



70-767^{Q&As}

Implementing a Data Warehouse using SQL

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**QUESTION 1**

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">Change Data Capture (CDC)Change TrackingTemporal tableMicrosoft SQL Server snapshot replication |
| Dimension.Customer | <ul style="list-style-type: none">Change Data Capture (CDC)Change TrackingTemporal tableMicrosoft SQL Server snapshot replication |
| Dimension.Date | <ul style="list-style-type: none">Change Data Capture (CDC)Change TrackingTemporal tableMicrosoft SQL Server snapshot replication |

Correct Answer:

Answer area

| Table | Technology |
|--------------------------|--|
| Dimension.SalesTerritory | <ul style="list-style-type: none">Change Data Capture (CDC)Change TrackingTemporal tableMicrosoft SQL Server snapshot replication |
| Dimension.Customer | <ul style="list-style-type: none">Change Data Capture (CDC)Change TrackingTemporal tableMicrosoft SQL Server snapshot replication |
| Dimension.Date | <ul style="list-style-type: none">Change Data Capture (CDC)Change TrackingTemporal tableMicrosoft 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 TrackingBox 2: Change TrackingBox 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 2

You are designing an Extract, Transform and Load (ETL) solution that loads data into dimension tables. The ETL process involves many transformation steps. You need to ensure that the design can provide:

Auditing information for compliance and business user acceptance Tracking and unique identification of records for troubleshooting and error correction

What should you do?

- A. Develop a Master Data Services (MDS) solution.
- B. Develop a Data Quality Services (DQS) solution.
- C. Create a version control repository for the ETL solution.
- D. Develop a custom data lineage solution.

Correct Answer: D

QUESTION 3

A Data Flow task in a SQL Server Integration Services (SSIS) package produces run-time errors.

You need to edit the package to log specific error messages.

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:



Create an **OnError** event handler for the Data Flow task.

Define an expression for the **ActionAtEvent** property.

Add a Notify Operator task.

Add a WMI Event Watcher task.

In the **ReadOnlyVariables** list, select **System::ErrorDescription** and add conditional logic to invoke the **FireError** method.

Add a Script task.

Correct Answer:

Create an **OnError** event handler for the Data Flow task.

Add a Script task.

In the **ReadOnlyVariables** list, select **System::ErrorDescription** and add conditional logic to invoke the **FireError** method.

QUESTION 4

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

The package sources data from an HTML web page that lists product stock levels.

You need to implement a data flow task that reads the product stock levels from the HTML web page.

Which data flow sources should you use? Select Two

- A. Raw File source
- B. XML source
- C. Custom source component
- D. Flat File source
- E. script component

Correct Answer: CE

**QUESTION 5**

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 cleanse a data flow source by removing duplicate records based on approximate matches.

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

The Fuzzy Grouping transformation performs data cleaning tasks by identifying rows of data that are likely to be duplicates and selecting a canonical row of data to use in standardizing the data. Incorrect Answers:

C: UNION ALL. Incorporates all rows into the results. This includes duplicates. If not specified, duplicate rows are removed. References: <https://docs.microsoft.com/en-us/sql/integration-services/data-flow/transformations/fuzzy-grouping-transformation>

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