70-768^{Q&As}

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Developing SQL Data Models

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QUESTION 1

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 configure SQL Server Profiler to determine why the query is performing poorly.
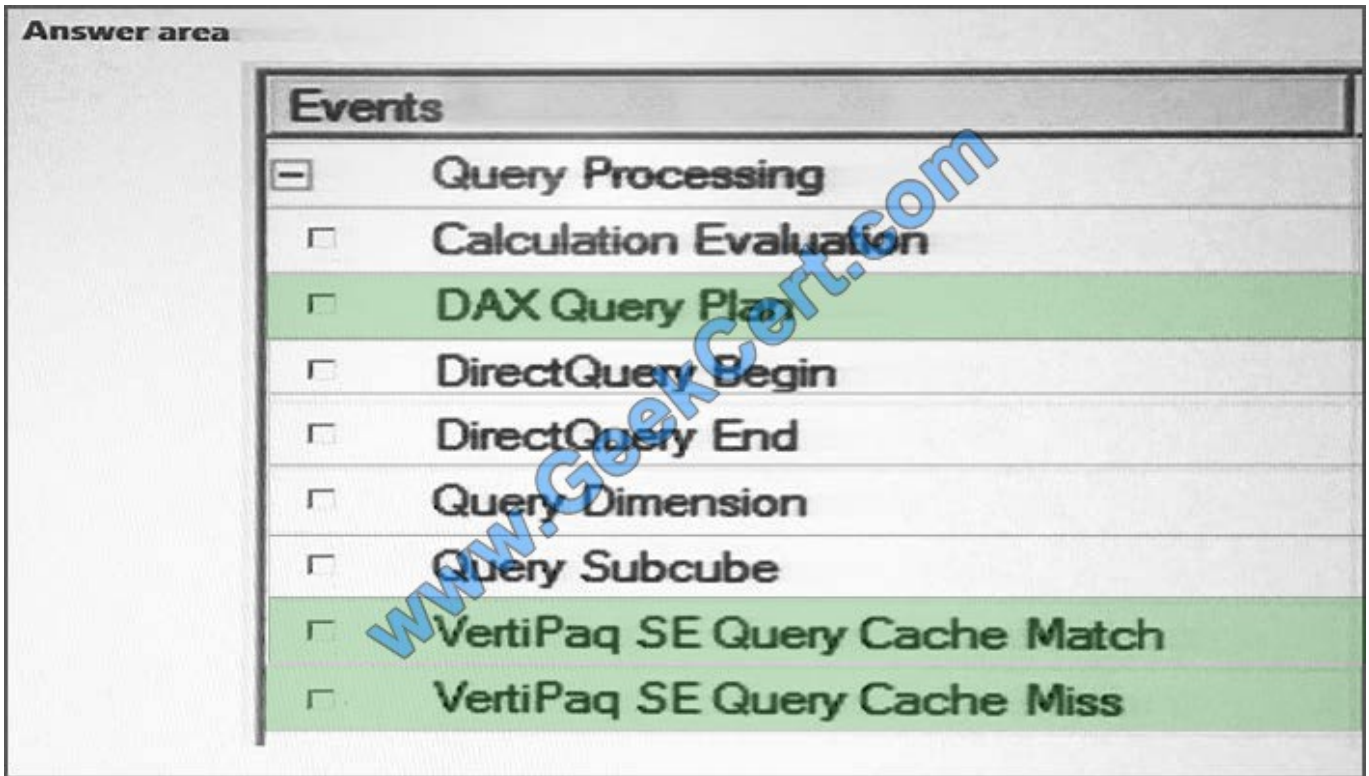
Which three event should you monitor on the SQL Server Profiler trace events configuration page? To answer, select the appropriate options in the answer area.

Hot Area:

