

Databricks-Certified-Data-Analyst-Associate Exam Question - Databricks-Certified-Data-Analyst-Associate Test Engine Version



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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We offer three different formats for preparing for the Databricks Certified Data Analyst Associate Exam (Databricks-Certified-Data-Analyst-Associate) exam questions, all of which will ensure your definite success on your Databricks Certified Data Analyst Associate Exam (Databricks-Certified-Data-Analyst-Associate) exam dumps. TorrentValid is there with updated Databricks-Certified-Data-Analyst-Associate Questions so you can pass the Databricks Certified Data Analyst Associate Exam (Databricks-Certified-Data-Analyst-Associate) exam and move toward the new era of technology with full ease and confidence.

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Engine Version

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

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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 2	<ul style="list-style-type: none">• 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.
Topic 3	<ul style="list-style-type: none">• 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 4	<ul style="list-style-type: none">• 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 5	<ul style="list-style-type: none">• 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.

Databricks Certified Data Analyst Associate Exam Sample Questions (Q61-Q66):

NEW QUESTION # 61

A data analyst creates a Databricks SQL Query where the result set has the following schema:

region STRING

number_of_customer INT

When the analyst clicks on the "Add visualization" button on the SQL Editor page, which of the following types of visualizations will be selected by default?

- A. Histogram
- **B. IBar Chart**
- C. Violin Chart
- D. Line Chart

- E. There is no default. The user must choose a visualization type.

Answer: B

Explanation:

According to the Databricks SQL documentation, when a data analyst clicks on the "Add visualization" button on the SQL Editor page, the default visualization type is Bar Chart. This is because the result set has two columns: one of type STRING and one of type INT. The Bar Chart visualization automatically assigns the STRING column to the X-axis and the INT column to the Y-axis. The Bar Chart visualization is suitable for showing the distribution of a numeric variable across different categories. Reference: Visualization in Databricks SQL, Visualization types

NEW QUESTION # 62

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 10 minutes.

A data analyst has created a dashboard based on this gold level dat

a. The project stakeholders want to see the results in the dashboard updated within 10 minutes or less of new data becoming available within the gold-level tables.

What is the ability to ensure the streamed data is included in the dashboard at the standard requested by the project stakeholders?

- A. A refresh schedule with an interval of 10 minutes or less
- B. A refresh schedule with stakeholders included as subscribers
- C. A refresh schedule with a Structured Streaming cluster
- D. A refresh schedule with an always-on SQL Warehouse (formerly known as SQL Endpoint)

Answer: A

Explanation:

In this scenario, the data engineering team has configured a Structured Streaming pipeline that updates the gold-level tables every 10 minutes. To ensure that the dashboard reflects the most recent data, it is essential to set the dashboard's refresh schedule to an interval of 10 minutes or less. This synchronization ensures that stakeholders view the latest information shortly after it becomes available in the gold-level tables. Options B, C, and D do not directly address the requirement of aligning the dashboard refresh frequency with the data update interval.

NEW QUESTION # 63

A data team has been given a series of projects by a consultant that need to be implemented in the Databricks Lakehouse Platform. Which of the following projects should be completed in Databricks SQL?

- A. Combining two data sources into a single, comprehensive dataset
- B. Testing the quality of data as it is imported from a source
- C. Automating complex notebook-based workflows with multiple tasks
- D. Tracking usage of feature variables for machine learning projects
- E. Segmenting customers into like groups using a clustering algorithm

Answer: A

Explanation:

Databricks SQL is a service that allows users to query data in the lakehouse using SQL and create visualizations and dashboards¹. One of the common use cases for Databricks SQL is to combine data from different sources and formats into a single, comprehensive dataset that can be used for further analysis or reporting². For example, a data analyst can use Databricks SQL to join data from a CSV file and a Parquet file, or from a Delta table and a JDBC table, and create a new table or view that contains the combined data³. This can help simplify the data management and governance, as well as improve the data quality and consistency. Reference:

Databricks SQL overview

Databricks SQL use cases

Joining data sources

NEW QUESTION # 64

Which of the following describes how Databricks SQL should be used in relation to other business intelligence (BI) tools like

Tableau, Power BI, and Looker?

- A. As a complete replacement with additional functionality
- B. As a substitute with less functionality
- C. As a complementary tool for professional-grade presentations
- **D. As a complementary tool for quick in-platform BI work**
- E. As an exact substitute with the same level of functionality

Answer: D

Explanation:

Databricks SQL is not meant to replace or substitute other BI tools, but rather to complement them by providing a fast and easy way to query, explore, and visualize data on the lakehouse using the built-in SQL editor, visualizations, and dashboards. Databricks SQL also integrates seamlessly with popular BI tools like Tableau, Power BI, and Looker, allowing analysts to use their preferred tools to access data through Databricks clusters and SQL warehouses. Databricks SQL offers low-code and no-code experiences, as well as optimized connectors and serverless compute, to enhance the productivity and performance of BI workloads on the lakehouse. Reference: Databricks SQL, Connecting Applications and BI Tools to Databricks SQL, Databricks integrations overview, Databricks SQL: Delivering a Production SQL Development Experience on the Lakehouse

NEW QUESTION # 65

A data scientist has asked a data analyst to create histograms for every continuous variable in a data set. The data analyst needs to identify which columns are continuous in the data set.

What describes a continuous variable?

- A. A categorical variable in which the number of categories continues to increase over time
- B. A quantitative variable that never stops changing
- C. A quantitative variable that can take on a finite or countably infinite set of values
- **D. A quantitative variable that can take on an uncountable set of values**

Answer: D

Explanation:

A continuous variable is a type of quantitative variable that can assume an infinite number of values within a given range. This means that between any two possible values, there can be an infinite number of other values. For example, variables such as height, weight, and temperature are continuous because they can be measured to any level of precision, and there are no gaps between possible values. This is in contrast to discrete variables, which can only take on specific, distinct values (e.g., the number of children in a family). Understanding the nature of continuous variables is crucial for data analysts, especially when selecting appropriate statistical methods and visualizations, such as histograms, to accurately represent and analyze the data.

NEW QUESTION # 66

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