



70-767^{Q&As}

Implementing a Data Warehouse using SQL

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QUESTION 1

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

QUESTION 2

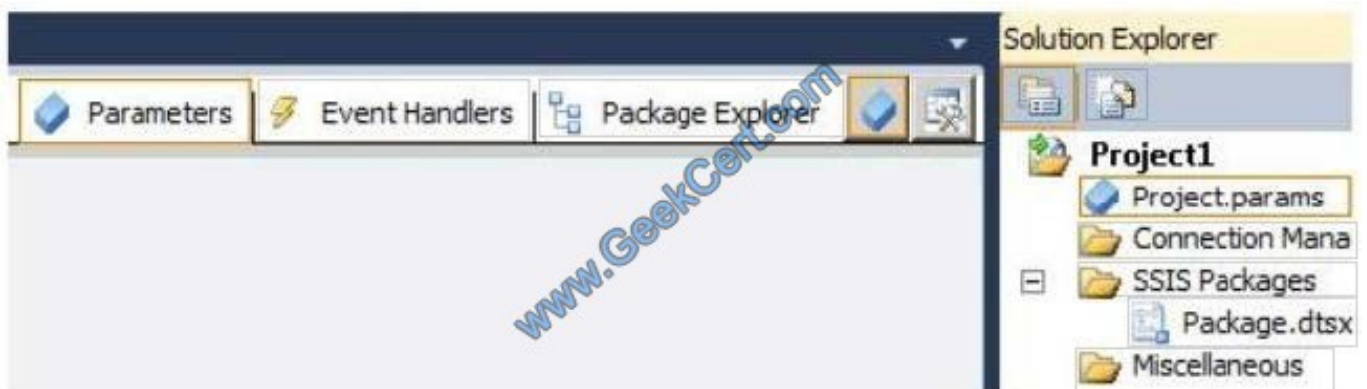
You are editing a SQL Server Integration Services (SSIS) project named Project1 in SQL Server Data Tools.

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:



QUESTION 3

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Your company uses Microsoft SQL Server to deploy a data warehouse to an environment that has a SQL Server Analysis Services (SSAS) instance. The data warehouse includes the Fact.Order table as shown in the following table definition. The table has no indexes.



Fact.Order

Columns

- Order Key (bigint, not null)
- City Key (int, not null)
- Customer Key (int, not null)
- Stock Item Key (int, not null)
- Order Date Key (date, not null)
- Picked Date Key (date, null)
- Salesperson Key (int, not null)
- Picker Key (int, null)
- Quantity (int, not null)
- Unit Price (decimal(18,2), not null)
- Tax Rate (decimal(18,3), not null)
- Total Excluding Tax (decimal(18,2), not null)
- Tax Amount (decimal(18,2), not null)
- Total Including Tax (decimal(18,2), not null)

You must minimize the amount of space that indexes for the Fact.Order table consume. You run the following queries frequently. Both queries must be able to use a columnstore index:

```
SELECT AVG([Tax Amount]) AS [Average Tax Amount]
FROM Fact.Order
WHERE [Order Date Key] BETWEEN '20150701' AND '20151231'
```

```
SELECT SUM([Total Excluding Tax]) AS [Total Revenue]
FROM Fact.Order
WHERE [Order Date Key] BETWEEN '20150701' AND '20151231'
```

You need to ensure that the queries complete as quickly as possible.

Solution: You create a measure for the Fact.Order table.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B



You should use a columnstore index.

Columnstore indexes are the standard for storing and querying large data warehousing fact tables. This index uses column-based data storage and query processing to achieve gains up to 10 times the query performance in your data warehouse over traditional row-oriented storage. References: <https://docs.microsoft.com/en-us/sql/relational-databases/indexes/columnstore-indexes-overview?view=sql-server-2017>

QUESTION 4

You are developing a Microsoft SQL Server Master Data Services (MDS) solution.

The model contains an entity named Product. The Product entity has three user-defined attributes named Category, Subcategory, and Price, respectively.

You need to ensure that combinations of values stored in the Category and Subcategory attributes are unique.

What should you do?

- A. Create an attribute group that consists of the Category and Subcategory attributes. Create a custom index for the attribute group.
- B. Publish a business rule that will be used by the Product entity.
- C. Create a derived hierarchy based on the Category and Subcategory attributes. Use the Category attribute as the top level for the hierarchy.
- D. Create an attribute group that consists of the Category and Subcategory attributes. Publish a business rule for the attribute group.

Correct Answer: D

In Master Data Services, business rule actions are the consequence of business rule condition evaluations. If a condition is true, the action is initiated.

The Validation action "must be unique": The selected attribute must be unique independently or in combination with defined attributes.

Incorrect Answers:

A: In Master Data Services, attribute groups help organize attributes in an entity. When an entity has lots of attributes, attribute groups improve the way an entity is displayed in the Master Data Manager web application.

C: A Master Data Services derived hierarchy is derived from the domain-based attribute relationships that already exist between entities in a model.

References: <https://docs.microsoft.com/en-us/sql/master-data-services/business-rule-actions-master-data-services>

QUESTION 5

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.



