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Microsoft Data Engineering on Microsoft Azure Sample Questions (Q205-Q210):

NEW QUESTION # 205

you have a project in Azure DevOps that contains a repository named Repo1. Repo1 contains a branch named main. You create a new Azure Synapse workspace named Workspace1.

You need to create data processing pipelines in Workspace1. The solution must meet the following requirements:

- * Pipeline artifacts must be stored in Repo1.
- * Source control must be provided for pipeline artifacts.
- * All development must be performed in a feature branch.

which four actions should you perform in sequence in Synapse Studio? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

- Set the main branch as the collaboration branch.
- Create pipeline artifacts and save them in the main branch.
- Configure a code repository and select Repo1.
- Create a new branch.
- Create pipeline artifacts and save them in the new branch.
- Create a pull request to merge the contents of the main branch into the new branch.

Answer Area

Microsoft

Answer:

Explanation:

Answer Area

Microsoft

- Configure a code repository and select Repo1.
- Create a new branch.
- Create pipeline artifacts and save them in the new branch.
- Create a pull request to merge the contents of the main branch into the new branch.

- 1 - Configure a code repository and select Repo1.
- 2 - Create a new branch.
- 3 - Create pipeline artifacts and save them in the new branch.
- 4 - Create a pull request to merge the contents of the main branch into the new branch.

NEW QUESTION # 206

You are batch loading a table in an Azure Synapse Analytics dedicated SQL pool.

You need to load data from a staging table to the target table. The solution must ensure that if an error occurs while loading the data to the target table, all the inserts in that batch are undone.

How should you complete the Transact-SQL 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.

Values

- BEGIN DISTRIBUTED TRANSACTION
- BEGIN TRAN
- COMMIT TRAN
- ROLLBACK TRAN
- SET RESULT_SET_CACHING ON

Answer Area

```

BEGIN TRY
    INSERT INTO dbo.Table1 (col1, col2, col3)
    SELECT col1, col2, col3 FROM stage.Table1;
END TRY
BEGIN CATCH
    IF @@TRANCOUNT > 0
    BEGIN
        ;
    END
END CATCH;
IF @@TRANCOUNT > 0
BEGIN
    COMMIT TRAN;
END
  
```

Microsoft

Answer:

Explanation:

Values	Answer Area
BEGIN DISTRIBUTED TRANSACTION	BEGIN TRAN
BEGIN TRAN	BEGIN TRY
COMMIT TRAN	INSERT INTO dbo.Table1 (col1, col2, col3)
ROLLBACK TRAN	SELECT col1, col2, col3 FROM stage.Table1;
SET RESULT_SET_CACHING ON	END TRY
	BEGIN CATCH
	IF @@TRANCOUNT > 0
	BEGIN
	ROLLBACK TRAN ;
	END
	END CATCH;
	IF @@TRANCOUNT > 0
	BEGIN
	COMMIT TRAN;
	END

NEW QUESTION # 207

You are designing an application that will use an Azure Data Lake Storage Gen 2 account to store petabytes of license plate photos from toll booths. The account will use zone-redundant storage (ZRS).

You identify the following usage patterns:

- * The data will be accessed several times a day during the first 30 days after the data is created. The data must meet an availability SU of 99.9%.
- * After 90 days, the data will be accessed infrequently but must be available within 30 seconds.
- * After 365 days, the data will be accessed infrequently but must be available within five minutes.

First 30 days:

Archive
Cool
Hot

After 90 days:

