



70-458^{Q&As}

Transition Your MCTS on SQL Server 2008 to MCSA: SQL Server 2012, Part 2

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**QUESTION 1**

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

You grant User1 access to execute the stored procedure.

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

- A. Grant the db_datareader role on the database to User1.
- B. Modify the stored procedure to include the EXECUTE AS OWNER statement. Grant VIEW SERVER STATE permissions to the owner of the stored procedure.
- C. Create a SQL Server login that has VIEW SERVER STATE permissions. Modify the stored procedure to include the EXECUTE AS {newlogin} statement.
- D. Move the stored procedure to the User1 schema.
- E. Grant the VIEW SERVER STATE permission to User1.

Correct Answer: BC

QUESTION 2

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. 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: I

QUESTION 3

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.

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 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: C

QUESTION 4

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

- A. Execute the catalog.create_execution_dump stored procedure with the package execution_id.
- B. Run the DTEXEC utility with the /Reporting V option.
- C. Run the DTEXEC utility with the /Logger option.
- D. Execute the catalog.add_data_tap stored procedure with the package execution_id.

Correct Answer: A

QUESTION 5

You are a database administrator for a Microsoft SQL Server 2012 environment.

You want to deploy a new application that will scale out the workload to at least five different SQL Server instances.

Which feature should you use?

- A. Database Mirroring
- B. Peer-to-Peer Replication
- C. Log Shipping
- D. Availability Groups

Correct Answer: B

QUESTION 6

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.

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

Correct Answer: C

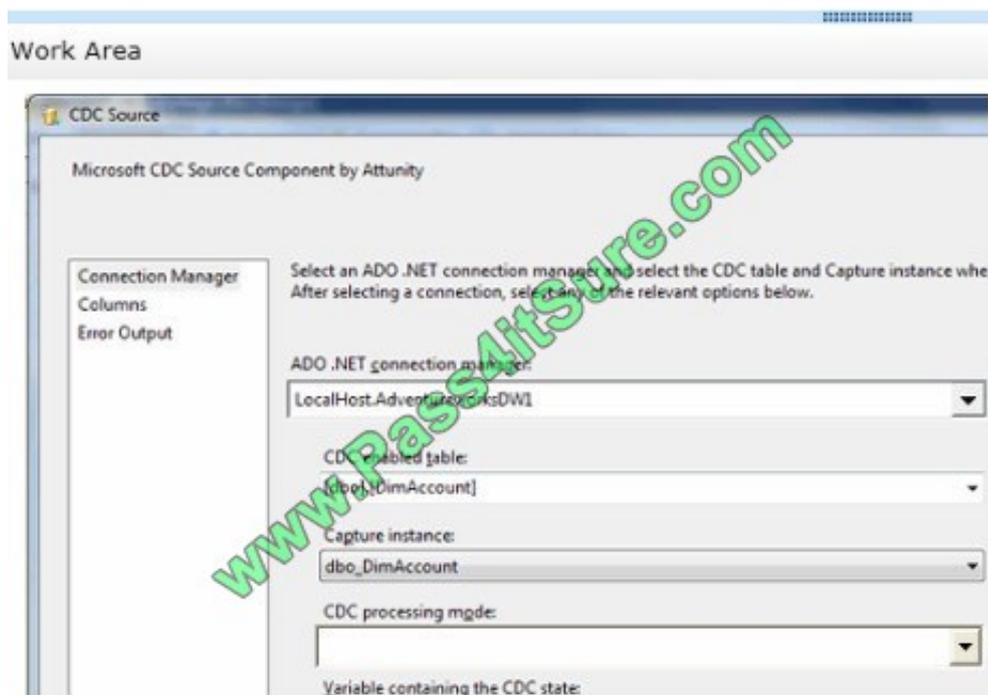
QUESTION 7

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.

