



70-768^{Q&As}

Developing SQL Data Models

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QUESTION 1

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.

Correct Answer: BC

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>

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 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 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 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 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

Correct Answer: B

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: +

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

QUESTION 5

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:



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