



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

Developing SQL Data Models

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### QUESTION 1

You are developing a SQL Server Analysis Services (SSAS) tabular project that will be used by the finance, sales, and marketing teams.

The sales team reports that the model is too complex and difficult to use. The sales team does not need any information other than sales-related resources in the tabular model. The finance and marketing teams need to see all the resources in the tabular model.

You need to implement a solution that meets the needs of the sales team while minimizing development and administrative effort. What should you do?

- A. Create a separate partition for each team.
- B. Create a separate data source for each team.
- C. Create a perspective for the sales team.
- D. Enable client side security to filter non-sales data.

Correct Answer: C

### QUESTION 2

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.

Select and Place:

#### 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

```

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

MDX segment

MDX segment

Correct Answer:



### MDX segments

```
WITH SET [Measures].[Profit] AS  
([Sales]-[Cost])  
  
WHERE ([Date].[Year] =  
[CY2016])
```

### Answer Area

```
WITH MEMBER [Measures].[Profit]  
AS ([Sales]-[Cost])  
  
SELECT  
{[Measures].[Profit]} ON COLUMNS,  
[Product].[Category].[Category].MEMBERS ON ROWS  
FROM [Channel Sales]  
  
WHERE ([Date].[Year].[CY2016])
```

Box 1:WITH MEMBER

### 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: Change the storage mode for the data model to DirectQuery.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

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: +



Data is up-to-date, and there is no extra management overhead of having to maintain a separate copy of the data (in the in-memory cache). Changes to the underlying source data can be immediately reflected in queries against the data

model. Datasets can be larger than the memory capacity of an Analysis Services server.

Etc.

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

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

In the data warehouse, a table named Sales Persons and Territories defines a relationship between a salesperson's name, logon ID, and assigned sales territory.

You need to ensure that each salesperson has access to data from only the sales territory assigned to that salesperson. You need to use the least amount of development effort to achieve this goal.

What should you do? (More than one answer choice may achieve the goal. Select the BEST answer.)

- A. Create a new role named Sales Persons with Read permission. Add each salesperson's logon as a member to the role.
- B. Add the Sales Persons and Territories table to the model, define the relationships, and then implement dynamic security by using row filters. Grant each salesperson access to the model.
- C. Create a new Active Directory Domain Services (AD DS) security group and add each salesperson as a member. Then create a new role named Sales Persons with Read permission. Add the group as a member to the new role.
- D. Create a separate tabular model for each sales territory and assign each tabular model a corresponding sales territory name. Grant each salesperson access to the corresponding tabular model of the assigned sales territory.

Correct Answer: B

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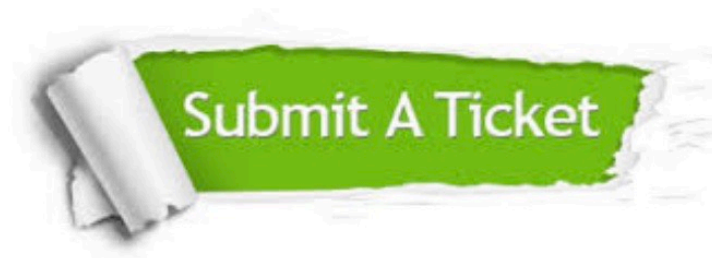
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