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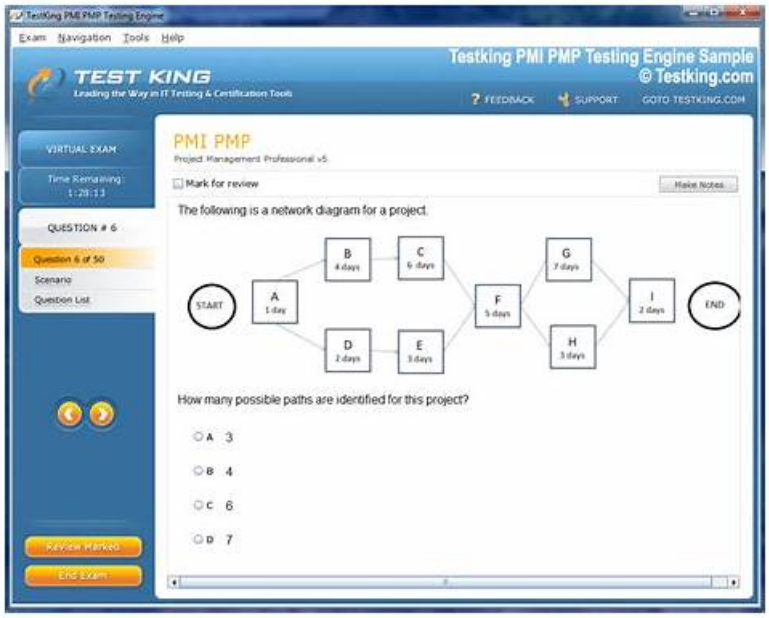

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Microsoft DP-800 Exam Syllabus Topics:

Topic	Details
Topic 1	• Secure, optimize, and deploy database solutions: This domain focuses on implementing data security measures like encryption, masking, and row-level security, optimizing query performance, managing CI • CD pipelines using SQL Database Projects, and integrating SQL solutions with Azure services including Data API builder and monitoring tools.
Topic 2	• Implement AI capabilities in database solutions: This domain covers designing and managing external AI models and embeddings, implementing full-text, semantic vector, and hybrid search strategies, and building retrieval-augmented generation (RAG) solutions that connect database outputs with language models.
Topic 3	• Design and develop database solutions: This domain covers designing and building database objects such as tables, views, functions, stored procedures, and triggers, along with writing advanced T-SQL code and leveraging AI-assisted tools like GitHub Copilot and MCP for SQL development.

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Reliable DP-800 Exam Torrent: Developing AI-Enabled Database Solutions - DP-800 Test Braindumps - CertkingdomPDF

