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Microsoft DP-203 (Data Engineering on Microsoft Azure) Exam is designed to test the skills and knowledge of professionals who work with data engineering on the Azure platform. DP-203 exam is part of the Microsoft Certified: Azure Data Engineer Associate certification and is intended for individuals who have experience building and maintaining data pipelines, implementing data storage solutions, and performing data processing using Azure services.

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Microsoft Data Engineering on Microsoft Azure Sample Questions (Q44-Q49):

NEW QUESTION # 44

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 are a.

NOTE: Each correct selection is worth one point.

SELECT

Microsoft

Collect(Score)
CollectTop(1) OVER(ORDER BY Score Desc)
Game, MAX(Score)
TopOne() OVER(PARTITION BY Game ORDER BY Score Desc)

as HighestScore

FROM input TIMESTAMP BY CreatedAt

GROUP BY

Game
Hopping(minute,5)
Tumbling(minute,5)
Windows(TumblingWindow(minute,5),Hopping(minute,5))

Answer:

Explanation:

SELECT

Microsoft

Collect(Score)
CollectTop(1) OVER(ORDER BY Score Desc)
Game, MAX(Score)
TopOne() OVER(PARTITION BY Game ORDER BY Score Desc)

as HighestScore

FROM input TIMESTAMP BY CreatedAt

GROUP BY

Game
Hopping(minute,5)
Tumbling(minute,5)
Windows(TumblingWindow(minute,5),Hopping(minute,5))

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 # 45

You have an Azure data factory.

You need to ensure that pipeline-run data is retained for 120 days. The solution must ensure that you can query the data by using the Kusto query language.

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

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Actions

Select the PipelineRuns category.

Create a Log Analytics workspace that has Data Retention set to 120 days.

Stream to an Azure event hub.

Create an Azure Storage account that has a lifecycle policy.

From the Azure portal, add a diagnostic setting.

Send the data to a Log Analytics workspace.

Select the TriggerRuns category.

Answer:**Explanation:****Actions****Answer Area**

Select the PipelineRuns category.

Create an Azure Storage account that has a lifecycle policy.

Create a Log Analytics workspace that has Data Retention set to 120 days.

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Create an Azure Storage account that has a lifecycle policy.

Send the data to a Log Analytics workspace.

From the Azure portal, add a diagnostic setting.

Send the data to a Log Analytics workspace.

Select the TriggerRuns category.

Explanation

Create an Azure Storage account that has a lifecycle policy.

Create a Log Analytics workspace that has Data Retention set to 120 days.

From the Azure portal, add a diagnostic setting.

Send the data to a Log Analytics workspace.

Step 1: Create an Azure Storage account that has a lifecycle policy

To automate common data management tasks, Microsoft created a solution based on Azure Data Factory. The service, Data Lifecycle Management, makes frequently accessed data available and archives or purges other data according to retention policies. Teams across the company use the service to reduce storage costs, improve app performance, and comply with data retention policies.

Step 2: Create a Log Analytics workspace that has Data Retention set to 120 days.

Data Factory stores pipeline-run data for only 45 days. Use Azure Monitor if you want to keep that data for a longer time. With Monitor, you can route diagnostic logs for analysis to multiple different targets, such as a Storage Account: Save your diagnostic logs to a storage account for auditing or manual inspection. You can use the diagnostic settings to specify the retention time in days.

Step 3: From Azure Portal, add a diagnostic setting.

Step 4: Send the data to a log Analytics workspace,

Event Hub: A pipeline that transfers events from services to Azure Data Explorer.

Keeping Azure Data Factory metrics and pipeline-run data.

Configure diagnostic settings and workspace.

Create or add diagnostic settings for your data factory.

In the portal, go to Monitor. Select Settings > Diagnostic settings.

Select the data factory for which you want to set a diagnostic setting.

If no settings exist on the selected data factory, you're prompted to create a setting. Select Turn on diagnostics.

Give your setting a name, select Send to Log Analytics, and then select a workspace from Log Analytics Workspace.

Select Save.

Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/monitor-using-azure-monitor>

NEW QUESTION # 46

You have a self-hosted integration runtime in Azure Data Factory.

