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

Topic	Details
Topic 1	<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 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 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 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"> • 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, it 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.
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Databricks Certified Data Analyst Associate Exam Sample Questions (Q41-Q46):

NEW QUESTION # 41

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 data

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

Answer: D

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 # 42

Which of the following layers of the medallion architecture is most commonly used by data analysts?

- A. Gold
- B. Bronze
- C. None of these layers are used by data analysts
- D. All of these layers are used equally by data analysts
- E. Silver

Answer: A

Explanation:

The gold layer of the medallion architecture contains data that is highly refined and aggregated, and powers analytics, machine learning, and production applications. Data analysts typically use the gold layer to access data that has been transformed into knowledge, rather than just information. The gold layer represents the final stage of data quality and optimization in the lakehouse. Reference: What is the medallion lakehouse architecture?

NEW QUESTION # 43

What is used as a compute resource for Databricks SQL?

- A. Downstream BI tools integrated with Databricks SQL
- **B. SQL warehouses**
- C. Single-node clusters
- D. Standard clusters

Answer: B

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

Answer: B

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

A data analyst is processing a complex aggregation on a table with zero null values and their query returns the following result:

group_1	group_2	sum
null	null	100
null	Y	70
null	Z	30
A	null	50
A	Y	30
A	Z	20
B	null	50
B	Y	40
B	Z	10

Which of the following queries did the analyst run to obtain the above result?

```
SELECT
  group_1,
  group_2,
  count(values) AS count
FROM my_table
GROUP BY group_1, group_2;
```

- A.
- B.

```
SELECT
  group_1,
  group_2,
  count(values) AS count
FROM my_table
GROUP BY group_1, group_2, (group_1, group_2);
```

```
SELECT
  group_1,
  group_2,
  count(values) AS count
FROM my_table
GROUP BY group_1, group_2 INCLUDING NULL;
```

- C.

```
SELECT
  group_1,
  group_2,
  count(values) AS count
FROM my_table
GROUP BY group_1, group_2 WITH ROLLUP;
```

- D.

```
SELECT
  group_1,
  group_2,
  count(values) AS count
FROM my_table
GROUP BY group_1, group_2 WITH CUBE;
```

- E.

Answer: D

Explanation:

The result set provided shows a combination of grouping by two columns (group_1 and group_2) with subtotals for each level of grouping and a grand total. This pattern is typical of a GROUP BY ... WITH ROLLUP operation in SQL, which provides subtotal rows and a grand total row in the result set.

Considering the query options:

- A) Option A: GROUP BY group_1, group_2 INCLUDING NULL - This is not a standard SQL clause and would not result in subtotals and a grand total.
- B) Option B: GROUP BY group_1, group_2 WITH ROLLUP - This would create subtotals for each unique group_1, each combination of group_1 and group_2, and a grand total, which matches the result set provided.
- C) Option C: GROUP BY group_1, group 2 - This is a simple GROUP BY and would not include subtotals or a grand total.
- D) Option D: GROUP BY group_1, group_2, (group_1, group_2) - This syntax is not standard and would likely result in an error or be interpreted as a simple GROUP BY, not providing the subtotals and grand total.
- E) Option E: GROUP BY group_1, group_2 WITH CUBE - The WITH CUBE operation produces subtotals for all combinations of the selected columns and a grand total, which is more than what is shown in the result set.

The correct answer is Option B, which uses WITH ROLLUP to generate the subtotals for each level of grouping as well as a grand total. This matches the result set where we have subtotals for each group_1, each combination of group_1 and group_2, and the grand total where both group_1 and group_2 are NULL.

NEW QUESTION # 46

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