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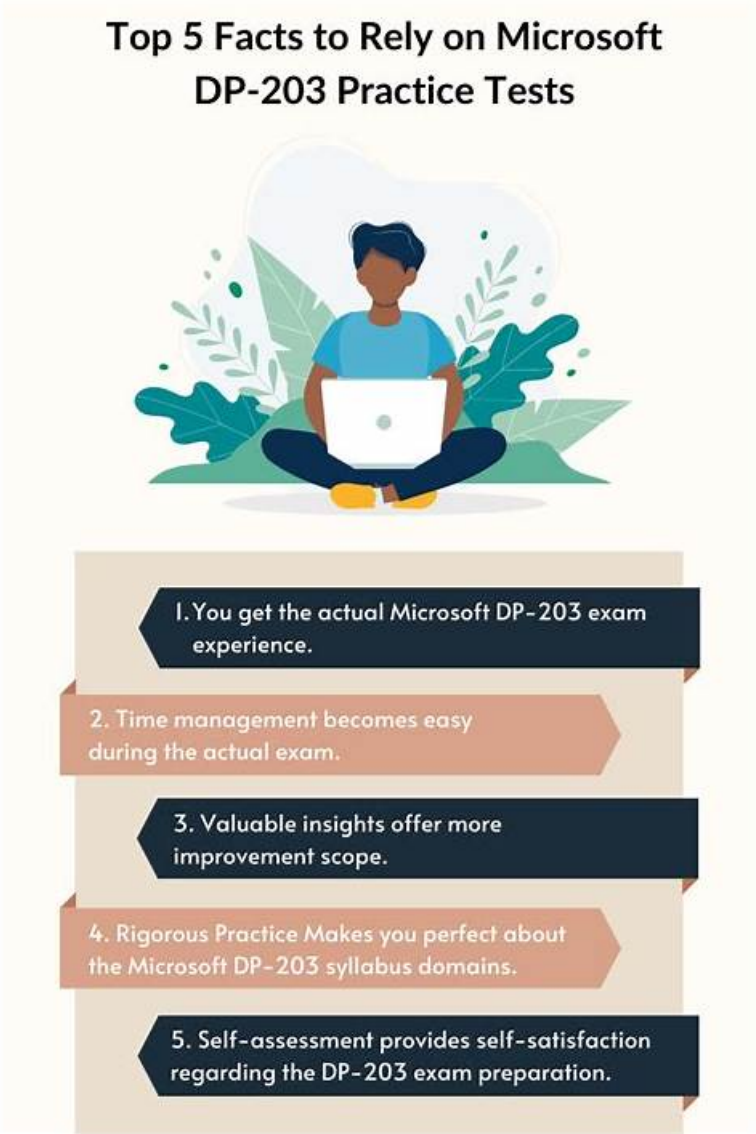

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Microsoft Data Engineering on Microsoft Azure Sample Questions (Q41-Q46):

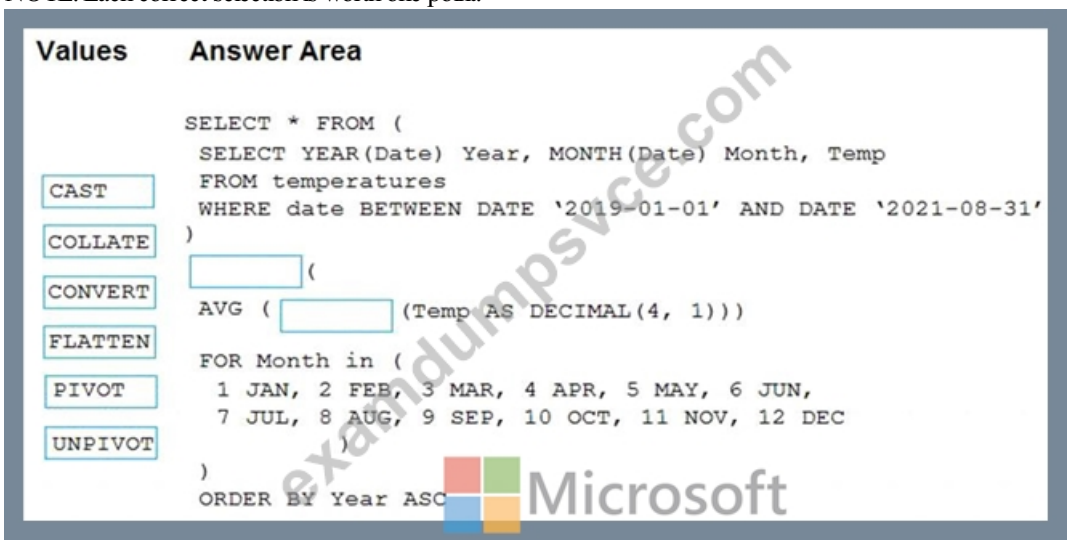
NEW QUESTION # 41
You have an Apache Spark DataFrame named temperatures. A sample of the data is shown in the following table.