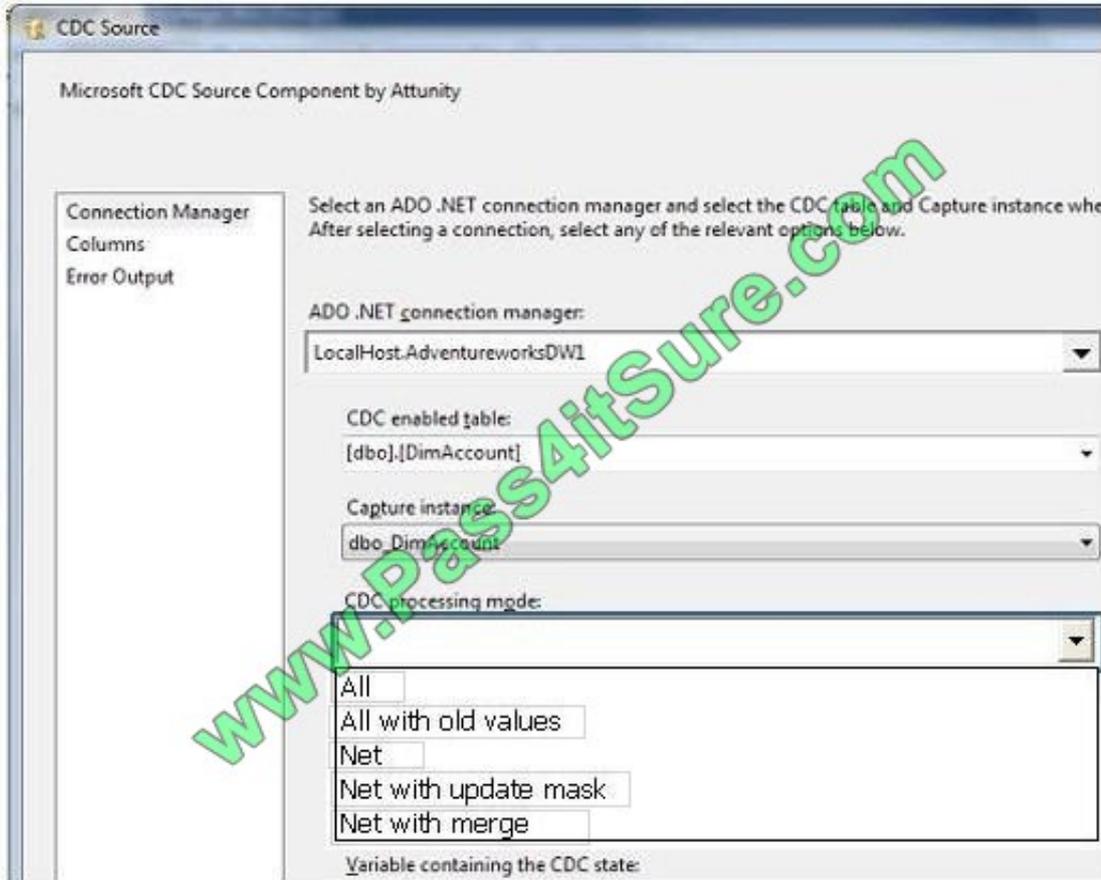
The data source will be polled once per hour. The data is updated with multiple important status changes per minute.

For each captured data change, the before and after values must be included. You need to configure the CDC Source component.

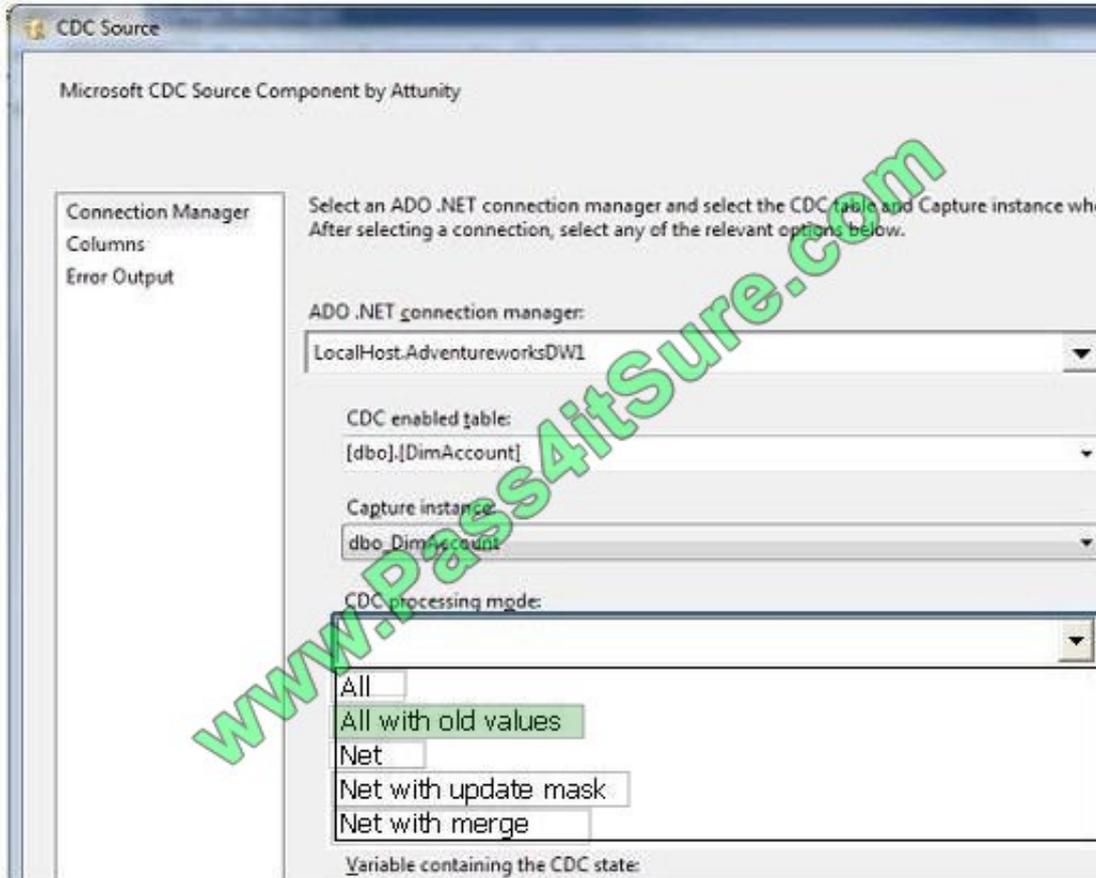
Which CDC processing mode should you select? (To answer, configure the appropriate option in the dialog box in the answer area.)



