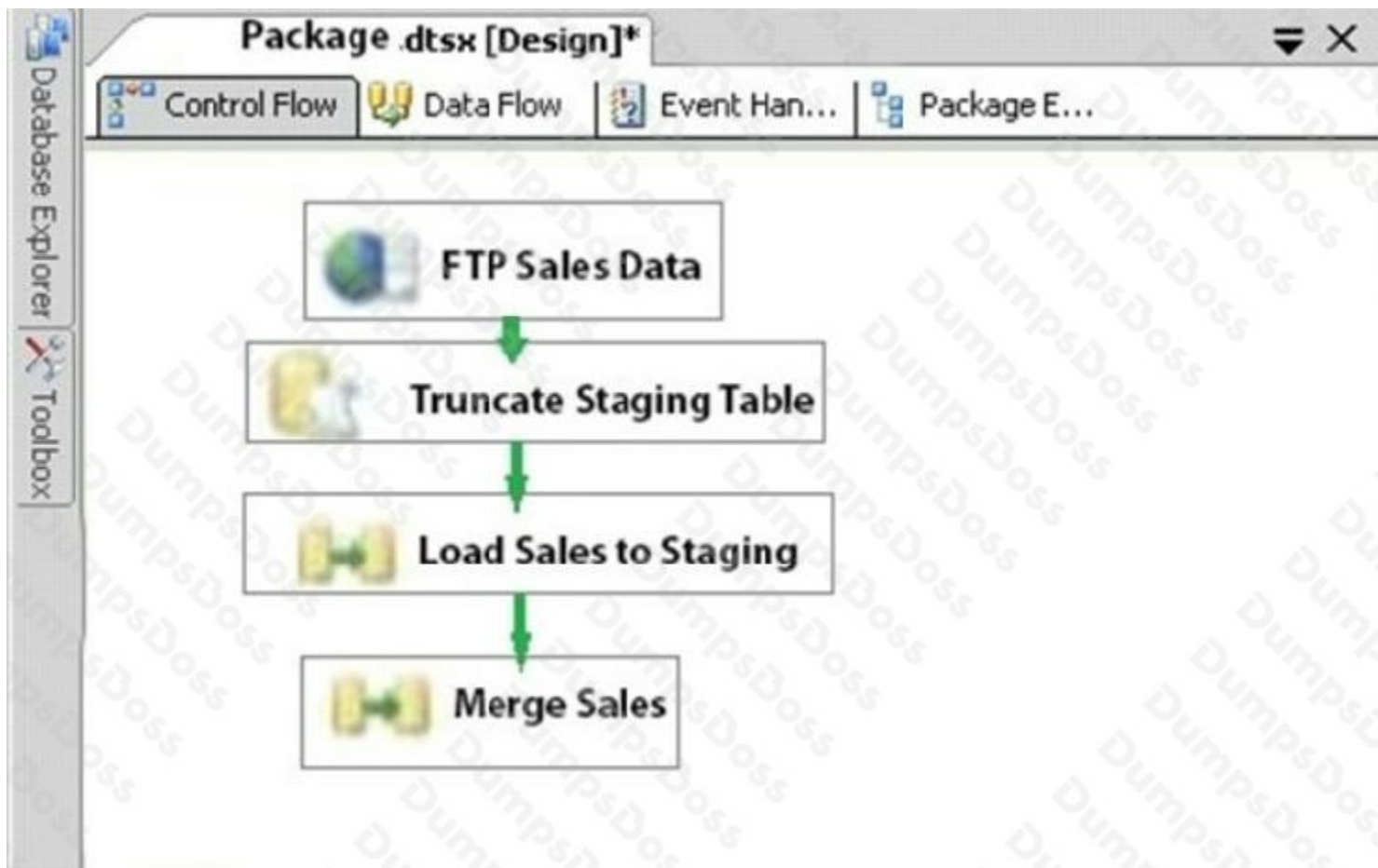
References: <http://www.rafael-salas.com/2012/01/ssis-2012-quick-peek-to-data-taps.html> <http://msdn.microsoft.com/en-us/library/hh230989.aspx> <http://msdn.microsoft.com/en-us/library/jj655339.aspx>

QUESTION NO: 8 - (DRAG DROP)

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

The package performs the following steps:

- Download a sales transaction file by using FTP.
- Truncate a staging table.
- Load the contents of the file to the staging table.
- 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:

Actions

Answer Area

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 **Fail-ParentOnFailure** properties to **True**.

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

Open the Data Flow page.

Open the SSIS Toolbox.

