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Implementing a SQL Data Warehouse

Microsoft 70-767

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QUESTION NO: 1 - (DRAG DROP)

DRAG DROP

You manage a data warehouse. You have a source table named dbo.Table1.

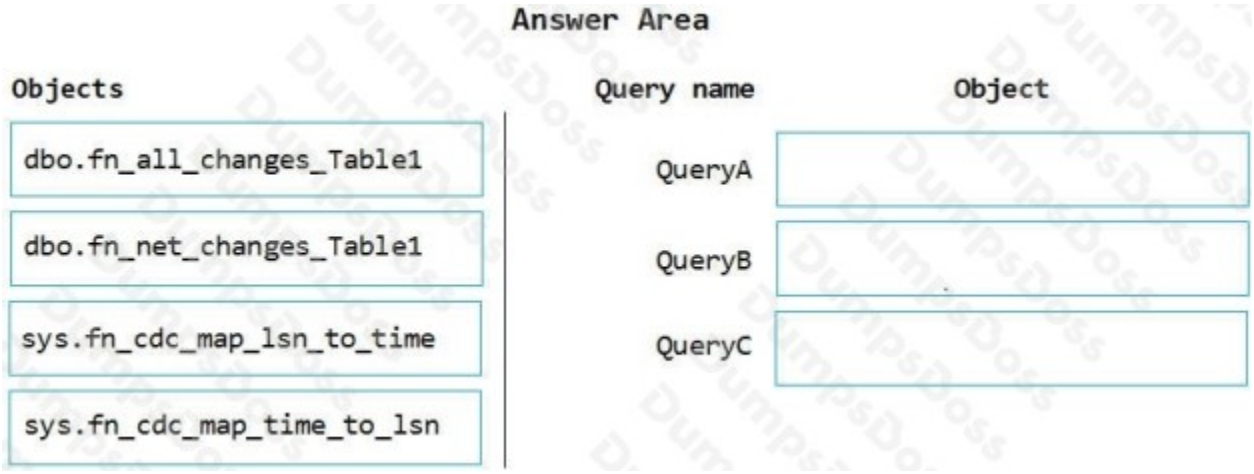
You need to implement Change Data Capture (CDC) for the queries.

Query name	Requirement
QueryA	Return the primary key values for any rows that were updated or inserted between two datetime values.
QueryB	Return all update and insert operations, including the before and after values for any update statements, between two datetime values.
QueryC	Review all update and insert operations. Only the new values for update operations between two datetime values are returned.

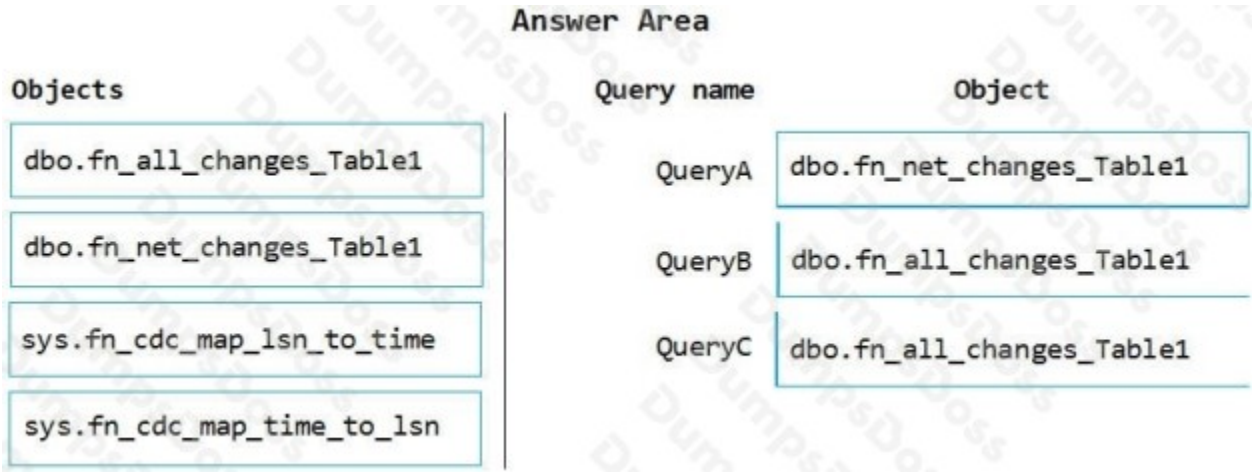
Which CDC object should you use for each query? To answer, drag the appropriate objects to the correct queries. Each object may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:



