



70-768^{Q&As}

Developing SQL Data Models

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QUESTION 1

You are developing a tabular Business Intelligence Semantic Model (BISM) database based on a SQL Server database.

In the data source, the FactInternetSales table is partitioned by month. Data from the current month has been updated and new data has been inserted in the FactInternetSales table, in the DimProduct table, and in the DimCustomer table.

In the model, the FactInternetSales table is also partitioned by month.

You need to ensure that the model has the most recent data while minimizing the processing time.

What should you do?

- A. Process the latest FactInternetSales model table partition, the DimProduct table, and the DimCustomer table with the Process Clear processing option. Then process the database with the Process Data processing option.
- B. Process the latest FactInternetSales model table partition, the DimProduct table, and the DimCustomer table with the Process Clear processing option. Then process the database with the Process Full processing option.
- C. Process the latest FactInternetSales model table partition, the DimProduct table, and the DimCustomer table with the Process Defrag processing option. Then process the database with the Process Recalc processing option.
- D. Process the latest FactInternetSales model table partition, the DimProduct table, and the DimCustomer table with the Process Data processing option. Then process the database with the Process Defrag processing option.
- E. Process the latest FactInternetSales model table partition, the DimProduct table, and the DimCustomer table with the Process Data processing option. Then process the database with the Process Recalc processing option.

Correct Answer: D

QUESTION 2

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 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

You are a business analyst for a retail company that uses a Microsoft SQL Server Analysis Services (SSAS) multidimensional database for reporting. The database contains the following objects:



Type	Name	Content
Measure	Internet Sales Amount	online sales data
Dimension	Date	the date of sales
Hierarchy	Date.Calendar.Calendar Year	the calendar year of the sale
Hierarchy	Date.Calendar.Month	the month of the sale

You must create a report that shows, for each month, the Internet sales for that month and the total Internet sales for the calendar year up to and including the current month. You create the following MDX statement (Line numbers are included for reference only.):

```
01  
02 SELECT  
03   {[Measures].[Internet Sales Amount]}, [Measures].[Goal] on 0,  
04   {[Date].[Calendar].[Month].Members} on 1  
05 FROM [Adventure Works];
```

You need to complete the MDX statement to return data for the report. Which MDX segment should you use in line 01?

- A.
- B.
- C.
- D.

Correct Answer: B

The following example returns the sum of the Measures. [Order Quantity] member, aggregated over the first eight months of calendar year 2003 that are contained in the Date dimension, from the Adventure Works cube.

Copy

```
WITH MEMBER [Date].[Calendar].[First8Months2003] AS Aggregate(
```

```
PeriodsToDate(
```

```
[Date].[Calendar].[Calendar Year],
```

```
[Date].[Calendar].[Month].[August 2003]
```

```
)
```

```
)
```

```
SELECT
```

```
[Date].[Calendar].[First8Months2003] ON COLUMNS,
```

```
[Product].[Category].Children ON ROWS
```

```
FROM
```



[Adventure Works]

WHERE

[Measures].[Order Quantity]

References:<https://docs.microsoft.com/en-us/sql/mdx/aggregate-mdx>

QUESTION 5

You need to configure the SalesAnalysis cube to correct the sales analysis by customer calculation. 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.

Select and Place:

Actions

Configure a relationship between the Customer dimension and the Sales measure group. Use Month as the granularity.

Open the dimension editor, and open the Dimension Usage tab.

Configure a relationship between the Customer dimension and the Sales measure group. Use Day as the granularity.

Open the dimension editor for the Customer dimension.

Open the cube editor, and open the Dimension Usage tab.

Reprocess the Product dimension.

Reprocess the cube.

Deploy the project changes.

Answer Area



Correct Answer:



Actions

Configure a relationship between the Customer dimension and the Sales measure group. Use Month as the granularity.

Open the dimension editor, and open the Dimension Usage tab.

Open the dimension editor for the Customer dimension.

Reprocess the Product dimension.

Answer Area

Open the cube editor, and open the Dimension Usage tab.

Configure a relationship between the Customer dimension and the Sales measure group. Use Day as the granularity.

Reprocess the cube.

Deploy the project changes.



Step 1: Open the cube editor, and open the Dimension Usage tab.

Step 2: Configure a relationship between the Customer dimension and the Sales measure group. Use Day as the granularity.

From scenario: 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.

Step 3: Reprocess the cube.

Step 4: Deploy the project changes.

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