Date	Temp
...	...
18-01-2021	3
19-01-2021	4
20-01-2021	2
21-01-2021	2
...	...

You need to produce the following table by using a Spark SQL query.

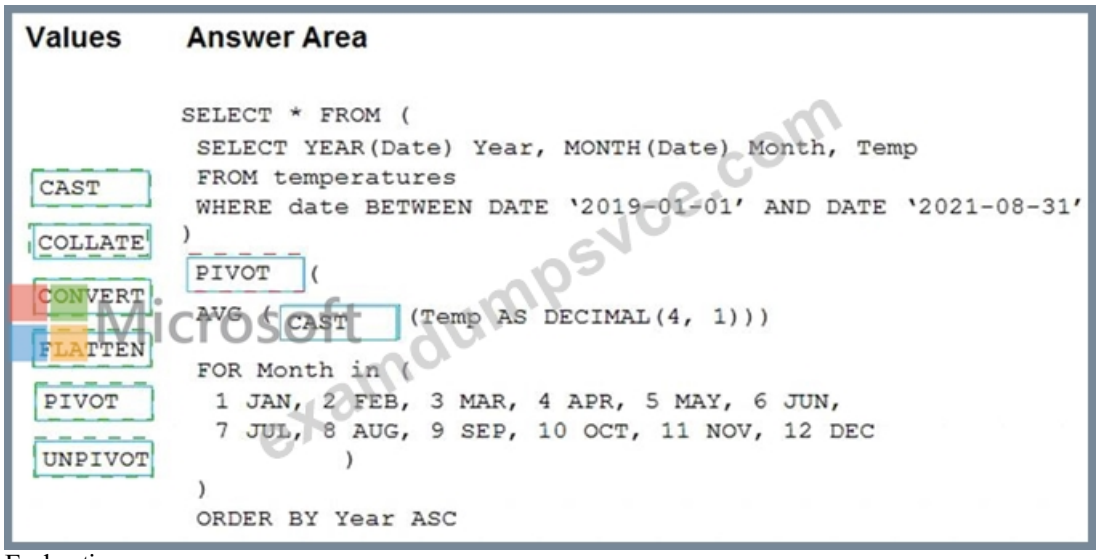
Year	JAN	FEB	MAR	APR	MAY
2019	2.3	4.1	5.2	7.6	9.2
2020	2.4	4.2	4.9	7.8	9.1
2021	2.6	5.3	3.4	7.9	9.5