ANSWER:



Explanation:

References:

https://docs.microsoft.com/en-us/sql/relational-databases/system-functions/sys-fn-net-changes-capture-instance-transact-sql?view=sql-server-ver15 https://docs.microsoft.com/en-us/sql/relational-databases/system-functions/sys-fn-all-changes-capture-instance-transact-sql?view=sql-server-ver15 https://docs.microsoft.com/en-us/sql/relational-databases/system-functions/sys-fn-cdc-map-lsn-to-time-transact-sql?view=sql-server-ver15

https://docs.microsoft.com/en-us/sql/relational-databases/system-functions/cdc-fn-cdc-get-net-changes-capture-instance-transact-sql?view=sql-serverver15

QUESTION NO: 2

You have a data warehouse that contains a fact table named Table1 and a Product table named Dim1. Dim1 is configured as shown in the following table.

Column name	Column data type
ProductID	Integer identity
ProductKey	Char(10)
Name	Varchar(50)
Color	Varchar(20)
Weight	Decimal (13, 1)

You are adding a second OLTP system to the data warehouse as a new fact table named Table2. The Product table of the OLTP system is configured as shown in the following table

Column name	Column data type
ProductIdentifier	Char (8)
ProductName	Varchar(35)
SalesUnit	varchar(25)
Weight	Decimal(19,2)

You need to modify Dim1 to ensure that the table can be used for both fact tables.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Modify the data type of the Weight column in Dim1 to decimal (19, 2).

B. Add the SalesUnit column to Dim1.

C. Modify the data type of the Name column in Dim1 to varchar (85).

D. Drop the ProductKey column from Dim1 and replace the column with the ProductIdentifier column.

E. Drop the Color column from Dim1.

F. Modify the data type of the ProductKey column in Dim1 to char (18).

ANSWER: A D

QUESTION NO: 3 - (DRAG DROP)

