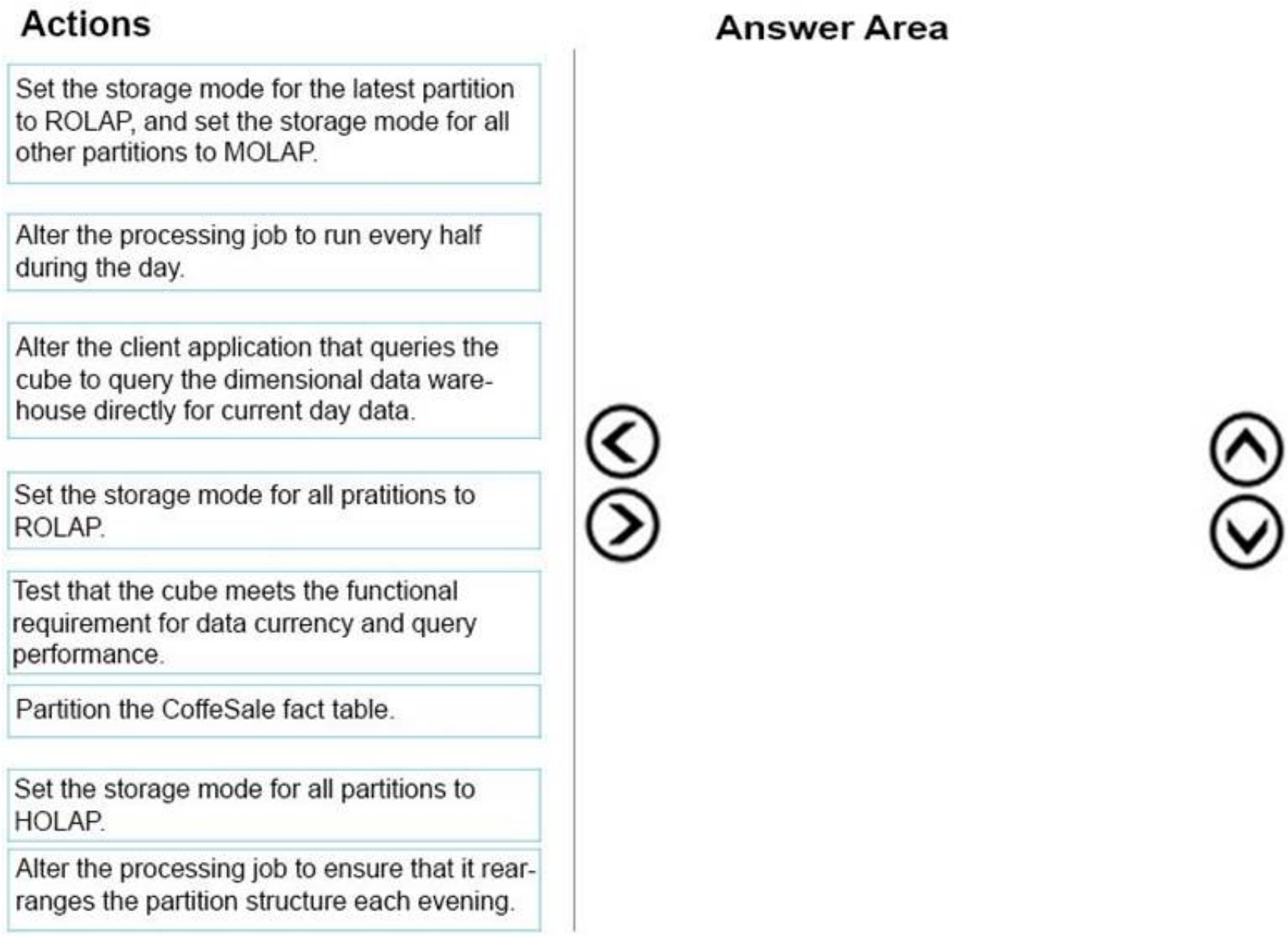
Microsoft

Exam Questions 70-768

Developing SQL Data Models (beta)

NEW QUESTION 1
DRAG DROP - (Topic 2)
You need to configure the CoffeeSale fact table environment.
Which four 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.
NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