How should you complete the query? 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:
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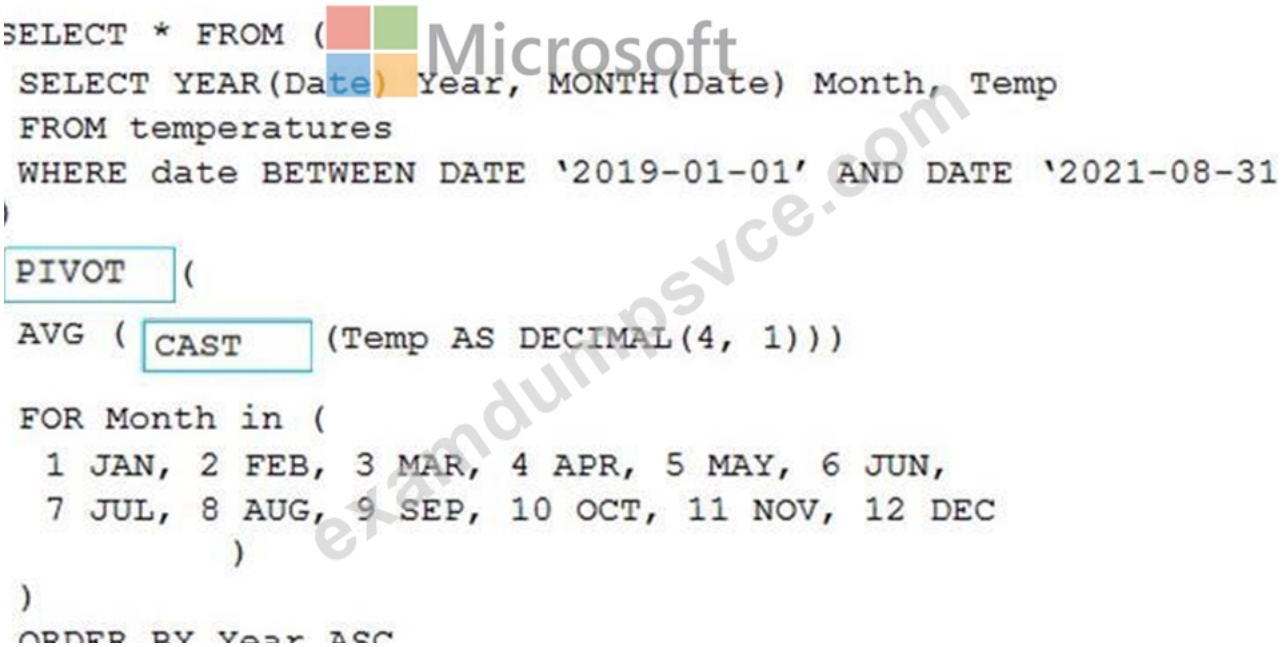


Box 1: PIVOT
PIVOT rotates a table-valued expression by turning the unique values from one column in the expression into multiple columns in the output. And PIVOT runs aggregations where they're required on any remaining column values that are wanted in the final output.
Reference:
https://learnsql.com/cookbook/how-to-convert-an-integer-to-a-decimal-in-sql-server/
https://docs.microsoft.com/en-us/sql/t-sql/queries/from-using-pivot-and-unpivot

NEW QUESTION # 42
You are implementing a star schema in an Azure Synapse Analytics dedicated SQL pool.
You plan to create a table named DimProduct.
DimProduct must be a Type 3 slowly changing dimension (SCO) table that meets the following requirements:
* The values in two columns named ProductKey and ProductSourceID will remain the same.
* The values in three columns named ProductName, ProductDescription, and Color can change.
You need to add additional columns to complete the following table definition.

```
CREATE TABLE [dbo].[dimproduct]
  (
     [ProductKey]          INT NOT NULL,
     [ProductSourceID]     INT NOT NULL,
     [ProductName]         NVARCHAR(100) NOT NULL,
     [ProductDescription]  NVARCHAR(2000) NOT NULL,
     [Color]               NVARCHAR(50) NOT NULL
WITH
(
    DISTRIBUTION = REPLICATE,
    CLUSTERED COLUMNSTORE INDEX
);
```

A)

B)

C)

D)

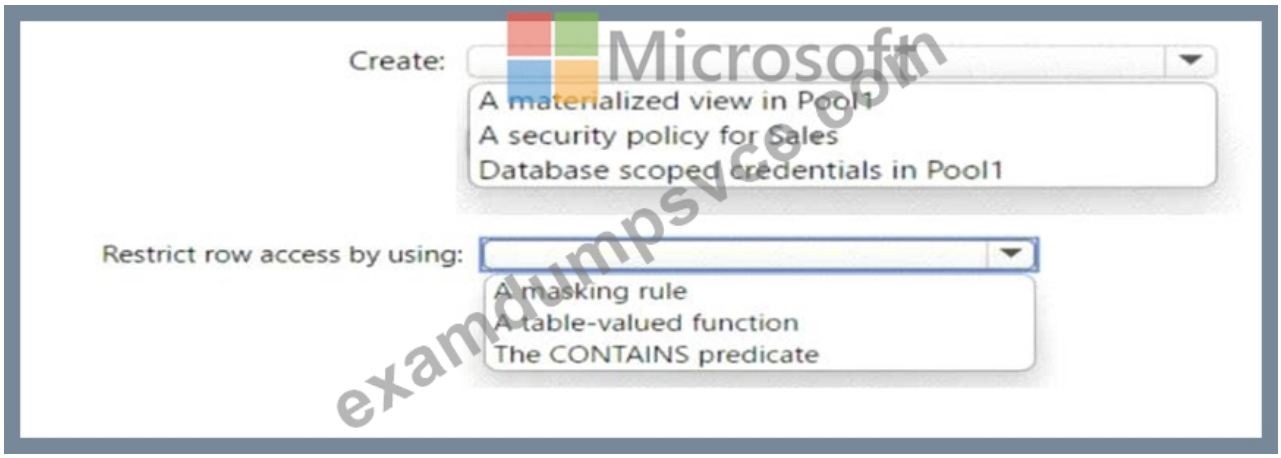
E)