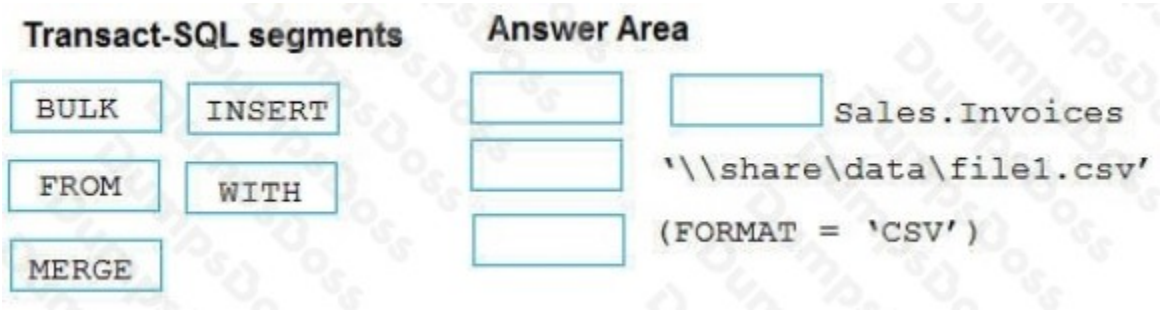
DRAG DROP

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

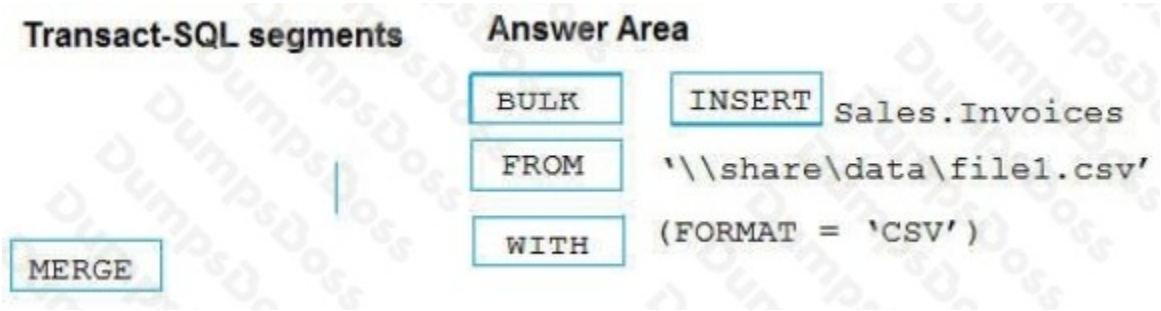
How should you complete the Transact-SQL statement? To answer, drag the appropriate Transact-SQL segments to the correct locations. Each Transact-SQL segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:



ANSWER:



Explanation:

Example:

BULK INSERT Sales.Orders

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

WITH (FORMAT='CSV');

QUESTION NO: 4

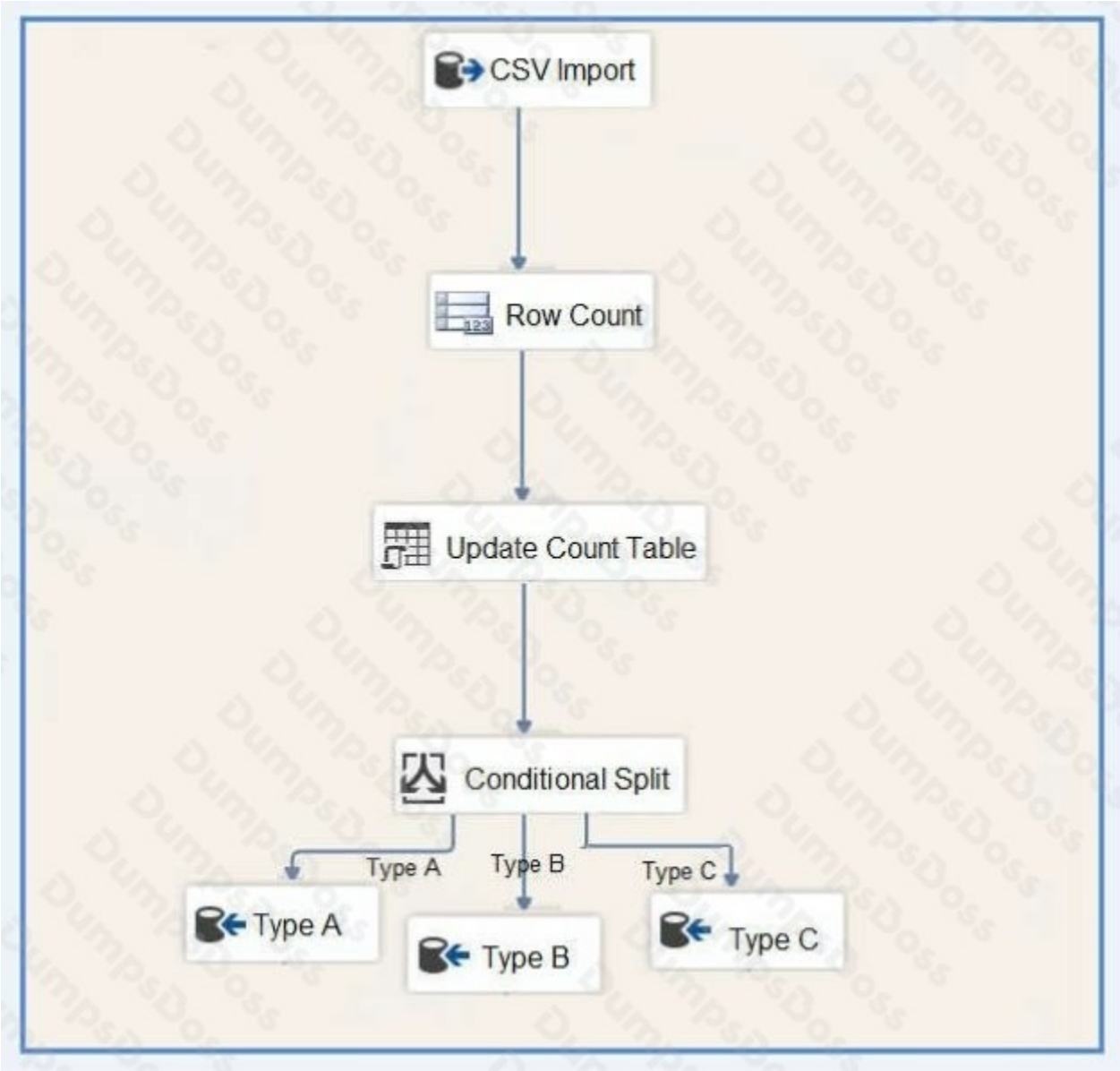
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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.