Hot Area:



Correct Answer:



QUESTION 8

You administer a Microsoft SQL Server database named Sales. The database is 3 terabytes in size. The Sales database is configured as shown in the following

Filegroup	File
PRIMARY	• Sales.mdf
XACTIONS	• Sales_1.ndf • Sales_2.ndf • Sales_3.ndf
ARCHIVES	• SalesArch_1.ndf • SalesArch_2.n

You discover that all files except Sales_2.ndf are corrupt.

You need to recover the corrupted data in the minimum amount of time.

What should you do?

- A. Perform a file restore.



- B. Perform a restore from a full backup.
- C. Perform a transaction log restore.
- D. Perform a filegroup restore.

Correct Answer: D

Restoring just the failed filegroup would save time since the database is large.

QUESTION 9

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.

- A. Merge Join
- B. DQS Cleansing
- C. Pivot
- D. CDC Splitter

Correct Answer: D

QUESTION 10

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.

- A. Change the similarity threshold to 0.40.
- B. Decrease the maximum number of matches per lookup.
- C. Change the similarity threshold to 0.55.



D. Change the Exhaustive property to True.

Correct Answer: C

The similarity thresholds can be set at the component and join levels. The join-level similarity threshold is only available when the transformation performs a fuzzy match between columns in the input and the reference table. The similarity range is 0 to 1. The closer to 1 the threshold is, the more similar the rows and columns must be to qualify as duplicates.

QUESTION 11

You are a database administrator for a Microsoft SQL Server 2012 database named AdventureWorks2012.

```
01 CREATE AVAILABILITY GROUP Group1
02 FOR DATABASE AdventureWorks2012
03 REPLICA ON 'SecondaryServer'
04 WITH (
05     ENDPOINT_URL = 'TCP://SecondaryServer:5022',
06     ...
07 );
```



You need to implement an AlwaysOnAvailability Group that will meet the following conditions:

Production transactions should be minimally affected.

The secondary server should allow reporting queries to be performed. If the primary server goes offline, the secondary server should not automatically take over.

Which Transact-SQL statement should you insert at line 06?



- A. `AVAILABILITY_MODE = ASYNCHRONOUS_COMMIT,
FAILOVER_MODE = MANUAL,
SECONDARY_ROLE (
ALLOW_CONNECTIONS = YES,
READ_ONLY_ROUTING_URL = 'TCP://SecondaryServer:1433')`
- B. `AVAILABILITY_MODE = ASYNCHRONOUS_COMMIT,
FAILOVER_MODE = MANUAL,
SECONDARY_ROLE (
ALLOW_CONNECTIONS = READ_ONLY,
READ_ONLY_ROUTING_URL = 'TCP://SecondaryServer:1433'),
PRIMARY_ROLE (
ALLOW_CONNECTIONS = MANUAL_ONLY,
READ_ONLY_ROUTING_LIST = NONE)`
- C. `AVAILABILITY_MODE = SYNCHRONOUS_COMMIT,
FAILOVER_MODE = MANUAL,
SECONDARY_ROLE (
ALLOW_CONNECTIONS = READ_ONLY,
READ_ONLY_ROUTING_URL = 'TCP://SecondaryServer:1433'),
PRIMARY_ROLE (
ALLOW_CONNECTIONS = READ_WRITE,
READ_ONLY_ROUTING_LIST = NONE)`
- D. `AVAILABILITY_MODE = ASYNCHRONOUS_COMMIT,
FAILOVER_MODE = MANUAL,
SECONDARY_ROLE (
ALLOW_CONNECTIONS = READ_ONLY,
READ_ONLY_ROUTING_URL = 'TCP://SecondaryServer:1433')`



A. B. C. D.

Correct Answer: A

QUESTION 12

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.