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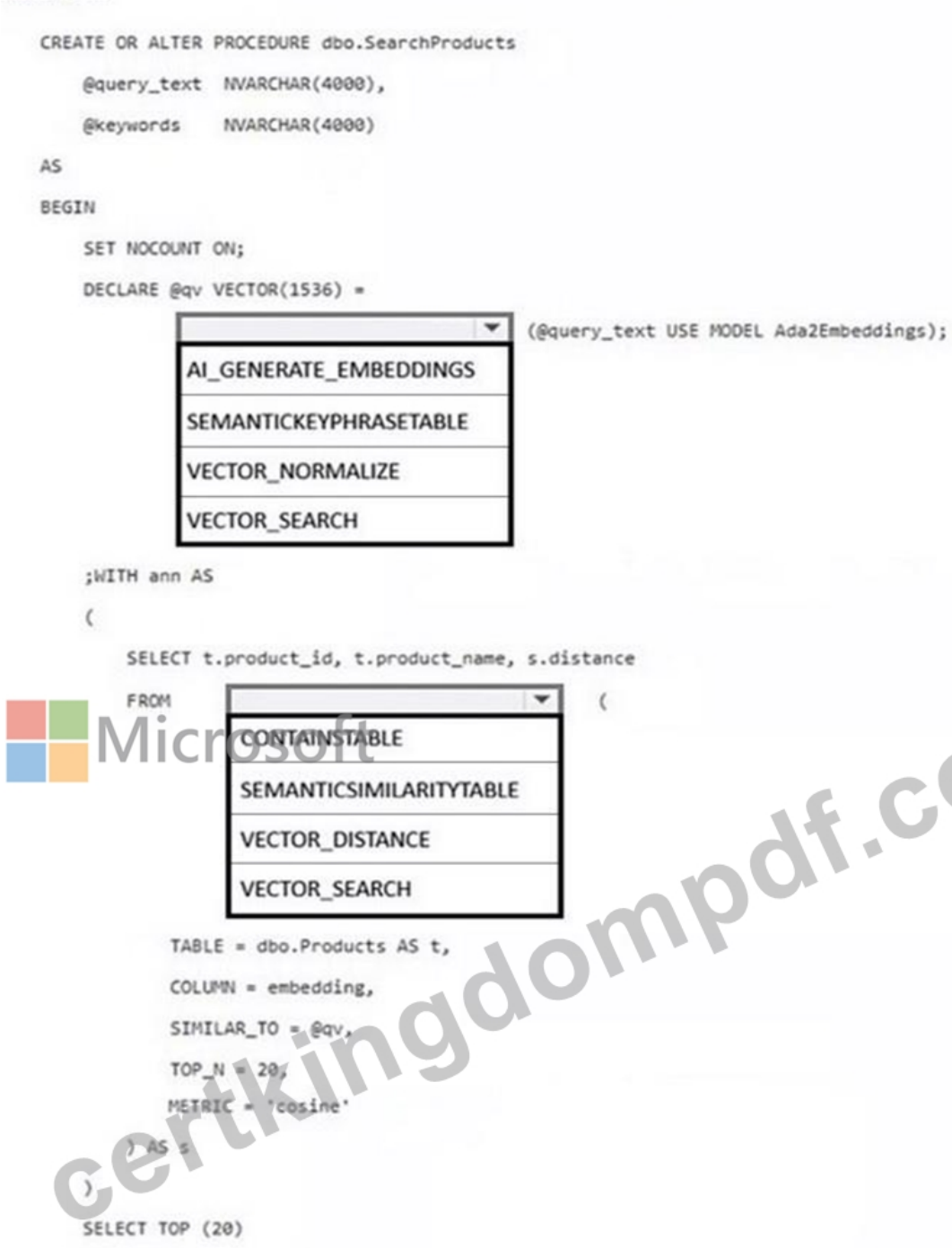
Microsoft Developing AI-Enabled Database Solutions Sample Questions (Q54-Q59):

NEW QUESTION # 54
Hotspot Question
You have a SQL database in Microsoft Fabric that contains a table named dbo.Products.
dbo.Products contains product catalog data.
You need to create a stored procedure that performs hybrid search. The solution must meet the following requirements:
- Use approximate nearest neighbor (ANN) to retrieve the top 20
candidate products.
- Re-rank only the candidates that also match a full-text query.
- Generate the query embedding.
How should you complete the Transact-SQL code? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.



```
        t.product_id,
        t.product_name,
        ann.distance,
        fts.RANK AS text_rank
    FROM ann
    JOIN dbo.Products AS t
        ON t.product_id = ann.product_id
    JOIN [                    ] (dbo.Products, description, @keywords) AS fts
        ON t.product_id = fts.[KEY]
    ORDER BY (ann.distance * 0.6) + ((1.0 - fts.RANK/1000.0) * 0.4);
END;
GO
```

- CONTAINSTABLE
- FREETEXTTABLE
- SEMANTICKEYPHRASETABLE
- SEMANTICSIMILARITYDETAILSTABLE

Answer:

Explanation:

