

70-768^{Q&As}

Developing SQL Data Models

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QUESTION 1

You maintain SQL Server Analysis Services (SSAS) instances.

You need to configure an installation of PowerPivot for Microsoft SharePoint in a SharePoint farm.

Which tool should you use? (Each correct answer presents a complete solution. Choose all that apply.)

- A. SQL Server Configuration Manager
- B. PowerPivot Configuration Tool
- C. SharePoint Products Configuration Wizard
- D. SharePoint Central Administration
- E. PowerShell

Correct Answer: ABD

QUESTION 2

You are developing a SQL Server Analysis Services (SSAS) tabular project. The model includes a table named Sales. The Sales table includes a single date column.

The Sales table must meet the following requirements:

Queries must be able to return all rows.

Must be able to support four different processing schedules for different date ranges.

Date ranges must not include any overlapping data.

You need to implement a solution that meets the requirements.

What should you do?

- A. Create four partitions for the Sales table. Create four roles. Use the same row filter queries for each role and partition.
- B. Convert the Sales table into four smaller tables by using row filter queries. Use one perspective for all four tables.
- C. Create four partitions for the Sales table. Use row filter queries for each partition.
- D. Convert the Sales table into four smaller tables by using row filter queries. Use one perspective for each of the four tables.

Correct Answer: C

QUESTION 3

You need to configure the project option settings to minimize deployment time for the CustomerAnalysis data model. What should you do? To answer, select the appropriate setting from each list in the answer area.

Hot Area:

Answer Area

Location	Setting								
Processing option	<table border="1"><tr><td></td><td>▼</td></tr><tr><td>Default</td><td></td></tr><tr><td>Do not process</td><td></td></tr><tr><td>Full</td><td></td></tr></table>		▼	Default		Do not process		Full	
	▼								
Default									
Do not process									
Full									
Transactional deployment	<table border="1"><tr><td></td><td>▼</td></tr><tr><td>False</td><td></td></tr><tr><td>True</td><td></td></tr></table>		▼	False		True			
	▼								
False									
True									

Correct Answer:

Answer Area

Location	Setting								
Processing option	<table border="1"><tr><td></td><td>▼</td></tr><tr><td>Default</td><td></td></tr><tr><td>Do not process</td><td></td></tr><tr><td>Full</td><td></td></tr></table>		▼	Default		Do not process		Full	
	▼								
Default									
Do not process									
Full									
Transactional deployment	<table border="1"><tr><td></td><td>▼</td></tr><tr><td>False</td><td></td></tr><tr><td>True</td><td></td></tr></table>		▼	False		True			
	▼								
False									
True									

Scenario:

Box 1, Processing option:Default

Process Default detects the process state of database objects, and performs processing necessary to deliver unprocessed or partially processed objects to a fully processed state. If you change a data binding, Process Default will do a

Process Full on the affected object.

Note: Processing Method This setting controls whether the deployed objects are processed after deployment and the type of processing that will be performed. There are three processing options:

Default processing (default)

