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Databricks Certified Data Engineer Associate Study Guide

In-Depth Guidance and Practice



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The GAQM Databricks-Certified-Data-Engineer-Associate Exam is a rigorous and challenging certification that requires candidates to have a strong foundation in data engineering principles and practices. It is recommended that candidates have at least 2-3 years of experience working with big data technologies before attempting the exam. However, there are training courses and study materials available to help candidates prepare for the exam and gain the necessary skills and knowledge.

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Databricks Certified Data Engineer Associate Exam Sample Questions (Q52-Q57):

NEW QUESTION # 52

A data engineering team has noticed that their Databricks SQL queries are running too slowly when they are submitted to a non-running SQL endpoint. The data engineering team wants this issue to be resolved.

Which of the following approaches can the team use to reduce the time it takes to return results in this scenario?

- A. They can increase the cluster size of the SQL endpoint.
- **B. They can turn on the Serverless feature for the SQL endpoint.**
- C. They can turn on the Auto Stop feature for the SQL endpoint.
- D. They can turn on the Serverless feature for the SQL endpoint and change the Spot Instance Policy to "Reliability Optimized."
- E. They can increase the maximum bound of the SQL endpoint's scaling range

Answer: B

Explanation:

Option D is the correct answer because it enables the Serverless feature for the SQL endpoint, which allows the endpoint to automatically scale up and down based on the query load. This way, the endpoint can handle more concurrent queries and reduce the time it takes to return results. The Serverless feature also reduces the cold start time of the endpoint, which is the time it takes to start the cluster when a query is submitted to a non-running endpoint. The Serverless feature is available for both AWS and Azure Databricks platforms.

NEW QUESTION # 53

A data organization leader is upset about the data analysis team's reports being different from the data engineering team's reports. The leader believes the siloed nature of their organization's data engineering and data analysis architectures is to blame.

Which of the following describes how a data lakehouse could alleviate this issue?

- A. Both teams would respond more quickly to ad-hoc requests
- B. Both teams would reorganize to report to the same department
- C. Both teams would autoscale their work as data size evolves
- D. Both teams would be able to collaborate on projects in real-time
- **E. Both teams would use the same source of truth for their work**

Answer: E

Explanation:

A data lakehouse is a data management architecture that combines the flexibility, cost-efficiency, and scale of data lakes with the data management and ACID transactions of data warehouses, enabling business intelligence (BI) and machine learning (ML) on all data^{1,2}. By using a data lakehouse, both the data analysis and data engineering teams can access the same data sources and formats, ensuring data consistency and quality across their reports. A data lakehouse also supports schema enforcement and evolution, data validation, and time travel to old table versions, which can help resolve data conflicts and errors¹. References: 1: What is a Data Lakehouse? - Databricks 2: What is a data lakehouse? | IBM

NEW QUESTION # 54

A data engineer has created a new database using the following command:

```
CREATE DATABASE IF NOT EXISTS customer360;
```

In which of the following locations will the customer360 database be located?

- A. More information is needed to determine the correct response
- **B. dbfs:/user/hive/warehouse**

- C. dbfs:/user/hive/database/customer360
- D. dbfs:/user/hive/customer360

Answer: B

Explanation:

dbfs:/user/hive/warehouse Thereby showing "dbfs:/user/hive/warehouse/customer360.db" The location of the customer360 database depends on the value of the spark.sql.warehouse.dir configuration property, which specifies the default location for managed databases and tables. If the property is not set, the default value is dbfs:/user/hive/warehouse. Therefore, the customer360 database will be located in dbfs:/user/hive/warehouse/customer360.db. However, if the property is set to a different value, such as dbfs:/user/hive/database, then the customer360 database will be located in dbfs:/user/hive/database/customer360.db. Thus, more information is needed to determine the correct response.

Option A is not correct, as dbfs:/user/hive/database/customer360 is not the default location for managed databases and tables, unless the spark.sql.warehouse.dir property is explicitly set to dbfs:/user/hive/database.

Option B is not correct, as dbfs:/user/hive/warehouse is the default location for the root directory of managed databases and tables, not for a specific database. The database name should be appended with .db to the directory path, such as dbfs:/user/hive/warehouse/customer360.db.

Option C is not correct, as dbfs:/user/hive/customer360 is not a valid location for a managed database, as it does not follow the directory structure specified by the spark.sql.warehouse.dir property.

Reference:

Databases and Tables

[Databricks Data Engineer Professional Exam Guide]

NEW QUESTION # 55

A data engineer works for an organization that must meet a stringent Service Level Agreement (SLA) that demands minimal runtime errors and high availability for its data processing pipelines. The data engineer wants to avoid the operational overhead of managing and tuning clusters.

Which architectural solution will meet the requirements?

- A. Utilize Databricks serverless compute that automatically optimizes resources and abstracts cluster management.
- B. Use an auto-scaling cluster configured and monitored by the user.
- C. Implement a hybrid approach with scheduled batch jobs on custom cloud VMs.
- D. Deploy a dedicated, manually managed cluster optimized by in-house IT staff.

Answer: A

NEW QUESTION # 56

A data engineer has realized that they made a mistake when making a daily update to a table. They need to use Delta time travel to restore the table to a version that is 3 days old. However, when the data engineer attempts to time travel to the older version, they are unable to restore the data because the data files have been deleted.

Which of the following explains why the data files are no longer present?

- A. The VACUUM command was run on the table
- B. The OPTIMIZE command was run on the table
- C. The TIME TRAVEL command was run on the table
- D. The DELETE HISTORY command was run on the table
- E. The HISTORY command was run on the table

Answer: A

Explanation:

The VACUUM command is used to remove files that are no longer referenced by a Delta table and are older than the retention threshold¹. The default retention period is 7 days², but it can be changed by setting the delta.logRetentionDuration and delta.deletedFileRetentionDuration configurations³. If the VACUUM command was run on the table with a retention period shorter than 3 days, then the data files that were needed to restore the table to a 3-day-old version would have been deleted. The other commands do not delete data files from the table. The TIME TRAVEL command is used to query a historical version of the table⁴. The DELETE HISTORY command is not a valid command in Delta Lake. The OPTIMIZE command is used to improve the performance of the table by compacting small files into larger ones⁵. The HISTORY command is used to retrieve information about the operations performed on the table. Reference: 1: VACUUM | Databricks on AWS 2: Work with Delta Lake table history |

Databricks on AWS 3: [Delta Lake configuration | Databricks on AWS] 4: Work with Delta Lake table history - Azure Databricks 5: [OPTIMIZE | Databricks on AWS] : [HISTORY | Databricks on AWS]

NEW QUESTION # 57

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