

## DP-600<sup>Q&As</sup>

Implementing Analytics Solutions Using Microsoft Fabric

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## QUESTION 1

You have a Fabric tenant that contains a takehouse named lakehouse1. Lakehouse1 contains a Delta table named Customer.

When you query Customer, you discover that the query is slow to execute. You suspect that maintenance was NOT performed on the table.

You need to identify whether maintenance tasks were performed on Customer.

Solution: You run the following Spark SQL statement:

```
DESCRIBE HISTORY customer
```

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

Explanation: Yes, the DESCRIBE HISTORY statement does meet the goal. It provides information on the history of operations, including maintenance tasks, performed on a Delta table. References = The functionality of the DESCRIBE HISTORY statement can be verified in the Delta Lake documentation.

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## QUESTION 2

You have a Fabric tenant that contains a lakehouse named lakehouse1. Lakehouse1 contains an unpartitioned table named Table1.

You plan to copy data to Table1 and partition the table based on a date column in the source data.

You create a Copy activity to copy the data to Table1.

You need to specify the partition column in the Destination settings of the Copy activity.

What should you do first?

A. From the Destination tab, set Mode to Append.

B. From the Destination tab, select the partition column,

C. From the Source tab, select Enable partition discovery

D. From the Destination tab, set Mode to Overwrite.

Correct Answer: A

Explanation: Before specifying the partition column in the Destination settings of the Copy activity, you should set Mode to Append (A). This will allow the Copy activity to add data to the table while taking the partition column into account. References = The configuration options for Copy activities and partitioning in Azure Data Factory, which are applicable to Fabric dataflows, are outlined in the official Azure Data Factory documentation.

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**QUESTION 3**

You have a Fabric workspace that contains a DirectQuery semantic model. The model queries a data source that has 500 million rows.

You have a Microsoft Power BI report named Report1 that uses the model. Report1 contains visuals on multiple pages.

You need to reduce the query execution time for the visuals on all the pages.

What are two features that you can use? Each correct answer presents a complete solution.

NOTE: Each correct answer is worth one point.

- A. user-defined aggregations
- B. automatic aggregation
- C. query caching
- D. OneLake integration

Correct Answer: AC

Explanation: User-defined aggregations (A) and query caching (C) are two features that can help reduce query execution time. User-defined aggregations allow precalculation of large datasets, and query caching stores the results of queries temporarily to speed up future queries. References = Microsoft Power BI documentation on performance optimization offers in-depth knowledge on these features.

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**QUESTION 4**

You have a Fabric tenant named Tenant1 that contains a workspace named WS1. WS1 uses a capacity named C1 and contains a dataset named DS1. You need to ensure read-write access to DS1 is available by using the XMLA endpoint. What should be modified first?

- A. the DS1 settings
- B. the WS1 settings
- C. the C1 settings
- D. the Tenant1 settings

Correct Answer: C

Explanation: To ensure read-write access to DS1 is available by using the XMLA endpoint, the C1 settings (which refer to the capacity settings) should be modified first. XMLA endpoint configuration is a capacity feature, not specific to individual datasets or workspaces. References = The configuration of XMLA endpoints in Power BI capacities is detailed in the Power BI documentation on dataset management.

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**QUESTION 5**

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\_requests
- B. sys.dm\_exec\_sessions
- C. sys.dm\_exec\_connections
- D. sys.dm\_pdw\_exec\_requests

Correct Answer: D

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. References = You can find more about DMVs in the Microsoft documentation for Analytics Platform System.

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