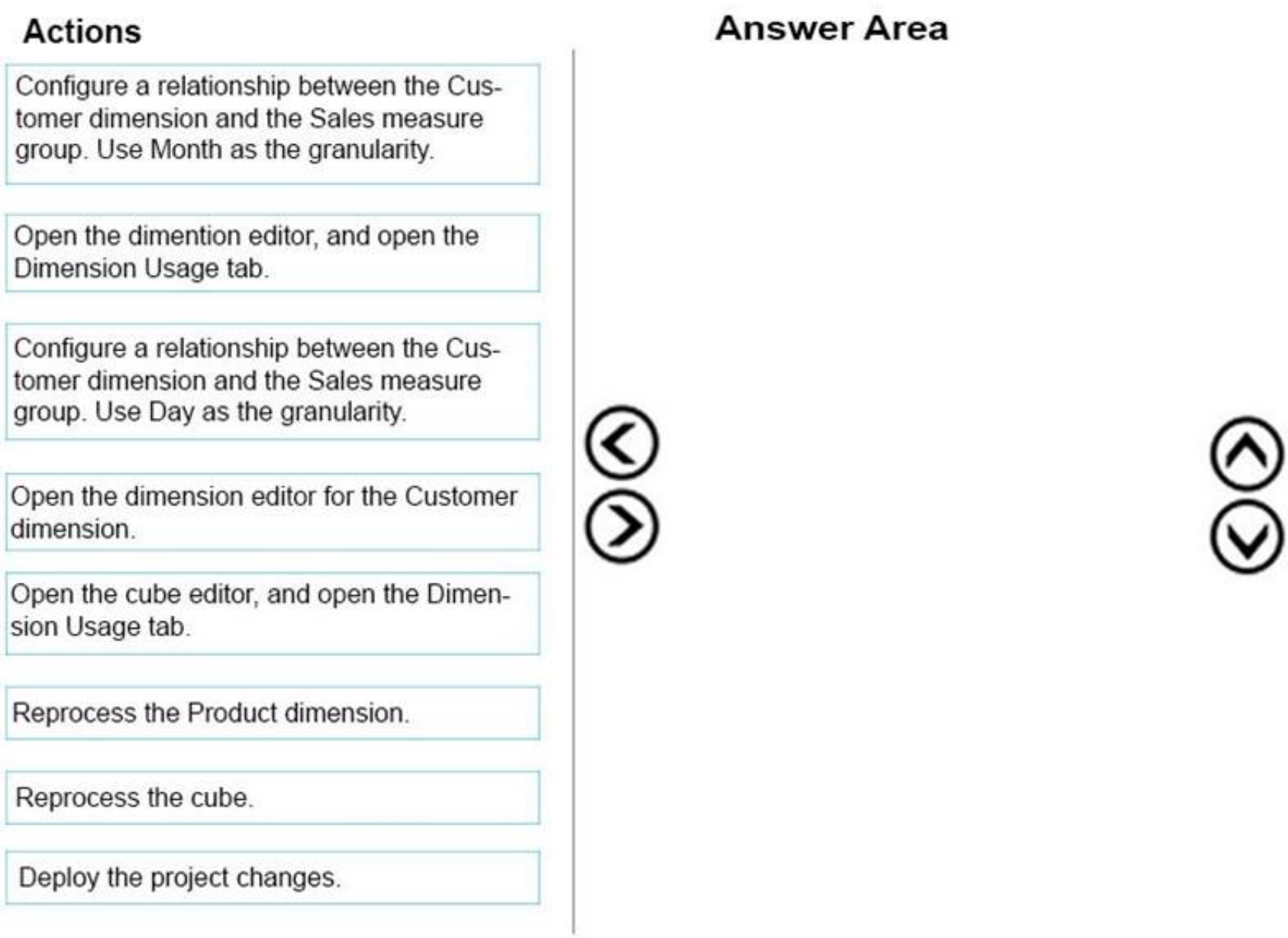


A. Mastered
B. Not Mastered

Answer: A

Explanation:
Step 1: Partition the CoffeSale facto table.
Step 2: Set the storage mode for all partitions to HOLAP.
Partitions stored as HOLAP are smaller than the equivalent MOLAP partitions because
they do not contain source data and respond faster than ROLAP partitions for queries involving summary data.
Step 3: Alter the processing job to ensure that it rearranges the partition structure each evening.
Step 4: Test that the cube meets the functional requirement for data currency and query performance.
From scenario:
Data analysts must be able to analyze sales for financial years, financial quarters, months, and days. Many reports are based on analyzing sales by month.
The SalesAnalysis cube contains a fact table named CoffeeSale loaded from a table named FactSale in the data warehouse. The time granularity within the cube is 15 minutes. The cube is processed every night at 23:00. You determine that the fact table cannot be fully processed in the expected time. Users have reported slow query response times.
References:https://docs.microsoft.com/en-us/sql/analysis-services/multidimensional-models-olap-logical-cube-objects/partitions-partition-storage-modes-and-processing

NEW QUESTION 2
DRAG DROP - (Topic 2)
You need to configure the SalesAnalysis cube to correct the sales analysis by customer calculation.
Which four 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.



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Step 1: Open the cube editor, and open the Dimension Usage tab.
Step 2: Configure a relationship between the Customer dimension and the Sales measure group. Use Day as the granularity.
From scenario: The SalesAnalysis cube contains a fact table named CoffeeSale loaded from a table named FactSale in the data warehouse. The time granularity within the cube is 15 minutes. The cube is processed every night at 23:00. You determine that the fact table cannot be fully processed in the expected time. Users have reported slow query response times.
Step 3: Reprocess the cube.
Step 4: Deploy the project changes.

NEW QUESTION 3
- (Topic 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. Determine whether the solution meets the stated goals.
You have an existing multidimensional cube that provides sales analysis. The users can slice by date, product, location, customer, and employee.
The management team plans to evaluate sales employee performance relative to sales targets. You identify the following metrics for employees:
