

Exam Questions 70-768

Developing SQL Data Models (beta)

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NEW QUESTION 1

- (Topic 1)

You need to configure the server to optimize the afternoon report generation based on the OrderAnalysis cube. Which property should you configure?

- A. LowMemoryLimit
- B. VertiPaqPagingPolicy
- C. TotalMemoryLimit
- D. VirtualMemoryLimit

Answer: A

Explanation:

LowMemoryLimit: For multidimensional instances, a lower threshold at which the server first begins releasing memory allocated to infrequently used objects. From scenario: Reports that are generated based on data from the OrderAnalysis cube take more time to complete when they are generated in the afternoon each day. You examine the server and observe that it is under significant memory pressure.

NEW QUESTION 2

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.

Actions		Answer Area
Set the storage mode for the latest partition to ROLAP, and set the storage mode for all other partitions to MOLAP.		
Alter the processing job to run every half during the day.		
Alter the client application that queries the cube to query the dimensional data warehouse directly for current day data.		
Set the storage mode for all partitions to ROLAP.	<div style="display: flex; flex-direction: column; align-items: center; gap: 10px;"> ⬅ ➡ </div>	<div style="display: flex; flex-direction: column; align-items: center; gap: 10px;"> ⬆ ⬇ </div>
Test that the cube meets the functional requirement for data currency and query performance.		
Partition the CoffeSale fact table.		
Set the storage mode for all partitions to HOLAP.		
Alter the processing job to ensure that it rearranges the partition structure each evening.		

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: Partition the CoffeSale fact 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 3

- (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 travel agency that specializes in vacation packages. Vacation bookings and packages are stored in a SQL Server database. You use the model as the basis for customer emails that highlight vacation packages that are currently underbooked, or projected to be underbooked.

The company plans to incorporate cruise ship vacation packages. Cruise ship vacation packages include new features such as region availability and cruise line specialties that require changes to the tabular model.

You must ensure that the tabular model reflects the new vacation packages. You need to configure the tabular data model. 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: E

Explanation:

Process Full processes an Analysis Services object and all the objects that it contains. When Process Full is executed against an object that has already been processed, Analysis Services drops all data in the object, and then processes the object. This kind of processing is required when a structural change has been made to an object, for example, when an attribute hierarchy is added, deleted, or renamed.

NEW QUESTION 4

- (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.

