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Microsoft DP-600 Exam Syllabus Topics:

Topic	Details
Topic 1	• Implement and manage semantic models: This section of the exam measures the skills of architects and focuses on designing and optimizing semantic models to support enterprise-scale analytics. It evaluates understanding of storage modes and implementing star schemas and complex relationships, such as bridge tables and many-to-many joins. Architects must write DAX-based calculations using variables, iterators, and filtering techniques. The use of calculation groups, dynamic format strings, and field parameters is included. The section also includes configuring large semantic models and designing composite models. For optimization, candidates are expected to improve report visual and DAX performance, configure Direct Lake behaviors, and implement incremental refresh strategies effectively.

Topic 2	• Prepare data: This section of the exam measures the skills of engineers and covers essential data preparation tasks. It includes establishing data connections and discovering sources through tools like the OneLake data hub and the real-time hub. Candidates must demonstrate knowledge of selecting the appropriate storage type—lakehouse, warehouse, or eventhouse—depending on the use case. It also includes implementing OneLake integrations with Eventhouse and semantic models. The transformation part involves creating views, stored procedures, and functions, as well as enriching, merging, denormalizing, and aggregating data. Engineers are also expected to handle data quality issues like duplicates, missing values, and nulls, along with converting data types and filtering. Furthermore, querying and analyzing data using tools like SQL, KQL, and the Visual Query Editor is tested in this domain.
Topic 3	• Maintain a data analytics solution: This section of the exam measures the skills of administrators and covers tasks related to enforcing security and managing the Power BI environment. It involves setting up access controls at both workspace and item levels, ensuring appropriate permissions for users and groups. Row-level, column-level, object-level, and file-level access controls are also included, alongside the application of sensitivity labels to classify data securely. This section also tests the ability to endorse Power BI items for organizational use and oversee the complete development lifecycle of analytics assets by configuring version control, managing Power BI Desktop projects, setting up deployment pipelines, assessing downstream impacts from various data assets, and handling semantic model deployments using XMLA endpoint. Reusable asset management is also a part of this domain.

Microsoft Implementing Analytics Solutions Using Microsoft Fabric Sample Questions (Q90-Q95):

NEW QUESTION # 90
You have a Fabric tenant that contains a warehouse named WH1. You run the following T-SQL query against WH1.

```
SELECT e.[WWI Employee ID],
       e.Employee,
       e.[Preferred Name],
       gdr.[WWI Employee ID] AS [Direct Report ID],
       gdr.Employee AS [Direct Report]
FROM Dimension.Employee AS e
OUTER APPLY Dimension.GetDirectReports(e.[Employee Key]) AS gdr;
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Answer Area

Statements	Yes	No
Dimension.GetDirectReports is a scalar T-SQL function.	○	○
The Dimension.GetDirectReports function will run only once when the query runs.	○	○
The output rows will include at least one row for each row in the Dimension.Employee table.	○	○

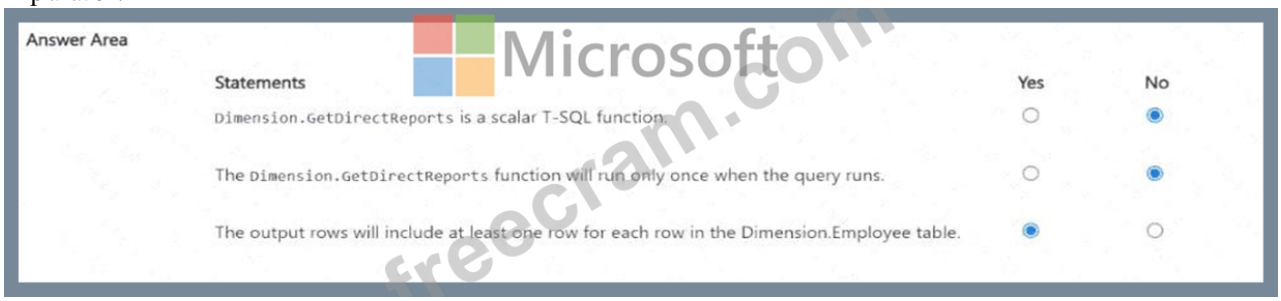
Answer:

Explanation:

Answer Area

Statements	Yes	No
Dimension.GetDirectReports is a scalar T-SQL function.	○	○
The Dimension.GetDirectReports function will run only once when the query runs.	○	○
The output rows will include at least one row for each row in the Dimension.Employee table.	○	○

Explanation:



NEW QUESTION # 91
You have a Fabric tenant that contains a semantic model named Model1. Model1 uses Import mode. Model1 contains a table named Orders. Orders has 100 million rows and the following fields.