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

Correct Answer: D

QUESTION 13



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.

- 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.*tart_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

QUESTION 14

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

The package contains an ActiveX Data Objects (ADO) 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:

Set the enumerator property to **Foreach ADO Enumerator** and select the variable that contains the ADO object source.

Add and edit a For Loop container.

Open the Package Explorer tab.

Set the enumerator property to **Foreach SMO Enumerator** and select the variable that contains the ADO object source.

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.

Add and edit a Foreach Loop container.

Set the enumerator property to **Foreach ADO Enumerator** and select the variable that contains the ADO object source.

Box 1: Open the Control Flow designer of the package.

Box 2: Add and edit a Foreach Loop container.

Box 3: Set the enumerator property to Foreach ADO Enumerator and select the variable that contains the ADO object source.

QUESTION 15

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

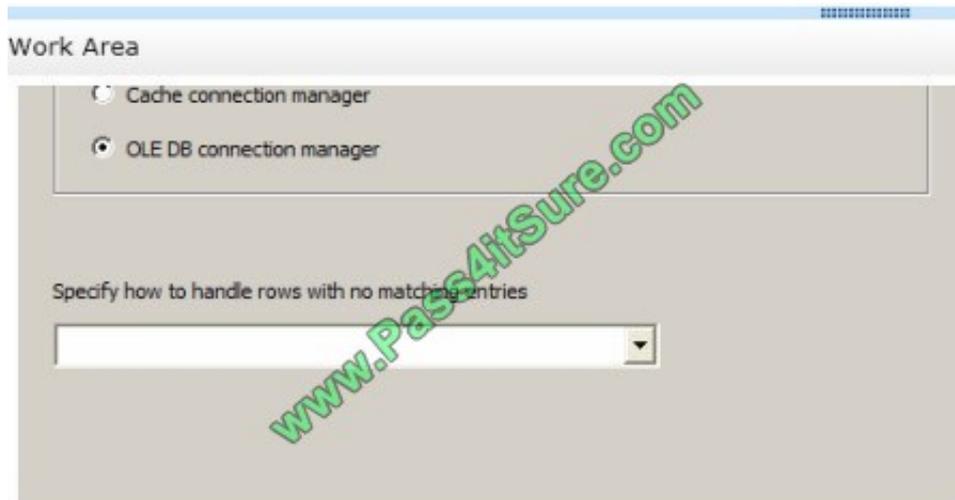
inserted and changed rows will be updated.



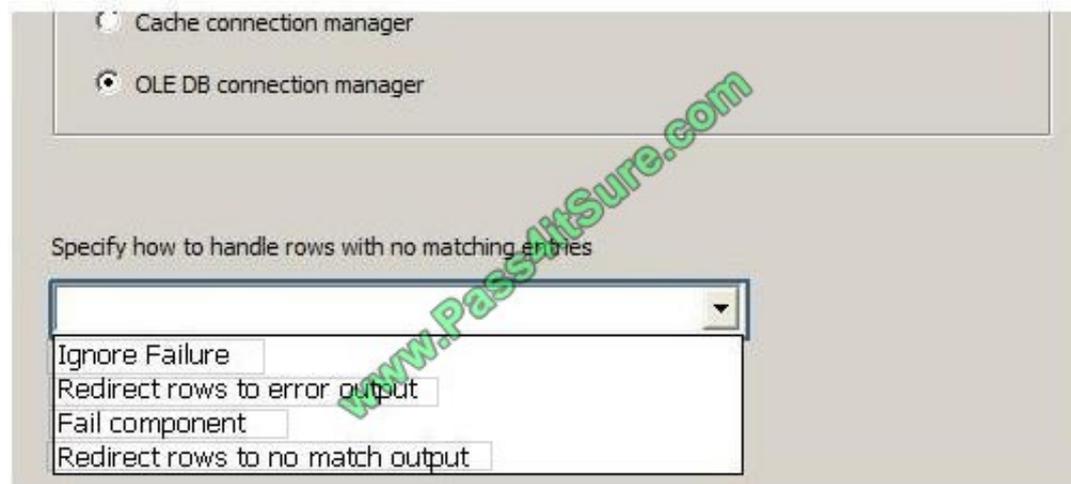
You have used a Lookup transformation and a Conditional Split transformation. The Lookup transformation joins the source and destination table on the business key, and includes all columns from the destination table in the data flow output.

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:



Cache connection manager

OLE DB connection manager

Specify how to handle rows with no matching entries

- Ignore Failure
- Redirect rows to error output
- Fail component
- Redirect rows to no match output

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