

HOT Exam Databricks-Certified-Data-Analyst-Associate

Demo - Databricks Databricks Certified Data Analyst Associate Exam - Valid Databricks-Certified-Data-Analyst-Associate Premium Exam



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.
- 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.

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

Topic	Details

Topic 1	• 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.
Topic 2	• 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.
Topic 3	• 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 • warehouses. Furthermore, the delves into Serverless Databricks SQL endpoint • warehouses, trade-off between cluster size and cost for Databricks SQL endpoints • 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.
Topic 4	• 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.
Topic 5	• 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.

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Databricks Certified Data Analyst Associate Exam Sample Questions (Q97-Q102):

NEW QUESTION # 97

What describes Partner Connect in Databricks?

- A. It is a feature that runs Databricks partner tools on a Databricks SQL Warehouse (formerly known as a SQL endpoint).
- **B. it allows multi-directional connection between Databricks and Databricks partners easier.**
- C. It exposes connection information to third-party tools via Databricks partners.
- D. it allows for free use of Databricks partner tools through a common API.

Answer: B

Explanation:

Databricks Partner Connect is designed to simplify and streamline the integration between Databricks and its technology partners. It provides a unified interface within the Databricks platform that facilitates the discovery and connection to a variety of data, analytics, and AI tools. By automating the configuration of necessary resources such as clusters, tokens, and connection files, Partner Connect enables seamless, bi-directional data flow between Databricks and partner solutions. This integration enhances the overall functionality of the Databricks Lakehouse by allowing users to easily incorporate external tools and services into their workflows, thereby expanding the platform's capabilities and fostering a more cohesive data ecosystem.https://www.databricks.com/blog/2021/11/18/now-generally-available-introducing-databricks-partner-connect-to-discover-and-connect-popular-data-and-ai-tools-to-the-lakehouse?utm_source=chatgpt.com

NEW QUESTION # 98

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

Answer: C

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. References:

* 1: Personal access tokens

* 2: Download as PDF

* 3: Automatically refresh a dashboard

* 4: Take a screenshot

* 5: Download a PNG file

NEW QUESTION # 99

In which circumstance will there be a substantial difference between the variable's mean and median values?

- A. When the variable is of the boolean type
- B. When the variable contains a lot of extreme outliers
- C. When the variable is of the categorical type
- D. When the variable contains no outliers

Answer: B

Explanation:

The mean is sensitive to extreme values, often called outliers, which can significantly skew the average away from the true center of the data. The median, however, is a measure of central tendency that is resistant to such outliers because it only considers the middle value(s) when the data is ordered. Therefore, when a variable contains many extreme outliers, there will be a substantial difference between the mean and the median. According to Databricks data analysis materials, this is a fundamental concept when choosing summary statistics for reporting.

NEW QUESTION # 100

A data analyst is troubleshooting a query in Databricks SQL that fails when processing large datasets and complex join operations. Logs indicate that the job consistently aborts due to resource constraint errors on the cluster. Which Query Profile metric should the analyst use to identify the operator that is causing resource overuse?

- A. Memory peak per operator
- B. Time spent per operator
- C. Bytes spilled to disk per operator
- D. Shuffle read size per operator

Answer: A

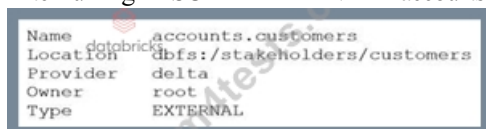
Explanation:

The correct answer is C because the issue is a resource constraint failure, and the analyst needs to identify which operator is consuming excessive memory. In Query Profile, Memory peak shows memory usage at the operator level and helps identify the operator causing resource overuse. Time spent helps identify slow operators, shuffle read size helps analyze data movement, and bytes spilled to disk indicates spill behavior, but the most direct metric for resource overuse due to memory pressure is memory peak.

Official documentation extract used: Databricks Query Profile graph view shows metrics such as "Time spent, Memory peak, and Rows."

NEW QUESTION # 101

After running `DESCRIBE EXTENDED accounts.customers;`, the following was returned:



Name	accounts.customers
Location	dbfs:/stakeholders/customers
Provider	delta
Owner	root
Type	EXTERNAL

Now, a data analyst runs the following command:

`DROP accounts.customers;`

Which of the following describes the result of running this command?

- A. Running `SELECT * FROM accounts.customers` will return all rows in the table.
- B. The `accounts.customers` table is removed from the metastore, and the underlying data files are deleted.
- C. Running `SELECT * FROM delta.`dbfs:/stakeholders/customers`` results in an error.
- D. The `accounts.customers` table is removed from the metastore, but the underlying data files are untouched.
- E. All files with the `.customers` extension are deleted.

Answer: D

Explanation:

the `accounts.customers` table is an EXTERNAL table, which means that it is stored outside the default warehouse directory and is not managed by Databricks. Therefore, when you run the DROP command on this table, it only removes the metadata information from the metastore, but does not delete the actual data files from the file system. This means that you can still access the data using the location path (`dbfs:/stakeholders`

`/customers`) or create another table pointing to the same location. However, if you try to query the table using its name (`accounts.customers`), you will get an error because the table no longer exists in the metastore. References: DROP TABLE | Databricks on AWS, Best practices for dropping a managed Delta Lake table - Databricks

NEW QUESTION # 102

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