The current status of the integration runtime has the following configurations:

- * Status: Running
- * Type: Self-Hosted
- * Version: 4.4.7292.1
- * Running / Registered Node(s): 1/1
- * High Availability Enabled: False
- * Linked Count: 0
- * Queue Length: 0
- * Average Queue Duration: 0.00s

The integration runtime has the following node details:

- * Name: X-M
- * Status: Running
- * Version: 4.4.7292.1
- * Available Memory: 7697MB
- * CPU Utilization: 6%
- * Network (In/Out): 1.21KBps/0.83KBps
- * Concurrent Jobs (Running/Limit): 2/14
- * Role: Dispatcher/Worker

* Credential Status: In Sync

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

NOTE: Each correct selection is worth one point.

If the X-M node becomes unavailable, all executed pipelines will:

fail until the node comes back online
switch to another integration runtime
exceed the CPU limit

The number of concurrent jobs and the CPU usage indicate that the Concurrent Jobs (Running/Limit) value should be:

raised
lowered
left as is

Answer:

Explanation:

If the X-M node becomes unavailable, all executed pipelines will:

fail until the node comes back online
switch to another integration runtime
exceed the CPU limit

The number of concurrent jobs and the CPU usage indicate that the Concurrent Jobs (Running/Limit) value should be:

raised
lowered
left as is

Explanation

If the X-M node becomes unavailable, all executed pipelines will:

fail until the node comes back online
switch to another integration runtime
exceed the CPU limit

The number of concurrent jobs and the CPU usage indicate that the Concurrent Jobs (Running/Limit) value should be:

raised
lowered
left as is

Box 1: fail until the node comes back online

We see: High Availability Enabled: False

Note: Higher availability of the self-hosted integration runtime so that it's no longer the single point of failure in your big data solution or cloud data integration with Data Factory.

Box 2: lowered

We see:

Concurrent Jobs (Running/Limit): 2/14

CPU Utilization: 6%

Note: When the processor and available RAM aren't well utilized, but the execution of concurrent jobs reaches a node's limits, scale up by increasing the number of concurrent jobs that a node can run Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/create-self-hosted-integration-runtime>

NEW QUESTION # 47

You have an Azure Synapse Analytics Apache Spark pool named Pool1.

You plan to load JSON files from an Azure Data Lake Storage Gen2 container into the tables in Pool1. The structure and data types vary by file.

You need to load the files into the tables. The solution must maintain the source data types.

What should you do?

- A. Use a Get Metadata activity in Azure Data Factory.
- B. Load the data by using the OPENROWSET Transact-SQL command in an Azure Synapse Analytics serverless SQL pool.
- C. Use a Conditional Split transformation in an Azure Synapse data flow.
- D. Load the data by using PySpark.

Answer: A

Explanation:

Serverless SQL pool can automatically synchronize metadata from Apache Spark. A serverless SQL pool database will be created for each database existing in serverless Apache Spark pools.

Serverless SQL pool enables you to query data in your data lake. It offers a T-SQL query surface area that accommodates semi-structured and unstructured data queries.

To support a smooth experience for in place querying of data that's located in Azure Storage files, serverless SQL pool uses the OPENROWSET function with additional capabilities.

The easiest way to see to the content of your JSON file is to provide the file URL to the OPENROWSET function, specify csv FORMAT.

Reference:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/query-json-files>

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/query-data-storage>

NEW QUESTION # 48

You are designing the folder structure for an Azure Data Lake Storage Gen2 account.

You identify the following usage patterns:

* Users will query data by using Azure Synapse Analytics serverless SQL pools and Azure Synapse Analytics serverless Apache Spark pods.

* Most queries will include a filter on the current year or week.

* Data will be secured by data source.

You need to recommend a folder structure that meets the following requirements:

* Supports the usage patterns

* Simplifies folder security

* Minimizes query times

Which folder structure should you recommend?

- A. 
- B. 
- C. 
- D. 



- E

Answer: E

Explanation:

Data will be secured by data source. -> Use DataSource as top folder.

Most queries will include a filter on the current year or week -> Use \YYYY\WW\ as subfolders.

Common Use Cases

A common use case is to filter data stored in a date (and possibly time) folder structure such as /YYYY/MM/DD/ or /YYYY/MM/YYYY-MM-DD/. As new data is generated/sent/copied/moved to the storage account, a new folder is created for each specific time period. This strategy organises data into a maintainable folder structure.

Reference: <https://www.serverlesssql.com/optimisation/azurestoragefilteringusingfilepath/>

NEW QUESTION # 49

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