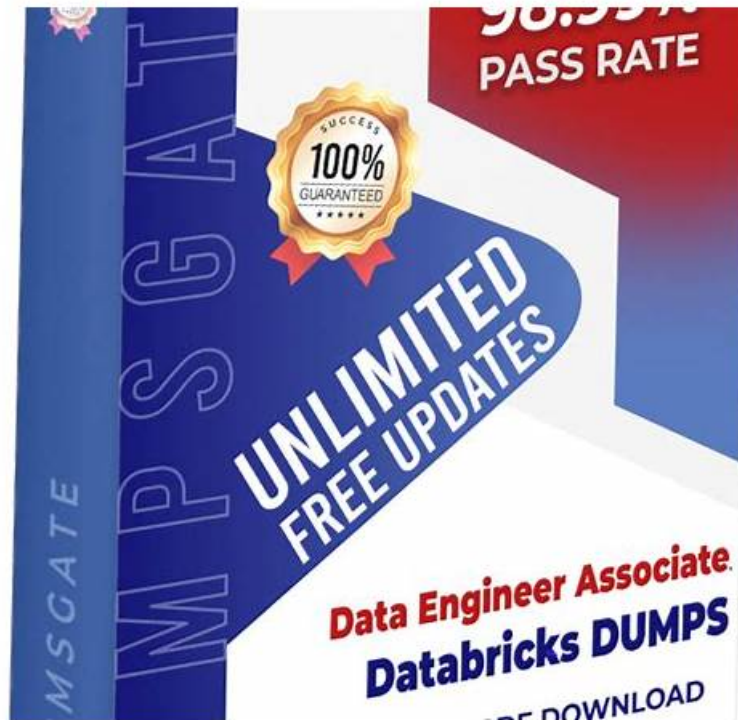


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The GAQM Databricks-Certified-Data-Engineer-Associate (Databricks Certified Data Engineer Associate) Certification Exam is a rigorous exam that tests candidates on their practical skills and knowledge of data engineering. Candidates will be required to complete a series of multiple-choice questions and hands-on tasks that simulate real-world data engineering scenarios. Databricks-Certified-Data-Engineer-Associate Exam is designed to ensure that candidates have the necessary skills and knowledge to build and maintain large-scale data pipelines.

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The GAQM Databricks-Certified-Data-Engineer-Associate Certification Exam is designed to test the skills and knowledge of data

engineers who use Databricks for data processing and analysis. Databricks is a cloud-based data engineering platform that provides an integrated environment for data engineers to collaborate and build data pipelines. Databricks Certified Data Engineer Associate Exam certification exam covers a range of topics related to Databricks, including data ingestion, data transformation, data processing, and data analysis.

Databricks Certified Data Engineer Associate Exam Sample Questions (Q107-Q112):

NEW QUESTION # 107

A Python file is ready to go into production and the client wants to use the cheapest but most efficient type of cluster possible. The workload is quite small, only processing 10GBs of data with only simple joins and no complex aggregations or wide transformations. Which cluster meets the requirement?

- A. Job cluster with Photon enabled
- B. Job cluster with spot instances disabled
- **C. Job cluster with spot instances enabled**
- D. Interactive cluster

Answer: C

NEW QUESTION # 108

A data engineer is designing a data pipeline. The source system generates files in a shared directory that is also used by other processes. As a result, the files should be kept as is and will accumulate in the directory. The data engineer needs to identify which files are new since the previous run in the pipeline, and set up the pipeline to only ingest those new files with each run. Which of the following tools can the data engineer use to solve this problem?

- A. Data Explorer
- **B. Auto Loader**
- C. Unity Catalog
- D. Delta Lake
- E. Databricks SQL

Answer: B

Explanation:

Auto Loader is a tool that can incrementally and efficiently process new data files as they arrive in cloud storage without any additional setup. Auto Loader provides a Structured Streaming source called `cloudFiles`, which automatically detects and processes new files in a given input directory path on the cloud file storage. Auto Loader also tracks the ingestion progress and ensures exactly-once semantics when writing data into Delta Lake. Auto Loader can ingest various file formats, such as JSON, CSV, XML, PARQUET, AVRO, ORC, TEXT, and BINARYFILE. Auto Loader has support for both Python and SQL in Delta Live Tables, which are a declarative way to build production-quality data pipelines with Databricks. Reference: What is Auto Loader?, Get started with Databricks Auto Loader, Auto Loader in Delta Live Tables

NEW QUESTION # 109

A data analysis team has noticed that their Databricks SQL queries are running too slowly when connected to their always-on SQL endpoint. They claim that this issue is present when many members of the team are running small queries simultaneously. They ask the data engineering team for help. The data engineering team notices that each of the team's queries uses the same SQL endpoint. Which of the following approaches can the data engineering team use to improve the latency of the team's queries?

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

Answer: A

Explanation:

NEW QUESTION # 110

Which of the following describes a scenario in which a data engineer will want to use a single-node cluster?

- **A. When they are working interactively with a small amount of data**
- B. When they are running automated reports to be refreshed as quickly as possible
- C. When they are manually running reports with a large amount of data
- D. When they are concerned about the ability to automatically scale with larger data
- E. When they are working with SQL within Databricks SQL

Answer: A

Explanation:

The scenario in which a data engineer will want to use a single-node cluster is when they are working interactively with a small amount of data. A single-node cluster is a cluster consisting of an Apache Spark driver and no Spark workers¹. A single-node cluster supports Spark jobs and all Spark data sources, including Delta Lake¹. A single-node cluster is helpful for single-node machine learning workloads that use Spark to load and save data, and for lightweight exploratory data analysis¹. A single-node cluster can run Spark locally, spawn one executor thread per logical core in the cluster, and save all log output in the driver log¹. A single-node cluster can be created by selecting the Single Node button when configuring a cluster¹.

The other options are not suitable for using a single-node cluster. When running automated reports to be refreshed as quickly as possible, a data engineer will want to use a multi-node cluster that can scale up and down automatically based on the workload demand². When working with SQL within Databricks SQL, a data engineer will want to use a SQL Endpoint that can execute SQL queries on a serverless pool or an existing cluster³. When concerned about the ability to automatically scale with larger data, a data engineer will want to use a multi-node cluster that can leverage the Databricks Lakehouse Platform and the Delta Engine to handle large-scale data processing efficiently and reliably⁴. When manually running reports with a large amount of data, a data engineer will want to use a multi-node cluster that can distribute the computation across multiple workers and leverage the Spark UI to monitor the performance and troubleshoot the issues.

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1: Single Node clusters | Databricks on AWS

2: Autoscaling | Databricks on AWS

3: SQL Endpoints | Databricks on AWS

4: Databricks Lakehouse Platform | Databricks on AWS

5: [Spark UI | Databricks on AWS]

NEW QUESTION # 111

A data engineer has been given a new record of data:

id STRING = 'a1'

rank INTEGER = 6

rating FLOAT = 9.4

Which of the following SQL commands can be used to append the new record to an existing Delta table my_table?

- A. INSERT VALUES ('a1' , 6, 9.4) INTO my_table
- **B. INSERT INTO my_table VALUES ('a1', 6, 9.4)**
- C. UPDATE my_table VALUES ('a1', 6, 9.4)
- D. my_table UNION VALUES ('a1', 6, 9.4)
- E. UPDATE VALUES ('a1', 6, 9.4) my_table

Answer: B

NEW QUESTION # 112

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