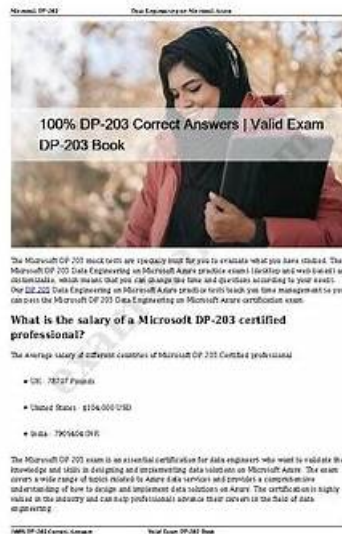


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Microsoft DP-203 certification exam is designed to assess the skills and knowledge of data engineers who use Microsoft Azure to build and manage big data and analytics solutions. DP-203 exam validates the candidate's ability to design and implement data storage, data processing, and data integration solutions using Azure services such as Azure Data Lake Storage, Azure Databricks, Azure Stream Analytics, and Azure Data Factory. DP-203 Exam also tests the candidate's knowledge of data security, compliance, and governance in Azure.

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Microsoft Data Engineering on Microsoft Azure Sample Questions (Q211-Q216):

NEW QUESTION # 211

You are building an Azure Analytics query that will receive input data from Azure IoT Hub and write the results to Azure Blob storage.

You need to calculate the difference in readings per sensor per hour.

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 sensorId,
growth = reading -
(reading) OVER (PARTITION BY sensorId (hour, 1))
FROM input

LAG
LAST
LEAD

LIMIT DURATION
OFFSET
WHEN

Answer:

Explanation:

SELECT sensorId,
growth = reading -
(reading) OVER (PARTITION BY sensorId (hour, 1))
FROM input

LAG
LAST
LEAD

LIMIT DURATION
OFFSET
WHEN

Explanation:

SELECT sensorId,
growth = reading -
(reading) OVER (PARTITION BY sensorId (hour, 1))
FROM input

LAG
LAST
LEAD

LIMIT DURATION
OFFSET
WHEN

Box 1: LAG

The LAG analytic operator allows one to look up a "previous" event in an event stream, within certain constraints. It is very useful for computing the rate of growth of a variable, detecting when a variable crosses a threshold, or when a condition starts or stops being true.

Box 2: LIMIT DURATION

Example: Compute the rate of growth, per sensor:

```
SELECT sensorId,  
growth = reading -  
LAG(reading) OVER (PARTITION BY sensorId LIMIT DURATION(hour, 1))  
FROM input
```

Reference:

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

NEW QUESTION # 212

You have the following Azure Stream Analytics query.

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 combines two streams of partitioned data.	☐	☐
The stream scheme key and count must match the output scheme.	☐	☐
Providing 60 streaming units will optimize the performance of the query.	☐	☐

Answer:

Explanation:

Statements	Yes	No
The query combines two streams of partitioned data.	☐	☒
The stream scheme key and count must match the output scheme.	☒	☐
Providing 60 streaming units will optimize the performance of the query.	☒	☐

Reference:

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

<https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-streaming-unit-consumption>

NEW QUESTION # 213

You plan to perform batch processing in Azure Databricks once daily.

Which type of Databricks cluster should you use?

- A. interactive
- **B. automated**
- C. High Concurrency

Answer: B

Explanation:

Azure Databricks has two types of clusters: interactive and automated. You use interactive clusters to analyze data collaboratively with interactive notebooks. You use automated clusters to run fast and robust automated jobs.

Example: Scheduled batch workloads (data engineers running ETL jobs)

This scenario involves running batch job JARs and notebooks on a regular cadence through the Databricks platform.

The suggested best practice is to launch a new cluster for each run of critical jobs. This helps avoid any issues (failures, missing SLA, and so on) due to an existing workload (noisy neighbor) on a shared cluster.

Reference:

<https://docs.databricks.com/administration-guide/cloud-configurations/aws/cmbp.html#scenario-3-scheduled-batch-workloads-data-engineers-running-etl-jobs>

NEW QUESTION # 214

What should you do to improve high availability of the real-time data processing solution?

- A. Deploy a High Concurrency Databricks cluster.
- **B. Deploy identical Azure Stream Analytics jobs to paired regions in Azure.**
- C. Deploy an Azure Stream Analytics job and use an Azure Automation runbook to check the status of the job and to start the job if it stops.
- D. Set Data Lake Storage to use geo-redundant storage (GRS).

Answer: B

NEW QUESTION # 215

You are designing a star schema for a dataset that contains records of online orders. Each record includes an order date, an order due date, and an order ship date.

You need to ensure that the design provides the fastest query times of the records when querying for arbitrary date ranges and aggregating by fiscal calendar attributes.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. In the fact table, use integer columns for the date fields.
- B. Create a date dimension table that has an integer key in the format of `yyyymmdd`.
- C. Create a date dimension table that has a `DateTime` key.
- D. Use built-in SQL functions to extract date attributes.
- E. Use `DateTime` columns for the date fields.

Answer: A,B

NEW QUESTION # 216

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