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Microsoft DP-700 Exam Overview:

Certification Vendor:	Microsoft
Exam Name:	Implementing Data Engineering Solutions Using Microsoft Fabric
Exam Number:	DP-700
Certificate Validity Period:	1 year
Exam Price:	\$165 USD
Exam Format:	Case studies, Scenario-based, Multiple select, Multiple choice, Interactive items
Passing Score:	700 (scaled score 100–1000)
Available Languages:	French, Spanish, Portuguese (Brazil), English, German, Chinese (Simplified), Japanese, Korean
Real Exam Qty:	50–60
Exam Duration:	100 minutes
Related Certifications:	Microsoft Certified: Azure Data Engineer Associate Microsoft Certified: Power BI Data Analyst Associate
Recommended Training:	Microsoft Learn: Implementing Data Engineering Solutions Using Microsoft Fabric Microsoft Fabric Documentation
Exam Registration:	Microsoft Official Exam Registration Pearson VUE Registration
Sample Questions:	Microsoft DP-700 Sample Questions
Exam Way:	Online proctored or onsite testing center
Pre Condition:	No mandatory prerequisites; recommended experience with data integration, transformation, SQL, PySpark, KQL, and Microsoft Fabric
Official Syllabus URL:	https://learn.microsoft.com/en-us/credentials/certifications/resources/study-guides/dp-700

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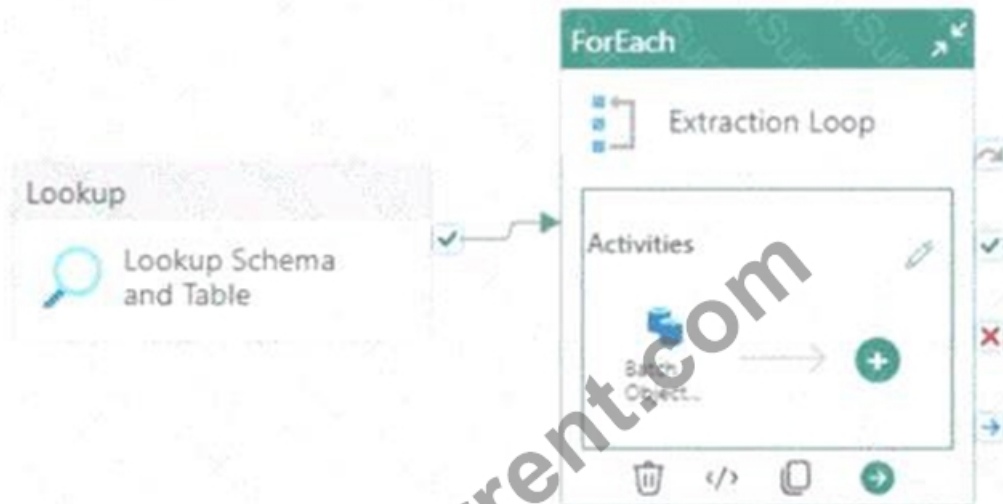
Microsoft DP-700 Exam Syllabus Topics:

Topic	Details
Topic 1	• Ingest and transform data: This section of the exam measures the skills of Data Engineers that cover designing and implementing data loading patterns. It emphasizes preparing data for loading into dimensional models, handling batch and streaming data ingestion, and transforming data using various methods. A skill to be measured is applying appropriate transformation techniques to ensure data quality.
Topic 2	• Monitor and optimize an analytics solution: This section of the exam measures the skills of Data Analysts in monitoring various components of analytics solutions in Microsoft Fabric. It focuses on tracking data ingestion, transformation processes, and semantic model refreshes while configuring alerts for error resolution. One skill to be measured is identifying performance bottlenecks in analytics workflows.
Topic 3	• Implement and manage an analytics solution: This section of the exam measures the skills of Microsoft Data Analysts regarding configuring various workspace settings in Microsoft Fabric. It focuses on setting up Microsoft Fabric workspaces, including Spark and domain workspace configurations, as well as implementing lifecycle management and version control. One skill to be measured is creating deployment pipelines for analytics solutions.

