

# **Databricks-Certified-Professional-Data-Engineer**

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You will be able to assess your shortcomings and improve gradually without having anything to lose in the actual Databricks Certified Professional Data Engineer Exam exam. You will sit through mock exams and solve actual Databricks Databricks-Certified-Professional-Data-Engineer dumps. In the end, you will get results that'll improve each time you progress and grasp the concepts of your syllabus. The desktop-based Databricks Databricks-Certified-Professional-Data-Engineer Practice Exam software is only compatible with Windows.

Databricks Certified Professional Data Engineer Exam is an excellent way for data engineers to demonstrate their expertise in working with the Databricks platform. It provides employers with a way to validate the skills of potential candidates and ensures that data engineers have the knowledge and skills needed to work with Databricks effectively.

## **Databricks Certified Professional Data Engineer Exam Sample Questions (Q183-Q188):**

### **NEW QUESTION # 183**

A Delta Lake table was created with the below query.

Consider the following query:

DROP TABLE prod.sales\_by\_store -

If this statement is executed by a workspace admin, which result will occur?

- A. The table will be removed from the catalog and the data will be deleted.
- B. Nothing will occur until a COMMIT command is executed.
- C. Data will be marked as deleted but still recoverable with Time Travel.
- D. An error will occur because Delta Lake prevents the deletion of production data.
- E. The table will be removed from the catalog but the data will remain in storage.

**Answer: A**

Explanation:

When a table is dropped in Delta Lake, the table is removed from the catalog and the data is deleted. This is because Delta Lake is a transactional storage layer that provides ACID guarantees. When a table is dropped, the transaction log is updated to reflect the deletion of the table and the data is deleted from the underlying storage. Reference:

<https://docs.databricks.com/delta/quick-start.html#drop-a-table>

<https://docs.databricks.com/delta/delta-batch.html#drop-table>

#### NEW QUESTION # 184

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. Incremental state information should be maintained for 10 minutes for late-arriving data.

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. await("event\_time + '10 minutes'")
- B. delayWrite("event\_time", "10 minutes")
- C. awaitArrival("event\_time", "10 minutes")
- D. withWatermark("event\_time", "10 minutes")
- E. slidingWindow("event\_time", "10 minutes")

**Answer: D**

Explanation:

The correct answer is A. withWatermark("event\_time", "10 minutes"). This is because the question asks for incremental state information to be maintained for 10 minutes for late-arriving data. The withWatermark method is used to define the watermark for late data. The watermark is a timestamp column and a threshold that tells the system how long to wait for late data. In this case, the watermark is set to 10 minutes. The other options are incorrect because they are not valid methods or syntax for watermarking in Structured Streaming. References:

\* Watermarking: <https://docs.databricks.com/spark/latest/structured-streaming/watermarks.html>

\* Windowed aggregations:

<https://docs.databricks.com/spark/latest/structured-streaming/window-operations.html>

#### NEW QUESTION # 185

When scheduling Structured Streaming jobs for production, which configuration automatically recovers from query failures and keeps costs low?

- A. Cluster: Existing All-Purpose Cluster;  
Retries: Unlimited;  
Maximum Concurrent Runs: 1
- B. Cluster: Existing All-Purpose Cluster;  
Retries: Unlimited;  
Maximum Concurrent Runs: 1
- C. Cluster: Existing All-Purpose Cluster;  
Retries: None;  
Maximum Concurrent Runs: 1
- D. Cluster: New Job Cluster;

- Retries: Unlimited;
- Maximum Concurrent Runs: Unlimited
- E. Cluster: New Job Cluster;
- Retries: None;
- Maximum Concurrent Runs: 1

#### Answer: A

Explanation:

The configuration that automatically recovers from query failures and keeps costs low is to use a new job cluster, set retries to unlimited, and set maximum concurrent runs to 1. This configuration has the following advantages:

\* A new job cluster is a cluster that is created and terminated for each job run. This means that the cluster resources are only used when the job is running, and no idle costs are incurred. This also ensures that the cluster is always in a clean state and has the latest configuration and libraries for the job1.

\* Setting retries to unlimited means that the job will automatically restart the query in case of any failure, such as network issues, node failures, or transient errors. This improves the reliability and availability of the streaming job, and avoids data loss or inconsistency2.

\* Setting maximum concurrent runs to 1 means that only one instance of the job can run at a time. This prevents multiple queries from competing for the same resources or writing to the same output location, which can cause performance degradation or data corruption3.

Therefore, this configuration is the best practice for scheduling Structured Streaming jobs for production, as it ensures that the job is resilient, efficient, and consistent.

References: Job clusters, Job retries, Maximum concurrent runs

#### NEW QUESTION # 186

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:2
  - \* 200 GB per Executor
  - \* 80 Cores / Executor
- B. \* Total VMs: 8
  - \* 50 GB per Executor
  - \* 20 Cores / Executor
- C. \* Total VMs: 4
  - \* 100 GB per Executor
  - \* 40 Cores/Executor
- D. \* Total VMs; 1
  - \* 400 GB per Executor
  - \* 160 Cores / Executor

#### Answer: B

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 References: [Databricks Certified Data Engineer Professional], under "Performance Tuning" section; Databricks Documentation, under "Cluster configurations" section.

#### NEW QUESTION # 187

A data engineer has a Delta table orders with deletion vectors enabled. The engineer executes the following command:  
DELETE FROM orders WHERE status = 'cancelled';

What should be the behavior of deletion vectors when the command is executed?

- A. Files are physically rewritten without the deleted rows.
- B. Rows are marked as deleted in metadata, not in files.
- C. Rows are marked as deleted both in metadata and in files.
- D. Delta automatically removes all cancelled orders permanently.

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract of Databricks Data Engineer Documents:

Deletion vectors (DVs) in Delta Lake optimize delete operations by marking deleted rows logically in metadata rather than rewriting Parquet files. When a DELETE statement is executed, affected rows are tracked by DVs in the transaction log. The data remains in the underlying files but is filtered out during query reads. This improves performance for frequent deletes and updates since file rewrites are deferred. Physical data removal only occurs when a VACUUM command is later executed. The Databricks documentation confirms: "With deletion vectors, deleted rows are marked in metadata and skipped at read time, avoiding file rewrites." Thus, rows are marked as deleted in metadata-not in files.

## NEW QUESTION # 188

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