



70-768^{Q&As}

Developing SQL Data Models

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QUESTION 1

You need to resolve the issues that the users report.

Which processing options should you use? To answer, drag the appropriate processing option to the correct location or locations. Each processing option 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.

Select and Place:

Processing options

- Process Clear
- Process Update
- Process Index
- Process Default
- Process Data
- Process Full

Answer Area

- Data availability during cube processing**
- Maximum data availability
 - Less than maximum data availability
 - Least data availability

Processing option

- Processing option
- Processing option
- Processing option

Correct Answer:

Processing options

- Process Clear
-
- Process Index
-
- Process Data
-

Answer Area

- Data availability during cube processing**
- Maximum data availability
 - Less than maximum data availability
 - Least data availability

Processing option

- Process Full
- Process Default
- Process Update

Box1: Process Full:

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.



Box 2: Process Default

Detects the process state of database objects, and performs processing necessary to deliver unprocessed or partially processed objects to a fully processed state. If you change a data binding, Process Default will do a Process Full on the affected object.

Box 3:

Not Process Update: Forces a re-read of data and an update of dimension attributes. Flexible aggregations and indexes on related partitions will be dropped.

QUESTION 2

You need to create the cube processing job and the dimension processing job. Which processing task should you use for each job? To answer, drag the appropriate processing tasks to the correct locations. Each processing task 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.

Select and Place:

Processing tasks

- Process Clear
- Process Update
- Process Index
- Process Add
- Process Data
- Process Structure

Answer Area

Job	Processing task
Incremental cube processing	Processing task
Incremental dimension processing	Processing task

Correct Answer:

Processing tasks

- Process Clear
- Process Update
- Process Index
- Process Add
- Process Data
- Process Structure

Answer Area

Job	Processing task
Incremental cube processing	Process Data
Incremental dimension processing	Process Update



Box 1: ProcessData Processes data only without building aggregations or indexes. If there is data in the partitions, it will be dropped before re-populating the partition with source data. Box 2: Process Update Forces a re-read of data and an update of dimension attributes. Flexible aggregations and indexes on related partitions will be dropped. References: <https://docs.microsoft.com/en-us/sql/analysis-services/multidimensionalmodels/processing-options-and-settings-analysis-services>

QUESTION 3

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

Correct Answer: B

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>

QUESTION 4

A database named DB2 uses the InMemory query mode. Users frequently run the following query:



```
EVALUATE
  FILTER (
    ADDCOLUMNS (
      VALUES ('Date' [Calendar Year]),
      "Sales", CALCULATE (SUM ('Internet Sales' [Sales Amount] ) )
    ),
    [Sales] > 8000000
  )
ORDER BY 'Date' [Calendar Year]
```

You need to reconfigure the SSAS instance that hosts DB1.

Which three actions should 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.

Select and Place:

Actions

Set the mode for the FactInternetSales table's partition to **InMemoryWithDirectQuery**.

Set the default mode for the data model to **DirectQuery**.

Set the mode for the FactInternetSales table's partition to **DirectQueryOnly**.

Run **Process Full** for the FactInternetSales partition.

Set the default mode for the data model to **Import**.

Run **Process Clear** for the FactInternetSales partition.

Answer Area



Correct Answer:



Actions

Set the mode for the FactInternetSales table's partition to **InMemoryWithDirectQuery**.

Set the default mode for the data model to **Import**.

Run **Process Clear** for the FactInternetSales partition.

Answer Area

Set the default mode for the data model to **DirectQuery**.

Set the mode for the FactInternetSales table's partition to **DirectQueryOnly**.

Run **Process Full** for the FactInternetSales partition.

Step 1: Set the default mode for the data model to DirectQuery.

You discover that the project has been deployed with the Direct Query Mode option set to OFF.

Step 2: Set the mode for the FactInternetSales table's partition to DirectQueryOnly.

Initially, even DirectQuery models are always created in memory. The default query mode for the workspace database is also set to DirectQuery with In-Memory. This hybrid working mode lets you use the cache of imported data for improved

performance during the model design process, while validating the model against DirectQuery requirements.

From Scenario: Most queries that use the SalesAnalysis data model use data from a table named FactInternetSales that is 20 gigabyte (GB) in size. Cached data must be available for the FactInternetSales table. All queries accessing the

SalesAnalysis model must be executed in near real time.

Step 3: Run Process Full for the FactInternetSales partition.

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

QUESTION 5

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.

Correct Answer: C

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>

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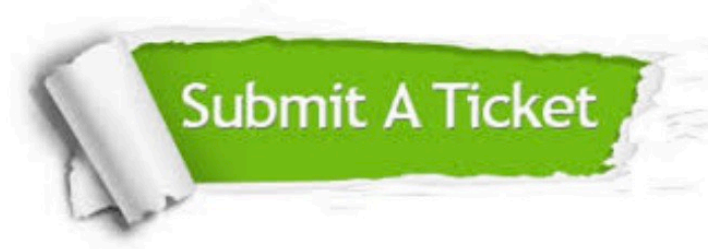
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