Each night you receive a comma separated values (CSV) file that contains different types of rows. Each row type has a different structure. Each row in the CSV file is unique. The first column in every row is named Type. This column identifies the data type.

For each data type, you need to load data from the CSV file to a target table. A separate table must contain the number of rows loaded for each data type.

Solution: You create a SQL Server Integration Services (SSIS) package as shown in the exhibit. (Click the Exhibit tab.)



Does the solution meet the goal?

A. Yes

B. No

ANSWER: B

Explanation:

The conditional split must be before the count.

QUESTION NO: 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.

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 create a set of Microsoft SQL Server Integration Services (SSIS) packages to support an ETL process.

You need to deploy the SSIS packages and meet the following requirements:

- Maximize ease of use for backup processes.
- Manage security of packages from a single place.
- Maintain versioning of packages.
- Implement parameters to assign values to packages.
- Use stored procedures to run SSIS packages. ▪ Use SQL Server Agent to run packages.

Solution: You use the Project Deployment model with an SSIS catalog to store and manage packages.

Does this meet the goal?

A. Yes

B. No

ANSWER: A

Explanation:

Built-in stored procedures only work for with an SSIS catalog to store.

References:

https://docs.microsoft.com/en-us/sql/integration-services/packages/run-integration-services-ssis-packages

QUESTION NO: 6 - (HOTSPOT)

HOTSPOT

You are a data warehouse developer.

You need to create a Microsoft SQL Server Integration Services (SSIS) catalog on a production SQL Server instance.

Which features are needed? To answer, select the appropriate options in the answer area.

Hot Area:

ANSWER:

