

# Authentic Databricks-Certified-Data-Analyst-Associate Exam Questions & Reliable Databricks-Certified-Data-Analyst-Associate Test Materials



## 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 January 1, 2024. Please check back two weeks before you take your exam to make sure you have the most current version.**

## Audience Description

The Databricks Certified Data Analyst Associate certification exam assesses an individual's ability to use the Databricks SQL service to complete introductory data analysis tasks. This includes an understanding of the Databricks SQL service and its capabilities, an ability to manage data with Databricks tools following best practices, using SQL to complete data tasks in the Lakehouse, creating production-grade data visualizations and dashboards, and developing analytics applications to solve common data analytics problems. Individuals who pass this certification exam can be expected to complete basic data analysis tasks using Databricks SQL and its associated capabilities.

## About the Exam

- Number of items: 45 multiple-choice questions
- Time Limit: 90 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 six months of hands-on experience in Databricks is highly recommended
- Validity: 2 years
- Recertification: Recertification is required to maintain your certification status. To recertify, you must take the full 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, and additional time is factored into account for this content.

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## Databricks Databricks-Certified-Data-Analyst-Associate Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• Data Management: The topic describes Delta Lake as a tool for managing data files, Delta Lake manages table metadata, benefits of Delta Lake within the Lakehouse, tables on Databricks, a table owner's responsibilities, and the persistence of data. It also identifies management of a table, usage of Data Explorer by a table owner, and organization-specific considerations of PII data. Lastly, the topic it explains how the LOCATION keyword changes, usage of Data Explorer to secure data.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• SQL in the Lakehouse: It identifies a query that retrieves data from the database, the output of a SELECT query, a benefit of having ANSI SQL, access, and clean silver-level data. It also compares and contrasts MERGE INTO, INSERT TABLE, and COPY INTO. Lastly, this topic focuses on creating and applying UDFs in common scaling scenarios.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• Databricks SQL: This topic discusses key and side audiences, users, Databricks SQL benefits, complementing a basic Databricks SQL query, schema browser, Databricks SQL dashboards, and the purpose of Databricks SQL endpoints</li><li>• warehouses. Furthermore, the delves into Serverless Databricks SQL endpoint</li><li>• warehouses, trade-off between cluster size and cost for Databricks SQL endpoints</li><li>• warehouses, and Partner Connect. Lastly it discusses small-file upload, connecting Databricks SQL to visualization tools, the medallion architecture, the gold layer, and the benefits of working with streaming data.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>• Analytics applications: It describes key moments of statistical distributions, data enhancement, and the blending of data between two source applications. Moreover, the topic also explains last-mile ETL, a scenario in which data blending would be beneficial, key statistical measures, descriptive statistics, and discrete and continuous statistics.</li></ul>
Topic 5	<ul style="list-style-type: none"><li>• Data Visualization and Dashboarding: Sub-topics of this topic are about of describing how notifications are sent, how to configure and troubleshoot a basic alert, how to configure a refresh schedule, the pros and cons of sharing dashboards, how query parameters change the output, and how to change the colors of all of the visualizations. It also discusses customized data visualizations, visualization formatting, Query Based Dropdown List, and the method for sharing a dashboard.</li></ul>

## Databricks Certified Data Analyst Associate Exam Sample Questions (Q64-Q69):

### NEW QUESTION # 64

A data analyst has been asked to provide a list of options on how to share a dashboard with a client. It is a security requirement that the client does not gain access to any other information, resources, or artifacts in the database.

Which of the following approaches cannot be used to share the dashboard and meet the security requirement?

- A. Generate a Personal Access Token that is good for 1 day and share it with the client.
- B. Take a screenshot of the dashboard and share it with the client.
- C. Download the Dashboard as a PDF and share it with the client.
- D. Set a refresh schedule for the dashboard and enter the client's email address in the "Subscribers" box.
- E. Download a PNG file of the visualizations in the dashboard and share them with the client.

**Answer: A**

Explanation:

The approach that cannot be used to share the dashboard and meet the security requirement is D. Generating a Personal Access Token that is good for 1 day and sharing it with the client. This approach would give the client access to the Databricks workspace using the token owner's identity and permissions, which could expose other information, resources, or artifacts in the database1. The other approaches can be used to share the dashboard and meet the security requirement because:

A) Downloading the Dashboard as a PDF and sharing it with the client would only provide a static snapshot of the dashboard without any interactive features or access to the underlying data2.

B) Setting a refresh schedule for the dashboard and entering the client's email address in the "Subscribers" box would send the client an email with the latest dashboard results as an attachment or a link to a secure web page3. The client would not be able to access the Databricks workspace or the dashboard itself.

C) Taking a screenshot of the dashboard and sharing it with the client would also only provide a static snapshot of the dashboard without any interactive features or access to the underlying data4.

E) Downloading a PNG file of the visualizations in the dashboard and sharing them with the client would also only provide a static snapshot of the visualizations without any interactive features or access to the underlying data5. Reference:

1: Personal access tokens

2: Download as PDF

3: Automatically refresh a dashboard

4: Take a screenshot

5: Download a PNG file

**NEW QUESTION # 65**

A data analyst has been asked to configure an alert for a query that returns the income in the accounts\_receivable table for a date range. The date range is configurable using a Date query parameter.

The Alert does not work.

Which of the following describes why the Alert does not work?

- A. The wrong query parameter is being used. Alerts only work with dropdown list query parameters, not dates.
- B. **Queries that use query parameters cannot be used with Alerts.**
- C. Queries that return results based on dates cannot be used with Alerts.
- D. The wrong query parameter is being used. Alerts only work with Date and Time query parameters.
- E. Alerts don't work with queries that access tables.