Name	Data type	Description
OrderId	Integer	Column imported from the source
OrderDateTime	Date/time	Column imported from the source
Quantity	Integer	Column imported from the source
Price	Decimal	Column imported from the source
TotalSalesAmount	Decimal	Calculated column that multiplies Quantity and Price
TotalQuantity	Integer	Measure

You need to reduce the memory used by Model! and the time it takes to refresh the model. Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct answer is worth one point.

- A. Convert Quantity into the Text data type.
- B. Replace TotalQuantity with a calculated column.
- C. Replace TotalSalesAmount with a measure.
- D. Split OrderDateTime into separate date and time columns.

Answer: B,C

Explanation:
To reduce memory usage and refresh time, splitting the OrderDateTime into separate date and time columns (A) can help optimize the model because date/time data types can be more memory-intensive than separate date and time columns. Moreover, replacing TotalSalesAmount with a measure (D) instead of a calculated column ensures that the calculation is performed at query time, which can reduce the size of the model as the value is not stored but calculated on the fly. References = The best practices for optimizing Power BI models are detailed in the Power BI documentation, which recommends using measures for calculations that don't need to be stored and adjusting data types to improve performance.

NEW QUESTION # 92
You have a Fabric tenant that contains a warehouse.
A user discovers that a report that usually takes two minutes to render has been running for 45 minutes and has still not rendered.
You need to identify what is preventing the report query from completing.
Which dynamic management view (DMV) should you use?

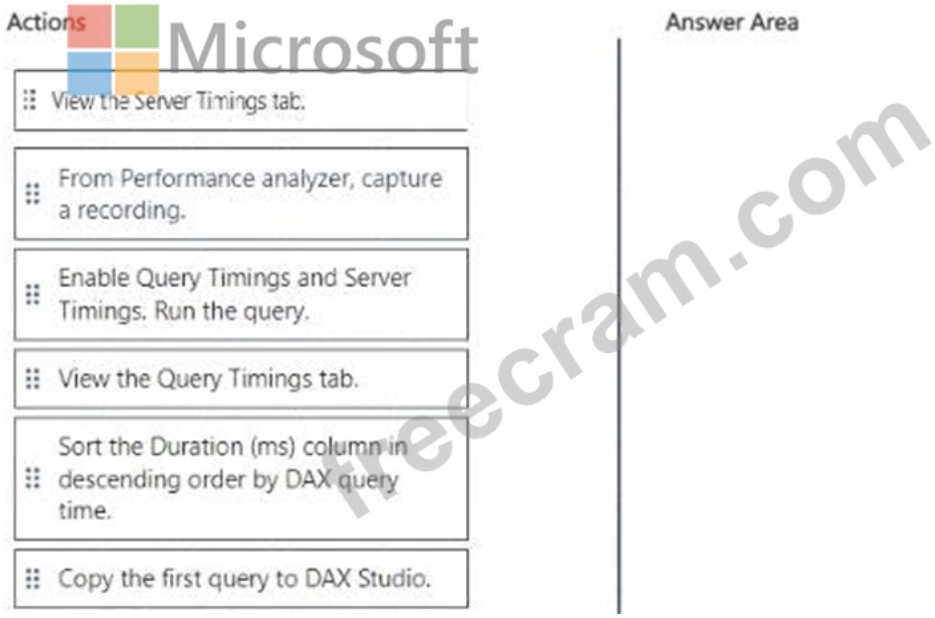
- A. sys.dm_exec._connections
- B. sys.dm_pdw_exec_requests
- C. sys.dn_.exec._sessions
- D. sys.dm-exec_requests

Answer: B

Explanation:
The correct DMV to identify what is preventing the report query from completing is sys.dm_pdw_exec_requests (D). This DMV is specific to Microsoft Analytics Platform System (previously known as SQL Data Warehouse), which is the environment assumed to be used here. It provides information about all queries and load commands currently running or that have recently run. Reference = You can find more about DMVs in the Microsoft documentation for Analytics Platform System.