F)

- A. Option A
- B. Option D
- C. Option E
- D. Option C
- E. Option F
- F. Option B

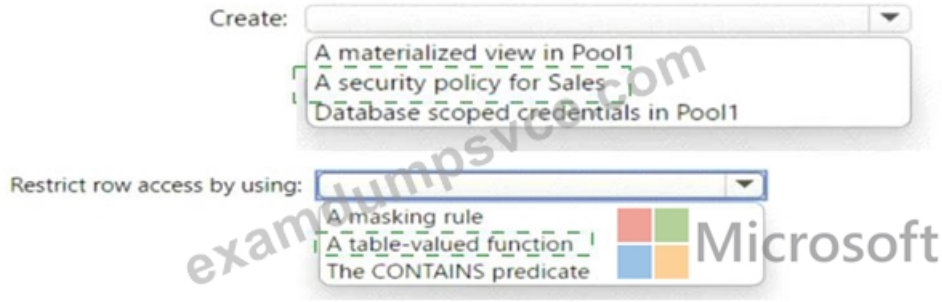
Answer: A,D,F

NEW QUESTION # 43
You have an Azure Synapse Analytics dedicated SQL pool named Pool1 that contains an external table named Sales. Sales contains sales data. Each row in Sales contains data on a single sale, including the name of the salesperson.
You need to implement row-level security (RLS). The solution must ensure that the salespeople can access only their respective sales.
What should you do? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.



Answer:

Explanation:



Explanation:
Box 1: A security policy for sale
Here are the steps to create a security policy for Sales:
* Create a user-defined function that returns the name of the current user:
* CREATE FUNCTION dbo.GetCurrentUser()
* RETURNS NVARCHAR(128)
* AS
* BEGIN
* RETURN SUSER_SNAME();
* END;
* Create a security predicate function that filters the Sales table based on the current user:
* CREATE FUNCTION dbo.SalesPredicate(@salesperson NVARCHAR(128))
* RETURNS TABLE
* WITH SCHEMABINDING
* AS
* RETURN SELECT 1 AS access_result
* WHERE @salesperson = SalespersonName;
* Create a security policy on the Sales table that uses the SalesPredicate function to filter the data:
* CREATE SECURITY POLICY SalesFilter
* ADD FILTER PREDICATE dbo.SalesPredicate(dbo.GetCurrentUser()) ON dbo.Sales
* WITH (STATE = ON);
By creating a security policy for the Sales table, you ensure that each salesperson can only access their own sales data. The security policy uses a user-defined function to get the name of the current user and a security predicate function to filter the Sales table based on the current user.
Box 2: table-value function
to restrict row access by using row-level security, you need to create a table-valued function that returns a table of values that represent the rows that a user can access. You then use this function in a security policy that applies a predicate on the table.

NEW QUESTION # 44
You have an Azure data factory that connects to a Microsoft Purview account. The data factory is registered in Microsoft Purview.
You update a Data Factory pipeline.

You need to ensure that the updated lineage is available in Microsoft Purview.
What You have an Azure subscription that contains an Azure SQL database named DB1 and a storage account named storage1.
The storage1 account contains a file named File1.txt. File1.txt contains the names of selected tables in DB1.
You need to use an Azure Synapse pipeline to copy data from the selected tables in DB1 to the files in storage1. The solution must meet the following requirements:
* The Copy activity in the pipeline must be parameterized to use the data in File1.txt to identify the source and destination of the copy.
* Copy activities must occur in parallel as often as possible.
Which two pipeline activities should you include in the pipeline? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Get Metadata
- B. If Condition
- C. Lookup
- D. ForEach

Answer: A,B

Explanation:
Lookup: This is a control activity that retrieves a dataset from any of the supported data sources and makes it available for use by subsequent activities in the pipeline. You can use a Lookup activity to read File1.txt from storage1 and store its content as an array variable1.
ForEach: This is a control activity that iterates over a collection and executes specified activities in a loop. You can use a ForEach activity to loop over the array variable from the Lookup activity and pass each table name as a parameter to a Copy activity that copies data from DB1 to storage11.

