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Databricks		Certification Details
Databricks Certified Data Engineer Associate		
 Prior Certification Not Required	 Exam Validity 2 Years	 Exam Fee \$200 USD
 Exam Duration 90 Minutes	 No. of Questions 45 Questions	 Passing Marks 70%
 Recommended Experience Basic coding knowledge in SQL and Python		 Exam Format Multiple choice
 Languages English		

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Databricks Certified Data Engineer Associate certification is suitable for data engineers, data scientists, and other professionals who work with big data and want to demonstrate their expertise in Databricks. It is also relevant for organizations that use Databricks to process and analyze large amounts of data, as it ensures that their employees have the necessary skills and knowledge to work with the platform effectively.

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The Databricks Databricks-Certified-Data-Engineer-Associate exam covers a range of topics, including data ingestion, processing, and storage. Candidates are tested on their ability to design and implement data pipelines, data models, and data processing workflows using Databricks. Databricks is a cloud-based data platform that provides a unified analytics platform for data engineering, data science, and machine learning.

The GAQM Databricks-Certified-Data-Engineer-Associate (Databricks Certified Data Engineer Associate) Exam is a certification exam designed for professionals seeking to validate their proficiency in data engineering using Databricks. Databricks-Certified-Data-Engineer-Associate Exam covers various aspects of Databricks such as data transformation, ETL processes, data modeling, and data warehousing. Databricks Certified Data Engineer Associate Exam certification is globally recognized and demonstrates the candidate's expertise in Databricks data engineering.

Databricks Certified Data Engineer Associate Exam Sample Questions (Q48-Q53):

NEW QUESTION # 48

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 cluster size of the SQL endpoint.
- 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 Auto Stop feature for the SQL endpoint.
- D. They can turn on the Serverless feature for the SQL endpoint.
- E. They can increase the maximum bound of the SQL endpoint's scaling range.

Answer: E

Explanation:

<https://community.databricks.com/t5/data-engineering/sequential-vs-concurrency-optimization-questions-from-q>

NEW QUESTION # 49

A data analyst has created a Delta table sales that is used by the entire data analysis team. They want help from the data engineering team to implement a series of tests to ensure the data is clean. However, the data engineering team uses Python for its tests rather than SQL.

Which of the following commands could the data engineering team use to access sales in PySpark?

- A. `spark.sql("sales")`
- B. `spark.delta.table("sales")`
- C. `SELECT * FROM sales`
- D. `spark.table("sales")`
- E. There is no way to share data between PySpark and SQL.

Answer: D

Explanation:

The data engineering team can use the `spark.table` method to access the Delta table sales in PySpark. This method returns a DataFrame representation of the Delta table, which can be used for further processing or testing. The `spark.table` method works for any table that is registered in the Hive metastore or the Spark catalog, regardless of the file format¹. Alternatively, the data engineering team can also use the `DeltaTable.forPath` method to load the Delta table from its path². Reference: 1: [SparkSession | PySpark 3.2.0 documentation](#) 2: [Welcome to Delta Lake's Python documentation page - delta-spark 2.4.0 documentation](#)

NEW QUESTION # 50

A data engineer and data analyst are working together on a data pipeline. The data engineer is working on the raw, bronze, and silver layers of the pipeline using Python, and the data analyst is working on the gold layer of the pipeline using SQL. The raw source of the pipeline is a streaming input. They now want to migrate their pipeline to use Delta Live Tables.

Which of the following changes will need to be made to the pipeline when migrating to Delta Live Tables?

- A. The pipeline will need to be written entirely in Python
- B. None of these changes will need to be made
- C. The pipeline will need to stop using the medallion-based multi-hop architecture
- D. The pipeline will need to use a batch source in place of a streaming source
- E. The pipeline will need to be written entirely in SQL

Answer: B

Explanation:

Delta Live Tables is a declarative framework for building reliable, maintainable, and testable data processing pipelines. You define the transformations to perform on your data and Delta Live Tables manages task orchestration, cluster management, monitoring,

data quality, and error handling. Delta Live Tables supports both SQL and Python as the languages for defining your datasets and expectations. Delta Live Tables also supports both streaming and batch sources, and can handle both append-only and upsert data patterns. Delta Live Tables follows the medallion lakehouse architecture, which consists of three layers of data: bronze, silver, and gold. Therefore, migrating to Delta Live Tables does not require any of the changes listed in the options B, C, D, or E. The data engineer and data analyst can use the same languages, sources, and architecture as before, and simply declare their datasets and expectations using Delta Live Tables syntax. Reference:

What is Delta Live Tables?

Transform data with Delta Live Tables

What is the medallion lakehouse architecture?

NEW QUESTION # 51

A data engineer wants to create a new table containing the names of customers who live in France.

They have written the following command:

```
CREATE TABLE customersInFrance
```

```
_____ AS
```

```
SELECT id,
```

```
firstName,
```

```
lastName
```

```
FROM customerLocations
```

```
WHERE country = 'FRANCE';
```

A senior data engineer mentions that it is organization policy to include a table property indicating that the new table includes personally identifiable information (PII).

Which line of code fills in the above blank to successfully complete the task?

- A. COMMENT "Contains PIT"
- B. "COMMENT PII"
- C. 0
- **D. TBLPROPERTIES PII**

Answer: D

Explanation:

To include a property indicating that a table contains personally identifiable information (PII), the TBLPROPERTIES keyword is used in SQL to add metadata to a table. The correct syntax to define a table property for PII is as follows:

```
CREATE TABLE customersInFrance
```

```
USING DELTA
```

```
TBLPROPERTIES ('PII' = 'true')
```

```
AS
```

```
SELECT id,
```

```
firstName,
```

```
lastName
```

```
FROM customerLocations
```

```
WHERE country = 'FRANCE';
```

The TBLPROPERTIES ('PII' = 'true') line correctly sets a table property that tags the table as containing personally identifiable information. This is in accordance with organizational policies for handling sensitive information.

References: Databricks documentation on Delta Lake: Delta Lake on Databricks

NEW QUESTION # 52

Which query is performing a streaming hop from raw data to a Bronze table?

```
(spark.table("sales")
  .withColumn("avgPrice", col("sales") / col("units"))
  .writeStream
  .option("checkpointLocation", checkpointPath)
  .outputMode("append")
  .table("newSales")
)
```

• A.

```
(spark.table("sales")
  .groupBy("store")
  .agg(sum("sales"))
  .writeStream
  .option("checkpointLocation", checkpointPath)
  .outputMode("complete")
  .table("newSales")
)
```

• B.

```
(spark.read.load(rawSalesLocation)
  .write.mode("append")
  .table("newSales")
)
```

• C.

```
(spark.readStream.load(rawSalesLocation)
  .writeStream
  .option("checkpointLocation", checkpointPath)
  .outputMode("append")
  .table("newSales")
)
```

• D.

Answer: D

NEW QUESTION # 53

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