You need to implement the KPI based on the Status expression. Solution: You design the following solution:

```
Case
     WHEN KpiValue ("Employee Sales") / KpiGoal("Employee Sales") >= .90
     THEN 1
     WHEN KpiValue ("Employee Sales") / KpiGoal("Employee Sales") < .90
          AND
          KpiValue ("Employee Sales") / KpiGoal("Employee Sales") > .74
     THEN 0
     ELSE -1
END
```

Does the solution meet the goal?

A. Yes
B. No

Answer: A

NEW QUESTION 4
- (Topic 4)
You are responsible for installing new database server instances.

You must install Microsoft SQL Server Analysis Services (SSAS) to support deployment of the following projects. You develop both projects by using SQL Server Data Tools.
You need to install the appropriate services to support both projects.
Which two actions should you perform? Each correct answer presents part of the solution.

A. Install one tabular instance of SSAS and enable the Data Mining Extensions.
B. Install one multidimensional instance of SSAS.
C. Install one tabular instance of SSAS.
D. Install a multidimensional instance and a Power Pivot instance of SSAS on the same server.
E. Install two separate tabular instances of SSAS.

Answer: BC

Explanation:
Analysis Services can be installed in one of three server modes: Multidimensional and Data Mining (default), Power Pivot for SharePoint, and Tabular.
References:https://docs.microsoft.com/en-us/sql/analysis-services/comparing-tabular-and-multidimensional-solutions-ssas

NEW QUESTION 5
- (Topic 4)
You are optimizing a Microsoft SQL Server Analysis Services (SSAS) multidimensional model over a SQL Server database. You have a table named City which has several dimensions that do not contain a space in their names. One dimension is named SalesTerritory rather than Sales Territory.
You need to ensure that Report developers can drag the attribute name to the report rather than having to re-label the attributes by implementing spaces. You must minimize administrative effort and not break any upstream processes.
What should you do?

A. In the SQL Server database, run the system procedure sp_rename to rename the columns in the base tables with the target name.
B. In SQL Server Management Studio, navigate to the City table, expand the columns, press F2, and rename the columns in the base tables.
C. In the SQL Server database, implement a SYNONYM.
D. In the SQL Server database, implement a view over the City table that aliases the columns in the tables.