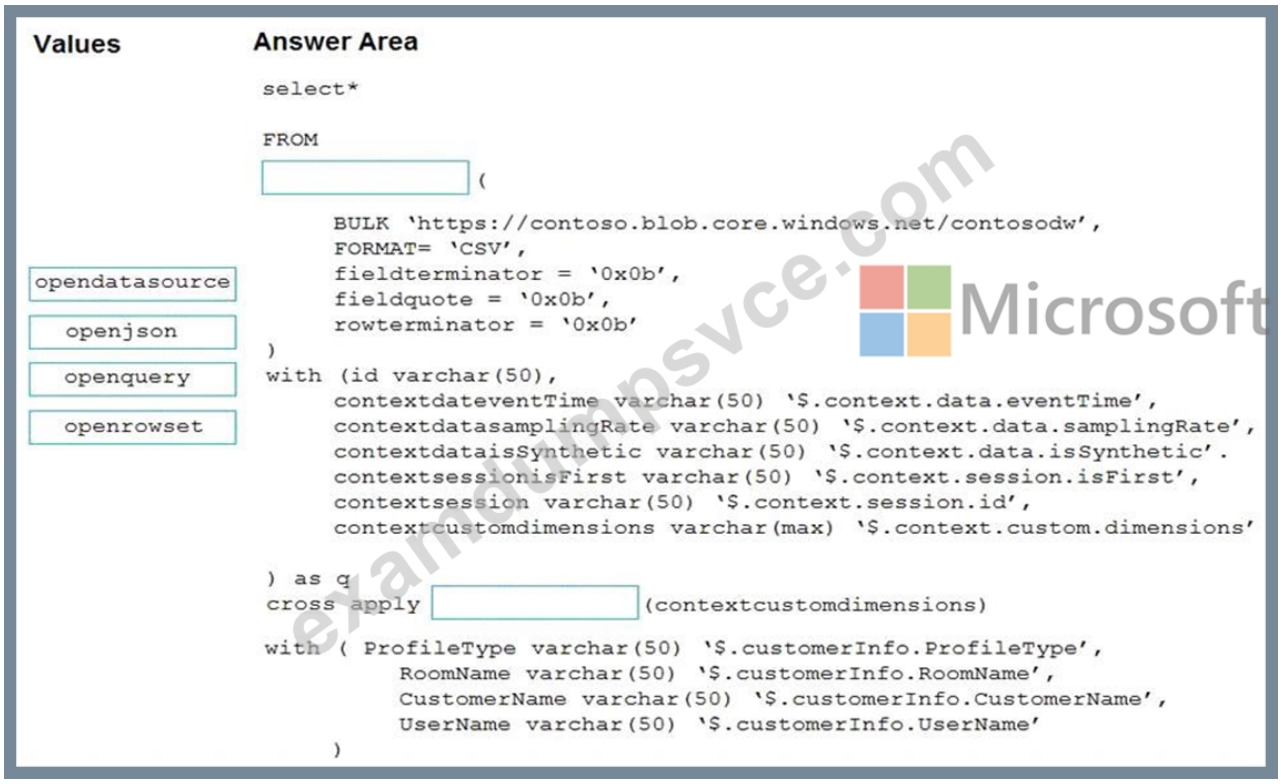
NEW QUESTION # 45
You have an Azure Synapse Analytics workspace named WS1.
You have an Azure Data Lake Storage Gen2 container that contains JSON-formatted files in the following format.

```
{
    "id": "66532691-ab20-11ea-8b1d-936b3ec64e54",
    "context": {
        "data": {
            "eventTime": "2020-06-10T13:43:34.553Z",
            "samplingRate": "100.0",
            "isSynthetic": "false"
        },
        "session": {
            "isFirst": "false",
            "id": "38619c14-7a23-4687-8268-95862c5326b1"
        },
        "custom": {
            "dimensions": [
                {
                    "customerInfo": {
                        "ProfileType": "ExpertUser",
                        "RoomName": "",
                        "CustomerName": "diamond",
                        "UserName": "XXXX@yahoo.com"
                    }
                },
                {
                    "customerInfo" {
                        "ProfileType": "Novice",
                        "RoomName": "",
                        "CustomerName": "topaz",
                        "UserName": "XXXX@outlook.com"
                    }
                }
            ]
        }
    }
}
```


You need to use the serverless SQL pool in WS1 to read the files.