Microsoft Implementing Data Engineering Solutions Using Microsoft Fabric Sample Questions (Q43-Q48):

NEW QUESTION # 43

You are building a data orchestration pattern by using a Fabric data pipeline named Dynamic Data Copy as shown in the exhibit. (Click the Exhibit tab.)



General **Settings** Activities (1)

Batch count

Items

This property should be parameterized.

Add dynamic content



Dynamic Data Copy does NOT use parametrization.

You need to configure the ForEach activity to receive the list of tables to be copied.

How should you complete the pipeline expression? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

@activity('

Lookup Schema and Table

).

output.value

Batch Object Copy

output

Dynamic Data Copy

output.count

Extraction Loop

output.pipelineReturnValue

Lookup Schema and Table

output.value

Answer:

Explanation:

Answer Area

@activity('

Lookup Schema and Table

).

output.value

Batch Object Copy

output

Dynamic Data Copy

output.count

Extraction Loop

output.pipelineReturnValue

Lookup Schema and Table

output.value

Explanation:

Answer Area

Microsoft

@activity(' Lookup Schema and Table '). output.value

NEW QUESTION # 44

You have a Fabric workspace that contains a warehouse named Warehouse1. Warehouse1 contains a table named Customer. Customer contains the following data.

CustomerID	FirstName	LastName	Phone	CreditCard
1	John	Doe	555-123-4567	1234567812345670
2	Jane	Smith	555-987-6543	8765432187654320
3	Michael	Johnson	555-555-5555	1234987654321230
4	Emily	Davis	555-222-3333	4321123456789870
5	David	Brown	555-444-5555	5678123498761230

You have an internal Microsoft Entra user named User1 that has an email address of user1@contoso.com.

You need to provide User1 with access to the Customer table. The solution must prevent User1 from accessing the CreditCard column.

How should you complete the statement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Microsoft

GRANT

SELECT

ALTER

EXECUTE

READ

SELECT

VIEW

Customers(CustomerID, FirstName, LastName, Phone)

TO

[user1@contoso.com]

User1

[User1]

[user1@contoso.com]

Answer:

Explanation:

Answer Area

GRANT

SELECT

ALTER

EXECUTE

READ

SELECT

VIEW

Customers(CustomerID, FirstName, LastName, Phone)

TO

[user1@contoso.com]

User1

[User1]

[user1@contoso.com]

Explanation:

Answer Area

GRANT

SELECT

ON

Customers(CustomerID, FirstName, LastName, Phone)

TO

[user1@contoso.com]

NEW QUESTION # 45

You have an Azure event hub. Each event contains the following fields:

BikepointID

Street

Neighbourhood

Latitude

Longitude

No_Bikes

No_Empty_Docks

You need to ingest the events. The solution must only retain events that have a Neighbourhood value of Chelsea, and then store the retained events in a Fabric lakehouse.

What should you use?

- A. an eventstream
- B. Apache Spark Structured Streaming
- C. a streaming dataset
- D. a KQL queryset

Answer: A

Explanation:

An eventstream is the best solution for ingesting data from Azure Event Hub into Fabric, while applying filtering logic such as retaining only the events that have a Neighbourhood value of "Chelsea." Eventstreams in Microsoft Fabric are designed for handling real-time data streams and can apply transformation logic directly on incoming events. In this case, the eventstream can filter events based on the Neighbourhood field before storing the retained events in a Fabric lakehouse.

Eventstreams are well-suited for stream processing, such as this case where you need to filter out only specific data (events with a Neighbourhood of "Chelsea") before storing it in the lakehouse.

NEW QUESTION # 46

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the

review screen.

You have a KQL database that contains two tables named Stream and Reference. Stream contains streaming data in the following format.

