

# Test Databricks-Certified-Data-Engineer-Professional Result - Valid Databricks-Certified-Data-Engineer-Professional Exam Objectives



## Purpose of this Exam Guide

The purpose of this exam guide is to give you an overview of the exam and what is covered on the exam to help you determine your exam readiness. This document will get updated anytime there are any changes to an exam (and when those changes will take effect on an exam) so that you can be prepared. This version covers the currently live version as of August 1, 2023

## Audience Description

The Databricks Certified Data Engineer Professional certification exam assesses an individual's ability to use Databricks to perform advanced data engineering tasks. This includes an understanding of the Databricks platform and developer tools like Apache Spark, Delta Lake, MLflow, and the Databricks CLI and REST API. It also assesses the ability to build optimized and cleaned ETL pipelines. Additionally, modeling data into a Lakehouse using knowledge of general data modeling concepts will also be assessed. Finally, ensuring that data pipelines are secure, reliable, monitored, and tested before deployment will also be included in this exam. Individuals who pass this certification exam can be expected to complete advanced data engineering tasks using Databricks and its associated tools.

## About the Exam

- Number of items: 60 multiple-choice questions
- Time limit: 120 minutes
- Registration fee: USD 200, plus applicable taxes as required per local law
- Delivery method: Online Proctored
- Test aides: none allowed.
- Prerequisite: None required; course attendance and 1 year of hands-on experience in Databricks is highly recommended
- Validity: 2 years
- Unsourced Content: Exams may include unsourced items to gather statistical information for future use. These items are not identified on the form and do not impact your score, and additional time is factored into account for this content.

The Exams4Collection is committed to acing the Databricks Certified Data Engineer Professional Exam (Databricks-Certified-Data-Engineer-Professional) exam questions preparation quickly, simply, and smartly. To achieve this objective Exams4Collection is offering valid, updated, and real Databricks Databricks-Certified-Data-Engineer-Professional Exam Dumps in three high-in-demand formats. These Databricks Certified Data Engineer Professional Exam (Databricks-Certified-Data-Engineer-Professional) exam questions formats are PDF dumps files, desktop practice test software, and web-based practice test software.

## Databricks Databricks-Certified-Data-Engineer-Professional Exam Syllabus Topics:

| Section                                    | Objectives                                                                                                                                                                                             |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Data Ingestion and Processing              | <ul style="list-style-type: none"><li>- Batch and streaming ingestion with Auto Loader</li><li>- Structured Streaming fundamentals</li><li>- ETL pipeline design patterns</li></ul>                    |
| Databricks Lakehouse Platform Architecture | <ul style="list-style-type: none"><li>- Data governance concepts (Unity Catalog basics)</li><li>- Medallion architecture (Bronze, Silver, Gold)</li><li>- Workspace and cluster architecture</li></ul> |
| Delta Lake and Data Management             | <ul style="list-style-type: none"><li>- Time travel and versioning</li><li>- Delta Lake transactions and ACID properties</li><li>- Schema evolution and enforcement</li></ul>                          |

|                                        |                                                                                                                                                                       |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Data Modeling and Transformation       | <ul style="list-style-type: none"> <li>- Performance optimization techniques</li> <li>- Spark SQL transformations</li> <li>- Dimensional modeling concepts</li> </ul> |
| Production Pipelines and Orchestration | <ul style="list-style-type: none"> <li>- Job scheduling and monitoring</li> <li>- Databricks Workflows</li> <li>- Error handling and recovery strategies</li> </ul>   |

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## Databricks Certified Data Engineer Professional Exam Sample Questions (Q29-Q34):

### NEW QUESTION # 29

A junior data engineer on your team has implemented the following code block.

```

MERGE INTO events
USING new_events
ON events.event_id = new_events.event_id
WHEN NOT MATCHED
  INSERT

```

The view new\_events contains a batch of records with the same schema as the events Delta table. The event\_id field serves as a unique key for this table.

When this query is executed, what will happen with new records that have the same event\_id as an existing record?

- A. They are merged.
- B. They are deleted.
- C. They are ignored.
- D. They are inserted.
- E. They are updated.