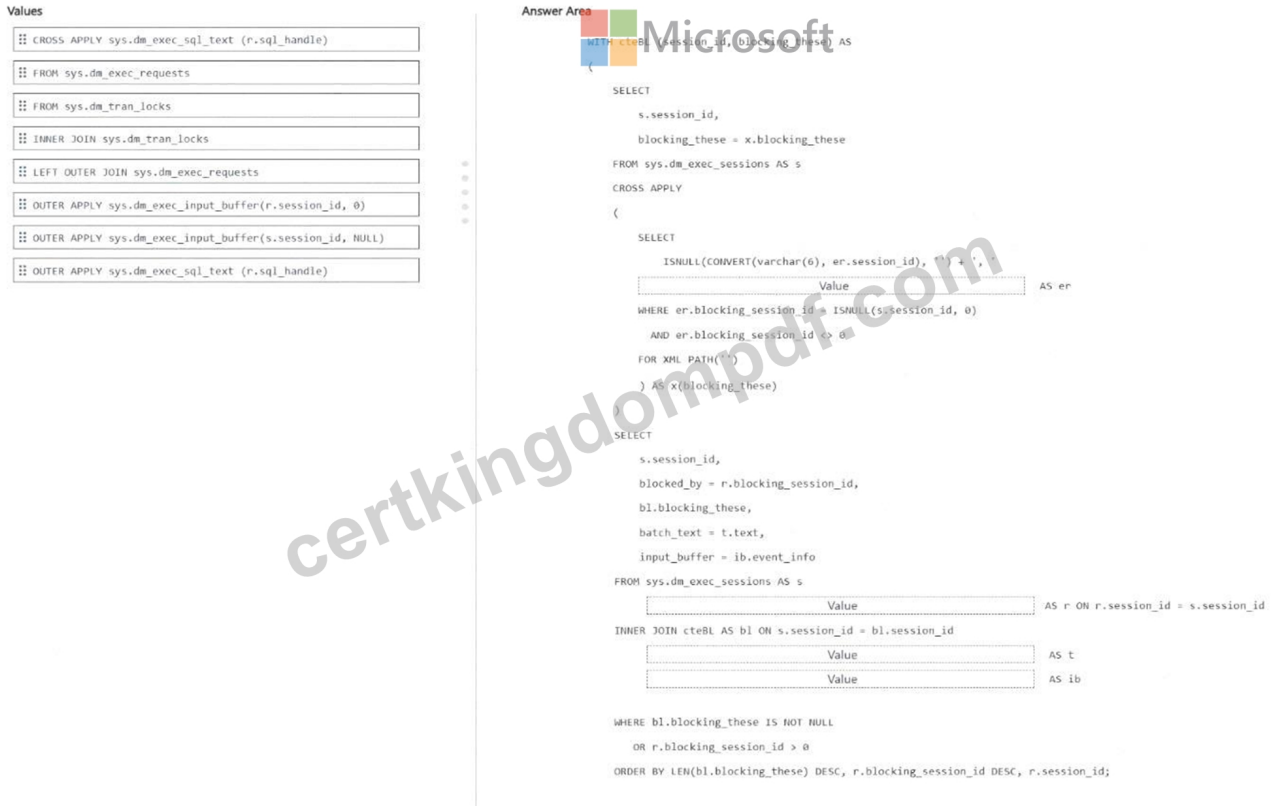
```
CREATE OR ALTER PROCEDURE dbo.SearchProducts
    @query_text  NVARCHAR(4000),
    @keywords    NVARCHAR(4000)
AS
BEGIN
    SET NOCOUNT ON;
    DECLARE @qv VECTOR(1536) =
            [AI_GENERATE_EMBEDDINGS | SEMANTICKEYPHRASETABLE | VECTOR_NORMALIZE | VECTOR_SEARCH]
            (@query_text USE MODEL Ada2Embeddings);
    ;WITH ann AS
    (
        SELECT t.product_id, t.product_name, s.distance
        FROM [CONTAINSTABLE | SEMANTICSIMILARITYTABLE | VECTOR_DISTANCE | VECTOR_SEARCH] (
            TABLE = dbo.Products AS t,
            COLUMN = embedding,
            SIMILAR_TO = @qv,
            TOP_N = 20,
            METRIC = 'cosine'
        ) AS s
    )
    SELECT TOP (20)
        t.product_id,
        t.product_name,
        ann.distance,
        fts.RANK AS text_rank
    FROM ann
    JOIN dbo.Products AS t
        ON t.product_id = ann.product_id
    JOIN [CONTAINSTABLE | FREETEXTTABLE | SEMANTICKEYPHRASETABLE | SEMANTICSIMILARITYDETAILSTABLE]
        (dbo.Products, description, @keywords) AS fts
        ON t.product_id = fts.[KEY]
    ORDER BY (ann.distance * 0.6) + ((1.0 - fts.RANK/1000.0) * 0.4);
END;
GO
```


NEW QUESTION # 55

You have an Azure SQL database that supports an OLTP application.