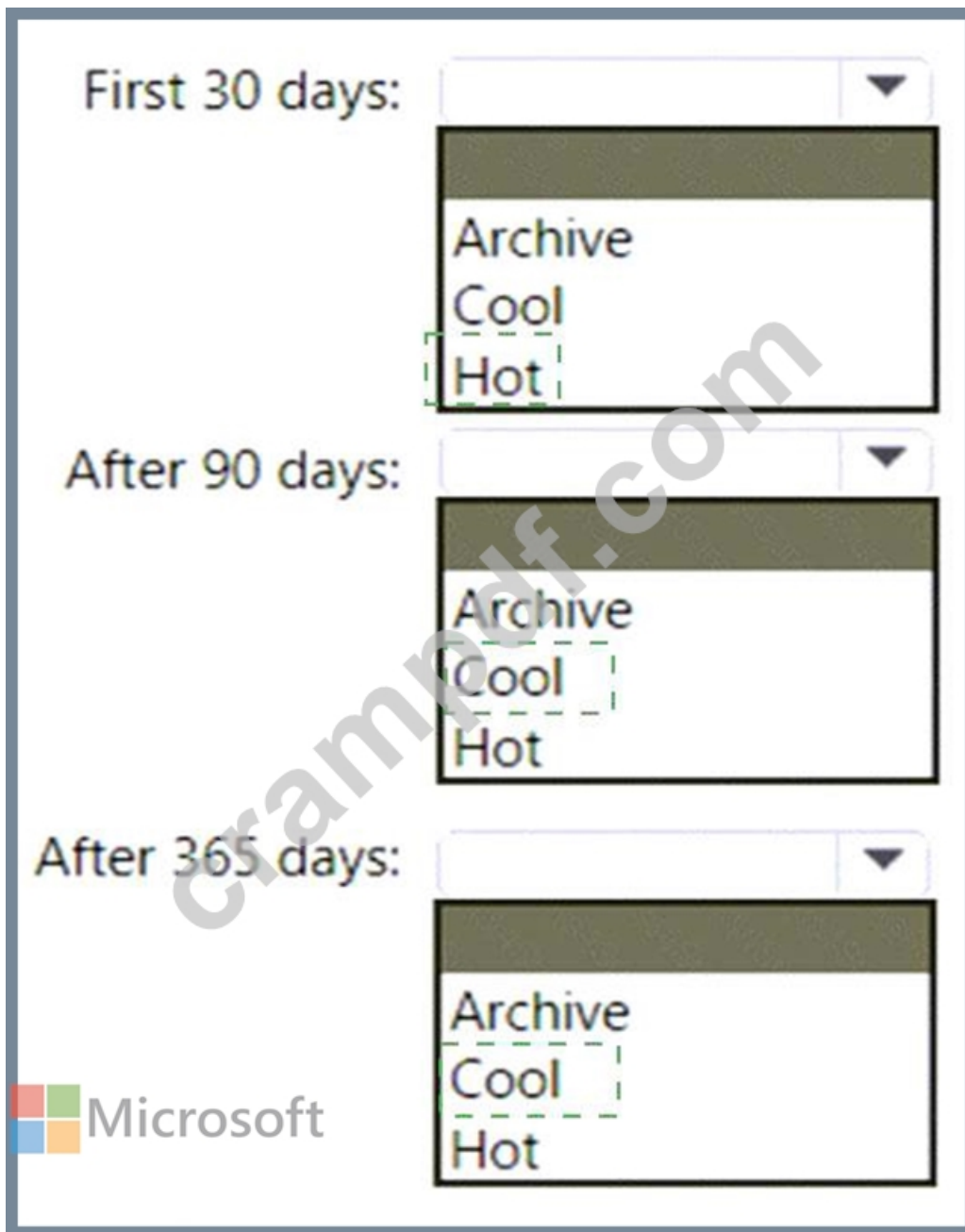
Archive
Cool
Hot

After 365 days:

Archive
Cool
Hot

Answer:

Explanation:



Explanation:

Box 1: Hot

The data will be accessed several times a day during the first 30 days after the data is created. The data must meet an availability SLA of 99.9%.

Box 2: Cool

After 90 days, the data will be accessed infrequently but must be available within 30 seconds.

Data in the Cool tier should be stored for a minimum of 30 days.

When your data is stored in an online access tier (either Hot or Cool), users can access it immediately. The Hot tier is the best choice for data that is in active use, while the Cool tier is ideal for data that is accessed less frequently, but that still must be available for reading and writing.

Box 3: Cool

After 365 days, the data will be accessed infrequently but must be available within five minutes.

Reference: <https://docs.microsoft.com/en-us/azure/storage/blobs/access-tiers-overview>

<https://docs.microsoft.com/en-us/azure/storage/blobs/archive-rehydrate-overview>

NEW QUESTION # 208

You are building an Azure Stream Analytics job to identify how much time a user spends interacting with a feature on a webpage. The job receives events based on user actions on the webpage. Each row of data represents an event. Each event has a type of

either 'start' or 'end'.

You need to calculate the duration between start and end events.

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

NOTE: Each correct selection is worth one point.



```
SELECT
[user],
feature,
DATEADD(
second,
(Time) OVER (PARTITION BY [user], feature LIMIT DURATION(hour, 1) WHEN Event = 'start'),
ISFIRST
LAST
TOPONE
Time) as duration
FROM input TIMESTAMP BY Time
WHERE
Event = 'end'
```

Answer:

Explanation:



```
SELECT
[user],
feature,
DATEADD(
second,
(Time) OVER (PARTITION BY [user], feature LIMIT DURATION(hour, 1) WHEN Event = 'start'),
ISFIRST
LAST
TOPONE
Time) as duration
FROM input TIMESTAMP BY Time
WHERE
Event = 'end'
```

Reference:

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

NEW QUESTION # 209

You are building an Azure Data Factory solution to process data received from Azure Event Hubs, and then ingested into an Azure Data Lake Storage Gen2 container.

The data will be ingested every five minutes from devices into JSON files. The files have the following naming pattern.

`/ {deviceType} / in / {YYYY} / {MM} / {DD} / {HH} / {deviceID} _ {YYYY} {MM} {DD} {HH} {mm} .json` You need to prepare the data for batch data processing so that there is one dataset per hour per deviceType. The solution must minimize read times.

How should you configure the sink for the copy activity? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Parameter:

@pipeline(),TriggerTime	▼
@pipeline(),TriggerType	
@trigger().outputs.windowStartTime	
@trigger().startTime	

Naming pattern:

	▼
/ {deviceId}/out/{YYYY}/{MM}/{DD}/{HH}.json	
/ {YYYY}/{MM}/{DD}/{deviceType}.json	
/ {YYYY}/{MM}/{DD}/{HH}.json	
/ {YYYY}/{MM}/{DD}/{HH}_{deviceType}.json	

Copy behavior:

	▼
Add dynamic content	
Flatten hierarchy	
Merge files	

Answer:

Explanation:

Parameter:

	▼
@pipeline(),TriggerTime	
@pipeline(),TriggerType	
@trigger().outputs.windowStartTime	
@trigger().startTime	

Naming pattern:

	▼
/ {deviceId}/out/{YYYY}/{MM}/{DD}/{HH}.json	
/ {YYYY}/{MM}/{DD}/{deviceType}.json	
/ {YYYY}/{MM}/{DD}/{HH}.json	
/ {YYYY}/{MM}/{DD}/{HH}_{deviceType}.json	

Copy behavior:

	▼
Add dynamic content	
Flatten hierarchy	
Merge files	

Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/concepts-pipeline-execution-triggers>

<https://docs.microsoft.com/en-us/azure/data-factory/connector-file-system>

NEW QUESTION # 210

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