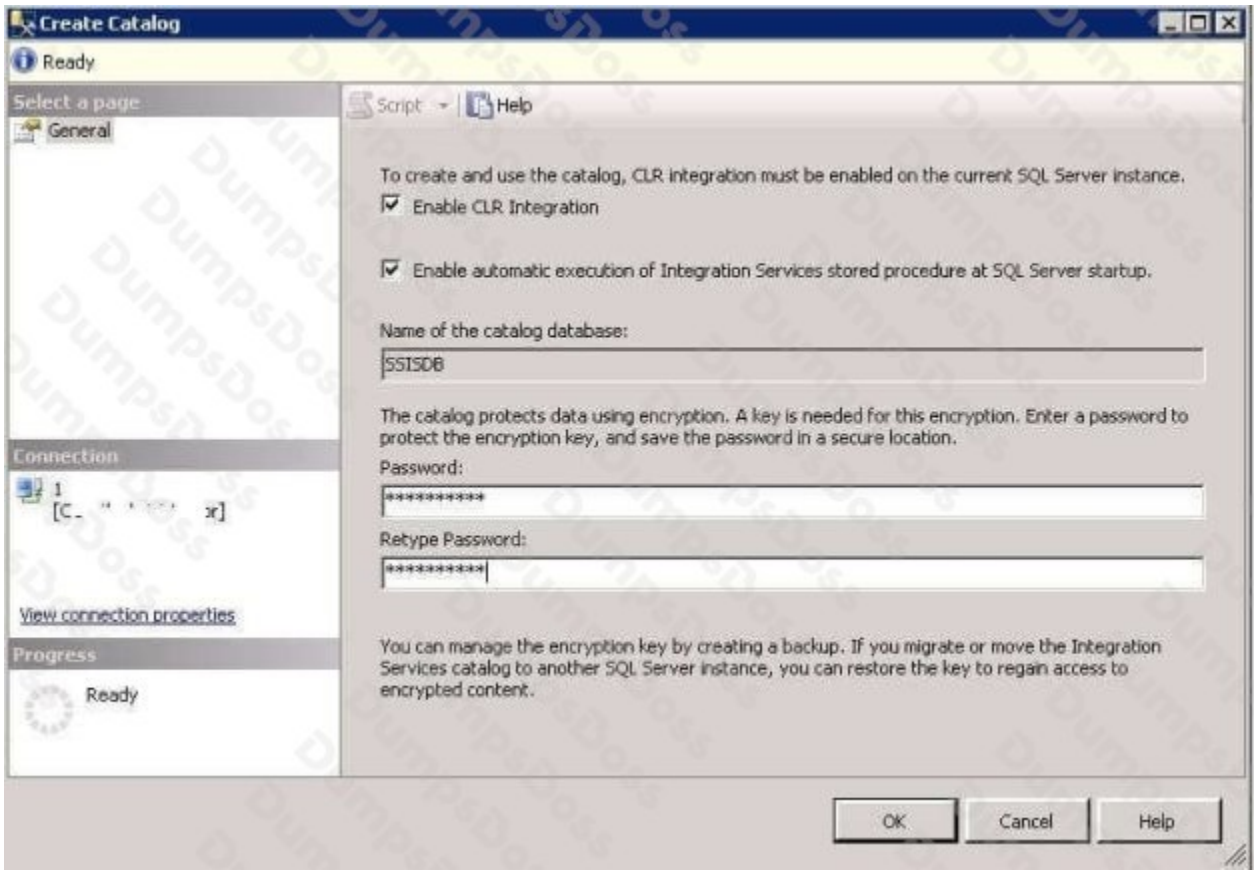
Explanation:

Box 1: Yes

"Enable CLR Integration" must be selected because the catalog uses CLR stored procedures.

Box 2: Yes

Once you have selected the "Enable CLR Integration" option, another checkbox will be enabled named "Enable automatic execution of Integration Services stored procedure at SQL Server startup". Click on this check box to enable the catalog startup stored procedure to run each time the SSIS server instance is restarted.



Box 3: No

References: https://www.mssqltips.com/sqlservertip/4097/understanding-the-sql-server-integration-services-catalog-and-creating-the-ssisdb-catalog/

QUESTION NO: 7

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.

Database	Description
DB1	This database supports the online store.
DB2	This is the data warehouse for the company. **DB2** contains a table named OnlineOrder that is partitioned in hourly increments. The LOCK_ESCALATION option is set to **AUTO**. The data flow contains 24 OLE DB destinations, one for each partition.
DB3	This database runs Master Data Services (MDS).

Each day, data from the table OnlineOrder in DB2 must be exported by partition. The tables must not be locked during the process.

You need to write a Microsoft SQL Server Integration Services (SSIS) package that performs the data export.

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: E

Explanation:

The Union All transformation combines multiple inputs into one output. For example, the outputs from five different Flat File sources can be inputs to the Union All transformation and combined into one output.

References: https://docs.microsoft.com/en-us/sql/integration-services/data-flow/transformations/union-all-transformation

QUESTION NO: 8 - (HOTSPOT)

HOTSPOT

Note: This question is part of a series of questions that present 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.

Start of repeated scenario

You are developing a Master Data Management (MDM) solution for a company by using Microsoft SQL Server Integration Services (SSIS), SQL Server Master Data Services (MDS), and SQL Server Data Quality Services (DQS).

You have an MDS model named Geography that contains the entities described in the following table.

