



# 70-768<sup>Q&As</sup>

Developing SQL Data Models

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### QUESTION 1

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 InMemory with DirectQuery.

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: B

With InMemory with DirectQuery: Queries use the cache 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](https://msdn.microsoft.com/en-us/library/hh230898(v=sql.120).aspx)

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### QUESTION 2

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.

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### QUESTION 3

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 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 CoffoSale 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 developing a SQL Server Analysis Services (SSAS) tabular project.

A column named City must be added to the table named Customer. The column will be used in the definition of a hierarchy. The City column exists in the Geography table that is related to the Customer table.

You need to add the City column to the Customer table.

How should you write the calculation?

- A. City:= LOOKUP(Geography[City],Geography[GeographyKey],[GeographyKey])
- B. City:= LOOKUPVALUE(Geography[City],Geography[GeographyKey],[GeographyKey]) C  
. =RELATED(Geography[City])
- C. =RELATED(Geography.City)
- D. =VALUES(Geography[City])
- E. City:=VALUES(Geography[City])

Correct Answer: C

Explanation: \* RELATED Function Returns a related value from another table.

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