Answer: D

NEW QUESTION 6
- (Topic 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. Determine whether the solution meets the stated goals.
A company has an e-commerce website. When a customer places an order, information about the transaction is inserted into tables in a Microsoft SQL Server relational database named OLTP1. The company has a SQL Server Analysis Services (SSAS) instance that is configured to use Tabular mode. SSAS uses data from OLTP1 to populate a data model.
Sales analysts build reports based on the SSAS model. Reports must be able to access data as soon as it is available in the relational database.
You need to configure and deploy an Analysis Services project to the Analysis Services instance that allows near real-time data source access.
Solution: In the Deployment Option property for the report, you set the Query Mode to DirectQuery with InMemory.
Does the solution meet the goal?

A. Yes
B. No

Answer: A

Explanation:
With DirectQuerywithInMemory mode the queries use the relational data source by default, unless otherwise specified in the connection string from the client.
References:https://msdn.microsoft.com/en-us/library/hh230898(v=sql.120).aspx

NEW QUESTION 7
DRAG DROP - (Topic 4)
You are writing a MDX query to retrieve data from a Microsoft SQL Server Analysis Services (SSAS) cube named Channel Sales. The cube defines two measures named Sales and Cost. The cube also defines a Date dimension and a Product dimension.
You need to retrieve profit values for a year named CY2016.
How should you complete the MDX statement? To answer, drag the appropriate MDX segment to the correct locations. Each MDX 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.

MDX segments

```
WITH MEMBER [Measures].[Profit]
AS ([Sales]-[Cost])
```

```
WITH SET [Measures].[Profit] AS
([Sales]-[Cost])
```

```
WHERE ([Date].[Year].[CY2016])
```

```
WHERE ([Date].[Year] =
[CY2016])
```

Answer Area

```
MDX segment

SELECT
    {[Measures].[Profit]) ON COLUMNS,
    [Product].[Category].[Category].MEMBERS ON ROWS
FROM [Channel Sales]
MDX segment
```

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1:WITH MEMBER…
Box 2:WHERE ([Date].[Year].[CY2016])
References: https://docs.microsoft.com/en-us/sql/analysis-services/multidimensional-models/mdx/working-with-members-tuples-and-sets-mdx

NEW QUESTION 8
- (Topic 4)
You are administrating a SQL Server Analysis Services (SSAS) tabular database.
You need to create a new role that allows its members to query data and to refresh data in the model.
Which permission should you use? (More than one answer choice may achieve the goal. Select the BEST answer.)

A. Browse and Manage
B. Administrator
C. Read and Process
D. Explore and Manage

Answer: C

Explanation:
* Giving a database role permission to process an Analysis Services database means that the role has permission to perform all processing options on the database. This includes the processing of all cubes, dimensions, mining structures, and mining models in the database. However, the role does not have permission to read database metadata or access any data in the database itself.

NEW QUESTION 9
- (Topic 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. Determine whether the solution meets the stated goals.
You have a Microsoft SQL Server Analysis Services (SSAS) multidimensional database that stores customer and order data for customers in the United States only. The database contains the following objects:

Type	Name	Content
Measure	Reseller Average Unit Price	the average unit price of sales
Dimension	Geography	the location of resellers
Hierarchy	Geography.State-Province	the state or province where the reseller is located
Member	Geography.State-Province.&[WA]&[US], Geography.State-Province.&[GA]&[US]	a specific state and country/region

You must create a KPI named Large Sales Target that uses the Traffic Light indicator to display status. The KPI must contain:

Expression type	Description
Value	the reseller average unit price
Goal	the average reseller average unit price for US states other than Colorado (CO)
Status	a green indicator if the value is at least 10 percent above the goal, a red indicator if the value is 15 percent or more below the goal, and a yellow indicator for other values
Trend	the value for trend is always 0

You need to create the KPI.
Solution: You set the value of the Status expression to:

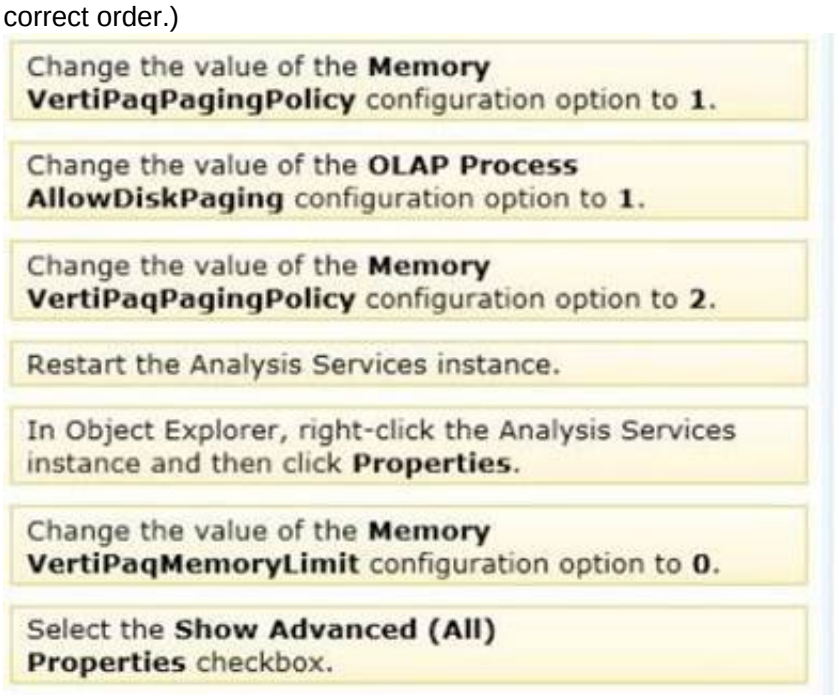
```
Case
     When KpiValue("Large Sales Target")/KpiGoal("Large Sales Target") >= 1.1
          Then 1
     When KpiValue("Large Sales Target")/KpiGoal("Large Sales Target") < 1.1
          And
               KpiValue("Large Sales Target")/KpiGoal("Large Sales Target") > .85
     Then 0
     Else-1
End
```

Does the solution meet the goal?

A. Yes
B. No

Answer: B

NEW QUESTION 10
DRAG DROP - (Topic 4)
You install a SQL Server Analysis Services (SSAS) instance in tabular mode on a server.
While processing a very large tabular model, you receive an out-of-memory error. You identify that the amount of physical memory in the server is insufficient.
Additional physical memory cannot be installed in the server.
You need to configure the server to allow paging to disk by using the operating system page file (pagefile.sys).
Which four 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.)

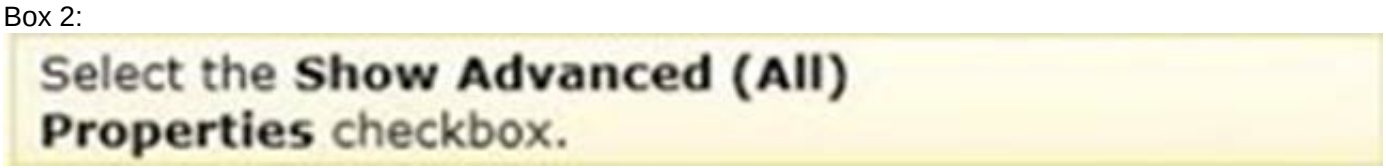


A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1:

Box 2:



Box 3:

Box 4:

Note:
* View or set configuration properties in Management Studio
? In SQL Server Management Studio, connect to an Analysis Services instance. In Object Explorer, right-click the Analysis Services instance, and then clickProperties. The General page appears, displaying the more commonly used properties.
? To view additional properties, click theShow Advanced (All) Propertiescheckbox at the bottom of the page.
Modifying server properties is supported only for tabular mode and multidimensional mode servers. If you installed PowerPivot for SharePoint, always use the default values unless you are directed otherwise by a Microsoft product support engineer.
* VertiPaqPagingPolicy
Specifies the paging behavior in the event the server runs low on memory. Valid values are as follows:
Zero (0) is the default. No paging is allowed. If memory is insufficient, processing fails with an out-of-memory error.
1 enables paging to disk using the operating system page file (pagefile.sys).
When VertiPaqPagingPolicy is set to 1, processing is less likely to fail due to memory constraints because the server will try to page to disk using the method that you specified. Setting the VertiPaqPagingPolicy property does not guarantee that memory errors will never happen. Out of memory errors can still occur under the following conditions:
There is not enough memory for all dictionaries. During processing, Analysis Services locks the dictionaries for each column in memory, and all of these together cannot be more than the value specified for VertiPaqMemoryLimit.
There is insufficient virtual address space to accommodate the process.
To resolve persistent out of memory errors, you can either try to redesign the model to reduce the amount of data that needs processing, or you can add more physical memory to the computer.
Applies to tabular server mode only
* Incorrect: VertiPaqMemoryLimit
If paging to disk is allowed, this property specifies the level of memory consumption (as a percentage of total memory) at which paging starts. The default is 60. If memory
consumption is less than 60 percent, the server will not page to disk.
This property depends on the VertiPaqPagingPolicyProperty, which must be set to 1 in order for paging to occur.
Applies to tabular server mode only.

