Microsoft

Exam Questions 70-767
Implementing a SQL Data Warehouse (beta)
NEW QUESTION 1
You are testing a Microsoft SQL Server Integration Services (SSIS) package. The package includes the Control Flow task shown in the Control Flow exhibit (Click the Exhibit button)

and the Data Flow task shown in the Data Flow exhibit. (Click the Exhibit button.)

You declare a variable named seed as shown in the Variables exhibit. (Click the Exhibit button.).

The variable is changed by the Script task during execution.
You need to be able to interrogate the value of the seed variable after the Script task completes execution. For each of the following statements, select Yes if the statement is true. Otherwise, select No.

Answer:

Explanation: No Yes No Yes

NEW QUESTION 2
You have a database named DB1. You create a Microsoft SQL Server Integration Services (SSIS) package that incrementally imports data from a table named Customers. The package uses an OLE DB data source for connections to DB1. The package defines the following variables.

To support incremental data loading, you create a table by running the following Transact-SQL segment:

```sql
CREATE TABLE LastKeyByTable (  
  Id int IDENTITY(1,1) PRIMARY KEY,  
  TableName sysname UNIQUE,  
  LastKey bigint
)
```

You need to create a DML statements that updates the LastKeyByTable table.
How should you complete the Transact-SQL statement? To answer, select the appropriate Transact-SQL segments in the dialog box in the answer area.
NEW 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.

You are the administrator of a Microsoft SQL Server Master Data Services (MDS) instance. The instance contains a model named Geography and a model named customer. The Geography model contains an entity named countryRegion.
You need to ensure that the countryRegion entity members are available in the customer model.
Solution: In the Customer model, add a domain-based attribute to reference the CountryRegion entity in the Geography model.
Does the solution meet the goal?

A. Yes
B. No

Answer: A
A. RAID1  
B. RAID 5  
C. RAID 6  
D. RAID 10

Answer: C

Explanation: According to the Storage Networking Industry Association (SNIA), the definition of RAID 6 is: “Any form of RAID that can continue to execute read and write requests to all of a RAID array's virtual disks in the presence of any two concurrent disk failures.”

NEW 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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You have a data warehouse that stores information about products, sales, and orders for a manufacturing company. The instance contains a database that has two tables named SalesOrderHeader and SalesOrderDetail. SalesOrderHeader has 500,000 rows and SalesOrderDetail has 3,000,000 rows.

Users report performance degradation when they run the following stored procedure:

You need to optimize performance.

Solution: You run the following Transact-SQL statement:

```
CREATE PROCEDURE Sales.GetRecentSales (@date datetime)
AS BEGIN
    IF @date is NULL
        SET @date = DATEADD(MONTH, -3, (SELECT MAX(ORDERDATE) FROM Sales.SalesOrderHeader))
    SELECT * FROM Sales.SalesOrderHeader h, Sales.SalesOrderDetail d
    WHERE h.SalesOrderID = d.SalesOrderID
    AND h.OrderDate > @date
END
```

Does the solution meet the goal?

A. Yes  
B. No

Answer: B

Explanation: Microsoft recommend against specifying 0 PERCENT or 0 ROWS in a CREATE STATISTICS..WITH SAMPLE statement. When 0 PERCENT or ROWS is specified, the statistics object is created but does not contain statistics data.

References: https://docs.microsoft.com/en-us/sql/t-sql/statements/create-statistics-transact-sql

NEW QUESTION 6

Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is exactly the same in each question in this series.

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 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 optimize data loading for the Dimension.Customer table.

Which three Transact-SQL segments should you use to develop the solution? To answer, move the appropriate Transact-SQL segments from the list of Transact-SQL segments to the answer area and arrange them in the correct order.

NOTE: You will not need all of the Transact-SQL segments.
**NEW QUESTION 7**

You plan to use the dtutil.exe utility with Microsoft SQL Server Integration Services (SSIS) to customize packages. You need to create a new package ID for package1 on Server1. Which dtutil.exe command should you run?

A. dtutil.exe /FILE c:\repository\packagel.dtsx /DestServer Server1 /COPY SQL;package1.dtsx  
B. dtutil.exe /I /FILE c:\repository\packagel.dtsx  
C. dtutil.exe /SQL package1 /COPY OTS:c:\repository\package1.dtsx  
D. dtutil.exe /SQL package1 /DELETE

**Answer:** A

**Explanation:**

From Scenario: 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.

**Step 1: USE DB1**

**Step 2: EXEC sys.sp_cdc_enable_db**

Before you can enable a table for change data capture, the database must be enabled. To enable the database, use the sys.sp_cdc_enable_db stored procedure.

