

# 正確的なDatabricks-Certified-Data-Engineer-Professional認証資格 & 資格試験のリーダープロバイダー & 信頼できるDatabricks-Certified-Data-Engineer-Professional勉強方法



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>> Databricks-Certified-Data-Engineer-Professional認証資格 <<

# Databricks-Certified-Data-Engineer-Professional勉強方法 & Databricks-Certified-Data-Engineer-Professional試験勉強攻略

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## Databricks Certified Data Engineer Professional Exam 認定 Databricks-Certified-Data-Engineer-Professional 試験問題 (Q70-Q75):

### 質問 # 70

A transactions table has been liquid clustered on the columns `product_id`, `user_id`, and `event_date`. Which operation lacks support for cluster on write?

- A. INSERT INTO operations
- **B. `spark.writestream.format('delta').mode('append')`**
- C. `spark.write.format('delta').mode('append')`
- D. CTAS and RTAS statements

正解: B

解説:

Delta Lake's Liquid Clustering is an advanced feature that improves query performance by dynamically clustering data without requiring costly compaction steps like traditional Z-ordering.

When performing writes to a Liquid Clustered table, some write operations automatically maintain clustering, while others do not.

### 質問 # 71

A nightly batch job is configured to ingest all data files from a cloud object storage container where records are stored in a nested directory structure `YYYY/MM/DD`. The data for each date represents all records that were processed by the source system on that date, noting that some records may be delayed as they await moderator approval. Each entry represents a user review of a product and has the following schema:

`user_id STRING, review_id BIGINT, product_id BIGINT, review_timestamp TIMESTAMP, review_text STRING` The ingestion job is configured to append all data for the previous date to a target table `reviews_raw` with an identical schema to the source system. The next step in the pipeline is a batch write to propagate all new records inserted into `reviews_raw` to a table where data is fully deduplicated, validated, and enriched.

Which solution minimizes the compute costs to propagate this batch of data?

- A. Use Delta Lake version history to get the difference between the latest version of `reviews_raw` and one version prior, then write these records to the next table.
- **B. Configure a Structured Streaming read against the `reviews_raw` table using the trigger once execution mode to process new records as a batch job.**
- C. Perform a batch read on the `reviews_raw` table and perform an insert-only merge using the natural composite key `user_id, review_id, product_id, review_timestamp`.
- D. Reprocess all records in `reviews_raw` and overwrite the next table in the pipeline.
- E. Filter all records in the `reviews_raw` table based on the `review_timestamp`; batch append those records produced in the last 48 hours.

正解: B

解説:

<https://www.databricks.com/blog/2017/05/22/running-streaming-jobs-day-10x-cost-savings.html>

### 質問 # 72

Which of the following is true of Delta Lake and the Lakehouse?

- A. Z-order can only be applied to numeric values stored in Delta Lake tables
- B. Because Parquet compresses data row by row, strings will only be compressed when a character is repeated multiple times.
- C. Primary and foreign key constraints can be leveraged to ensure duplicate values are never entered into a dimension table.
- D. Views in the Lakehouse maintain a valid cache of the most recent versions of source tables at all times.
- **E. Delta Lake automatically collects statistics on the first 32 columns of each table which are leveraged in data skipping based on query filters.**

正解: E

解説:

Delta Lake automatically collects statistics on the first 32 columns of each table, which are leveraged in data skipping based on query filters. Data skipping is a performance optimization technique that aims to avoid reading irrelevant data from the storage layer. By collecting statistics such as min/max values, null counts, and bloom filters, Delta Lake can efficiently prune unnecessary files or partitions from the query plan. This can significantly improve the query performance and reduce the I/O cost.

### 質問 # 73

A distributed team of data analysts share computing resources on an interactive cluster with autoscaling configured. In order to better manage costs and query throughput, the workspace administrator is hoping to evaluate whether cluster upscaling is caused by many concurrent users or resource-intensive queries.

In which location can one review the timeline for cluster resizing events?

- A. Workspace audit logs
- B. Executor's log file
- **C. Cluster Event Log**
- D. Driver's log file
- E. Ganglia

正解: C

解説:

The Cluster Event Log in Databricks will show the timeline for cluster resizing events, including details about when and why a cluster was resized (scaled up or down). This log would help the workspace administrator determine the causes of cluster scaling, whether due to many concurrent users submitting jobs or a few users running resource-intensive queries.

### 質問 # 74

The data science team has requested assistance in accelerating queries on free form text from user reviews. The data is currently stored in Parquet with the below schema:

```
item_id INT, user_id INT, review_id INT, rating FLOAT, review STRING
```

The review column contains the full text of the review left by the user. Specifically, the data science team is looking to identify if any of 30 key words exist in this field.

A junior data engineer suggests converting this data to Delta Lake will improve query performance.

Which response to the junior data engineer's suggestion is correct?

- A. The Delta log creates a term matrix for free text fields to support selective filtering.
- **B. Delta Lake statistics are not optimized for free text fields with high cardinality.**
- C. Text data cannot be stored with Delta Lake.
- D. Delta Lake statistics are only collected on the first 4 columns in a table.
- E. ZORDER ON review will need to be run to see performance gains.

正解: B

解説:

Converting the data to Delta Lake may not improve query performance on free text fields with high cardinality, such as the review column. This is because Delta Lake collects statistics on the minimum and maximum values of each column, which are not very useful for filtering or skipping. Get Latest & Actual Certified-Data-Engineer-Professional Exam's Question and Answers from data on free text fields. Moreover, Delta Lake collects statistics on the first 32 columns by default, which may not include the review column if the

table has more columns. Therefore, the junior data engineer's suggestion is not correct. A better approach would be to use a full-text search engine, such as Elasticsearch, to index and query the review column. Alternatively, you can use natural language processing techniques, such as tokenization, stemming, and lemmatization, to preprocess the review column and create a new column with normalized terms that can be used for filtering or skipping data.

## 質問 # 75

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