NEW QUESTION 10
- (Topic 4)
You are developing a tabular Business Intelligence Semantic Model (BISM) database based on a SQL Server database.
In the data source, the FactInternetSales table is partitioned by month. Data from the current month has been updated and new data has been inserted in the FactInternetSales table, in the DimProduct table, and in the DimCustomer table.
In the model, the FactInternetSales table is also partitioned by month.
You need to ensure that the model has the most recent data while minimizing the processing time.
What should you do?

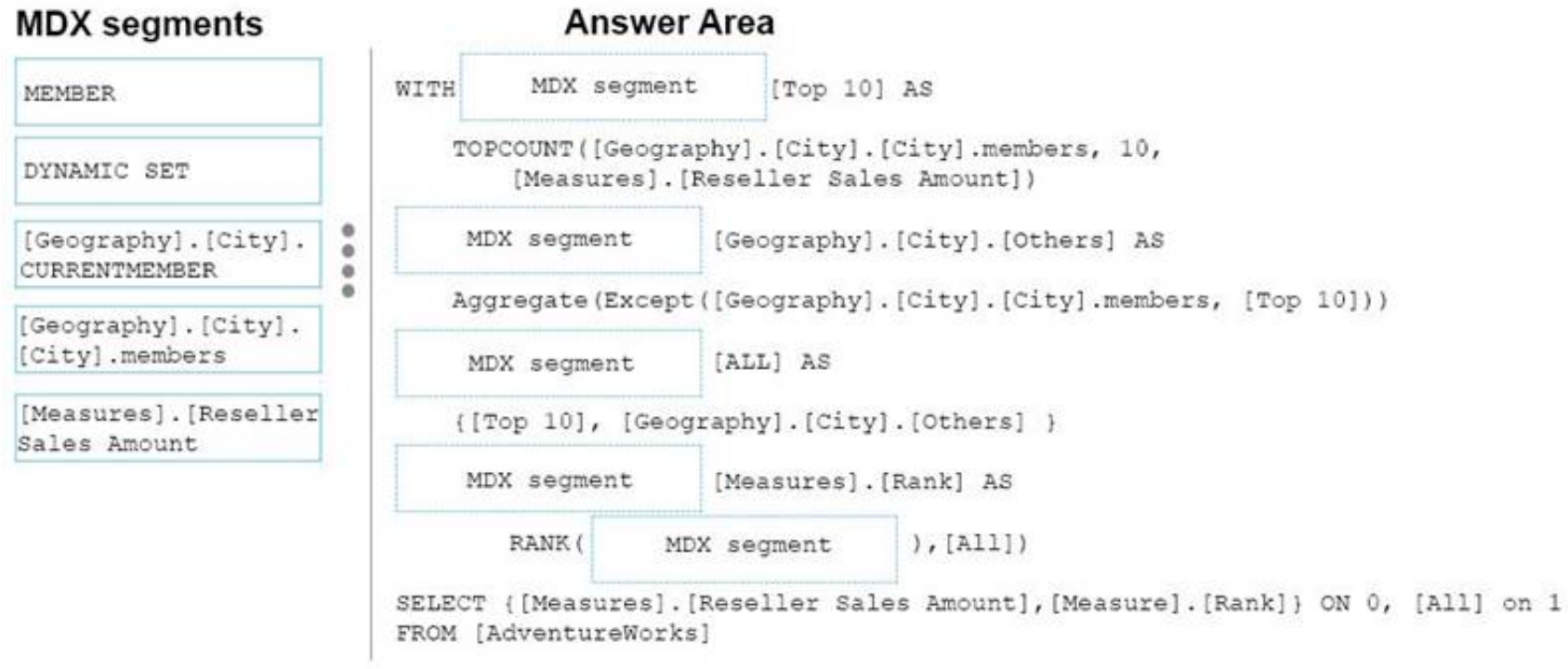
A. Process the latest FactInternetSales model table partition, the DimProduct table, and the DimCustomer table with the Process Clear processing optio
B. Then process the database with the Process Data processing option.
C. Process the latest FactInternetSales model table partition, the DimProduct table, and the DimCustomer table with the Process Clear processing optio
D. Then process the database with the Process Full processing option.
E. Process the latest FactInternetSales model table partition, the DimProduct table, and the DimCustomer table with the Process Defrag processing optio
F. Then process the database with the Process Recalc processing option.
G. Process the latest FactInternetSales model table partition, the DimProduct table, and the DimCustomer table with the Process Data processing optio
H. Then process the database with the Process Defrag processing option.
I. Process the latest FactInternetSales model table partition, the DimProduct table, and the DimCustomer table with the Process Data processing optio
J. Then process the database with the Process Recalc processing option.

