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Developing SQL Data Models

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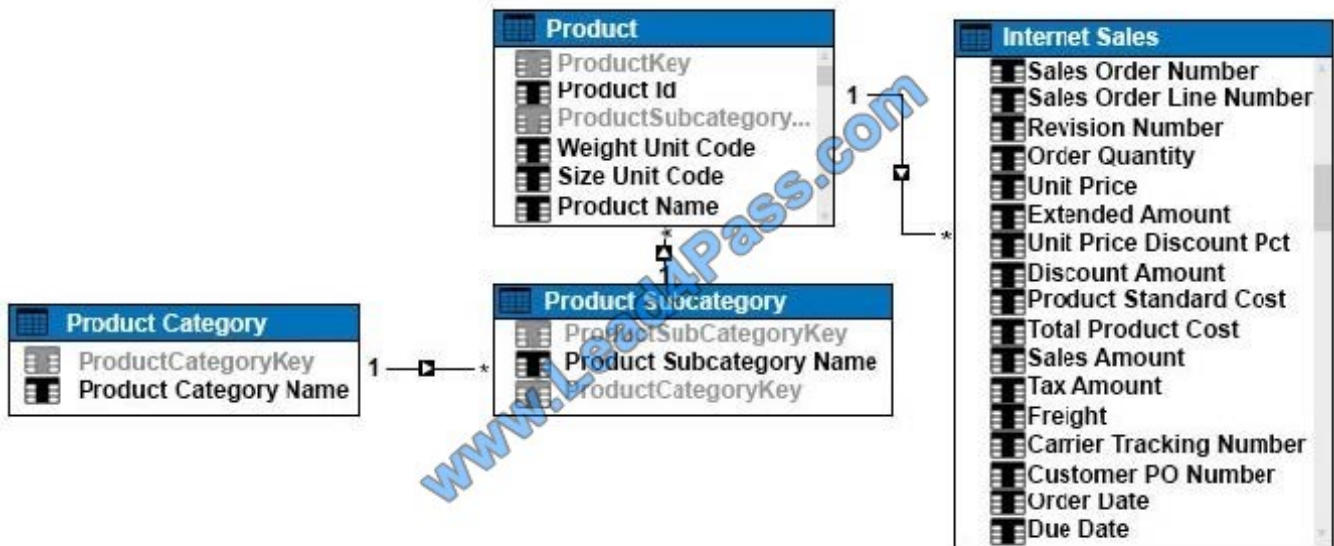Official Exam Center

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QUESTION 1

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.

QUESTION 2

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 dimention 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 dimention 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.

QUESTION 3

A company has a multidimensional cube that is used for analyzing sales data. You add a new measure named Transaction ?Total Including Tax and include the Supplier, Payment Method, and Transaction Type dimensions in the data model. The Transaction ?Total Including Tax measure uses the existing Customer and Date dimensions.

When users have queried the new measure in the past, they saw results as shown in the existing query output exhibit.

(Click the Exhibit button.)

Existing query output

	Row Labels	Total Including Tax	Transactions - Total Including Tax
1		▼	
2	⊟Americas	$198,043,439.45	$2,988,689.65
3	⊟North America	$198,043,439.45	$2,988,689.65
4	⊟United States	$198,043,439.45	$2,988,689.65
5	⊕External	$2,529,291.07	$2,988,689.65
6	⊕Far West	$22,855,077.65	$2,988,689.65
7	⊕Great Lakes	$23,169,368.53	$2,988,689.65
8	⊕Mideast	$29,613,677.16	$2,988,689.65
9	⊕New England	$8,847,961.54	$2,988,689.65
10	⊕Plains	$26,796,087.55	$2,988,689.65
11	⊕Rocky Mountain	$12,734,834.76	$2,988,689.65
12	⊕Southeast	$43,992,233.48	$2,988,689.65
13	⊕Southwest	$27,504,907.71	$2,988,689.65
14	⊕N/A		$2,988,689.65
15	Grand Total	$198,043,439.45	$2,988,689.65

The overall total is incorrectly displayed on every row. In addition, the results are no longer formatted correctly. The query result should appear as shown in the desired query output exhibit. (Click the Exhibit button.)

