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Microsoft DP-203 (Data Engineering on Microsoft Azure) Certification Exam is one of the most popular certification exams in the data engineering domain. It is designed for professionals who want to validate their skills in working with data engineering technologies on the Microsoft Azure platform. Data Engineering on Microsoft Azure certification exam is intended to showcase the proficiency of candidates in designing, building, and maintaining data processing systems on Azure.

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Microsoft Data Engineering on Microsoft Azure Sample Questions (Q141-Q146):

NEW QUESTION # 141

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

Answer Area

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 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.

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.

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 # 142


You are designing a monitoring solution for a fleet of 500 vehicles. Each vehicle has a GPS tracking device that sends data to an Azure event hub once per minute.

You have a CSV file in an Azure Data Lake Storage Gen2 container. The file maintains the expected geographical area in which each vehicle should be.


You need to ensure that when a GPS position is outside the expected area, a message is added to another event hub for processing within 30 seconds. The solution must minimize cost.

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


NOTE: Each correct selection is worth one point.

Service: 

An Azure Synapse Analytics Apache Spark pool
An Azure Synapse Analytics serverless SQL pool
Azure Data Factory
Azure Stream Analytics

Window: 



Hopping
No window
Session
Tumbling

Analysis type: 


Event pattern matching
Lagged record comparison
Point within polygon
Polygon overlap

Answer:


Explanation:

Service:  

An Azure Synapse Analytics Apache Spark pool
An Azure Synapse Analytics serverless SQL pool
Azure Data Factory
Azure Stream Analytics

Window: 

Hopping
No window
Session
Tumbling

Analysis type: 

Event pattern matching
Lagged record comparison
Point within polygon
Polygon overlap

Reference:

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

NEW QUESTION # 143

You are building an Azure Synapse Analytics dedicated SQL pool that will contain a fact table for transactions from the first half of the year 2020.

You need to ensure that the table meets the following requirements:

Minimizes the processing time to delete data that is older than 10 years Minimizes the I/O for queries that use year-to-date values

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

NOTE: Each correct selection is worth one point.

Answer Area

```
CREATE TABLE [dbo].[FactTransaction]
```

```
(
```

```
    [TransactionTypeID]    int        NOT NULL
```

```
,    [TransactionDateID]    int        NOT NULL
```

```
,    [CustomerID]           int        NOT NULL
```

```
,    [RecipientID]          int        NOT NULL
```

```
,    [Amount]               money      NOT NULL
```

```
)
```

```
WITH
```

```
(
```

CLUSTERED COLUMNSTORE INDEX
DISTRIBUTION
PARTITION
TRUNCATE_TARGET

```
(
```

[TransactionDateID]
[TransactionDateID], [TransactionTypeID]
HASH([TransactionTypeID])
ROUND ROBIN

RANGE RIGHT FOR VALUES

```
(20200101,20200201,20200301,20200401,20200501,20200601)
```

Answer:

Explanation:

Answer Area

```
CREATE TABLE [dbo].[FactTransaction]
```

```
(
```

```
    [TransactionTypeID] int NOT NULL
    , [TransactionDateID] int NOT NULL
    , [CustomerID] int NOT NULL
    , [RecipientID] int NOT NULL
    , [Amount] money NOT NULL
)
```

```
WITH
```

```
(
```

CLUSTERED COLUMNSTORE INDEX	▼
DISTRIBUTION	
PARTITION	
TRUNCATE_TARGET	

```
(
```

[TransactionDateID]	▼
[TransactionDateID], [TransactionTypeID]	
HASH([TransactionTypeID])	
ROUND_ROBIN	

RANGE RIGHT FOR VALUES

```
(20200101,20200201,20200301,20200401,20200501,20200601)
```

Reference:

<https://docs.microsoft.com/en-us/sql/t-sql/statements/create-partition-function-transact-sql>

NEW QUESTION # 144

You have the following Azure Stream Analytics query.

WITH

```
step1 AS (SELECT *
            FROM input1
            PARTITION BY StateID
            INTO 10),
step2 AS (SELECT *
            FROM input2
            PARTITION BY StateID
            INTO 10)
```

```
SELECT *
INTO output
FROM step1
PARTITION BY StateID
UNION step2
    BY StateID
```



For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

Statements	Yes	No
The query joins two streams of partitioned data.	<input type="radio"/>	<input type="radio"/>
The stream scheme key and count must match the output scheme.	<input type="radio"/>	<input type="radio"/>
Providing 60 streaming units will optimize the performance of the query.	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

Statements	Yes	No
The query joins two streams of partitioned data.	<input checked="" type="radio"/>	<input type="radio"/>
The stream scheme key and count must match the output scheme.	<input checked="" type="radio"/>	<input type="radio"/>
Providing 60 streaming units will optimize the performance of the query.	<input checked="" type="radio"/>	<input type="radio"/>

Reference:

<https://azure.microsoft.com/en-in/blog/maximize-throughput-with-repartitioning-in-azure-stream-analytics/>

NEW QUESTION # 145

You are building a database in an Azure Synapse Analytics serverless SQL pool.
You have data stored in Parquet files in an Azure Data Lake Storage Gen2 container.
Records are structured as shown in the following sample.

```
{
  "id": 123,
  "address_housenumber": "19c",
```

```
"address_line": "Memory Lane",
"applicant1_name": "Jane",
"applicant2_name": "Dev"
}
```

The records contain two applicants at most.

You need to build a table that includes only the address fields.

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

NOTE: Each correct selection is worth one point.

Answer Area

 applications

CREATE EXTERNAL TABLE
CREATE TABLE
CREATE VIEW

```
WITH (
    LOCATION = 'applications/',
    DATA_SOURCE = applications_ds,
    FILE_FORMAT = applications_file_format
)
AS
SELECT id, [address_housenumber] as addresshousenumber, [address_line1] as addressline1
FROM
    (BULK 'https://contosol.dfs.core.windows.net/applications/year=*/*.parquet',
    CROSS APPLY
    OPENJSON
    OPENROWSET
    FORMAT='PARQUET') AS [r]
GO
```

Answer:

Explanation:

 applications

CREATE EXTERNAL TABLE
CREATE TABLE
CREATE VIEW

```
WITH (
    LOCATION = 'applications/',
    DATA_SOURCE = applications_ds,
    FILE_FORMAT = applications_file_format
)
AS
SELECT id, [address_housenumber] as addresshousenumber, [address_line1] as addressline1
FROM
    (BULK 'https://contosol.dfs.core.windows.net/applications/year=*/*.parquet',
    CROSS APPLY
    OPENJSON
    OPENROWSET
    FORMAT='PARQUET') AS [r]
```

Reference:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/develop-tables-external-tables>

NEW QUESTION # 146

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