



70-767^{Q&As}

Implementing a Data Warehouse using SQL

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QUESTION 1

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 a Microsoft Azure SQL Data Warehouse instance. You run the following Transact-SQL statement:

```
SELECT CustomerKey, SUM (SalesAmt) TotalSales  
FROM sales. FactOrders  
GROUP BY CustomerKey
```

The query fails to return results.

You need to determine why the query fails.

Solution: You run the following Transact-SQL statement:

```
SELECT TOP 1 status, total_elapsed_time, submit_time  
FROM sales. FactOrders  
WHERE [label] = 'TotalSales'  
ORDER BY submit_time
```

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

To use submit_time we must use sys.dm_pdw_exec_requests table.

References: <https://docs.microsoft.com/en-us/sql/relational-databases/system-dynamic-management-views/sys-dm-pdw-exec-requests-transact-sql?view=aps-pdw-2016-au7>

QUESTION 2

Your company has a Microsoft SQL Server data warehouse instance. The human resources department assigns all employees a unique identifier. You plan to store this

identifier in a new table named Employee.

You create a new dimension to store information about employees by running the following Transact-SQL statement:



```
CREATE TABLE [Dimension].[Employee]
(
    [EmployeeID] [int] NOT NULL,
    [EmployeeName] [nvarchar](50) NULL,
    [PreferredName] [nvarchar](50) NULL,
    [IsSalesperson] [bit] NOT NULL,
    [Email] [nvarchar](50) NULL
)
```

You have not added data to the dimension yet. You need to modify the dimension to implement a new column named [EmployeeKey]. The new column must use unique values. How should you complete the Transact-SQL statements? To answer, select the appropriate Transact-SQL segments in the answer area.

Hot Area:

Answer Area

```
ALTER TABLE [Dimension].[Employee]
```

	▼
ADD [EmployeeKey] INT IDENTITY(1,1) NULL	
ADD [EmployeeKey] INT IDENTITY(1,1) NOT NULL	
ADD [EmployeeID] INT IDENTITY(1,1) NULL	
ADD [EmployeeID] INT IDENTITY(1,1) NOT NULL	

```
ALTER TABLE [Dimension].[Employee]
```

```
ADD CONSTRAINT PK_Dimension_Employee
```

	▼
PRIMARY KEY CLUSTERED ([EmployeeKey])	
PRIMARY KEY CLUSTERED ([EmployeeID])	
PRIMARY KEY CLUSTERED ([Employee])	
PRIMARY KEY CLUSTERED ([PreferredName])	

Correct Answer:



Answer Area

```
ALTER TABLE [Dimension].[Employee]
```

▼
ADD [EmployeeKey] INT IDENTITY(1,1) NULL
ADD [EmployeeKey] INT IDENTITY(1,1) NOT NULL
ADD [EmployeeID] INT IDENTITY(1,1) NULL
ADD [EmployeeID] INT IDENTITY(1,1) NOT NULL

```
ALTER TABLE [Dimension].[Employee]
```

```
ADD CONSTRAINT PK_Dimension_Employee
```

▼
PRIMARY KEY CLUSTERED ([EmployeeKey])
PRIMARY KEY CLUSTERED ([EmployeeID])
PRIMARY KEY CLUSTERED ([Employee])
PRIMARY KEY CLUSTERED ([PreferredName])

QUESTION 3

You are deploying a new SQL Server Integration Services (SSIS) package to five servers. The package must meet the following requirements:

Correct Answer: D

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.

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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 5

You are creating a SQL Server Integration Services (SSIS) package that implements a Type 3 Slowly Changing Dimension (SCD).

You need to add a task or component to the package that allows you to implement the SCD logic.

What should you use?



- A. a Data Conversion component
- B. an Execute SQL task that executes a MERGE statement on the database
- C. a Merge component
- D. an Expression task

Correct Answer: C

Note: Type of Slowly Changing Dimensions Slowly Changing Dimensions are categorized into three types named: Type 1, Type 2, and Type3. The Type 1 SCD does not maintain the history of changing attributes, it overwrites values of the

attributes. Type 2 maintains historical values for changing attributes. Type 3 that we do not use much maintains separate columns for changed attributes. SSIS SCD wizard supports both Type 1 and Type 2.

Using MERGE instead of SCD wizard Replacement of SCD wizard with MERGE is not a straightforward technique. If the SCD has both Type 1 and Type 2 types attributes, they need to be handled separately.

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