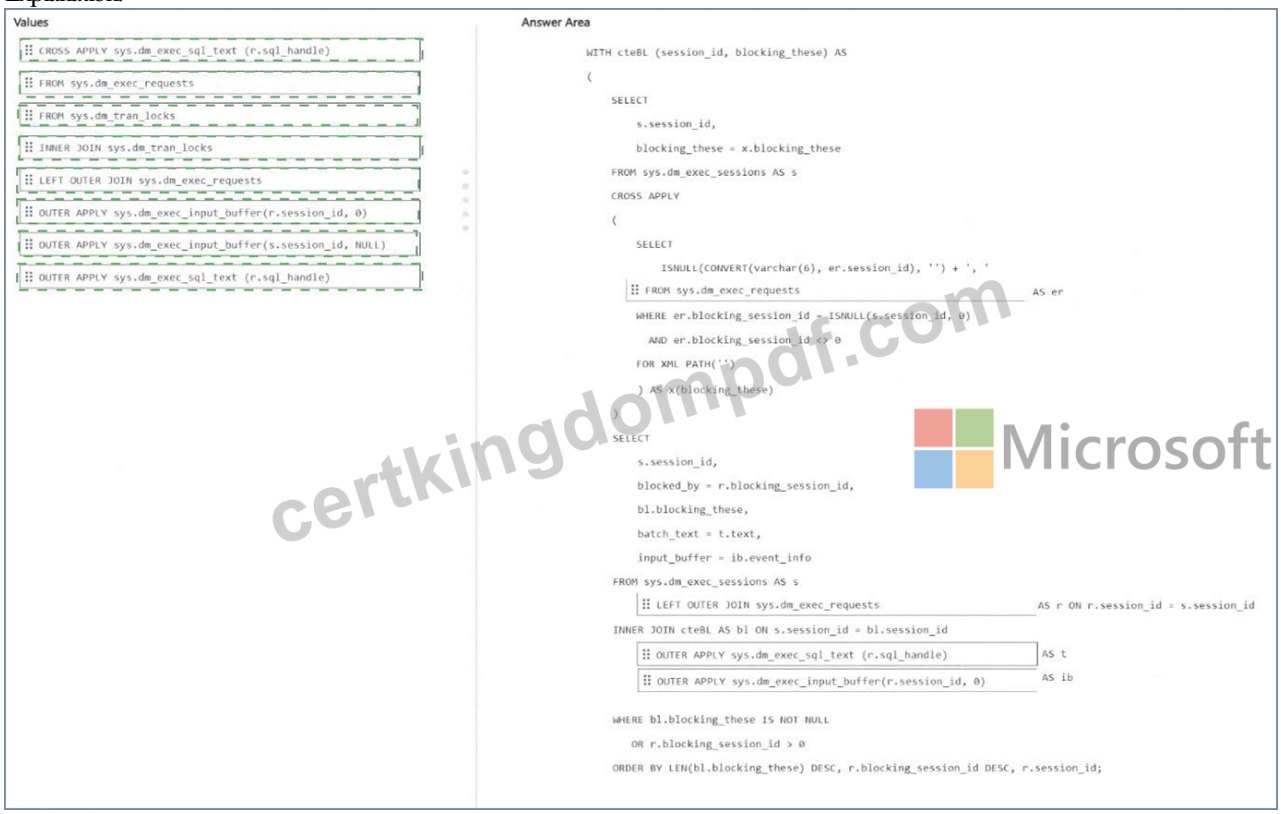
You need to write Transact-SQL code that returns blocking chain details. The output must return only sessions that ate blocked or are blocking other sessions.