ANSWER:

Actions

- 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 **ForceExecutionResult** property of the **Truncate Staging Table** task to **Completion**.
- Open the Data Flow page.
-

Answer Area

- Open the SSIS Toolbox.
- Move the **Truncate Staging Table** and **Load Sales to Staging** tasks to a new Sequence container and set their **Fail-ParentOnFailure** properties to **True**.
- Set the **FailPackageOnFailure** property of the container to **True**.

Explanation:

QUESTION NO: 9

If you want to switch content from a nonpartitioned table to a partition of a partitioned table, what conditions must the nonpartitioned table meet? (Choose all that apply.)

- A. It must have the same constraints as the partitioned table.
- B. It must have the same compression as the partitioned table.
- C. It must be in a special PartitionedTables schema.
- D. It must have a check constraint on the partitioning column that guarantees that all of the data goes to exactly one partition of the partitioned table.

E. It must have the same indexes as the partitioned table.

ANSWER: A B D E

Explanation:

References: [https://technet.microsoft.com/en-us/library/ms191160\(v=sql.105\).aspx](https://technet.microsoft.com/en-us/library/ms191160(v=sql.105).aspx)

QUESTION NO: 10 - (DRAG DROP)

DRAG DROP

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:

Actions

Answer Area

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.

ANSWER:

Actions

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.

Answer Area

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.

Explanation:

References: <http://msdn.microsoft.com/en-us/library/hh230981.aspx> <http://msdn.microsoft.com/en-us/library/ff878089.aspx>

QUESTION NO: 11

You need to extract data from a table in a SQL Server database.

What connection manager types can you use? (Choose all that apply.)

- A. An ODBC connection manager
- B. An OLE DB connection manager
- C. A File connection manager

D. An ADO.NET connection manager

ANSWER: A B D

Explanation:

References:

[https://technet.microsoft.com/en-us/library/ms141013\(v=sql.110\).aspx](https://technet.microsoft.com/en-us/library/ms141013(v=sql.110).aspx)

<https://docs.microsoft.com/en-us/sql/integration-services/data-flow/extract-data-by-using-the-odbc-source>

[https://msdn.microsoft.com/en-us/library/ms254937\(v=vs.100\).aspx](https://msdn.microsoft.com/en-us/library/ms254937(v=vs.100).aspx)

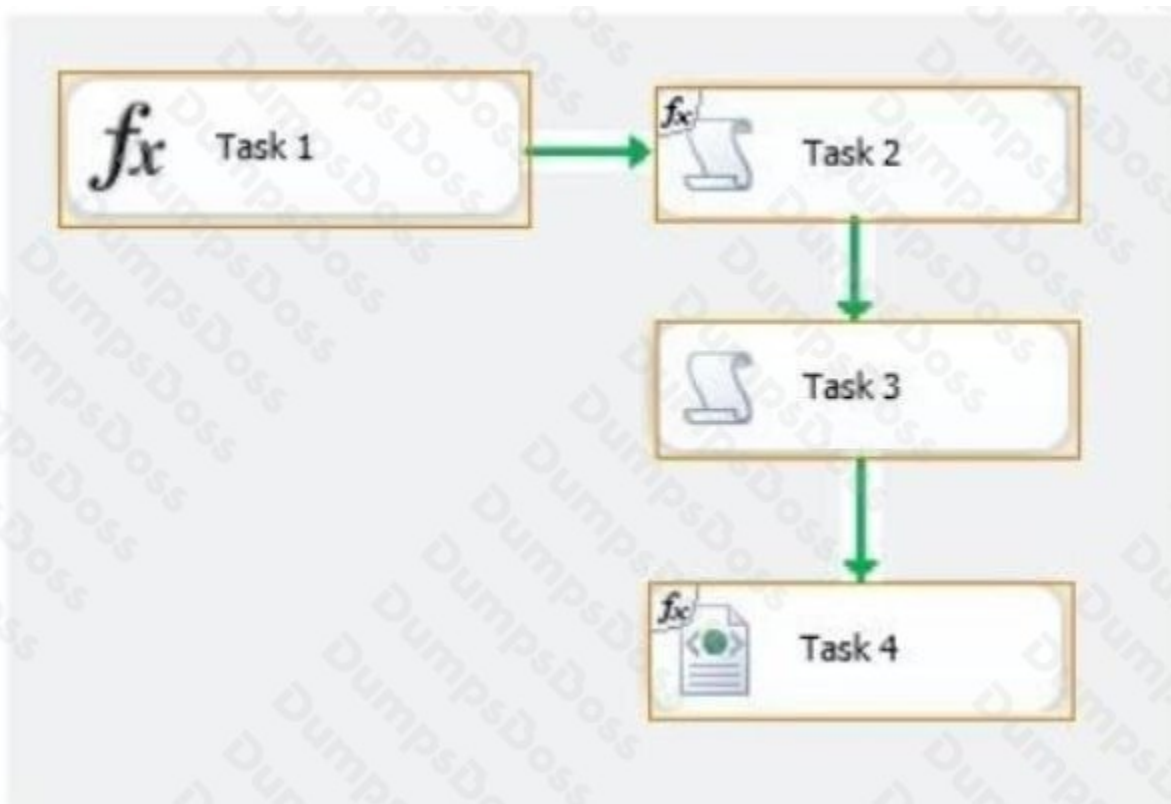
QUESTION NO: 12 - (HOTSPOT)