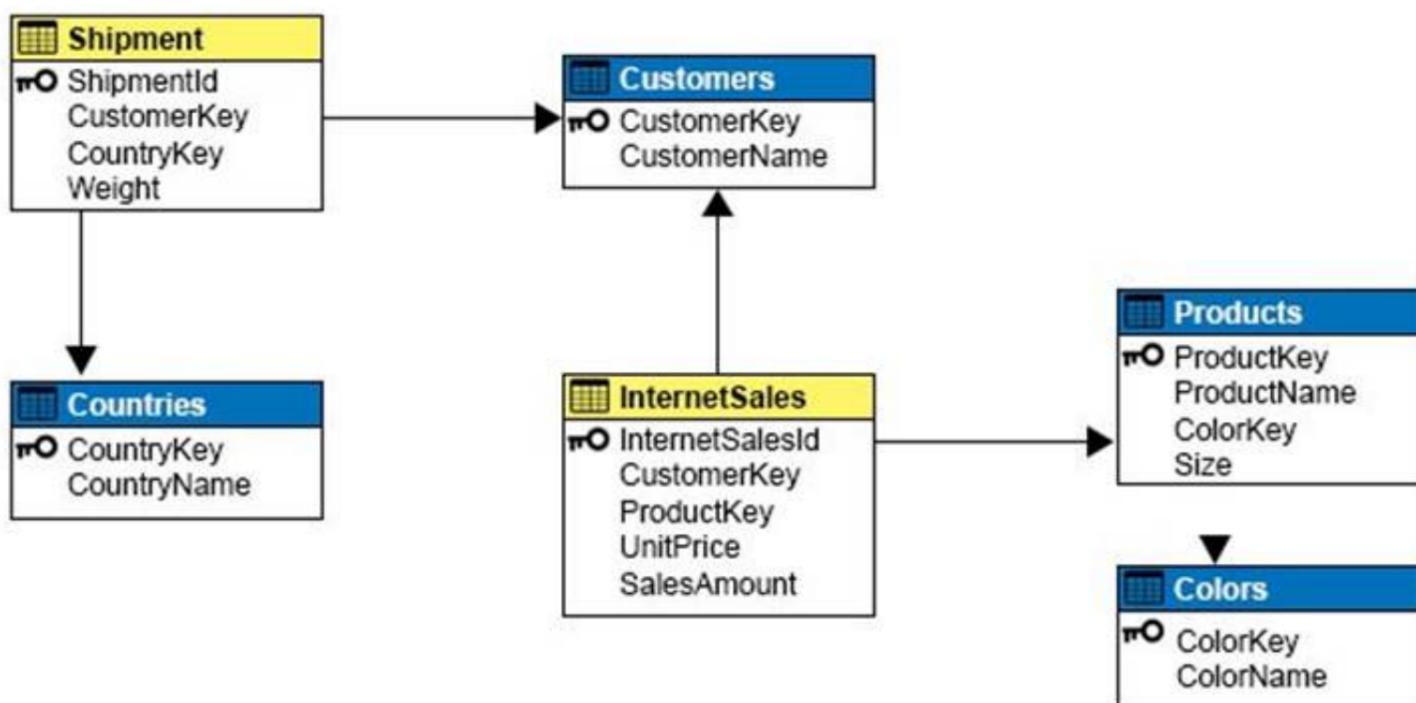
Answer: D

NEW QUESTION 5

- (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 have a Microsoft SQL Server Analysis Services (SSAS) instance that is configured to use multidimensional mode. You create the following cube:



Users need to be able to analyze sales by color. You need to create a dimension that contains all of the colors for products sold by the company. Which relationship type should you use between the InternetSales table and the new dimension?

- A. no relationship
- B. regular
- C. fact
- D. referenced
- E. many-to-many

F. data mining

Answer: B

Explanation:

A regular dimension relationship between a cube dimension and a measure group exists when the key column for the dimension is joined directly to the fact table.
 References: <https://docs.microsoft.com/en-us/sql/analysis-services/multidimensional-models-olap-logical-cube-objects/dimension-relationships>

NEW QUESTION 6

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 7

- (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 8

- (Topic 4)

You are troubleshooting query performance for a SQL Server Analysis Services (SSAS) cube.

A user reports that a Multidimensional Expressions (MDX) query is very slow.

You need to identify the MDX query statement in a trace by using SQL Server Profiler. Which event class should you use?

- A. Get Data From Aggregation
- B. Query Subcube
- C. Query Begin
- D. Progress Report Begin
- E. Calculate Non Empty Begin
- F. Execute MDX Script Begin

Answer: C

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 deploy a tabular data model to an instance of Microsoft SQL Server Analysis Services (SSAS). The model uses an in-memory cache to store and query data.

The data set is already the same size as the available RAM on the server. Data volumes are likely to continue to increase rapidly.

Your data model contains multiple calculated tables.

The data model must begin processing each day at 2:00 and processing should be complete by 4:00 the same day. You observe that the data processing operation often does not complete before 7:00. This is adversely affecting team members.

You need to improve the performance.

Solution: Install solid-state disk drives to store the tabular data model. Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

By default, tabular models use an in-memory cache to store and query data. When tabular models query data residing in-memory, even complex queries can be incredibly fast. However, there are some limitations to using cached data. Namely, large data sets can exceed available memory, and data freshness requirements can be difficult if not impossible to achieve on a regular processing schedule.

DirectQuery overcomes these limitations while also leveraging RDBMS features making query execution more efficient.

