



70-768^{Q&As}

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.

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 2

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)

QUESTION 3

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 4

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.)

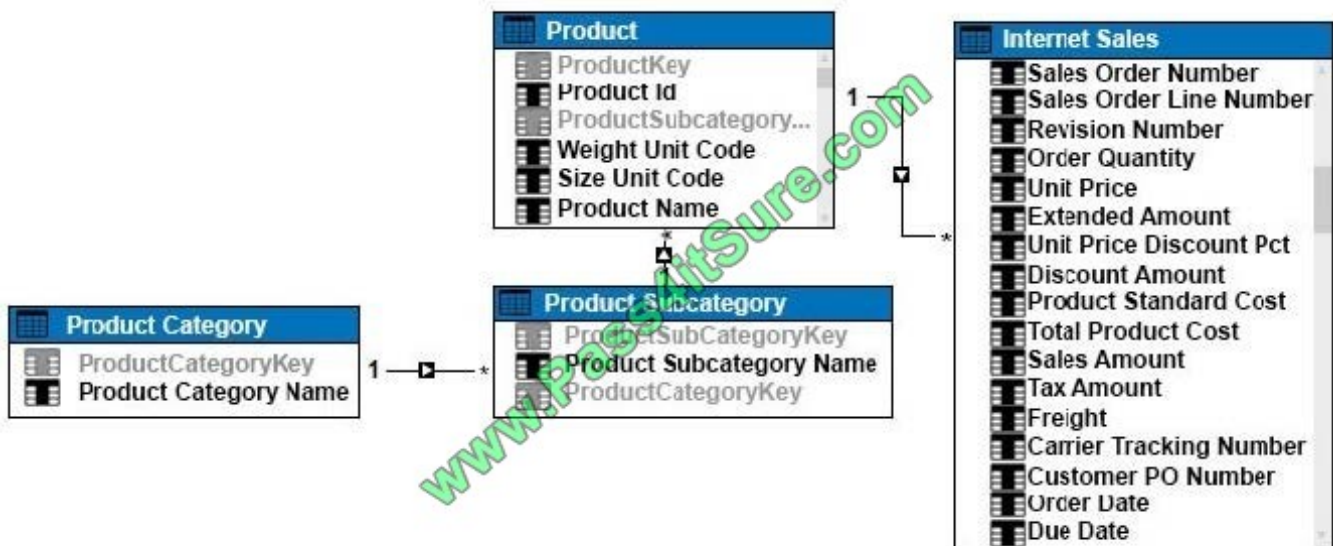


- A. Create a new role named Sales Persons with Read permission. Add each salesperson's logon as a member to the role.
- B. Add the Sales Persons and Territories table to the model, define the relationships, and then implement dynamic security by using row filters. Grant each salesperson access to the 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

QUESTION 5

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



You have been asked to write a query for a report that returns the total sales for each product subcategory, as well as for each product category.

You need to write the query to return the data for the report.

How should you complete the DAX statement? To answer, drag the appropriate DAX segment to the correct locations. Each DAX 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

order by
evaluate
summarize
ROLLUP
SUM
'Product Subcategory' [Product Subcategory Name]
'Product Category' [Product Category Name]

Answer Area

```

DAX segment
(
  DAX segment
  (
    'Internet Sales',
    DAX segment
    (
      DAX segment
    ),
    'Product Category' [Product Category Name],
    "Total Sales Amount", SUM('Internet Sales' [Sales Amount])
  )
)
  
```

Correct Answer:

MDX segments

order by
SUM
'Product Category' [Product Category Name]

Answer Area

```

evaluate
(
  summarize
  (
    'Internet Sales',
    ROLLUP
    (
      'Product Subcategory' [Product Subcategory Name],
      'Product Category' [Product Category Name],
      "Total Sales Amount", SUM('Internet Sales' [Sales Amount])
    )
  )
)
  
```

Box 1:EVALUATE

Box 2:SUMMERIZE

Box 3:ROLLUP

Box 4:\\Product Subcategory\\ [\\Product Subcategory Name]

Note: The behavior of SUMMARIZE is similar to the GROUP BY syntax of a SELECT statement in SQL. For example, consider the following query.

EVALUATE

SUMMARIZE(

'\\Internet Sales\\',



```
\\Internet Sales\\'[Order Date],
```

```
"Sales Amount", SUM( \\Internet Sales\\'[Sales Amount] )
```

```
)
```

This query calculates the total of Sales Amount for each date in which there is at least one

order,

producing this result.

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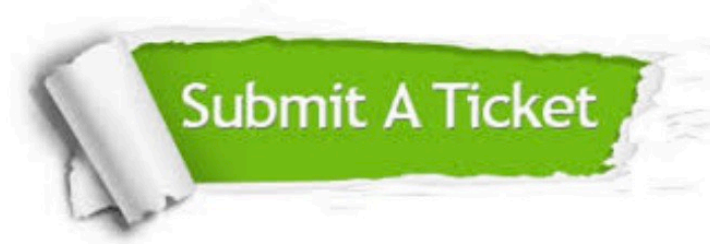
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