How should you complete the code? To answer, drag the appropriate values to the correct targets. Each value 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 NOTE: Each correct selection is worth one point.



Answer:

Explanation:



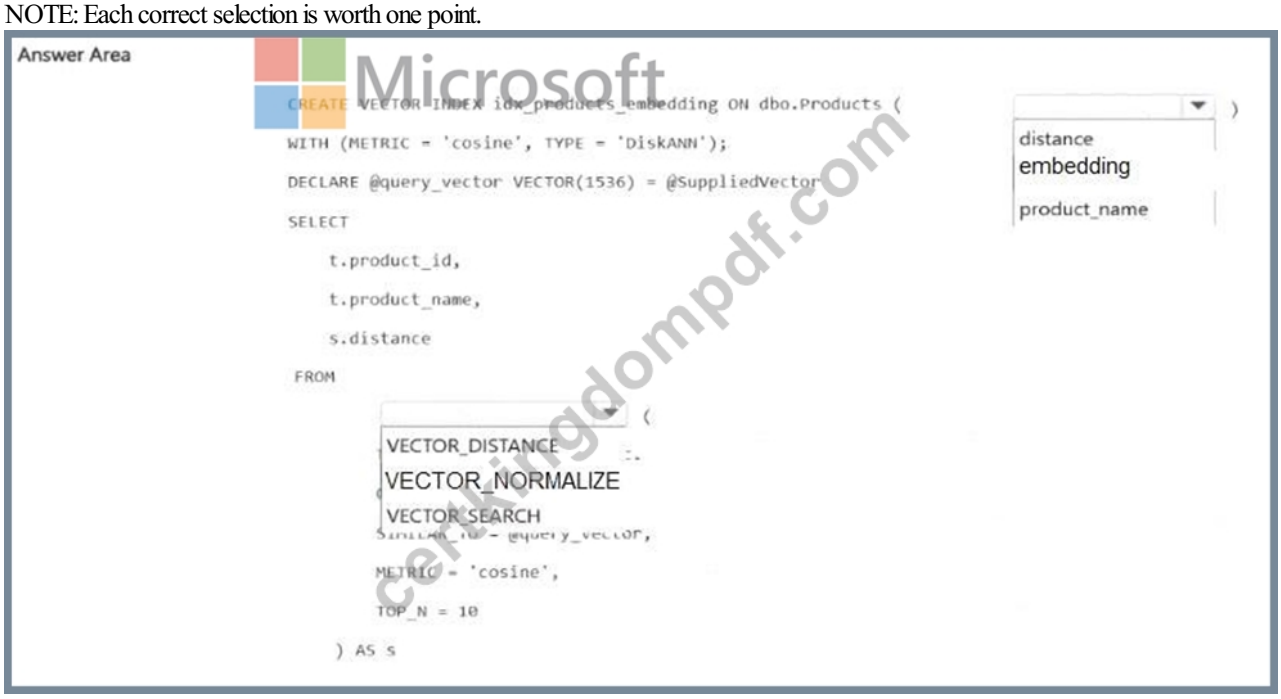
Explanation:

* CTE inner source # FROM sys.dm_exec_requests
* Join after sys.dm_exec_sessions AS s # LEFT OUTER JOIN sys.dm_exec_requests
* Text retrieval # OUTER APPLY sys.dm_exec_sql_text(r.sql_handle)
* Input buffer retrieval # OUTER APPLY sys.dm_exec_input_buffer(r.session_id, r.request_id) The correct drag-and-drop choices are based on how blocking-chain details are normally assembled in Azure SQL Database.