**Step 3: EXEC sys.sp_cdc_enable_table**

sys.sp_cdc_enable_table enables change data capture for the specified source table in the current database. Partial syntax:

```sql
sys.sp_cdc_enable_table
[@source_schema = ] 'source_schema',
[@source_name = ] 'source_name' , 
[@capture_instance = ] 'capture_instance' 
[@supports_net_changes = ] supports_net_changes ]
```

Etc.

References:


**NEW QUESTION 8**

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 are configuring a Microsoft SQL server named dw1 for a new data warehouse. The server contains eight drives and eight processor cores. Each drive uses a separate physical disk.

You need to configure storage for the tempdb database. The solution must minimize the amount of time it takes to process daily ETL jobs.

**Solution:**

You configure eight files for the tempdb database. You place the files on a drive that will NOT store the user database files.
Does this meet the goal?

A. Yes
B. No

**Answer: B**

**NEW QUESTION 9**

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 are importing data from databases at retail stores into a central data warehouse. All stores use the same database schema.

The query being executed against the retail stores is shown below:

```
SELECT *
FROM dbo.Sales
WHERE SaleDate >= CAST(date, GETDATE()) -1
ORDER BY ID
```

The data source property named IsSorted is set to True. The output of the transform must be sorted.

You need to add a component to the data flow. 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

**Answer: C**

**NEW QUESTION 10**

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

**Answer: B**

**Explanation:** 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/

**NEW QUESTION 11**

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 are the administrator of a Microsoft SQL Server Master Data Services (MDS) instance. The instance contains a model named Geography and a model named customer. The Geography model contains an entity named countryRegion.

You need to ensure that the countryRegion entity members are available in the customer model. Solution: Configure an entity sync relationship to replicate the CountryRegion entity.

Does the solution meet the goal?

A. Yes
B. No

**Answer: B**

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NEW QUESTION 12
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 disk
B. Run the ALTERTABLE statement.
C. Move all the data to SSD disk
D. Load and archive the data by using partition switching.
E. Move all the data to SAS disk
F. Load and archive the data by using partition switching.
G. Move the historical data to SAS disks and move the data for the past year to SSD disk
H. Create a distributed partitioned view.

Answer: A

Explanation: We use ALTER TABLE to partition the table.

NEW QUESTION 13
You have a database named OnlineSales that contains a table named Customers. You plan to copy incremental changes from the Customers table to a data warehouse every hour. You need to enable change tracking for the Customers table.
How should you complete the Transact-SQL statements? 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.

Answer:

Explanation: Box 1: DATABASE [OnlineSales]
Before you can use change tracking, you must enable change tracking at the database level. The following example shows how to enable change tracking by using ALTER DATABASE.
ALTER DATABASE AdventureWorks2012 SET CHANGE_TRACKING = ON
(CHANGE_RETENTION = 2 DAYS, AUTO_CLEANUP = ON) Box 2: CHANGE_TRACKING = ON
ALTER SET CHANGE_RETENTION
Box 3: ALTER TABLE [dbo].[Customers]
Change tracking must be enabled for each table that you want tracked. When change tracking is enabled, change tracking information is maintained for all rows in the table that are affected by a DML operation.
The following example shows how to enable change tracking for a table by using ALTER TABLE. ALTER TABLE Person.Contact
ENABLE CHANGE_TRACKING
WITH (TRACK_COLUMNS_UPDATED = ON) Box 4: ENABLE CHANGE_TRACKING
References:
https://docs.microsoft.com/en-us/sql/relational-databases/track-changes/enable-and-disable-change-tracking-sql-

NEW QUESTION 14
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 a database administrator for an e-commerce company that runs an online store. The company has the databases described in the following table.

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Each day, you publish a Microsoft Excel workbook that contains a list of product names and current prices to an external website. Suppliers update pricing information in the workbook. Each supplier saves the workbook with a unique name.

Each night, the Products table is deleted and refreshed from MDS by using a Microsoft SQL Server Integration Services (SSIS) package. All files must be loaded in sequence.

You need to add a data flow in an SSIS package to perform the Excel files import in the data warehouse. What should you use?

A. Lookup transformation  
B. Merge transformation   
C. Merge Join transformation  
D. MERGE statement  
E. Union All transformation  
F. Balanced Data Distributor transformation  
G. Sequential container  
H. Foreach Loop container

**Answer:** A

**Explanation:** If you're familiar with SSIS and don't want to run the SQL Server Import and Export Wizard, create an SSIS package that uses the Excel Source and the SQL Server Destination in the data flow.

References:

NEW QUESTION 15

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