



70-768^{Q&As}

Developing SQL Data Models

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QUESTION 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. VertiPagingPolicy
- C. TotalMemoryLimit
- D. VirtualMemoryLimit

Correct Answer: A

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.

QUESTION 2

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

DimEmployee	
EmployeeKey	
EmployeeNumber	
ManagerKey	
EmployeeName	
SalesRegion	
Phone	
StartDateKey	
EndDateKey	

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.

Hot Area:

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"/>

Correct Answer:



Answer Area

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

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

QUESTION 3

You are developing a SQL Server Analysis Services (SSAS) cube.

Revenue must be compared to a goal and described by a status and a trend. Revenue, goal, status, and trend will be defined by Multidimensional Expressions (MDX) expressions.

You need to add the Revenue indicator.

Which tab should you select? (To answer, select the appropriate tab in the work area.)

Hot Area:



Correct Answer:



QUESTION 4

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.

Select and Place:

Actions

- 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.
- Test that the cube meets the functional requirement for data currency and query performance.
- Partition the CoffeeSale 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.

Answer Area



Correct Answer:



Actions

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 HOLAP.

Answer Area

Partition the CoffeSale fact table.

Set the storage mode for all prartitions to ROLAP.

Alter the processing job to ensure that it rearranges the partition structure each evening.

Test that the cube meets the functional requirement for data currency and query performance.



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/multidimensionalmodels-olap-logical-cube-objects/partitions-partition-storage-modes-and-processing>



QUESTION 5

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

Correct Answer: C

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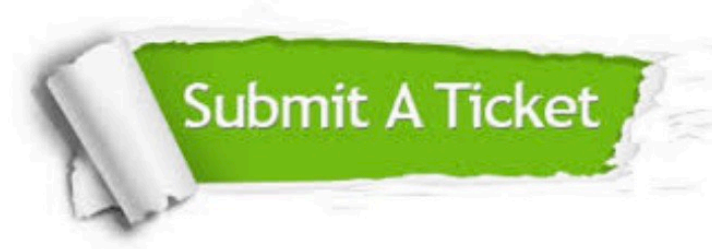
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