Full processing

None

Box 2, Transactional deployment: False

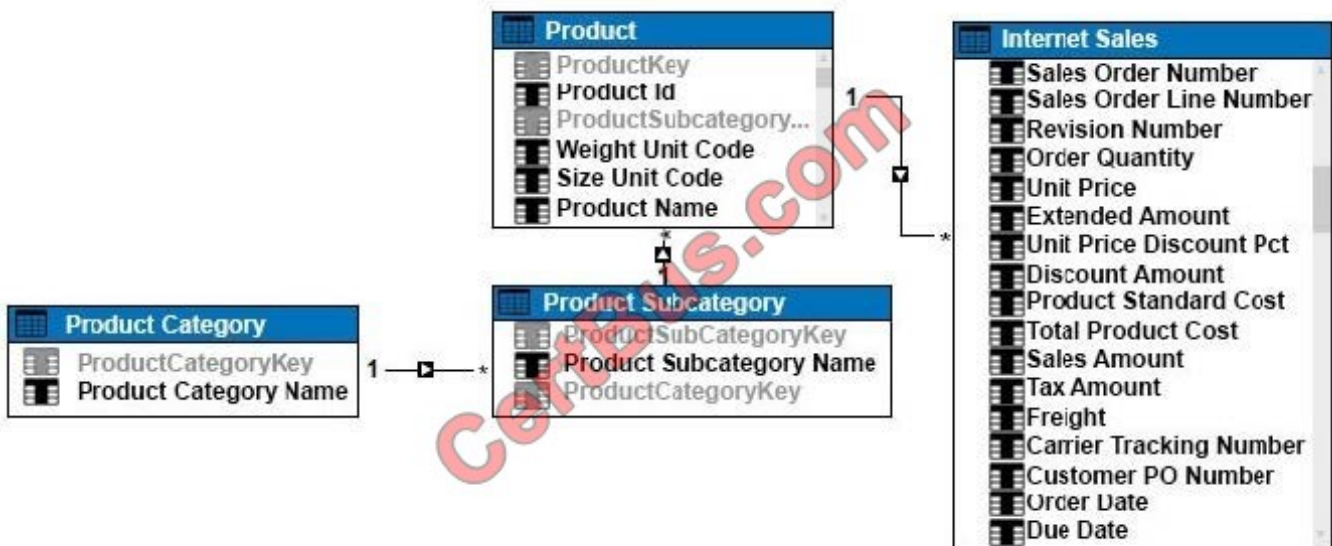
If this option is False, Analysis Services deploys the metadata changes in a single transaction, and deploys each processing command in its own transaction.

Scenario: The CustomerAnalysis data model will contain a large amount of data and needs to be shared with other developers even if a deployment fails. Each time you deploy a change during development, processing takes a long time.

References: <https://docs.microsoft.com/en-us/sql/analysis-services/multidimensionalmodels/deployment-script-files-specifying-processing-options>

QUESTION 4

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 5

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:

```

Case
  When KpiValue("Large Sales Target")/KpiGoal("Large Sales Target") >= 1.1
    Then 1
  When KpiValue("Large Sales Target")/KpiGoal("Large Sales Target") < 1.1
    And
      KpiValue("Large Sales Target")/KpiGoal("Large Sales Target") > .85
    Then 0
  Else-1
End
    
```

Does the solution meet the goal?

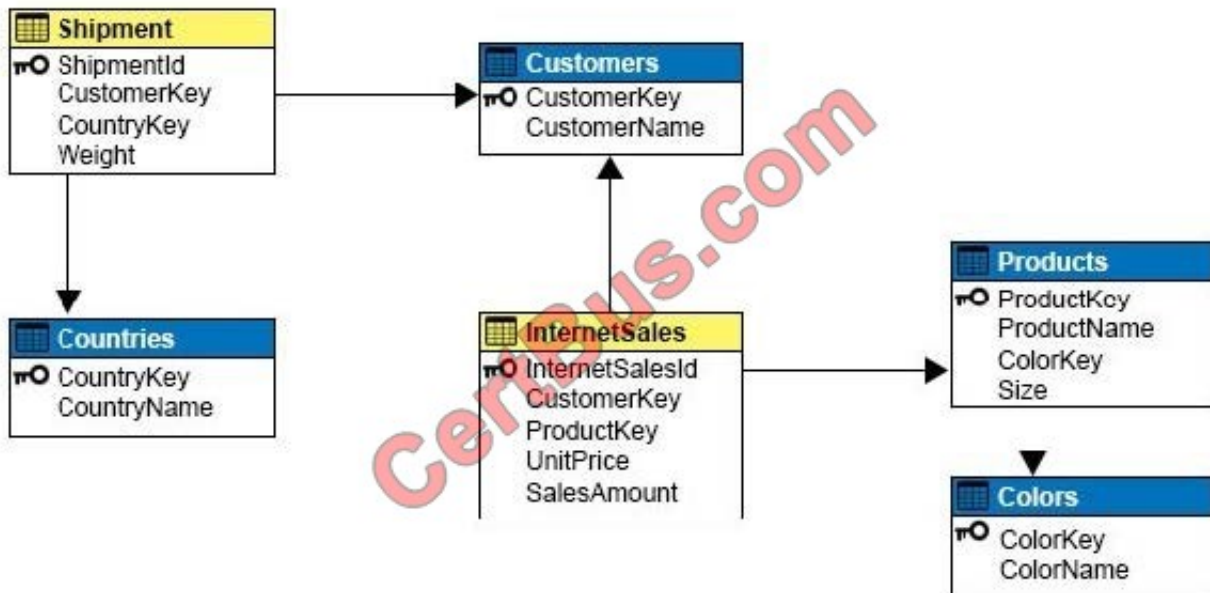
- A. Yes
- B. No

Correct Answer: B

QUESTION 6

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 have a Microsoft SQL Server Analysis Services (SSAS) instance that is configured to use multidimensional mode. You create the following cube:



You need to create a new dimension that allows users to list shipments by the country where the product is shipped. Which relationship type should you use between the Shipment table and the new dimension?