Column name	Data type
Timestamp	Datetime
GeoLocation	Dynamic
Temperature	Decimal
DeviceId	Int

Reference contains reference data in the following format.

Column name	Data type
DeviceId	Int
DeviceName	String

Both tables contain millions of rows.

You have the following KQL queryset.

```
01 Stream
02 | extend lat = todecimal(GeoLocation.Latitude), long = todecimal(GeoLocation.Longitude)
03 | join kind=inner Reference on DeviceId
04 | project Timestamp, lat, long, Temperature, DeviceName
05 | filter Temperature >= -10
06 | render scatterchart with (kind = map)
```

You need to reduce how long it takes to run the KQL queryset.

Solution: You add the `make_list()` function to the output columns.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Adding an aggregation like `make_list()` would require additional processing and memory, which could make the query slower.

NEW QUESTION # 47

HOTSPOT

You are processing streaming data from an external data provider.

You have the following code segment.

```
database (Location:String, Company:String, UnitsSold:long)
```

```
"New York", "Contoso", 300,
"New York", "Litware", 1000,
"New York", "Relecloud", 300,
"New York", "Fabrikam", 200,
"Seattle", "Contoso", 300,
"Seattle", "Litware", 100,
"Seattle", "Fabrikam", 100,
"San Francisco", "Relecloud", 500,
"San Francisco", "Litware", 500,
"Washington DC", "Litware", 300,
"Washington DC", "Contoso", 400
```

```
sort by Location desc, UnitsSold desc
```

```
extend Rank=row_rank_dense(UnitsSold, prev(Location)) |> Location
```

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

Litware from New York will be displayed at the top of the result set.

Yes

No

☐☐

Fabrikam in Seattle will have value = 2 in the Rank column.

☐☐

Litware in San Francisco will have the same value in the Rank column as Litware in New York.

☐☐

Answer:

Explanation:

Answer Area

Statements

Litware from New York will be displayed at the top of the result set.

Litware from New York will be displayed at the top of the result set.

Fabrikam in Seattle will have value = 2 in the Rank column.

Fabrikam in Seattle will have value = 2 in the Rank column.

Litware in San Francisco will have the same value in the Rank column as Litware in New York.

Litware in San Francisco will have the same value in the Rank column as Litware in New York.

Yes

No

☒

☐

☒

☐

☐

☒

Explanation:

Answer Area

Statements

Litware from New York will be displayed at the top of the result set.

Litware from New York will be displayed at the top of the result set.

Fabrikam in Seattle will have value = 2 in the Rank column.

Fabrikam in Seattle will have value = 2 in the Rank column.

Litware in San Francisco will have the same value in the Rank column as Litware in New York.

Litware in San Francisco will have the same value in the Rank column as Litware in New York.

Yes

No

☐

☐

☐

☐

☐

☐

Litware from New York will be displayed at the top of the result set - Yes The data is sorted first by Location in descending order and then by UnitsSold in descending order. Since

"New York" is alphabetically the last Location, it will appear first in the result set. Within "New York", Litware has the highest UnitsSold (1000), so it will be displayed at the top.

Fabrikam in Seattle will have value = 2 in the Rank column - No

The row_rank_dense function assigns dense ranks based on UnitsSold within each location. In "Seattle":

Contoso has UnitsSold = 300 # Rank 1

Litware has UnitsSold = 100 # Rank 2

Fabrikam also has UnitsSold = 100, so it shares the same rank (2) as Litware.

Litware in San Francisco will have the same value in the Rank column as Litware in New York - No The rank is calculated separately for each location. In "San Francisco":

Both Relecloud and Litware have UnitsSold = 500, so they share the same rank (1).

In "New York", Litware has the highest UnitsSold = 1000 # Rank 1.

Since ranks are calculated independently for each location, Litware in San Francisco does not share the same rank as Litware in New York.

NEW QUESTION # 48

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