



Microsoft

Exam Questions 70-768

Developing SQL Data Models (beta)

NEW QUESTION 1

DRAG DROP - (Topic 1)

You need to resolve the issues that the users report.

Which processing options should you use? To answer, drag the appropriate processing option to the correct location or locations. Each processing option 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.

Processing options

Process Clear

Process Update

Process Index

Process Default

Process Data

Process Full

Answer Area

Data availability during cube processing

Maximum data availability

Less than maximum data availability

Least data availability

Processing option

Processing option

Processing option

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box1: Process Full:

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.

Box 2: 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.

Box 3:

Not Process Update: Forces a re-read of data and an update of dimension attributes. Flexible aggregations and indexes on related partitions will be dropped.

NEW QUESTION 2

DRAG DROP - (Topic 1)

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.

Processing tasks

Process Clear

Process Update

Process Index

Process Add

Process Data

Process Structure

Answer Area

Job

Incremental cube processing

Incremental dimension processing

Processing task

Processing task

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: ProcessData

Processes data only without building aggregations or indexes. If there is data 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:<https://docs.microsoft.com/en-us/sql/analysis-services/multidimensional-models/processing-options-and-settings-analysis-services>

NEW QUESTION 3

HOTSPOT - (Topic 2)

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.

Answer Area

Location	Setting
Processing option	<div>▼</div> <div>Default</div> <div>Do not process</div> <div>Full</div>
Transactional deployment	<div>▼</div> <div>False</div> <div>True</div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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/multidimensional-models/deployment-script-files-specifying-processing-options>

NEW QUESTION 4

- (Topic 3)

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 ensure no users see the PriorYearSales measure in the field list for the Sales table.

What should you do?

- A. Create a perspective, and ensure that the PriorYearSales measure is not added to the perspectiv
- B. Ensure that users connect to the model by using the perspective.
- C. Set the Display Folder property for PriorYearSales toHidden.
- D. Remove the PriorYearSales measure from the default field set of the Sales table.
- E. Create a role using Read permissions, and define a DAX expression to filter out the PriorYearSales measur
- F. Add all users to the role.

Answer: A

Explanation:

Using perspectives in the data model might help you expose a subset of tables, columns, and measures that are useful for a particular type of analysis.

Usually, every user needs only a subset of data you create, and showing him or her the model through perspectives can offer a better user experience.

From scenario; The PriorYearSales measure is referenced by other measures, and is not intended to be analyzed directly by users.

References: Microsoft SQL Server 2012 Analysis Services, The BISM Tabular Model, Microsoft Press (July 2012), page 305