The CTE must read from sys.dm_exec_requests because the alias er is used with er.session_id and er.

blocking_session_id, and those columns come from sys.dm_exec_requests. Microsoft documents that sys.dm_exec_requests returns information about executing requests and includes the blocking_session_id column used to identify blockers.
After FROM sys.dm_exec_sessions AS s, the correct join is LEFT OUTER JOIN sys.dm_exec_requests so the query can still return sessions from sys.dm_exec_sessions even when a current request row is missing.
This is useful when showing sessions that are blocked or blocking, while still attempting to attach current request details when available.
For batch text, use OUTER APPLY sys.dm_exec_sql_text(r.sql_handle) because Microsoft documents sys.dm_exec_sql_text(sql_handle) as the function that returns the SQL batch text for the specified sql_handle.
For the input buffer, use OUTER APPLY sys.dm_exec_input_buffer(r.session_id, r.request_id) because Microsoft documents that sys.dm_exec_input_buffer takes session_id and request_id and returns event_info, which is commonly used when sys.dm_exec_sql_text is null or when you want the last command text.
So the completed code uses:
* FROM sys.dm_exec_requests
* LEFT OUTER JOIN sys.dm_exec_requests
* OUTER APPLY sys.dm_exec_sql_text(r.sql_handle)
* OUTER APPLY sys.dm_exec_input_buffer(r.session_id, r.request_id)

NEW QUESTION # 56
You have a SQL database in Microsoft Fabric named Sales BD that contains a table named dbo.Products. You need to modify SalesBD to meet the following requirements:
* Create a vector index on the appropriate column.
* Use a supplied natural language query vector.
How should you complete the Transact-SQL code? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.



Answer:

Explanation:

Explanation:

Answer Area

The first correct selection is embedding because a vector index must be created on the vector column , not on a scalar distance column or a text column such as product_name. Microsoft's CREATE VECTOR INDEX documentation shows that the index is created directly on the vector-valued column, for example ON product_embeddings(embedding).

The second correct selection is VECTOR_SEARCH because the requirement is to use a supplied natural language query vector and search against the indexed embeddings. Microsoft documents that VECTOR_SEARCH is the Transact-SQL function for approximate nearest neighbor vector retrieval and that it applies to SQL database in Microsoft Fabric as well as other supported SQL platforms.

This also matches the shown code pattern:

* declare a vector variable such as @query_vector VECTOR(1536),
* create a vector index on dbo.Products(embedding),
* query with VECTOR_SEARCH(... SIMILAR_TO = @query_vector, METRIC = ' cosine ' , TOP_N = 10).

NEW QUESTION # 57

You have a SQL database in Microsoft Fabric that contains a table named dbo.Orders, dbo.Orders has a clustered index, contains three years of data, and is partitioned by a column named OrderDate by month.

You need to remove all the rows for the oldest month. The solution must minimize the impact on other queries that access the data in

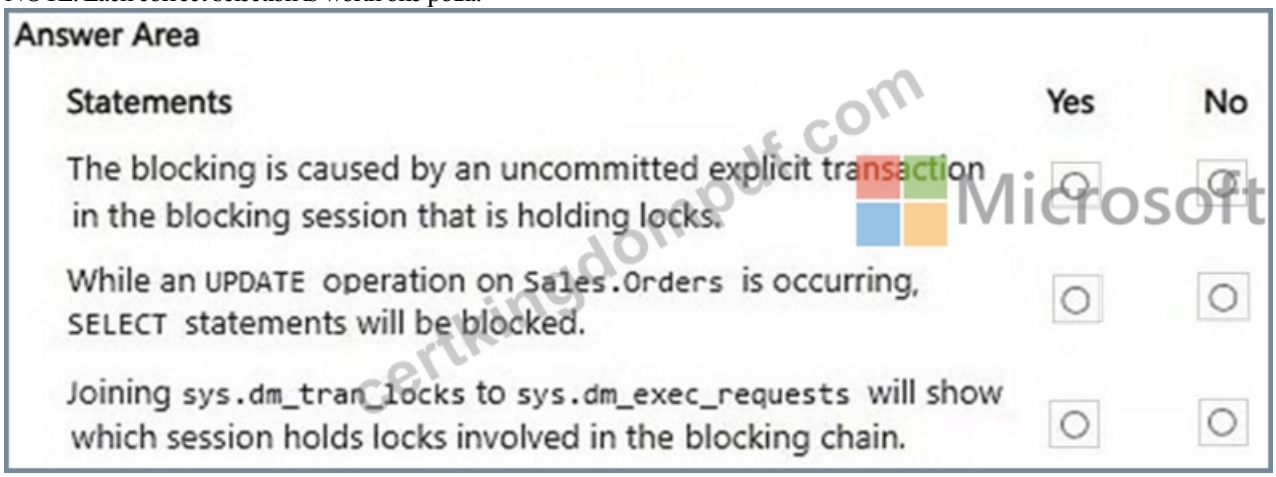
dbo.orders.
Solution; Identify the partition scheme (or the oldest month, and then run the following Transact-SQL statement.
ALTER TABLE dbo.Orders
DROP PARTITION SCHEME (partition_scheme_name);
Does this meet the goal?