- A. no relationship

- B. regular
- C. fact
- D. referenced
- E. many-to-many
- F. data mining

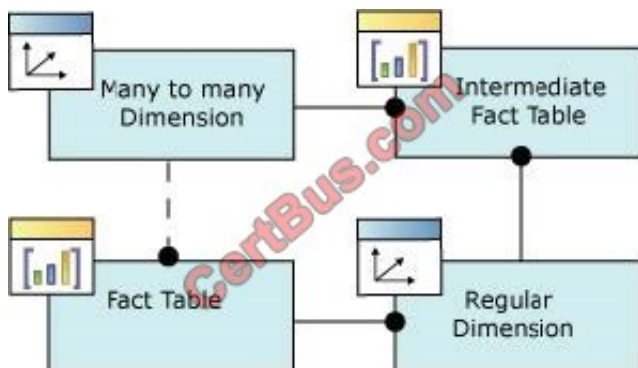
Correct Answer: E

Many to Many Dimension Relationships.

In most dimensions, each fact joins to one and only one dimension member, and a single dimension member can be associated with multiple facts. In relational database terminology, this is referred to as a one-to-many relationship. However,

it is frequently useful to join a single fact to multiple dimension members. For example, a bank customer might have multiple accounts (checking, saving, credit card, and investment accounts), and an account can also have joint or multiple

owners. The Customer dimension constructed from such relationships would then have multiple members that relate to a single account transaction.



References: <https://docs.microsoft.com/en-us/sql/analysis-services/multidimensional-models-olap-logical-cube-objects/dimension-relationships>

QUESTION 7

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: B

QUESTION 8

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](https://msdn.microsoft.com/en-us/library/hh230898(v=sql.120).aspx)

QUESTION 9

You are writing a MDX query to retrieve data from a Microsoft SQL Server Analysis Services (SSAS) cube named

Channel Sales. The cube defines two measures named Sales and Cost. The cube also defines a Date dimension and a Product dimension.

You need to retrieve profit values for a year named CY2016.

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

Select and Place:

MDX segments

```
WITH MEMBER [Measures].[Profit]
AS ([Sales]-[Cost])

WITH SET [Measures].[Profit] AS
([Sales]-[Cost])

WHERE ([Date].[Year].[CY2016])

WHERE ([Date].[Year] =
[CY2016])
```

Answer Area

```
MDX segment

SELECT
{[Measures].[Profit]} ON COLUMNS,
[Product].[Category].[Category].MEMBERS ON ROWS
FROM [Channel Sales]

MDX segment
```

Correct Answer:

MDX segments

```
WITH SET [Measures].[Profit] AS
([Sales]-[Cost])

WHERE ([Date].[Year] =
[CY2016])
```

Answer Area

```
WITH MEMBER [Measures].[Profit]
AS ([Sales]-[Cost])

SELECT
{[Measures].[Profit]} ON COLUMNS,
[Product].[Category].[Category].MEMBERS ON ROWS
FROM [Channel Sales]
WHERE ([Date].[Year].[CY2016])
```

Box 1:WITH MEMBER

QUESTION 10

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 DirectQuery with InMemory.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

With DirectQuerywithInMemory mode the queries use the relational data source 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)

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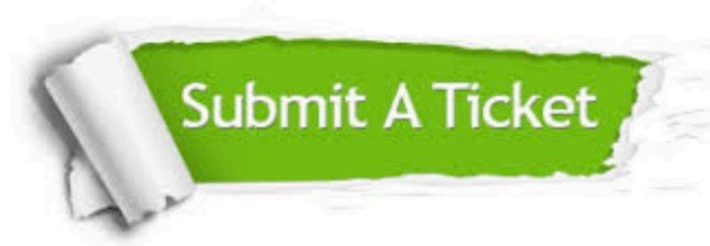
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