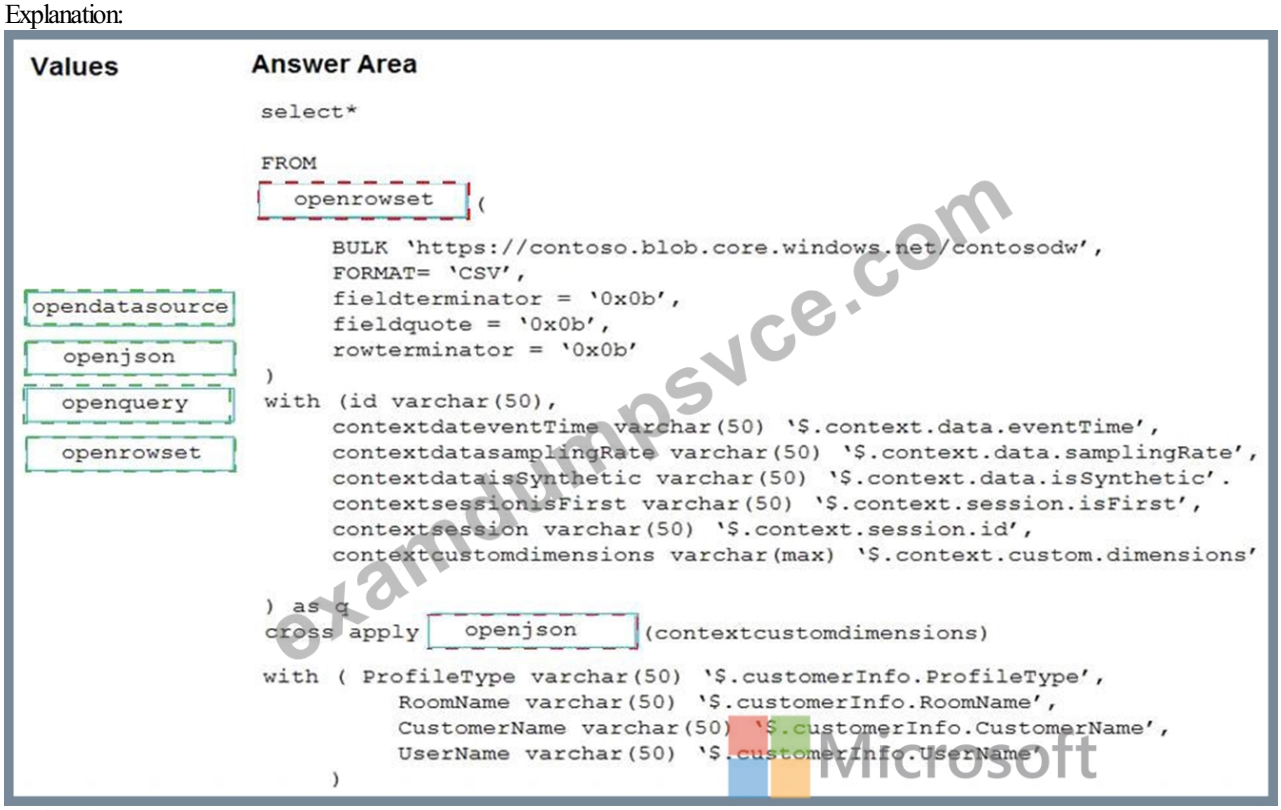
How should you complete the Transact-SQL statement? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.



