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To prepare for the DCPDE exam, candidates should have a solid understanding of data engineering concepts, such as data modeling, data integration, data transformation, and data quality. They should also have experience working with big data technologies, such as Apache Spark, Apache Kafka, and Apache Hadoop.

The aim of the Databricks-Certified-Professional-Data-Engineer Certification is to create a standard for data engineering skills in the big data industry. Databricks Certified Professional Data Engineer Exam certification demonstrates that professionals have the knowledge and skills needed to work effectively on complex big data projects in the cloud. It also improves the candidate's chances of getting hired, retaining their job, or earning a promotion in a highly competitive industry.

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To take the Databricks Certified Professional Data Engineer certification exam, candidates must have a strong background in data engineering and experience working with Databricks. Databricks-Certified-Professional-Data-Engineer exam consists of multiple-choice questions and hands-on tasks that require candidates to demonstrate their ability to design, build, and manage data processing systems using Databricks. Databricks-Certified-Professional-Data-Engineer Exam covers a wide range of topics, including data ingestion, data transformation, data storage, data processing, and data visualization. Upon successful completion of the exam, candidates will receive a Databricks Certified Professional Data Engineer certification, which demonstrates their expertise in using Databricks to build and maintain data processing systems.

## **Databricks Certified Professional Data Engineer Exam Sample Questions (Q129-Q134):**

### NEW QUESTION # 129

A junior data engineer has been asked to develop a streaming data pipeline with a grouped aggregation using DataFrame df. The pipeline needs to calculate the average humidity and average temperature for each non-overlapping five-minute interval. Events are recorded once per minute per device.

Streaming DataFrame df has the following schema:

```
"device_id INT, event_time TIMESTAMP, temp FLOAT, humidity FLOAT"
```

Code block:

Choose the response that correctly fills in the blank within the code block to complete this task.

- A. `lag("event_time", "10 minutes").alias("time")`
- **B. `window("event_time", "5 minutes").alias("time")`**
- C. `"event_time"`
- D. `window("event_time", "10 minutes").alias("time")`
- E. `to_interval("event_time", "5 minutes").alias("time")`

**Answer: B**

Explanation:

This is the correct answer because the window function is used to group streaming data by time intervals. The window function takes two arguments: a time column and a window duration. The window duration specifies how long each window is, and must be a multiple of 1 second. In this case, the window duration is "5 minutes", which means each window will cover a non-overlapping five-minute interval. The window function also returns a struct column with two fields: start and end, which represent the start and end time of each window. The alias function is used to rename the struct column as "time". Verified References: [Databricks Certified Data Engineer Professional], under "Structured Streaming" section; Databricks Documentation, under "WINDOW" section. <https://www.databricks.com/blog/2017/05/08/event-time-aggregation-watermarking-apache-sparks-structured-streaming.html>

### NEW QUESTION # 130

A data engineer needs to dynamically create a table name string using three Python variables: region, store, and year. An example of a table name is below when region = "nyc", store = "100", and year = "2021":

```
nyc100_sales_2021
```

Which of the following commands should the data engineer use to construct the table name in Python?

- A. `"{region}+{store}+_sales_"+{year}"`
- B. `"{region}+{store}+_sales_{year}"`
- C. `f'{region}+{store}+_sales_{year}'`
- **D. `f'{region}{store}_sales_{year}'`**
- E. `"{region}{store}_sales_{year}"`

**Answer: D**

### NEW QUESTION # 131

Each configuration below is identical to the extent that each cluster has 400 GB total of RAM, 160 total cores and only one Executor per VM.

Given a job with at least one wide transformation, which of the following cluster configurations will result in maximum performance?

- A. \* Total VMs: 1  
\* 400 GB per Executor  
\* 160 Cores / Executor
- **B. \* Total VMs: 8  
\* 50 GB per Executor  
\* 20 Cores / Executor**

**Answer: B**

Explanation:

C.

- \* Total VMs: 4
- \* 100 GB per Executor
- \* 40 Cores/Executor

D.

- \* Total VMs:2
- \* 200 GB per Executor
- \* 80 Cores / Executor

Explanation:

This is the correct answer because it is the cluster configuration that will result in maximum performance for a job with at least one wide transformation. A wide transformation is a type of transformation that requires shuffling data across partitions, such as join, groupBy, or orderBy. Shuffling can be expensive and time-consuming, especially if there are too many or too few partitions. Therefore, it is important to choose a cluster configuration that can balance the trade-off between parallelism and network overhead. In this case, having 8 VMs with 50 GB per executor and 20 cores per executor will create 8 partitions, each with enough memory and CPU resources to handle the shuffling efficiently. Having fewer VMs with more memory and cores per executor will create fewer partitions, which will reduce parallelism and increase the size of each shuffle block. Having more VMs with less memory and cores per executor will create more partitions, which will increase parallelism but also increase the network overhead and the number of shuffle files. Verified Reference: [Databricks Certified Data Engineer Professional], under "Performance Tuning" section; Databricks Documentation, under "Cluster configurations" section.

### NEW QUESTION # 132

What is the first of a Databricks Python notebook when viewed in a text editor?

- A. % Databricks notebook source
- B. -- Databricks notebook source
- C. //Databricks notebook source
- D. %python

**Answer: A**

Explanation:

When viewing a Databricks Python notebook in a text editor, the first line indicates the format and source type of the notebook. The correct option is % Databricks notebook source, which is a magic command that specifies the start of a Databricks notebook source file.

### NEW QUESTION # 133

Which of the following SQL statements can be used to update a transactions table, to set a flag on the table from Y to N

- A. MERGE transactions SET active\_flag = 'N' WHERE active\_flag = 'Y'
- B. MODIFY transactions SET active\_flag = 'N' WHERE active\_flag = 'Y'
- C. UPDATE transactions SET active\_flag = 'N' WHERE active\_flag = 'Y'
- D. REPLACE transactions SET active\_flag = 'N' WHERE active\_flag = 'Y'

**Answer: D**

Explanation:

Explanation

The answer is

UPDATE transactions SET active\_flag = 'N' WHERE active\_flag = 'Y'

Delta Lake supports UPDATE statements on the delta table, all of the changes as part of the update are ACID compliant.

### NEW QUESTION # 134

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