



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

Implementing a Data Warehouse using SQL

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## QUESTION 1

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

Explanation: \* 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 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. The package design consists of the sources shown in the following diagram:



Each source contains data that is not sorted.



You need to combine data from all of the sources into a single dataset.

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: C

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### QUESTION 3

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	<input type="text" value=""/> Change Data Capture (CDC) Change Tracking Temporal table Microsoft SQL Server snapshot replication
Dimension.Customer	<input type="text" value=""/> Change Data Capture (CDC) Change Tracking Temporal table Microsoft SQL Server snapshot replication
Dimension.Date	<input type="text" value=""/> Change Data Capture (CDC) Change Tracking Temporal table Microsoft SQL Server snapshot replication

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 4

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.



You plan to deploy a Microsoft SQL server that will host a data warehouse named DB1.

The server will contain four SATA drives configured as a RAID 10 array.

You need to minimize write contention on the transaction log when data is being loaded to the database.

Solution: You configure the server to automatically delete the transaction logs nightly.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

You should place the log file on a separate drive.

References:

<https://www.red-gate.com/simple-talk/sql/database-administration/optimizing-transaction-log-throughput/>

<https://docs.microsoft.com/en-us/sql/relational-databases/policy-based-management/place-data-and-log-files-on-separate-drives?view=sql-server-2017>

## QUESTION 5

You need to load data from a CSV file to a table.

How should you complete the Transact-SQL statement? To answer, drag the appropriate Transact-SQL segments to the correct locations. Each Transact-SQL segment 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.

NOTE: Each correct selection is worth one point.

Select and Place:

Transact-SQL segments	Answer Area
<input type="checkbox"/> BULK	<input type="checkbox"/> Sales.Invoices
<input type="checkbox"/> INSERT	<input type="checkbox"/> '\\share\data\file1.csv'
<input type="checkbox"/> FROM	<input type="checkbox"/> (FORMAT = 'CSV')
<input type="checkbox"/> WITH	
<input type="checkbox"/> MERGE	

Correct Answer:



### Transact-SQL segments

MERGE	

### Answer Area

```
BULK INSERT Sales.Invoices
FROM '\\share\data\file1.csv'
WITH (FORMAT = 'CSV')
```

Example:

```
BULK INSERT Sales.Orders
```

```
FROM '\\SystemX\DiskZ\Sales\data\orders.csv\\'
```

```
WITH ( FORMAT=\\'CSV\\');
```

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