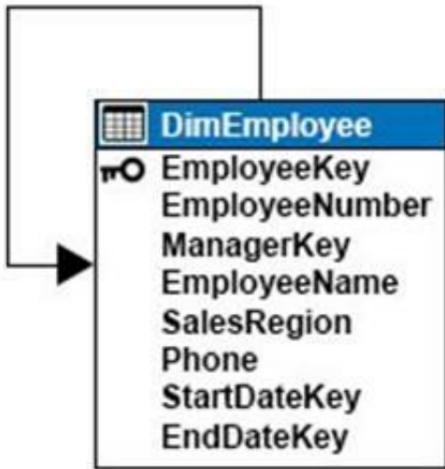
With DirectQuery: +

References:<https://docs.microsoft.com/en-us/sql/analysis-services/tabular-models/directquery-mode-ssas-tabular>

NEW QUESTION 10

HOTSPOT - (Topic 4)

You have a Microsoft SQL Server Analysis Services (SSAS) multidimensional project. You are developing a dimension that uses data from the following table:



The ManagerKey column defines a foreign key constraint that references the EmployeeKey column. The table stores employee history information by using slowly changing dimensions (SCD). Changes to EmployeeName, Phone, or ManagerKey are managed as SCD Type 1 changes. Changes to SalesRegion are managed as SCD Type 2 changes.

You create the following attributes, and set the KeyColumns and NameColumn properties to the columns listed in the table below:

Attribute	KeyColumns	NameColumn
Employee	EmployeeKey	EmployeeName
Employee Number	EmployeeNumber	
Phone	Phone	
Manager	ManagerKey	
Sales Region	SalesRegion	

You need to add a parent-child hierarchy to the dimension to enable navigating the organization hierarchy.

In the table below, identify the attribute that you must use for each attribute usage type. NOTE: Make only one selection in each column.

Answer Area

Attribute	Key	Parent
Employee	<input type="radio"/>	<input type="radio"/>
Employee Number	<input type="radio"/>	<input type="radio"/>
Manager	<input type="radio"/>	<input type="radio"/>
Phone	<input type="radio"/>	<input type="radio"/>
Sales Region	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

The ManagerKey column, the Manager attribute, defines a foreign key constraint that references the EmployeeKey column, the Employee attribute.

NEW QUESTION 10

- (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 ([Measures].[Total Including Tax]) / (SUM([Date].[Calendar Year].CurrentMember.Lag(1), [Measures].[Total Including Tax])) > 0.9
THEN 1
WHEN ([Measures].[Total Including Tax]) / (SUM([Date].[Calendar Year].CurrentMember.Lag(1), [Measures].[Total Including Tax])) <= 0.9
AND
[Measures].[Total Including Tax]) / (SUM([Date].[Calendar Year].CurrentMember.Lag(1), [Measures].[Total Including Tax])) > 0.74
THEN 0
ELSE -1
END
    
```

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 12

- (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 deploy a tabular data model to an instance of Microsoft SQL Server Analysis Services (SSAS). The model uses an in-memory cache to store and query data. The data set is already the same size as the available RAM on the server. Data volumes are likely to continue to increase rapidly.

Your data model contains multiple calculated tables.

The data model must begin processing each day at 2:00 and processing should be complete by 4:00 the same day. You observe that the data processing operation often does not complete before 7:00. This is adversely affecting team members.

You need to improve the performance. Solution: Enable Buffer Cache Extensions. Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

In this scenario we would need both Buffer Cache Extensions and SSD.

The buffer pool extension provides the seamless integration of a nonvolatile random access memory (that is, solid-state drive) extension to the Database Engine buffer pool to significantly improve I/O throughput.

References:<https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/buffer-pool-extension>

NEW QUESTION 15

- (Topic 4)

You are managing a SQL Server Analysis Services (SSAS) tabular database.

The database must meet the following requirements:

? The processing must load data into partitions or tables.

? The processing must not rebuild hierarchies or relationships.

? The processing must not recalculate calculated columns.

You need to implement a processing strategy for the database to meet the requirements. Which processing mode should you use?

- A. Process Clear
- B. Process Data
- C. Process Add
- D. Process Full
- E. Process Default

Answer: C

NEW QUESTION 18

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