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Microsoft Exam Questions 70-768
Developing SQL Data Models (beta)
NEW QUESTION 1
- (Topic 1)
You need to configure the server to optimize the afternoon report generation based on the OrderAnalysis cube. Which property should you configure?

A. LowMemoryLimit
B. VertiPaqPagingPolicy
C. TotalMemoryLimit
D. VirtualMemoryLimit

Answer: A

Explanation:
LowMemoryLimit: For multidimensional instances, a lower threshold at which the server first begins releasing memory allocated to infrequently used objects.

From scenario: Reports that are generated based on data from the OrderAnalysis cube take more time to complete when they are generated in the afternoon each day. You examine the server and observe that it is under significant memory pressure.

NEW QUESTION 2
HOTSPOT - (Topic 3)
A database named DB2 uses the InMemory query mode. Users frequently run the following query:

```plaintext
EVALUATE
    FILTER (ADD_COLUMNS {
        VALUES ('Date' [Calendar Year]),
        'Sales', CALCULATE (SUM ('Internet Sales' [Sales Amount]))
    },
    [Sales] > $000000
)
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 configuration page? To answer, select the appropriate options in the answer area.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
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.
NEW QUESTION 3
- (Topic 4)
You are responsible for installing new database server instances.
You must install Microsoft SQL Server Analysis Services (SSAS) to support deployment of the following projects. You develop both projects by using SQL Server Data Tools.
You need to install the appropriate services to support both projects.
Which two actions should you perform? Each correct answer presents part of the solution.
A. Install one tabular instance of SSAS and enable the Data Mining Extensions.
B. Install one multidimensional instance of SSAS.
C. Install one tabular instance of SSAS.
D. Install a multidimensional instance and a Power Pivot instance of SSAS on the same server.
E. Install two separate tabular instances of SSAS.

Answer: BC

Explanation:
Analysis Services can be installed in one of three server modes: Multidimensional and Data Mining (default), Power Pivot for SharePoint, and Tabular.

NEW QUESTION 4
- (Topic 4)
Note: This question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in this series. Information and details provided in a question apply only to that question.
You administer a Microsoft SQL Server Analysis Services (SSAS) tabular model for a travel agency that specializes in vacation packages. Vacation bookings and packages are stored in a SQL Server database. You use the model as the basis for customer emails that highlight vacation packages that are currently underbooked, or projected to be underbooked.
The company plans to incorporate cruise ship vacation packages. Cruise ship vacation packages include new features such as region availability and cruise line specialties that require changes to the tabular model.
You must ensure that the tabular model reflects the new vacation packages. You need to configure the tabular data model.
What should you do?
A. Ensure that DirectQuery is enabled for the model.
B. Ensure that DirectQuery is disabled for the model.
C. Ensure that the Transactional Deployment property is set to True.
D. Ensure that the Transactional Deployment property is set to False.
E. Process the model in Process Full mode.
F. Process the model in Process Data mode.
G. Process the model in Process Defrag mode.

Answer: E

Explanation:
Process Full processes an Analysis Services object and all the objects that it contains. When Process Full is executed against an object that has already been processed, Analysis Services drops all data in the object, and then processes the object. This kind of processing is required when a structural change has been made to an object, for example, when an attribute hierarchy is added, deleted, or renamed.

NEW QUESTION 5
- (Topic 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 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:

```sql
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

Answer: B

NEW QUESTION 6

- (Topic 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

Answer: B

Explanation:
With InMemory with DirectQuery: Queries use the cache by default, unless otherwise specified in the connection string from the client.

NEW QUESTION 7

- (Topic 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

Answer: B

Explanation:
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:

NEW QUESTION 8

DRAG DROP - (Topic 4)

You are a business analyst for a retail company that uses a Microsoft SQL Server Analysis Services (SSAS) multidimensional database to track sales. The database contains the following objects:
Your company is developing a promotional plaque to recognize the top resellers in the top 10 cities where the company does business. Each plaque must display the sales total for all resellers in the city. In addition, the plaque must display a total for all cities not in the top 10.

You have the following requirements:

You need to provide the information needed for the promotional plaques.

How should you complete the MDX statement? To answer, drag the appropriate MDX segments 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.

**NOTE:** Each correct selection is worth one point.

**MDX segments**

**Answer Area**

<table>
<thead>
<tr>
<th>MDX segment</th>
<th>Answer Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEMBER</td>
<td>WITH TOPCOUNT([Geography].[City].[City].members, 10, [Measures].[Reseller Sales Amount]) AS [Top 10] AS</td>
</tr>
<tr>
<td>DYNAMIC SET</td>
<td>MDX segment [Geography].[City].[Others] AS</td>
</tr>
<tr>
<td>[Geography].[City].[City].members</td>
<td>Aggregate(Except([Geography].[City].[City].members, [Top 10]))</td>
</tr>
<tr>
<td>[Measures].[Reseller Sales Amount]</td>
<td>MDX segment [ALL] AS</td>
</tr>
<tr>
<td>[Top 10], [Geography].[City].[Others]</td>
<td>MDX segment [Measures].[Rank] AS</td>
</tr>
<tr>
<td>RANK( , [ALL])</td>
<td>SELECT ([Measures].[Reseller Sales Amount], [Measure].[Rank]) ON 0, [All] ON 1</td>
</tr>
<tr>
<td>FROM [Adventure Works]</td>
<td></td>
</tr>
</tbody>
</table>

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**

Box 1:DYNAMIC SET Box 2:MEMBER
Box 3:DYNAMIC SET
Box 4:[Geography].[City].[City].members Box 5:[Measures].[Reseller Sales Amount]
References: https://docs.microsoft.com/en-us/sql/mdx/aggregate-mdx

**NEW QUESTION 9**

- (Topic 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 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:

```plaintext
Case
    WHEN ([Measures].[Total Including Tax]) / (SUM([Date].[Calendar Year].CurrentMember.Lag(1), [Measures].[Total Including Tax])) > 0.9
    THEN 1
    WHEN ([Measures].[Total Including Tax]) / (SUM([Date].[Calendar Year].CurrentMember.Lag(1), [Measures].[Total Including Tax])) <= 0.9 AND
        [Measures].[Total Including Tax]) / (SUM([Date].[Calendar Year].CurrentMember.Lag(1), [Measures].[Total Including Tax])) > 0.74
    THEN 0
    ELSE -1
END
```

Does the solution meet the goal?

A. Yes
B. No

**Answer:** B
NEW QUESTION 10
- (Topic 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.

Solution: In the Deployment Option property for the report, you set the Query Mode to InMemory.

Does the solution meet the goal?

A. Yes
B. No

**Answer:** B

**Explanation:**
With InMemory the queries can use the cache only. References: https://msdn.microsoft.com/en-us/library/hh230898(v=sql.120).aspx

NEW QUESTION 11
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