Desired query output

	Row Labels	Total Including Tax	Transactions - Total Including Tax
1		▼	
2	⊟Americas	$198,043,439.45	
3	⊟North America	$198,043,439.45	
4	⊟United States	$198,043,439.45	
5	⊕External	$2,529,291.07	
6	⊕Far West	$22,855,077.65	
7	⊕Great Lakes	$23,169,368.53	
8	⊕Mideast	$29,613,677.16	
9	⊕New England	$8,847,961.54	
10	⊕Plains	$26,796,087.55	
11	⊕Rocky Mountain	$12,734,834.76	
12	⊕Southeast	$43,992,233.48	
13	⊕Southwest	$27,504,907.71	
14	Grand Total	$198,043,439.45	$2,988,689.65

You need to ensure the table is displayed correctly.

What should you do? Use drop-down menus to select the answer choice that answers each question based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Question	Answer choice
You need to ensure that queries for the new measure return the expected results. What should you do?	▼
	Set the value of the IgnoreUnrelatedDimensions property to True.
	Set the value of the IgnoreUnrelatedDimensions property to False.
	Set the value of the ErrorConfiguration property to Custom.
	Enter a custom MeasureExpression property on the measure.
You need to ensure that the value of the new measure is formatted appropriately as USD. What should you do?	▼
	Set the property FormatString = "#,##0.00;-#,##0.00"
	Set the property FormatString = "#,##0.00 %;-#,##0.00 %"
	Set the property FormatString = $#,##0.00;-$#,##0.00"

Correct Answer:

Answer Area

Question	Answer choice
You need to ensure that queries for the new measure return the expected results. What should you do?	▼
	Set the value of the IgnoreUnrelatedDimensions property to True.
	Set the value of the IgnoreUnrelatedDimensions property to False.
	Set the value of the ErrorConfiguration property to Custom.
	Enter a custom MeasureExpression property on the measure.
You need to ensure that the value of the new measure is formatted appropriately as USD. What should you do?	▼
	Set the property FormatString = "#,##0.00;-#,##0.00"
	Set the property FormatString = "#,##0.00 %;-#,##0.00 %"
	Set the property FormatString = $#,##0.00;-$#,##0.00"

Box 1: Enter a custom MeasureExpression property on the measure Calculated measures use MDX expressions to supply their values, instead of binding to columns in a data source. The Expression property contains the MDX expression used to supply the values for a Measure only if the Measure is a calculated measure. Otherwise, this property contains an empty string ("").

QUESTION 4

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 5

You are deploying a multidimensional Microsoft SQL Server Analysis Services (SSAS) project. You add two new role-playing dimensions named Picker and Salesperson to the cube. Both of the cube dimensions are based upon the

underlying dimension named Employee in the data source view.

Users report that they are unable to differentiate the Salesperson attributes from the Picker attributes.

You need to ensure that the Salesperson and Picker attributes in each dimension use unique names.

In the table below, identify an option that you would use as part of the process to alter the names of the attributes for each of the dimensions.

NOTE: Make only one selection in each column.

Hot Area:

Answer Area

Option	Dimension Picker	Dimension Salesperson
Create a second data source view.		○
Rename the Employee dimension.	○	○
Create a new named query for both dimensions.	○	○

Correct Answer:

Answer Area

Option	Dimension Picker	Dimension Salesperson
Create a second data source view.		○
Rename the Employee dimension.	○	○
Create a new named query for both dimensions.	○	○

A named query is a SQL expression represented as a table. In a named query, you can specify an SQL expression to select rows and columns returned from one or more tables in one or more data sources. A named query is like any other

table in a data source view (DSV) with rows and relationships, except that the named query is based on an expression.

A named query lets you extend the relational schema of existing tables in DSV without modifying the underlying data source.

References: https://docs.microsoft.com/en-us/sql/analysis-services/multidimensionalmodels/define-named-queries-in-a-data-source-view-analysis-services

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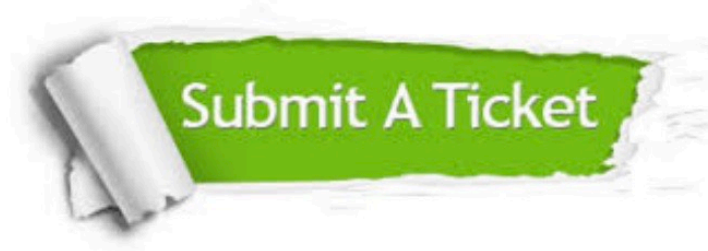Multi-Platform capabilities - Windows, Mac, Android, iPhone, iPod, iPad, Kindle

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