**Answer: C**

Explanation:

This is the correct answer because it describes what will happen with new records that have the same event\_id as an existing record when the query is executed. The query uses the INSERT INTO command to append new records from the view new\_events to the table events. However, the INSERT INTO command does not check for duplicate values in the primary key column (event\_id) and does not perform any update or delete operations on existing records. Therefore, if there are new records that have the same event\_id as an existing record, they will be ignored and not inserted into the table events.

### NEW QUESTION # 30

A Delta Lake table representing metadata about content from user has the following schema:

user\_id LONG, post\_text STRING, post\_id STRING, longitude FLOAT, latitude FLOAT, post\_time TIMESTAMP, date DATE  
Based on the above schema, which column is a good candidate for partitioning the Delta Table?

- A. latitude
- B. Post\_id
- C. User\_id

- D. Date
- E. Post\_time

**Answer: D**

Explanation:

Partitioning a Delta Lake table improves query performance by organizing data into partitions based on the values of a column. In the given schema, the date column is a good candidate for partitioning for several reasons:

Time-Based Queries: If queries frequently filter or group by date, partitioning by the date column can significantly improve performance by limiting the amount of data scanned. Granularity: The date column likely has a granularity that leads to a reasonable number of partitions (not too many and not too few). This balance is important for optimizing both read and write performance.

Data Skew: Other columns like post\_id or user\_id might lead to uneven partition sizes (data skew), which can negatively impact performance.

Partitioning by post\_time could also be considered, but typically date is preferred due to its more manageable granularity.

### NEW QUESTION # 31

What statement is true regarding the retention of job run history?

- A. It is retained until you export or delete job run logs
- B. It is retained for 60 days, during which you can export notebook run results to HTML
- C. It is retained for 30 days, during which time you can deliver job run logs to DBFS or S3
- D. It is retained for 90 days or until the run-id is re-used through custom run configuration
- E. It is retained for 60 days, after which logs are archived

**Answer: B**

### NEW QUESTION # 32

Two of the most common data locations on Databricks are the DBFS root storage and external object storage mounted with `dbutils.fs.mount()`.

Which of the following statements is correct?

- A. Neither the DBFS root nor mounted storage can be accessed when using `%sh` in a Databricks notebook.
- B. The DBFS root is the most secure location to store data, because mounted storage volumes must have full public read and write permissions.
- C. By default, both the DBFS root and mounted data sources are only accessible to workspace administrators.
- D. DBFS is a file system protocol that allows users to interact with files stored in object storage using syntax and guarantees similar to Unix file systems.
- E. The DBFS root stores files in ephemeral block volumes attached to the driver, while mounted directories will always persist saved data to external storage between sessions.

**Answer: D**

Explanation:

DBFS is a file system protocol that allows users to interact with files stored in object storage using syntax and guarantees similar to Unix file systems. DBFS is not a physical file system, but a layer over the object storage that provides a unified view of data across different data sources. By default, the DBFS root is accessible to all users in the workspace, and the access to mounted data sources depends on the permissions of the storage account or container. Mounted storage volumes do not need to have full public read and write permissions, but they do require a valid connection string or access key to be provided when mounting. Both the DBFS root and mounted storage can be accessed when using `%sh` in a Databricks notebook, as long as the cluster has FUSE enabled. The DBFS root does not store files in ephemeral block volumes attached to the driver, but in the object storage associated with the workspace. Mounted directories will persist saved data to external storage between sessions, unless they are unmounted or deleted.

### NEW QUESTION # 33

Which method can be used to determine the total wall-clock time it took to execute a query?

- A. In the Spark UI, take the job duration of the longest-running job associated with that query.
- B. In the Spark UI, take the sum of all task durations that ran across all stages for all jobs associated with that query.

- C. Open the Query Profiler associated with that query and use the Aggregated task time metric.
- **D. Open the Query Profiler associated with that query and use the Total wall-clock duration metric.**

**Answer: D**

Explanation:

The Query Profiler in Databricks SQL and notebooks provides a detailed breakdown of query performance metrics. The "Total wall-clock duration" metric directly represents the total elapsed time from query start to completion, including all execution, planning, and waiting stages. In contrast, "Aggregated task time" reflects the cumulative duration across all parallel tasks, which does not equal the total elapsed wall time since tasks often run concurrently. Using job duration from Spark UI can underestimate or overestimate runtime when queries span multiple jobs.

Therefore, the Query Profiler's total wall-clock duration is the officially documented method to determine actual query execution time.

## NEW QUESTION # 34

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