

Databricks Certified Data Engineer Associate



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Purpose of this Exam Guide

This exam guide gives you an overview of the Databricks Certified Data Engineer Associate exam and what it covers 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. **Please check back two weeks before your exam to ensure you have the most current version. This version covers the currently live version as of Nov 30, 2025.**

Audience Description

The Databricks Certified Data Engineer Associate certification exam assesses an individual's ability to use the Databricks Data Intelligence Platform to complete introductory data engineering tasks. This includes an understanding of the Data Intelligence Platform, and its workspace, its architecture, and its capabilities. It also assesses the ability to perform ETL tasks using Apache Spark SQL or PySpark, covering extraction, complex data handling, and user-defined functions. Finally, the exam assesses the tester's ability to deploy and orchestrate workloads with Databricks workflows, configuring and scheduling jobs effectively. Individuals who pass this certification exam can be expected to complete basic data engineering tasks using Databricks and its associated tools.

About the Exam

- Number of scored items: 45 scored multiple-choice questions.
- Time limit: 90 minutes.
- Registration fee: USD 200
- Delivery method: Online or test center
- Test aides: None allowed
- Prerequisite: None required; course attendance and six months of hands-on experience in Databricks are highly recommended.
- Validity: 2 years.
- Recertification: Recertification is required every two years to maintain your certified status. To recertify, you must take the full exam that is currently live. Please review the "Getting Ready for the Exam" section on the exam webpage to prepare for retaking the exam.

- **Unscored Content:** Exams may include unscored items to gather statistical information for future use. These items are not identified on the form and do not impact your score. Additional time is factored into account for this content.

Recommended Training

- Instructor-led: [Data Engineering with Databricks](#)
- Self-paced (available in Databricks Academy):
 - Data Ingestion with Lakeflow Connect
 - Deploy Workloads with Lakeflow Jobs
 - Build Data Pipelines with Lakeflow Spark Declarative pipeline.
 - DevOps Essentials for Data Engineering.

Exam outline

Section 1: Databricks Intelligence Platform

- Enable features that simplify data layout decisions and optimize query performance.
- Explain the value of the Data Intelligence Platform.
- Identify the applicable compute to use for a specific use case.

Section 2: Development and Ingestion

- Use Databricks Connect in a data engineering workflow.
- Determine the capabilities of the Notebooks functionality.
- Classify valid Auto Loader sources and use cases.
- Demonstrate knowledge of Auto Loader syntax.
- Use Databricks' built-in debugging tools to troubleshoot a given issue.

Section 3: Data Processing & Transformations

- Describe the three layers of the Medallion Architecture and explain the purpose of each layer in a data processing pipeline.
- Classify the type of cluster and configuration for optimal performance based on the scenario in which the cluster is used.
- Emphasize the advantages of Lakeflow Spark Declarative Pipelines (for ETL process in Databricks).
- Implement data pipelines using Lakeflow Spark Declarative Pipelines.
- Identify DDL (Data Definition Language)/DML features.
- Compute complex aggregations and Metrics with PySpark Dataframes.

Section 4: Productionizing Data Pipelines

- Identify the difference between DAB and traditional deployment methods.
- Identify the structure of Asset Bundles.

- Deploy a workflow, repair, and rerun a task in case of failure.
- Use serverless for a hands-off, auto-optimized compute managed by Databricks.
- Analyzing the Spark UI to optimize the query.

Section 5: Data Governance & Quality

- Explain the difference between managed and external tables.
- Identify the grant of permissions to users and groups within UC.
- Identify key roles in UC.
- Identify how audit logs are stored.
- Use lineage features in Unity Catalog.
- Use the Delta Sharing feature available with Unity Catalog to share data.
- Identify the advantages and limitations of Delta sharing.
- Identify the types of delta sharing: Databricks vs. external systems.
- Analyze the cost considerations of data sharing across clouds.
- Identify Use cases of Lakehouse Federation when connected to external sources.

Sample Questions

These questions are retired from a previous version of the exam. The purpose is to show you the objectives as they are stated on the exam guide, and give you a sample question that aligns with the objective. The exam guide lists the objectives that could be covered on an exam. The best way to prepare for a certification exam is to review the exam outline in the exam guide.

Question 1

Objective: Compute complex aggregations and Metrics with PySpark Dataframes

A data engineer is curating data in the silver layer of a hospital management data warehouse system. The data engineer is trying to aggregate hospital billing data from a table **patient_billing** to generate a daily revenue fact table **daily_revenue**.