Answer area

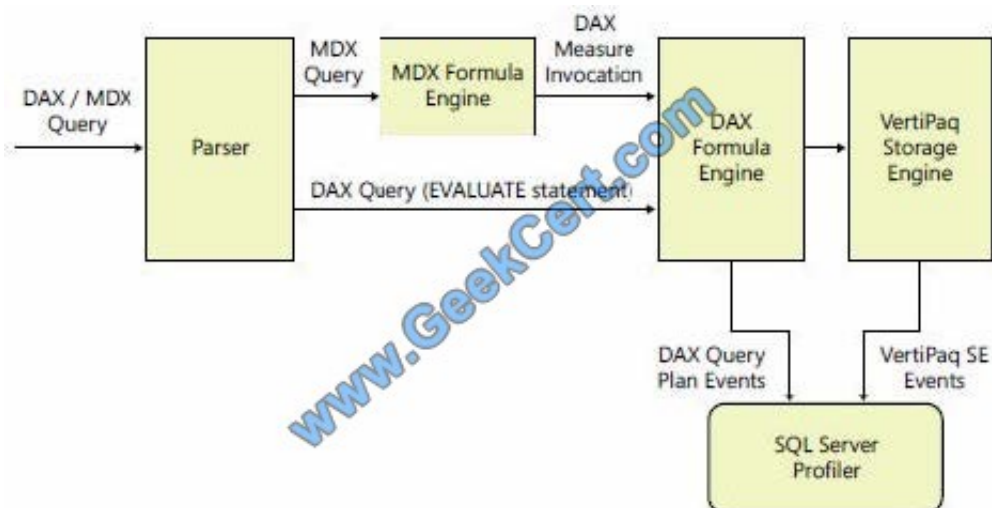| Events |
|--------|
| ⊟ Query Processing |
| ☐ Calculation Evaluation |
| ☐ DAX Query Plan |
| ☐ DirectQuery Begin |
| ☐ DirectQuery End |
| ☐ Query Dimension |
| ☐ Query Subcube |
| ☐ VertiPaq SE Query Cache Match |
| ☐ VertiPaq SE Query Cache Miss |

Correct Answer:

By using SQL Profiler, you can intercept two classes of trace events from Analysis Services, DAX Query Plan and DirectQuery events, both generated by the DirectQuery engine. Here, in this scenario we have a DAX Query.

DAX Query Plan events are generated by the DAX formula.

By using the In-Memory mode, you store a copy of data in the xVelocity (VertiPaq) storage engine.

Figure: This is how a query is executed by using In-Memory mode.

References: Microsoft SQL Server 2012 Analysis Services, The BISM Tabular Model,Microsoft Press (July 2012), page 331 From Scenario: Users report that the query takes a long time to complete.

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.

You have an existing multidimensional cube that provides sales analysis. The users can slice by date, product, location, customer, and employee.

The management team plans to evaluate sales employee performance relative to sales targets. You identify the following metrics for employees:

You need to implement the KPI based on the Status expression.

Solution: You design the following solution:

```
Case
      WHEN KpiValue ("Employee Sales") / KpiGoal("Employee Sales") >= .90
      THEN 1
      WHEN KpiValue ("Employee Sales") / KpiGoal("Employee Sales") < .90
          AND
          KpiValue ("Employee Sales") / KpiGoal("Employee Sales") > .74
      THEN 0
      ELSE -1
END
```

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

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 have a Microsoft SQL Server Analysis Services (SSAS) multidimensional database that stores customer and order data for customers in the United States only. The database contains the following objects:

Type	Name	Content
Measure	Reseller Average Unit Price	the average unit price of sales
Dimension	Geography	the location of resellers
Hierarchy	Geography.State-Province	the state or province where the reseller is located
Member	Geography.State-Province.&[WA]&[US], Geography.State-Province.&[GA]&[US]	a specific state and country/region

You must create a KPI named Large Sales Target that uses the Traffic Light indicator to display status. The KPI must contain:

Expression type	Description
Value	the reseller average unit price
Goal	the average reseller average unit price for US states other than Colorado (CO)
Status	a green indicator if the value is at least 10 percent above the goal, a red indicator if the value is 15 percent or more below the goal, and a yellow indicator for other values
Trend	the value for trend is always 0

You need to create the KPI.

Solution: You set the value of the Status expression to:

```
AVG({
      COUSIN(
            [Geography].[State-Province].&[CO]&[US],
            [Geography].[State-Province].&[CO]
      )
}
[Measures].[Reseller Average Unit Price])
```

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

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.

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

QUESTION 5

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**
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 ("").

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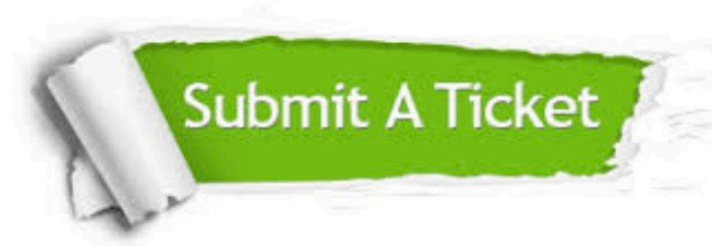
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