



# 70-768<sup>Q&As</sup>

Developing SQL Data Models

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### QUESTION 1

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)

### 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:

```
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 3

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 retail company. The model is the basis for reports on inventory levels, popular products, and regional store performance.

The company recently split up into multiple companies based on product lines. Each company starts with a copy of the database and tabular model that contains data for a specific product line.

You need to optimize performance of queries that use the copied tabular models while minimizing downtime.

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.

Correct Answer: C

The Transactional Deployment setting controls whether the deployment of metadata changes and process commands occurs in a single transaction or in separate transactions. If this option is True (default), Analysis Services deploys all metadata changes and all process commands within a single transaction.

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

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

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#### 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: Enable Buffer Cache Extensions.

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: B

In this scenario we would need both Buffer Cache Extensions and SSD.



The buffer pool extension provides the seamless integration of a nonvolatile random access memory (that is, solid-state drive) extension to the Database Engine buffer pool to significantly improve I/O throughput.

References:<https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/buffer-pool-extension>

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#### QUESTION 5

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

You need to grant the minimum permissions necessary to enable users to query data in a data model.

Which role permission should you use?

- A. Explorer
- B. Process
- C. Browser
- D. Administrator
- E. Select
- F. Read

Correct Answer: F

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