70-768^{Q&As}

Developing SQL Data Models

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QUESTION 1

You are a database administrator in a company that uses Microsoft SharePoint Server for all intranet sites. You are responsible for the installation of new database server instances.

You must install Microsoft SQL Server Analysis Server (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.

What should you do? In the table below, select the appropriate services for each project.

NOTE: Make only one selection in each column. Each correct selection is worth one point.

Hot Area:

Answer Area

Action	Project1	Project2
Install one tabular instance of SSAS.	○	○
Install one multidimensional instance of SSAS.	○	○
Install a Power Pivot instance of SSAS.	○	○
Install two separate tabular instances of SSAS.	○	○

Correct Answer:

Answer Area

Action	Project1	Project2
Install one tabular instance of SSAS.	○	○
Install one multidimensional instance of SSAS.	○	○
Install a Power Pivot instance of SSAS.	○	○
Install two separate tabular instances of SSAS.	○	○

Project1:

Project2: Multidimensional

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

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

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

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QUESTION 3

You need to create the cube processing job and the dimension processing job. Which processing task should you use for each job? To answer, drag the appropriate processing tasks to the correct locations. Each processing task 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:

Processing tasks

- Process Clear
- Process Update
- Process Index
- Process Add
- Process Data
- Process Structure

Answer Area

Job	Processing task
Incremental cube processing	Processing task
Incremental dimension processing	Processing task

Correct Answer:

Processing tasks

- Process Clear
-
- Process Index
- Process Add
-
- Process Structure

Answer Area

Job	Processing task
Incremental cube processing	Process Data
Incremental dimension processing	Process Update

Box 1: ProcessData Processes data only without building aggregations or indexes. If there is data is in the partitions, it will be dropped before re-populating the partition with source data. Box 2: Process Update Forces a re-read of data and an update of dimension attributes. Flexible aggregations and indexes on related partitions will be dropped. References:h ttps://docs.microsoft.com/en-us/sql/analysis-services/multidimensionalmodels/processing-options-and-settings-analysis-services

QUESTION 4

You are developing a SQL Server Analysis Services (SSAS) cube.

Revenue must be compared to a goal and described by a status and a trend. Revenue,

goal, status, and trend will be defined by Multidimensional Expressions (MDX) expressions.

You need to add the Revenue indicator.

Which tab should you select? (To answer, select the appropriate tab in the work area.)

Hot Area:

Correct Answer:

QUESTION 5

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:

Answer area

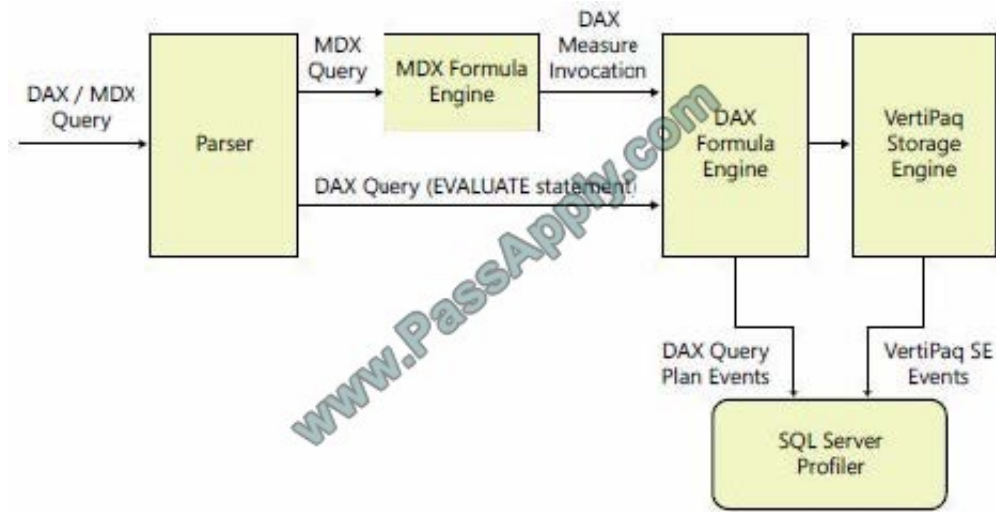| Events |
|---|
| ⊟ Query Processing |
| ☐ Calculation Evaluation |
| ☐ DAX Query Plan |
| ☐ DirectQuery Begin |
| ☐ DirectQuery End |
| ☐ Query Dimension |
| ☐ Query Subcube |
| ☐ VertiPaq SE Query Cache Match |
| ☐ VertiPaq SE Query Cache Miss |

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.

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