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:

```
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: A

NEW QUESTION 6

- (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.

References: <https://docs.microsoft.com/en-us/sql/analysis-services/comparing-tabular-and-multidimensional-solutions-ssas>

NEW QUESTION 7

HOTSPOT - (Topic 4)

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			
1	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			
1	Row Labels	Total Including Tax	Transactions - Total Including Tax
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.

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"

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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 (").

NEW QUESTION 8

- (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 DirectQuery with InMemory.
Does the solution meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

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)

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 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

Answer: B

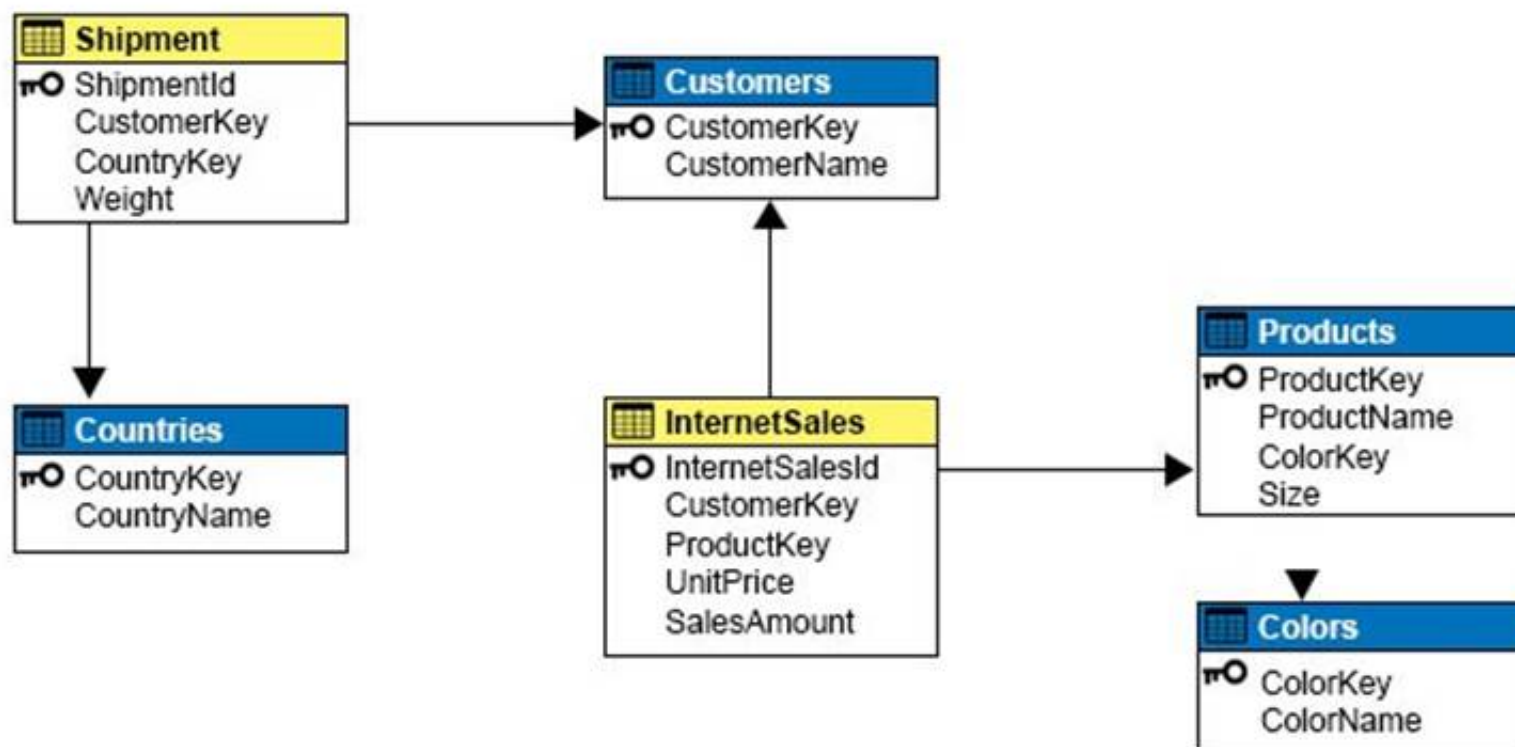
NEW QUESTION 10

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



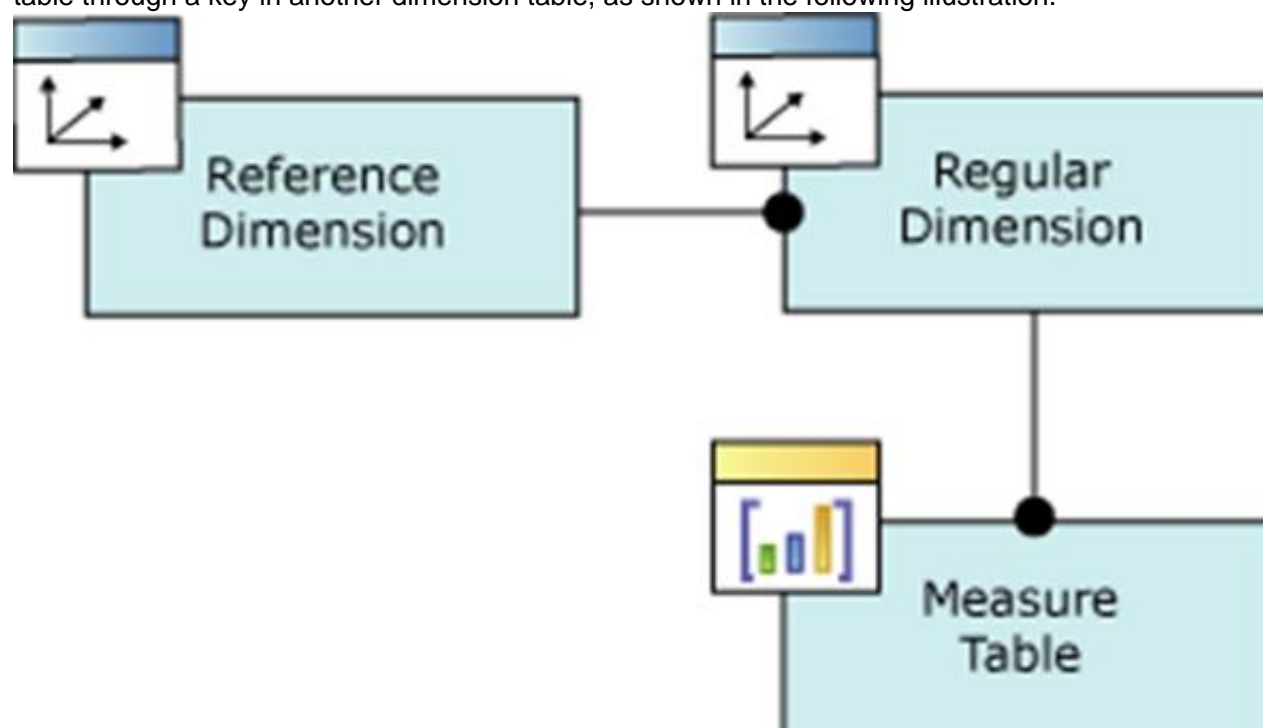
Users need to be able to analyze sales by product and color. You need to create the dimension.
 Which relationship type should you use between the InternetSales table and the new dimension?

- A. no relationship
- B. regular
- C. fact
- D. referenced
- E. many-to-many
- F. data mining

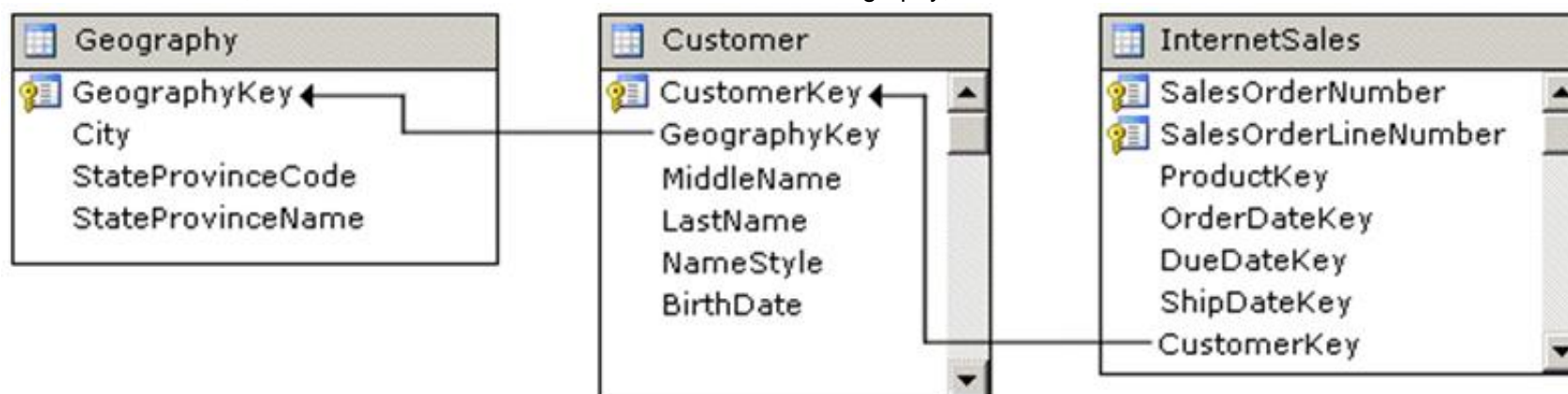
Answer: D

Explanation:

A reference dimension relationship between a cube dimension and a measure group exists when the key column for the dimension is joined indirectly to the fact table through a key in another dimension table, as shown in the following illustration.



A reference dimension relationship represents the relationship between dimension tables and a fact table in a snowflake schema design. When dimension tables are connected in a snowflake schema, you can define a single dimension using columns from multiple tables, or you can define separate dimensions based on the separate dimension tables and then define a link between them using the reference dimension relationship setting. The following figure shows one fact table named InternetSales, and two dimension tables called Customer and Geography, in a snowflake schema.



You can create two dimensions related to the InternetSales measure group: a dimension based on the Customer table, and a dimension based on the Geography table. You can then relate the Geography dimension to the InternetSales measure group using a reference dimension relationship using the Customer dimension.

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.

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: Change the storage mode for the data model to DirectQuery. Does the solution meet the goal?

A. Yes

B. No

Answer: A

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: +

Data is up-to-date, and there is no extra management overhead of having to maintain a separate copy of the data (in the in-memory cache). Changes to the underlying source data can be immediately reflected in queries against the data model.

Datasets can be larger than the memory capacity of an Analysis Services server. Etc.

References:<https://docs.microsoft.com/en-us/sql/analysis-services/tabular-models/directquery-mode-ssas-tabular>

NEW QUESTION 13

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