Entity	Code attribute	Name attribute	User-defined attributes
CoutryRegion	CountryCode	CountryRegionName	
State	StateCode	StateName	CountryRegionCode
City	CityID	CityName	CountryRegionCode, StateCode
Manager	ManagerID	ManagerName	

You define a domain-based attribute in the State entity that references the CountryRegion entity. You define another domain-based attribute in the city entity that references the State and CountryRegion entities. A single derived hierarchy named Geography supports navigation between the CountryRegion, State, and City levels. Subscription views exist for all entities. The subscription views have the same name as the entity on which they are based.

You initialize each entity member. New City entity members are imported daily based on customer city values in a Customer Relationship

Management (CRM) database. The CRM database is a SQL Server relational database. When new cities are imported from the CRM database, the state codes must be standardized to those already defined in the State entity.

In the CRM database, sales managers and assigned to countries/regions. A sales manager may be assigned to one or more countries/regions. A country/region may have one or more assigned sales managers. The CRM database contains a table named ManagerCountryRegion that stores a row for each manager-country/region relationship.

You create the following MDS users and map each user to an Active Directory Domain Services (AD DS) user account: User1, User2, and User3. Both User1 and User2 belong to the Explorer functional area.

Users must be able to complete the tasks described in the following table.

User	Tasks
User1	Retrieve, add, or modify City entity members.
User2	Review City entity member changes made by User1 and approve or reject those changes.
User3	Perform all administration tasks and manage all master data in all models.

End of repeated scenario

You need to assign appropriate permissions to User2 and User3.

In the table below, identify the permission that must be assigned to each user.

NOTE: make only one selection in each column. Each correct selection is worth one point.

Hot Area:

Answer Area

Permission	User2	User3
`City` entity admin	○	○
`City` entity read, Create, Update, Delete	○	○
Geography model admin	○	○
Super User functional area	○	○
System Administration functional area	○	○

ANSWER:

Answer Area

Permission	User2	User3
`City` entity admin	◉	○
`City` entity read, Create, Update, Delete	○	○
Geography model admin	○	○
Super User functional area	○	◉
System Administration functional area	○	○

Explanation:

Column User2: City Entity admin

Column User3: Super User functional area

A user with permissions to the Super User functional area effectively has Admin permission on all models and has permissions for all the other functional areas

User2	Review City entity member changes made by User1 and approve or reject those changes.
User3	Perform all administration tasks and manage all master data in all models.

References:

https://docs.microsoft.com/en-us/sql/master-data-services/administrators-master-data-services

QUESTION NO: 9

Your company manufactures several types of products.

The company has a production tracking application that stores the following data about the products:

- The production date
- The cost of production
- The names of the products
- The amount of waste created
- The number of products produced
- The name of the facility where the products are produced

You are designing a data warehouse for the data. You add a Date dimension.

You need to ensure that you can create a composite primary key for the fact table.

Which two columns should you add to the new dimension tables? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Cost of Production

B. Amount Produced

C. Waste Amount

D. Product Name

E. Facility Name

ANSWER: D E

Explanation:

Both the Product Name and the Facility Name are unique.

QUESTION NO: 10

You manage the user accounts in master data Services (MDS).

You need to assign a user access to the MDS data and functions.

Which two components must you assign? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. file share permissions

B. model object permissions

C. functional area permissions

D. SQL Database permissions

ANSWER: B C

Explanation:

B: In Master Data Services, assign permissions to model objects when you need to give a user or group access to data in the Explorer functional area of Master Data Manager, or when you need to make a user or group an administrator.

C: Assign functional area permission to grant users or groups access to the functional areas of Master Data Manager.

To assign functional area permissions

1. In Master Data Manager, click User and Group Permissions.

2. On the Users or Groups page, select the row for the user or group that you want to edit.

3. Click Edit selected user.

4. Click the Functions tab.

5. Click Edit.

6. Click a functional area and click the Add arrow.

7. When you are done, click Save.

References:

https://docs.microsoft.com/en-us/sql/master-data-services/assign-model-object-permissions-master-data-services
https://docs.microsoft.com/en-us/sql/master-data-services/assign-functional-area-permissions-master-data-services