



70-767^{Q&As}

Implementing a Data Warehouse using SQL

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**QUESTION 1**

You are implementing a SQL Server Integration Services (SSIS) 2016 package that loads data from various flat files and a Windows Azure SQL Database database.

Daily transactions must be loaded into a staging database. All the SSIS tasks will use the CurrentDate variable as the transaction date.

You need to set the CurrentDate variable to the date stored in a control table of the Windows Azure SQL Database database when the package starts. You need to achieve this goal by using the least amount of development effort. What should you use to set the variable?

- A. an Expression task
- B. an Execute SQL task
- C. a Script component
- D. a Script task

Correct Answer: B

QUESTION 2

You have a data warehouse that includes a table named [Fact].[sales]. The table has four partitions. There are no foreign keys defined on the [Fact].[sales] table.

You identify an issue with the first partition. You must reload the data for the first partition as quickly as possible.

You need to prepare the partition for reloading data.

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.

Select and Place:



Transact-SQL segments

Answer area

- WITH (PARTITIONS (1))
- WITH (PARTITIONS (1 to 4))
- WITH (PARTITIONS (1,2,3,4))
- WITH (PARTITIONS (4))
- WITH (PARTITIONS (3))
- TRUNCATE TABLE Fact.Sales
- DELETE FROM Fact.Sales

- Transact-SQL segment
- Transact-SQL segment

Correct Answer:

Transact-SQL segments

Answer area

- WITH (PARTITIONS (1))
- WITH (PARTITIONS (1 to 4))
- WITH (PARTITIONS (4))
- WITH (PARTITIONS (3))
- TRUNCATE TABLE Fact.Sales

- WITH (PARTITIONS (1,2,3,4))
- DELETE FROM Fact.Sales

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 sections, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.



You have the following line-of-business solutions:

ERP system

Online WebStore

Partner extranet

One or more Microsoft SQL Server instances support each solution. Each solution has its own product catalog. You have an additional server that hosts SQL Server Integration Services (SSIS) and a data warehouse. You populate the data

warehouse with data from each of the line-of-business solutions. The data warehouse does not store primary key values from the individual source tables.

The database for each solution has a table named Products that stored product information. The Products table in each database uses a separate and unique key for product records. Each table shares a column named ReferenceNr between

the databases. This column is used to create queries that involve more than once solution.

You need to load data from the individual solutions into the data warehouse nightly. The following requirements must be met:

If a change is made to the ReferenceNr column in any of the sources, set the value of IsDisabled to True and create a new row in the Products table.

If a row is deleted in any of the sources, set the value of IsDisabled to True in the data warehouse.

Solution: Perform the following actions:

Enable the Change Tracking for the Product table in the source databases.

Query the CHANGETABLE function from the sources for the updated rows.

Set the IsDisabled column to True for the listed rows that have the old ReferenceNr value.

Create a new row in the data warehouse Products table with the new ReferenceNr value.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

We must check for deleted rows, not just updates rows.

References: <https://www.timmitchell.net/post/2016/01/18/getting-started-with-change-tracking-in-sql-server/>

QUESTION 4

You have a data warehouse named DW1 that contains 20 years of data. DW1 contains a very large fact table. New data is loaded to the fact table monthly.



Many reports query DW1 for the past year of data.

Users frequently report that the reports are slow.

You need to modify the fact table to minimize the amount of time it takes to run the reports. The solution must ensure that other reports can continue to be generated from DW1.

What should you do?

- A. Move the historical data to SAS disks and move the data from the past year to SSD disks. Run the ALTER TABLE statement.
- B. Move all the data to SSD disks. Load and archive the data by using partition switching.
- C. Move all the data to SAS disks. Load and archive the data by using partition switching.
- D. Move the historical data to SAS disks and move the data for the past year to SSD disks. Create a distributed partitioned view.

Correct Answer: A

We use ALTER TABLE to partition the table. Incorrect Answers:

D: A Distributed Partitioned View contains participating tables from multiple SQL Server instances, which can be used to distribute the data processing load across multiple servers. Another advantage for the SQL Server Partitioned Views is that the underlying tables can participate in more than one Partitioned View, which could be helpful in some implementations.

QUESTION 5

You are designing a data warehouse with two fact tables. The first table contains sales per month and the second table contains orders per day.

Referential integrity must be enforced declaratively.

You need to design a solution that can join a single time dimension to both fact tables.

What should you do?

- A. Create a view on the sales table.
- B. Partition the fact tables by day.
- C. Create a surrogate key for the time dimension.
- D. Change the level of granularity in both fact tables to be the same.

Correct Answer: D

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