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## Microsoft Data Engineering on Microsoft Azure Sample Questions (Q225-Q230):

### NEW QUESTION # 225

You have an Azure subscription.

You plan to build a data warehouse in an Azure Synapse Analytics dedicated SQL pool named pool1 that will contain staging tables and a dimensional model. Pool1 will contain the following tables.

Name	Number of rows	Update frequency	Description
Common.Date	7,300	New rows inserted yearly	<ul style="list-style-type: none"> <li>Contains one row per date for the last 20 years</li> </ul>

**Table distribution types**

**Answer Area**

Common.Date:   
Marketing.WebSessions:   
Staging.WebSessions:

**Answer:**

**Explanation:**

**Table distribution types**

**Answer Area**

Common.Date:   
Marketing.WebSessions:   
Staging.WebSessions:

**Explanation**

**Answer Area**

Common.Date:   
Marketing.WebSessions:   
Staging.WebSessions:

### NEW QUESTION # 226

You store files in an Azure Data Lake Storage Gen2 container. The container has the storage policy shown in the following exhibit.



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

The files are [answer choice] after 30 days:

	▼
deleted from the container	
moved to archive storage	
moved to cool storage	
moved to hot storage	

The storage policy applies to [answer choice]:

	▼
container1/contoso.csv	
container1/docs/contoso.json	
container1/mycontoso/contoso.csv	

Answer:

Explanation:

The files are [answer choice] after 30 days:	<table border="1"><tr><td></td><td>▼</td></tr><tr><td colspan="2">deleted from the container</td></tr><tr><td colspan="2">moved to archive storage</td></tr><tr><td colspan="2">moved to cool storage</td></tr><tr><td colspan="2">moved to hot storage</td></tr></table>		▼	deleted from the container		moved to archive storage		moved to cool storage		moved to hot storage	
	▼										
deleted from the container											
moved to archive storage											
moved to cool storage											
moved to hot storage											
The storage policy applies to [answer choice]:	<table border="1"><tr><td></td><td>▼</td></tr><tr><td colspan="2">container1/contoso.csv</td></tr><tr><td colspan="2">container1/docs/contoso.json</td></tr><tr><td colspan="2">container1/mycontoso/contoso.csv</td></tr></table>		▼	container1/contoso.csv		container1/docs/contoso.json		container1/mycontoso/contoso.csv			
	▼										
container1/contoso.csv											
container1/docs/contoso.json											
container1/mycontoso/contoso.csv											

Explanation:

The files are [answer choice] after 30 days:

deleted from the container
moved to archive storage
moved to cool storage
moved to hot storage

The storage policy applies to [answer choice]:

container1/contoso.csv
container1/docs/contoso.json
container1/mycontoso/contoso.csv

Box 1: moved to cool storage

The ManagementPolicyBaseBlob.TierToCool property gets or sets the function to tier blobs to cool storage.

Support blobs currently at Hot tier.

Box 2: container1/contoso.csv

As defined by prefixMatch.

prefixMatch: An array of strings for prefixes to be matched. Each rule can define up to 10 case-sensitive prefixes. A prefix string must start with a container name.

Reference:

[https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.management.storage.fluent.models.](https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.management.storage.fluent.models.managementpolicybaseblob.tiertocool)

managementpolicybaseblob.tiertocool

### NEW QUESTION # 227

You plan to create an Azure Data Lake Storage Gen2 account

You need to recommend a storage solution that meets the following requirements:

- \* Provides the highest degree of data resiliency

- \* Ensures that content remains available for writes if a primary data center fails

What should you include in the recommendation? To answer, select the appropriate options in the answer area.

### Answer Area

Replication mechanism:

Change feed
Zone-redundant storage (ZRS)
Read-access geo-redundant storage (RA-GRS)
Read-access geo-zone-redundant storage (RA-GRS)

Failover process:

Failover initiated by Microsoft
Failover manually initiated by the customer
Failover automatically initiated by an Azure Automation job

Answer:

Explanation:



## Answer Area



Replication mechanism:

Change feed
Zone-redundant storage (ZRS)
Read-access geo-redundant storage (RA-GRS)
Read-access geo-zone-redundant storage (RA-GRS)

Failover process:

Failover initiated by Microsoft
Failover manually initiated by the customer
Failover automatically initiated by an Azure Automation job

### NEW QUESTION # 228

You are building an Azure Stream Analytics job to retrieve game data.

You need to ensure that the job returns the highest scoring record for each five-minute time interval of each game.

How should you complete the Stream Analytics query? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

SELECT	<div> <div></div> <div>▼</div> </div> <div> <div>Collect(Score)</div> <div>CollectTop(1) OVER(ORDER BY Score Desc)</div> <div>Game, MAX(Score)</div> <div>TopOne() OVER(PARTITION BY Game ORDER BY Score Desc)</div> </div>	as HighestScore
FROM input TIMESTAMP BY CreatedAt		
GROUP BY	<div> <div></div> <div>▼</div> </div> <div> <div>Game</div> <div>Hopping(minute,5)</div> <div>Tumbling(minute,5)</div> <div>Windows(TumblingWindow(minute,5),Hopping(minute,5))</div> </div>	

Answer:

Explanation:

SELECT	<div> <div></div> <div>as HighestScore</div> </div>
	<div> <div>Collect(Score)</div> <div>CollectTop(1) OVER(ORDER BY Score Desc)</div> <div>Game, MAX(Score)</div> <div>TopOne() OVER(PARTITION BY Game ORDER BY Score Desc)</div> </div>
FROM input TIMESTAMP BY CreatedAt	
GROUP BY	<div> <div>Game</div> <div>Hopping(minute,5)</div> <div>Tumbling(minute,5)</div> <div>Windows(TumblingWindow(minute,5),Hopping(minute,5))</div> </div>

#### Explanation

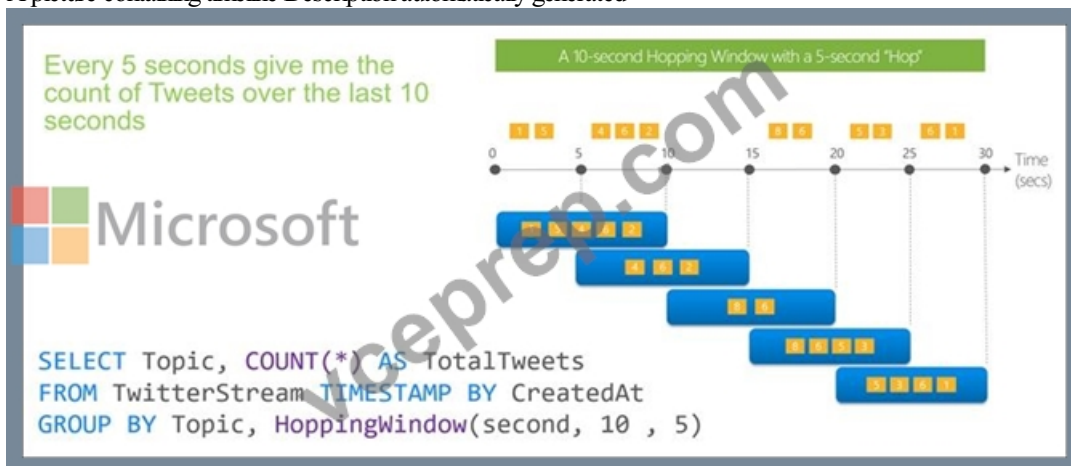
Box 1: TopOne OVER(PARTITION BY Game ORDER BY Score Desc)

TopOne returns the top-rank record, where rank defines the ranking position of the event in the window according to the specified ordering. Ordering/ranking is based on event columns and can be specified in ORDER BY clause.

Box 2: Hopping(minute,5)

Hopping window functions hop forward in time by a fixed period. It may be easy to think of them as Tumbling windows that can overlap and be emitted more often than the window size. Events can belong to more than one Hopping window result set. To make a Hopping window the same as a Tumbling window, specify the hop size to be the same as the window size.

A picture containing timeline Description automatically generated



#### Reference:

<https://docs.microsoft.com/en-us/stream-analytics-query/topone-azure-stream-analytics>

<https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-window-functions>

#### NEW QUESTION # 229

You build an Azure Data Factory pipeline to move data from an Azure Data Lake Storage Gen2 container to a database in an Azure Synapse Analytics dedicated SQL pool.

Data in the container is stored in the following folder structure.

/in/{YYYY}/{MM}/{DD}/{HH}/{mm}

The earliest folder is /in/2021/01/01/00/00. The latest folder is /in/2021/01/15/01/45.

You need to configure a pipeline trigger to meet the following requirements:

Existing data must be loaded.

Data must be loaded every 30 minutes.

Late-arriving data of up to two minutes must be included in the load for the time at which the data should have arrived.

How should you configure the pipeline trigger? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Type:

▼

- Event
- On-demand
- Schedule
- Tumbling window

Additional properties:

▼

Prefix: /in/, Event: Blob created
Recurrence: 30 minutes, Start time: 2021-01-01T00:00
Recurrence: 30 minutes, Start time: 2021-01-01T00:00, Delay: 2 minutes
Recurrence: 32 minutes, Start time: 2021-01-15T01:45

**Answer:**

Explanation:

Type: ▼

- Event
- On-demand
- Schedule
- Tumbling window

Additional properties: ▼

Prefix: /in/, Event: Blob created
Recurrence: 30 minutes, Start time: 2021-01-01T00:00
Recurrence: 30 minutes, Start time: 2021-01-01T00:00, Delay: 2 minutes
Recurrence: 32 minutes, Start time: 2021-01-15T01:45

Explanation

Type:

▼

- Event
- On-demand
- Schedule
- Tumbling window

Additional properties:

▼

Prefix: /in/, Event: Blob created
Recurrence: 30 minutes, Start time: 2021-01-01T00:00
Recurrence: 30 minutes, Start time: 2021-01-01T00:00, Delay: 2 minutes
Recurrence: 32 minutes, Start time: 2021-01-15T01:45

Box 1: Tumbling window

To be able to use the Delay parameter we select Tumbling window.

Box 2:

Recurrence: 30 minutes, not 32 minutes

Delay: 2 minutes.

The amount of time to delay the start of data processing for the window. The pipeline run is started after the expected execution time plus the amount of delay. The delay defines how long the trigger waits past the due time before triggering a new run. The delay doesn't alter the window start time.

Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/how-to-create-tumbling-window-trigger>

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