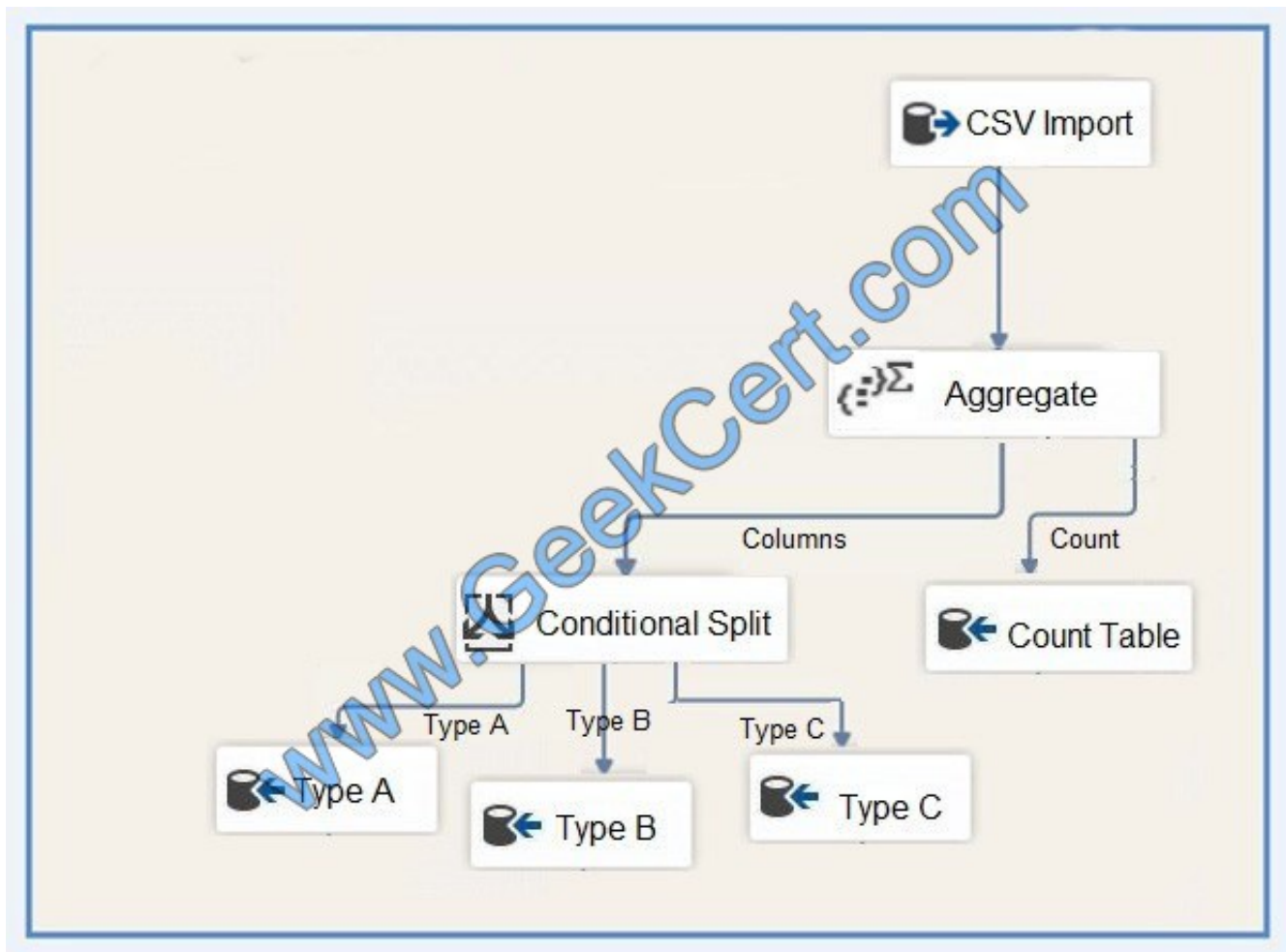
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Each night you receive a comma separated values (CSV) file that contains different types of rows. Each row type has a different structure. Each row in the CSV file is unique. The first column in every row is named Type. This column identifies

the data type.

For each data type, you need to load data from the CSV file to a target table. A separate table must contain the number of rows loaded for each data type.

Solution: You create a SQL Server Integration Services (SSIS) package as shown in the exhibit. (Click the Exhibit tab.)



Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

The conditional split must be before the count.



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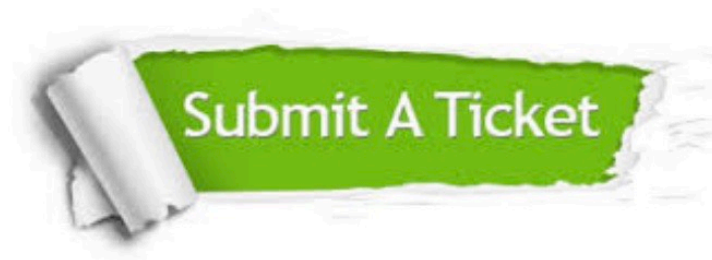
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