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Perhaps it was because of the work that there was not enough time to learn, or because the lack of the right method of learning led to a lot of time still failing to pass the Databricks-Certified-Data-Analyst-Associate examination. Whether you are the first or the second or even more taking Databricks-Certified-Data-Analyst-Associate examination, our Databricks-Certified-Data-Analyst-Associate exam prep not only can help you to save much time and energy but also can help you pass the exam. In the other words, passing the exam once will no longer be a dream.

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

Topic	Details
Topic 1	<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 2	<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 3	<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>
Topic 4	<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 5	<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, it 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>
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### **Databricks Certified Data Analyst Associate Exam Sample Questions (Q43-Q48):**

#### **NEW QUESTION # 43**

A data analyst runs the following command:

```
SELECT age, country
FROM my_table
WHERE age >= 75 AND country = 'canada';
Which of the following tables represents the output of the above command?
```

- A.
- B.
- C.
- D.
- E.

#### **Answer: A**

Explanation:

The SQL query provided is designed to filter out records from "my\_table" where the age is 75 or above and the country is Canada. Since I can't view the content of the links provided directly, I need to rely on the image attached to this question for context. Based on that, Option E (the image attached) represents a table with columns "age" and "country", showing records where age is 75 or above and country is Canada. Reference: The answer can be inferred from understanding SQL queries and their outputs as per Databricks documentation: Databricks SQL

#### **NEW QUESTION # 44**

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 gold-level tables are not appropriately clean for business reporting
- C. The required compute resources could be costly
- D. The streaming cluster is not fault tolerant

- E. The streaming data is not an appropriate data source for a dashboard

**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 # 45**

Data professionals with varying titles use the Databricks SQL service as the primary touchpoint with the Databricks Lakehouse Platform. However, some users will use other services like Databricks Machine Learning or Databricks Data Science and Engineering.

Which of the following roles uses Databricks SQL as a secondary service while primarily using one of the other services?

- A. Business intelligence analyst
- B. Business analyst
- **C. Data engineer**
- D. SQL analyst
- E. Data analyst

**Answer: C**

Explanation:

Data engineers are primarily responsible for building, managing, and optimizing data pipelines and architectures. They use Databricks Data Science and Engineering service to perform tasks such as data ingestion, transformation, quality, and governance. Data engineers may use Databricks SQL as a secondary service to query, analyze, and visualize data from the lakehouse, but this is not their main focus. Reference: Databricks SQL overview, Databricks Data Science and Engineering overview, Data engineering with Databricks

**NEW QUESTION # 46**

Which statement about subqueries is correct?

- A. Subqueries can be used like other built-in functions to transform data into different data types.
- **B. Subqueries can retrieve data without requiring the creation of a table or view.**
- C. Subqueries are not available in Databricks SQL
- D. Subqueries can be used like other user-defined functions to transform data into different data types.

**Answer: B**

Explanation:

In Databricks SQL, a subquery is a nested query within a larger SQL query that allows for the retrieval of data without the necessity of creating a table or view. This is particularly useful for simplifying complex queries by breaking them down into more manageable parts. Subqueries can be employed in various clauses such as SELECT, FROM, and WHERE to perform operations like filtering,

transforming, and aggregating data on-the-fly. This flexibility enhances query efficiency and readability without the overhead of persisting intermediate results as separate tables or views.

#### NEW QUESTION # 47

In which of the following situations will the mean value and median value of variable be meaningfully different?

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

**Answer: C**

Explanation:

The mean value of a variable is the average of all the values in a data set, calculated by dividing the sum of the values by the number of values. The median value of a variable is the middle value of the ordered data set, or the average of the middle two values if the data set has an even number of values. The mean value is sensitive to outliers, which are values that are very different from the rest of the data. Outliers can skew the mean value and make it less representative of the central tendency of the data. The median value is more robust to outliers, as it only depends on the middle values of the data. Therefore, when the variable contains a lot of extreme outliers, the mean value and the median value will be meaningfully different, as the mean value will be pulled towards the outliers, while the median value will remain close to the majority of the data. Reference: Difference Between Mean and Median in Statistics (With Example) - BYJU'S

#### NEW QUESTION # 48

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