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

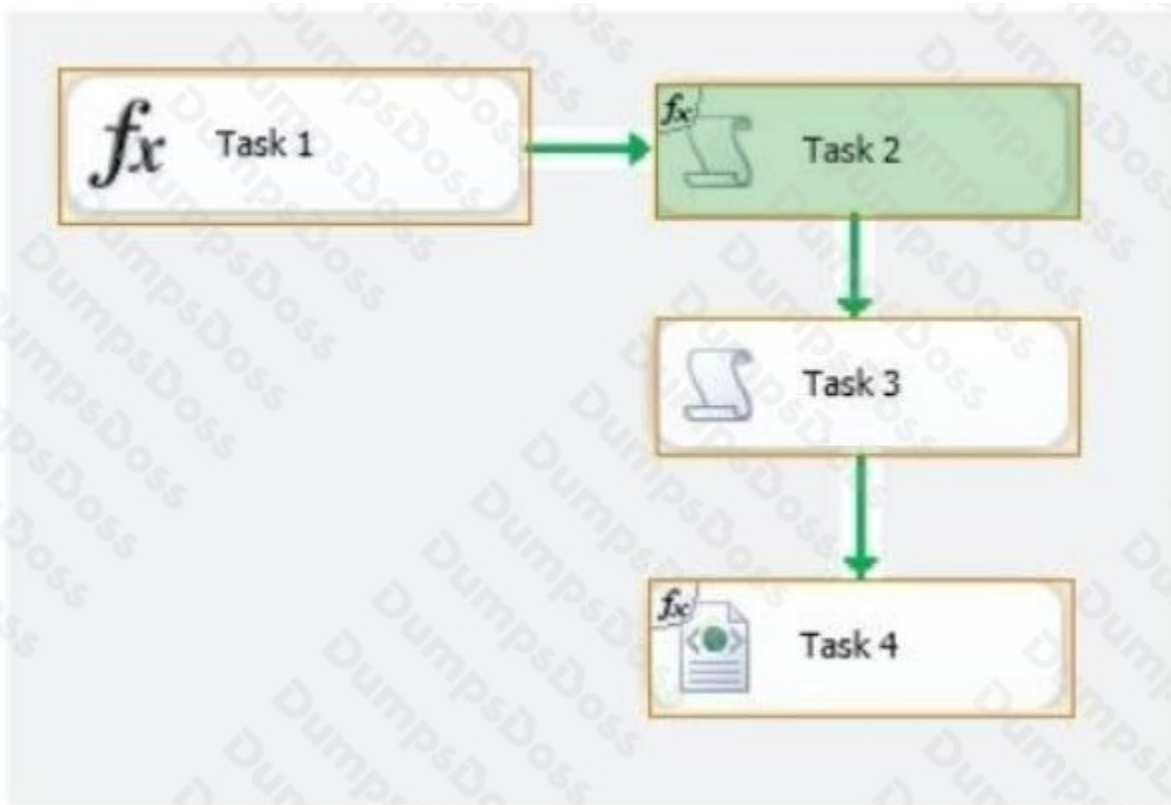
You need to edit the Script task that has an expression defined.

Which task should you select? To answer, select the appropriate setting or settings in the answer area.

Hot Area:



ANSWER:



Explanation:

QUESTION NO: 13

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.

ANSWER: C

QUESTION NO: 14

You are designing a data warehouse that uses SQL Server.

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
- E.** semantic search
- F.** XML

ANSWER: C

QUESTION NO: 15

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.** dtexec

- B. catalog.start_package
- C. SQL Server Agent
- D. SQL Server Management Studio

ANSWER: A C

Explanation:

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