Answer: D

NEW QUESTION 11
DRAG DROP - (Topic 4)
You are a business analyst for a retail company that uses a Microsoft SQL Server Analysis Services (SSAS) multidimensional database to track sales. The database contains the following objects:

Type	Name	Content
Measure	Reseller Sales Amount	the total sales made by a reseller
Dimension	Geography	the location of the reseller
Hierarchy	Geography.City	the city where the reseller is located
Member	Geography.City.&[London]&[UK], Geography.City.&[Tokyo]&[JP]	a specific city and region

Your company is developing a promotional plaque to recognize the top resellers in the top 10 cities where the company does business. Each plaque must display the sales total for all resellers in the city. In addition, the plaque must display a total for all cities not in the top 10.
You have the following requirements:
You need to provide the information needed for the promotional plaques.
How should you complete the MDX statement? To answer, drag the appropriate MDX segments to the correct locations. Each MDX 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.



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1:DYNAMIC SET Box 2:MEMBER
Box 3:DYNAMIC SET
Box 4:[Geography].[City].[City].members Box 5:[Measures].[Reseller Sales Amount]
References: https://docs.microsoft.com/en-us/sql/mdx/aggregate-mdx

NEW QUESTION 15
HOTSPOT - (Topic 4)
You are a database administrator in a company that uses Microsoft SharePoint Server for all intranet sites. You are responsible for the installation of new database

server instances.
You must install Microsoft SQL Server Analysis Server (SSAS) to support deployment of the following projects. You develop both projects by using SQL Server Data Tools.
You need to install the appropriate services to support both projects.
What should you do? In the table below, select the appropriate services for each project. NOTE: Make only one selection in each column. Each correct selection is worth one point.

Answer Area

Action	Project1	Project2
Install one tabular instance of SSAS.	○	○
Install one multidimensional instance of SSAS.	○	○
Install a Power Pivot instance of SSAS.	○	○
Install two separate tabular instances of SSAS.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Project1:
Project2: Multidimensional
Note: Analysis Services can be installed in one of three server modes: Multidimensional and Data Mining (default), Power Pivot for SharePoint, and Tabular.

NEW QUESTION 18
- (Topic 4)
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 administer a Microsoft SQL Server Analysis Services (SSAS) tabular model for a retail company. The model is the basis for reports on inventory levels, popular products, and regional store performance.
The company recently split up into multiple companies based on product lines. Each company starts with a copy of the database and tabular model that contains data for a specific product line.
You need to optimize performance of queries that use the copied tabular models while minimizing downtime.
What should you do?

A. Ensure that DirectQuery is enabled for the model.
B. Ensure that DirectQuery is disabled for the model.
C. Ensure that the Transactional Deployment property is set to True.
D. Ensure that the Transactional Deployment property is set to False.
E. Process the model in Process Full mode.
F. Process the model in Process Data mode.
G. Process the model in Process Defrag mode.

Answer: C

Explanation:
The Transactional Deployment setting controls whether the deployment of metadata changes and process commands occurs in a single transaction or in separate transactions. If this option is True (default), Analysis Services deploys all metadata changes and all process commands within a single transaction.
If this option is False, Analysis Services deploys the metadata changes in a single transaction, and deploys each processing command in its own transaction.
References:https://docs.microsoft.com/en-us/sql/analysis-services/multidimensional-models/deployment-script-files-specifying-processing-options

NEW QUESTION 21
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