Assume this as a sample of the dataframe **billing_df**:

billing_id	patient_id	department	billing_date	amount_billed	quantity
401	p001	Cardiology	2024-03-01	1500	1
402	p002	Radiology	2024-03-02	3000	1
403	p001	Cardiology	2024-03-01	6500	1
404	p003	Radiology	2024-03-03	500	1

Which code snippet aggregates the amount billed per day with the unique invoices from a Dataframe `billing_df`?

- A.

```
daily_revenue_df = billing_df.groupBy("billing_date").agg(
    sum("amount_billed").alias("total_revenue"),
    sum("billing_id").alias("total_invoices")
)
```
- B.

```
daily_revenue_df = billing_df.groupBy("billing_date").agg(
    col("amount_billed").alias("total_revenue"),
    count("billing_id").alias("total_invoices")
)
```
- C.

```
daily_revenue_df = billing_df.groupBy("billing_date").agg(
    sum("amount_billed").alias("total_revenue"),
    count_distinct("patient_id").alias("total_invoices")
)
```
- D.

```
daily_revenue_df = billing_df.groupBy("billing_date").agg(
    sum("amount_billed").alias("total_revenue"),
    count_distinct("billing_id").alias("total_invoices")
)
```

Question 2

Objective: Identify grant of permissions to users and groups within UC

A data engineer is working on a Databricks project with a schema named `sales_data` that stores transactional sales information. The analyst group, responsible for analyzing this data, needs read-only access to the `sales_data` schema.

Which SQL command should the data engineer use to grant the analyst group read-only access to the `sales_data` schema, assuming that the analyst group already has `USE CATALOG` and `USE SCHEMA` permissions?

- A. `GRANT ALL PRIVILEGES ON SCHEMA sales_data TO analysts;`
- B. `GRANT SELECT ON SCHEMA sales_data TO analysts;`
- C. `GRANT INSERT ON SCHEMA sales_data TO analysts;`
- D. `GRANT SELECT ON ALL TABLES IN SCHEMA sales_data TO analysts;`

Question 3

Objective: Use the Delta Sharing feature available with Unity Catalog to share data

A data engineer is configuring Delta Sharing for a multi-team project where teams from different departments will need to access shared data. The data engineer has successfully created a Unity Catalog metastore and is now setting up the Delta Share. The goal is to ensure that internal teams can access the data with full permissions, while external partners can only read the shared data.

Which action should the Data Engineer take to configure the sharing?

- A. Grant READ permissions to external partners through the Delta Share and READ/WRITE permissions to internal teams on Unity Catalog.
- B. Create a Delta Share, add the internal team's tables and views, and assign READ/WRITE permissions to both external partners and internal teams.
- C. Create READ permissions to external partners and READ/WRITE permissions to internal teams through Delta Share.
- D. Create a Delta Share, set up a secure access URL for internal teams and external partners, and distribute the URL to provide them access to the shared data.

Question 4

Objective: Identify DDL (Data Definition Language)/DML features

A data engineer has determined that a table of the following format is necessary:

employeeId	startDate	avgRating
a1	2009-01-06	5.5
a2	2018-11-21	7.1
...

Which code block is used by SQL DDL command to create an empty Delta table in the above format, regardless of whether a table already exists with this name?

- A. `CREATE OR REPLACE TABLE table_name (employeeId STRING, startDate DATE, avgRating FLOAT)`
- B. `CREATE TABLE IF NOT EXISTS table_name (employeeId STRING, startDate DATE, avgRating FLOAT)`
- C. `CREATE TABLE table_name AS SELECT employeeId STRING, startDate DATE, avgRating FLOAT`
- D. `CREATE OR REPLACE TABLE table_name WITH COLUMNS (employeeId STRING, startDate DATE, avgRating FLOAT) USING DELTA`

Question 5

Objective: Identify DDL (Data Definition Language)/DML features.

A data engineer has been given a new record of data:

`id STRING = 'a1'`

`rank INTEGER = 6`

`rating FLOAT = 9.4`

Which SQL command can be used to append the new record to an existing Delta table **my_table**?

- A. `UPDATE VALUES ('a1', 6, 9.4) my_table`
- B. `UPDATE my_table VALUES ('a1', 6, 9.4)`
- C. `INSERT VALUES ('a1', 6, 9.4) INTO my_table`
- D. `INSERT INTO my_table VALUES ('a1', 6, 9.4)`

Answers

Question 1: D

Question 2: B

Question 3: A

Question 4: A

Question 5: D