



# 70-767<sup>Q&As</sup>

Implementing a Data Warehouse using SQL

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### QUESTION 1

You have a server that has Data Quality Services (DQS) installed.

You create a matching policy that contains one matching rule.

You need to configure the Similarity of Similar percentage that defines a match.

Which similarity percentage will always generate a similarity score of 0?

- A. 55
- B. 80
- C. 70
- D. 75

Correct Answer: A

The minimum similarity between the values of a field is 60%. If the calculated matching score for a field of two records is less than 60, the similarity score is automatically set to 0. References: <https://docs.microsoft.com/en-us/sql/data-quality-services/create-a-matching-policy?view=sql-server-2017>

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### QUESTION 2

Note: This question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in this series.

Information and details provided in a question apply only to that question.

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

You need to ensure that the packa

ge records the current Log Sequence Number (LSN) in the source database before the package begins reading source tables.

Which SSIS Toolbox item should you use?

- A. CDC Control task
- B. CDC Splitter
- C. Union All
- D. XML task
- E. Fuzzy Grouping
- F. Merge
- G. Merge Join



Correct Answer: E

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### QUESTION 3

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:

Correct Answer: D

Explanation: 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>

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### QUESTION 4

You have a Microsoft SQL Server data warehouse instance that supports several client applications.

The data warehouse includes the following tables: Dimension.SalesTerritory, Dimension.Customer, Dimension.Date, Fact.Ticket, and Fact.Order. The Dimension.SalesTerritory and Dimension.Customer tables are frequently updated. The Fact.Order table is optimized for weekly reporting, but the company wants to change it to daily. The Fact.Order table is loaded by using an ETL process. Indexes have been added to the table over time, but the presence of these indexes slows data loading.

All data in the data warehouse is stored on a shared SAN. All tables are in a database named DB1. You have a second database named DB2 that contains copies of production data for a development environment. The data warehouse has grown and the cost of storage has increased. Data older than one year is accessed infrequently and is considered historical.

You have the following requirements:

Implement table partitioning to improve the manageability of the data warehouse and to avoid the need to repopulate all transactional data each night. Use a partitioning strategy that is as granular as possible.

Partition the Fact.Order table and retain a total of seven years of data.

Partition the Fact.Ticket table and retain seven years of data. At the end of each month, the partition structure must apply a sliding window strategy to ensure that a new partition is available for the upcoming month, and that the oldest month of data is archived and removed.

Optimize data loading for the Dimension.SalesTerritory, Dimension.Customer, and Dimension.Date tables.

Incrementally load all tables in the database and ensure that all incremental changes are processed.

Maximize the performance during the data loading process for the Fact.Order partition.

Ensure that historical data remains online and available for querying.

Reduce ongoing storage costs while maintaining query performance for current data.

You are not permitted to make changes to the client applications.



You need to configure data loading for the tables.

Which data loading technology should you use for each table? To answer, select the appropriate options in the answer area.

Hot Area:

**Answer area**

Table	Technology
Dimension.SalesTerritory	<ul style="list-style-type: none"><li>Change Data Capture (CDC)</li><li>Change Tracking</li><li>Temporal table</li><li>Microsoft SQL Server snapshot replication</li></ul>
Dimension.Customer	<ul style="list-style-type: none"><li>Change Data Capture (CDC)</li><li>Change Tracking</li><li>Temporal table</li><li>Microsoft SQL Server snapshot replication</li></ul>
Dimension.Date	<ul style="list-style-type: none"><li>Change Data Capture (CDC)</li><li>Change Tracking</li><li>Temporal table</li><li>Microsoft SQL Server snapshot replication</li></ul>

Correct Answer:



### Answer area

Table	Technology
Dimension.SalesTerritory	<ul style="list-style-type: none"><li>Change Data Capture (CDC)</li><li>Change Tracking</li><li>Temporal table</li><li>Microsoft SQL Server snapshot replication</li></ul>
Dimension.Customer	<ul style="list-style-type: none"><li>Change Data Capture (CDC)</li><li>Change Tracking</li><li>Temporal table</li><li>Microsoft SQL Server snapshot replication</li></ul>
Dimension.Date	<ul style="list-style-type: none"><li>Change Data Capture (CDC)</li><li>Change Tracking</li><li>Temporal table</li><li>Microsoft SQL Server snapshot replication</li></ul>

Scenario: The Dimension.SalesTerritory and Dimension.Customer tables are frequently updated  
Optimize data loading for the Dimension.SalesTerritory, Dimension.Customer, and Dimension.Date tables.

Box 1: Change Tracking Box 2: Change Tracking Box 3: Temporal Table

Temporal Tables are generally useful in scenarios that require tracking history of data changes.

We recommend you to consider Temporal Tables in the following use cases for major productivity benefits.

\* Slowly-Changing Dimensions

Dimensions in data warehousing typically contain relatively static data about entities such as geographical locations, customers, or products.

References:

<https://docs.microsoft.com/en-us/sql/relational-databases/tables/temporal-table-usage-scenarios>

### QUESTION 5

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

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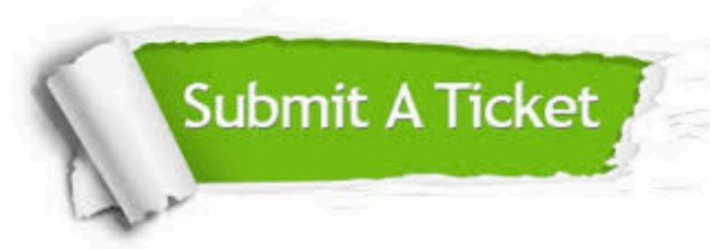
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