

# Databricks Databricks-Certified-Data-Engineer-Professional日本語版参考資料、Databricks-Certified-Data-Engineer-Professionalキャリアパス



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### Databricks Certified Data Engineer Professional Exam 認定 Databricks-Certified-Data-Engineer-Professional 試験問題 (Q148-Q153):

#### 質問 # 148

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:

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

- A. "event\_time"
- B. window("event\_time", "10 minutes").alias("time")
- C. lag("event\_time", "10 minutes").alias("time")
- **D. window("event\_time", "5 minutes").alias("time")**
- E. to\_interval("event\_time", "5 minutes").alias("time")

正解: D

解説:

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".

#### 質問 # 149

Which statement describes Delta Lake optimized writes?

- A. An asynchronous job runs after the write completes to detect if files could be further compacted; yes, an OPTIMIZE job is executed toward a default of 1 GB.
- B. Before a job cluster terminates, OPTIMIZE is executed on all tables modified during the most recent job.
- **C. A shuffle occurs prior to writing to try to group data together resulting in fewer files instead of each executor writing multiple files based on directory partitions.**
- D. Optimized writes logical partitions instead of directory partitions partition boundaries are only Get Latest & Actual Certified-Data-Engineer-Professional Exam's Question and Answers from represented in metadata fewer small files are written.

正解: C

解説:

Delta Lake optimized writes involve a shuffle operation before writing out data to the Delta table.

The shuffle operation groups data by partition keys, which can lead to a reduction in the number of output files and potentially larger files, instead of multiple smaller files. This approach can significantly reduce the total number of files in the table, improve read performance by reducing the metadata overhead, and optimize the table storage layout, especially for workloads with many small files.

### 質問 # 150

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

正解: B

解説:

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.

### 質問 # 151

A data architect has heard about lake's built-in versioning and time travel capabilities. For auditing purposes they have a requirement to maintain a full of all valid street addresses as they appear in the customers table. The architect is interested in implementing a Type 1 table, overwriting existing records with new values and relying on Delta Lake time travel to support long-term auditing. A data engineer on the project feels that a Type 2 table will provide better performance and scalability. Which piece of Get Latest & Actual Certified-Data-Engineer-Professional Exam's Question and Answers from information is critical to this decision?

- A. Delta Lake only supports Type 0 tables; once records are inserted to a Delta Lake table, they cannot be modified.
- B. Data corruption can occur if a query fails in a partially completed state because Type 2 tables requires setting multiple fields in a single update.
- **C. Delta Lake time travel does not scale well in cost or latency to provide a long-term versioning solution.**
- D. Delta Lake time travel cannot be used to query previous versions of these tables because Type 1 changes modify data files in place.
- E. Shallow clones can be combined with Type 1 tables to accelerate historic queries for long-term versioning.

正解: C

解説:

Delta Lake's time travel feature allows users to access previous versions of a table, providing a powerful tool for auditing and versioning. However, using time travel as a long-term versioning solution for auditing purposes can be less optimal in terms of cost and performance, especially as the volume of data and the number of versions grow. For maintaining a full history of valid street addresses as they appear in a customers table, using a Type 2 table (where each update creates a new record with versioning) might provide better scalability and performance by avoiding the overhead associated with accessing older versions of a large table. While Type 1 tables, where existing records are overwritten with new values, seem simpler and can leverage time travel for auditing, the critical piece of information is that time travel might not scale well in cost or latency for long-term versioning needs, making a Type 2 approach more viable for performance and scalability.

### 質問 # 152

The data science team has created and logged a production model using MLflow. The following code correctly imports and applies the production model to output the predictions as a new DataFrame named preds with the schema "customer\_id LONG, predictions DOUBLE, date DATE".

The data science team would like predictions saved to a Delta Lake table with the ability to compare all predictions across time. Churn predictions will be made at most once per day.

Which code block accomplishes this task while minimizing potential compute costs?

- A. □

- B. `preds.write.format("delta").save("/preds/chum_preds")`
- C. □
- D. □
- E. `preds.write.mode("append").saveAsTable("chum_preds")`

正解: E

## 質問 # 153

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