- A. Yes
- B. No

Answer: B

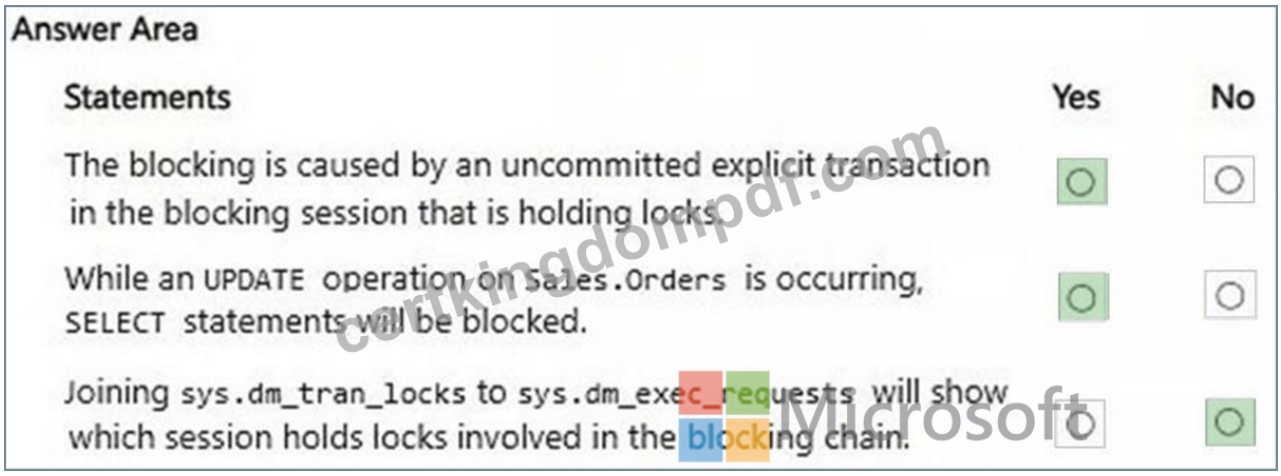
Explanation:
This also does not meet the goal. DROP PARTITION SCHEME removes the partition scheme object from the database; it is not the command used to remove just the rows for the oldest month from a partitioned table.
Microsoft's DROP PARTITION SCHEME documentation is explicit that the statement removes the partition scheme itself.
For removing only the oldest month's rows with minimal impact, Microsoft points to partition-level maintenance operations such as truncating a single partition on a partitioned table. That targets only the needed data subset and is more efficient for retention workloads.

NEW QUESTION # 58
Hotspot Question
You have a SQL database in Microsoft Fabric that uses the default settings for a newly created database and contains a table named Sales.Orders.
You have an application that uses two stored procedures to access Sales.Orders.
While monitoring database activity, you discover the following:
- sys.dm_exec_requests shows multiple sessions in a suspended state
with wait_type = LCK_M_X. All the sessions show the same wait_resource, which maps to Sales.Orders, and the same nonzero blocking_session_id.
- sys.dm_exec_input_buffer(blocking_session_id, NULL) returns a last
submitted command of BEGIN TRANSACTION UPDATE Sales.Orders.
- sys.dm_exec_sessions for the blocking session shows status = sleeping and open_transaction_count = 1.
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:

Explanation:



NEW QUESTION # 59

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