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Databricks Certified Data Engineer Associate certification is ideal for professionals working in data engineering, data warehousing, and data modeling roles. Databricks Certified Data Engineer Associate Exam certification demonstrates the candidate's knowledge of Databricks and their ability to design and implement data engineering solutions using Databricks. It also validates their understanding of data transformation, ETL processes, data warehousing, and data modeling concepts. Databricks Certified Data Engineer Associate Exam certification can enhance the candidate's career opportunities and increase their earning potential.

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The GAQM Databricks-Certified-Data-Engineer-Associate Exam consists of multiple-choice questions that cover various topics related to data engineering using Databricks. Databricks-Certified-Data-Engineer-Associate exam tests a candidate's knowledge of data engineering concepts, big data processing and analytics, and cloud computing using Databricks. Candidates are required to pass the exam to earn the Databricks Certified Data Engineer Associate certification.

Databricks Certified Data Engineer Associate Exam Sample Questions (Q113-Q118):

NEW QUESTION # 113
Which of the following SQL keywords can be used to convert a table from a long format to a wide format?

- A. WHERE
- B. SUM
- C. CONVERT
- D. PIVOT
- E. TRANSFORM

Answer: D

Explanation:
Explanation
The SQL keyword PIVOT can be used to convert a table from a long format to a wide format. A long format table has one column for each variable and one row for each observation. A wide format table has one column for each variable and value combination and one row for each observation. PIVOT allows you to specify the column that contains the values to be pivoted, the column that contains the categories to be pivoted, and the aggregation function to be applied to the values. For example, the following query converts a long format table of sales data into a wide format table with columns for each product and sum of sales:
SELECT *
FROM sales
PIVOT (
SUM(sales_amount) FOR product IN ('A', 'B', 'C')
)
References: The information can be referenced from Databricks documentation on SQL: PIVOT.
https://files.training.databricks.com/assessments/practice-exams/PracticeExam-DataEngineerAssociate.pdf
https://community.databricks.com/t5/data-engineering/practice-exams-for-databricks-certified-data-engineer/td-p

NEW QUESTION # 114
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 with SQL within Databricks SQL
- B. When they are working interactively with a small amount of data
- C. When they are manually running reports with a large amount of data
- D. When they are running automated reports to be refreshed as quickly as possible
- E. When they are concerned about the ability to automatically scale with larger data

Answer: B

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.
References:
* 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
* : [Spark UI | Databricks on AWS]

NEW QUESTION # 115
A data engineer has developed a data pipeline to ingest data from a JSON source using Auto Loader, but the engineer has not

provided any type inference or schema hints in their pipeline. Upon reviewing the data, the data engineer has noticed that all of the columns in the target table are of the string type despite some of the fields only including float or boolean values.
Which of the following describes why Auto Loader inferred all of the columns to be of the string type?

- A. There was a type mismatch between the specific schema and the inferred schema
- B. Auto Loader only works with string data
- C. JSON data is a text-based format
- D. All of the fields had at least one null value
- E. Auto Loader cannot infer the schema of ingested data

Answer: C

Explanation:
Explanation
JSON data is a text-based format that uses strings to represent all values. When Auto Loader infers the schema of JSON data, it assumes that all values are strings. This is because Auto Loader cannot determine the type of a value based on its string representation. https://docs.databricks.com/en/ingestion/auto-loader/schema.html Forexample, the following JSON string represents a value that is logically a boolean: JSON "true" Use code with caution. Learn more However, Auto Loader would infer that the type of this value is string. This is because Auto Loader cannot determine that the value is a boolean based on its string representation. In order to get Auto Loader to infer the correct types for columns, the data engineer can provide type inference or schema hints. Type inference hints can be used to specify the types of specific columns. Schema hints can be used to provide the entire schema of the data.
Therefore, the correct answer is B. JSON data is a text-based format.

NEW QUESTION # 116
Which tool is used by Auto Loader to process data incrementally?

- A. Databricks SQL
- B. Checkpointing
- C. Unity Catalog
- D. Spark Structured Streaming

Answer: D

Explanation:
Auto Loader in Databricks utilizes Spark Structured Streaming for processing data incrementally. This allows Auto Loader to efficiently ingest streaming or batch data at scale and to recognize new data as it arrives in cloud storage. Spark Structured Streaming provides the underlying engine that supports various incremental data loading capabilities like schema inference and file notification mode, which are crucial for the dynamic nature of data lakes.
Reference:
Databricks documentation on Auto Loader: Auto Loader Overview

NEW QUESTION # 117
A data engineer needs to determine whether to use the built-in Databricks Notebooks versioning or version their project using Databricks Repos.
Which of the following is an advantage of using Databricks Repos over the Databricks Notebooks versioning?

- A. Databricks Repos is wholly housed within the Databricks Lakehouse Platform
- B. Databricks Repos provides the ability to comment on specific changes
- C. Databricks Repos supports the use of multiple branches
- D. Databricks Repos automatically saves development progress
- E. Databricks Repos allows users to revert to previous versions of a notebook

Answer: C

Explanation:
Databricks Repos is a visual Git client and API in Databricks that supports common Git operations such as cloning, committing, pushing, pulling, and branch management. Databricks Notebooks versioning is a legacy feature that allows users to link notebooks to GitHub repositories and perform basic Git operations. However, Databricks Notebooks versioning does not support the use of

multiple branches for development work, which is an advantage of using Databricks Repos. With Databricks Repos, users can create and manage branches for different features, experiments, or bug fixes, and merge, rebase, or resolve conflicts between them. Databricks recommends using a separate branch for each notebook and following data science and engineering code development best practices using Git for version control, collaboration, and CI/CD. References: Git integration with Databricks Repos - Azure Databricks | Microsoft Learn, Git version control for notebooks (legacy) | Databricks on AWS, Databricks Repos Is Now Generally Available - New 'Files' Feature in ..., Databricks Repos - What it is and how we can use it | Adatis.

NEW QUESTION # 118

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