Answer:

Explanation:



Explanation

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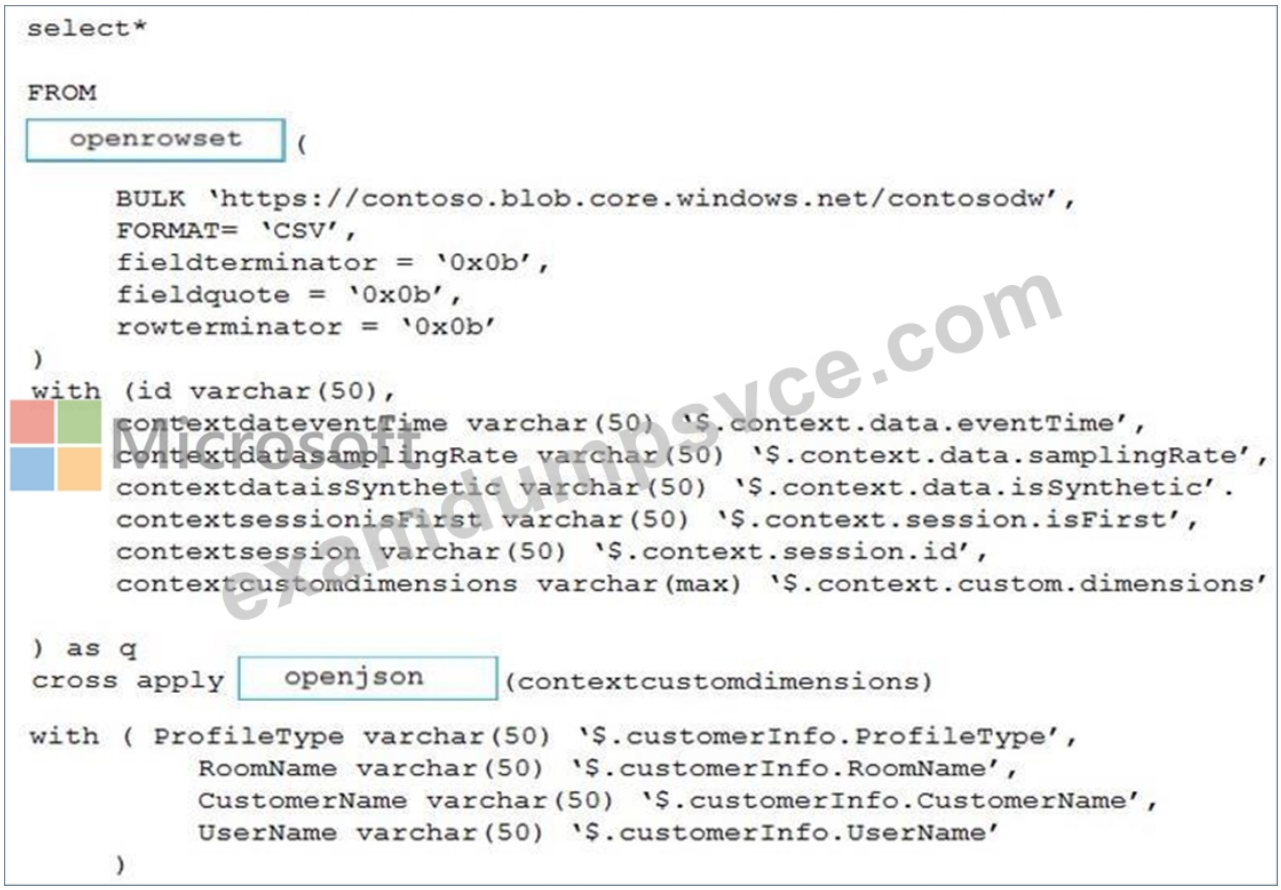

Box 1: openrowset
The easiest way to see to the content of your CSV file is to provide file URL to OPENROWSET function, specify csv FORMAT.
Example:
SELECT *
FROM OPENROWSET(
BULK 'csv/population/population.csv',
DATA_SOURCE = 'SqlOnDemandDemo',
FORMAT = 'CSV', PARSER_VERSION = '2.0',
FIELDTERMINATOR =',',
ROWTERMINATOR = '\n'
Box 2: openjson
You can access your JSON files from the Azure File Storage share by using the mapped drive, as shown in the following example:
SELECT book.* FROM
OPENROWSET(BULK N't:\books\books.json', SINGLE_CLOB) AS json
CROSS APPLY OPENJSON(BulkColumn)
WITH(id nvarchar(100), name nvarchar(100), price float,
pages_i int, author nvarchar(100)) AS book
Reference:
https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/query-single-csv-file
https://docs.microsoft.com/en-us/sql/relational-databases/json/import-json-documents-into-sql-server

NEW QUESTION # 46
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