**Answer: B**

Explanation:

The reason the alert is not functioning as expected is because Databricks SQL Alerts do not support query parameters. This limitation applies to all types of parameters, including date parameters.

Here's why:

Alerts require static, deterministic query results so they can compare values consistently during scheduled executions.

When a query includes parameters (e.g., a date range parameter), its results may change based on user input or the default value set in the query editor.

However, Databricks SQL Alerts will always use the default value set for the parameter at the time the alert is created. This means the alert doesn't dynamically adapt to new date ranges and will not reflect changes unless the query is manually updated.

As a result, if the business logic behind the alert depends on changing date ranges or any user input, the alert will not trigger correctly, or may never trigger at all.

Therefore, the correct explanation contradicts Option B, which is incorrect in saying that alerts cannot work with date-based queries at all. In fact, they can-as long as the query is static (i.e., without parameters).

Reference:

Databricks SQL Alerts Documentation

Databricks Knowledge: "You cannot use alerts with queries that contain parameters."

## NEW QUESTION # 66

A data analyst has been asked to count the number of customers in each region and has written the following query:

```
SELECT region, count(*) AS number_of_customers
  FROM customers
 ORDER BY region;
```



If there is a mistake in the query, which of the following describes the mistake?

- A. The query is missing a GROUP BY region clause.
- B. There are no mistakes in the query.
- C. The query is selecting region but region should only occur in the ORDER BY clause.
- D. The query is using count(). which will count all the customers in the customers table, no matter the region.
- E. The query is using ORDER BY. which is not allowed in an aggregation.

**Answer: A**

Explanation:

In the provided SQL query, the data analyst is trying to count the number of customers in each region. However, they made a mistake by not including the "GROUP BY" clause to group the results by region. Without this clause, the query will not return counts for each distinct region but rather an error or incorrect result. Reference: The need for a GROUP BY clause in such queries can be understood from Databricks SQL documentation: [Databricks SQL](#).

I also noticed that you uploaded an image with your question. The image shows a snippet of an SQL query written in plain text on a white background. The query is attempting to select regions and count customers from a "customers" table and order the results by region. There's no visible syntax highlighting or any other color - it's monochromatic. The query is the same as the one in your question. I'm not sure why you included the image, but maybe you wanted to show me the exact format of your query. If so, you can also use code blocks to display formatted content such as SQL queries. For example, you can write:

```
SELECT region, count(*) AS number_of_customers
  FROM customers
 ORDER BY region;
```

This way, you can avoid uploading images and make your questions more clear and concise. I hope this helps.

## NEW QUESTION # 67

A data analyst has a managed table `table_name` in database `database_name`. They would now like to remove the table from the database and all of the data files associated with the table. The rest of the tables in the database must continue to exist.

Which of the following commands can the analyst use to complete the task without producing an error?

- A. `DROP TABLE table_name FROM database_name;`
- B. `DROP DATABASE database_name;`
- C. `DELETE TABLE database_name.table_name;`
- D. `DELETE TABLE table_name FROM database_name;`
- E. `DROP TABLE database_name.table_name;`

**Answer: E**

## NEW QUESTION # 68

A data engineering team has created a Structured Streaming pipeline that processes data in micro-batches and populates gold-level tables. The microbatches are triggered every minute.

A data analyst has created a dashboard based on this gold-level data. The project stakeholders want to see the results in the dashboard updated within one minute or less of new data becoming available within the gold-level tables.

Which of the following cautions should the data analyst share prior to setting up the dashboard to complete this task?

- A. The dashboard cannot be refreshed that quickly
- B. The streaming data is not an appropriate data source for a dashboard
- C. The required compute resources could be costly
- D. The gold-level tables are not appropriately clean for business reporting
- E. The streaming cluster is not fault tolerant

**Answer: C**

#### Explanation:

A Structured Streaming pipeline that processes data in micro-batches and populates gold-level tables every minute requires a high level of compute resources to handle the frequent data ingestion, processing, and writing. This could result in a significant cost for the organization, especially if the data volume and velocity are large. Therefore, the data analyst should share this caution with the project stakeholders before setting up the dashboard and evaluate the trade-offs between the desired refresh rate and the available budget. The other options are not valid cautions because:

B) The gold-level tables are assumed to be appropriately clean for business reporting, as they are the final output of the data engineering pipeline. If the data quality is not satisfactory, the issue should be addressed at the source or silver level, not at the gold level.

C) The streaming data is an appropriate data source for a dashboard, as it can provide near real-time insights and analytics for the business users. Structured Streaming supports various sources and sinks for streaming data, including Delta Lake, which can enable both batch and streaming queries on the same data.

D) The streaming cluster is fault tolerant, as Structured Streaming provides end-to-end exactly-once fault-tolerance guarantees through checkpointing and write-ahead logs. If a query fails, it can be restarted from the last checkpoint and resume processing.

E) The dashboard can be refreshed within one minute or less of new data becoming available in the gold-level tables, as Structured Streaming can trigger micro-batches as fast as possible (every few seconds) and update the results incrementally. However, this may not be necessary or optimal for the business use case, as it could cause frequent changes in the dashboard and consume more resources. Reference: Streaming on Databricks, Monitoring Structured Streaming queries on Databricks, A look at the new Structured Streaming UI in Apache Spark 3.0, Run your first Structured Streaming workload

#### NEW QUESTION # 69

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