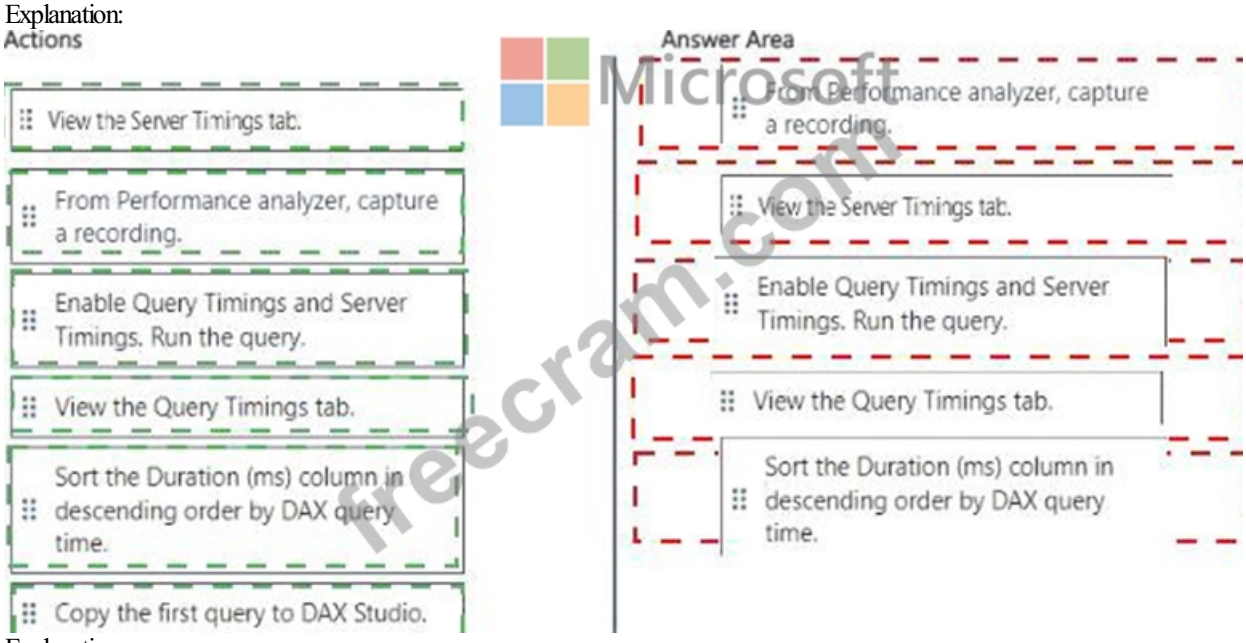
NEW QUESTION # 93

You have a Fabric tenant that contains a Microsoft Power Bl report named Report 1.
Report1 is slow to render. You suspect that an inefficient DAX query is being executed.
You need to identify the slowest DAX query, and then review how long the query spends in the formula engine as compared to the storage engine.
Which five actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.



Answer:

Explanation:



Explanation:
To identify the slowest DAX query and analyze the time it spends in the formula engine compared to the storage engine, you should perform the following actions in sequence:
* From Performance analyzer, capture a recording.
* View the Server Timings tab.
* Enable Query Timings and Server Timings. Run the query.
* View the Query Timings tab.
* Sort the Duration (ms) column in descending order by DAX query time.

NEW QUESTION # 94
You have a Fabric tenant that contains 30 CSV files in OneLake. The files are updated daily.

You create a Microsoft Power Bl semantic model named Modell that uses the CSV files as a data source. You configure incremental refresh for Model 1 and publish the model to a Premium capacity in the Fabric tenant.
When you initiate a refresh of Modell, the refresh fails after running out of resources.
What is a possible cause of the failure?

- A. Query folding is occurring.
- B. Only refresh complete days is selected.
- C. Query folding is NOT occurring.
- D. The data type of the column used to partition the data has changed.
- E. XMLA Endpoint is set to Read Only.

Answer: D

NEW QUESTION # 95
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