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The GAQM Databricks-Certified-Data-Engineer-Associate (Databricks Certified Data Engineer Associate) Exam is a comprehensive certification program designed to validate the skills and knowledge of data engineers in using Databricks to build and manage data pipelines, perform data analysis, and develop data-driven solutions. Databricks-Certified-Data-Engineer-Associate Exam is designed for professionals who work with big data and are responsible for designing, building, and maintaining data pipelines using Databricks.

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Databricks Certified Data Engineer Associate Exam Sample Questions (Q67-Q72):

NEW QUESTION # 67
A data engineer needs to apply custom logic to string column city in table stores for a specific use case. In order to apply this custom logic at scale, the data engineer wants to create a SQL user-defined function (UDF).
Which of the following code blocks creates this SQL UDF?

- A.
```
CREATE UDF combine_nyc(city STRING)
RETURNS STRING
CASE
    WHEN city = "brooklyn" THEN "new york"
    ELSE city
END;
```

```
CREATE UDF combine_nyc(city STRING)
RETURNS STRING
RETURN CASE
  WHEN city = "brooklyn" THEN "new york"
  ELSE city
END;
```

- B.

```
CREATE UDF combine_nyc(city STRING)
RETURN CASE
  WHEN city = "brooklyn" THEN "new york"
  ELSE city
END;
```

- C.

```
CREATE FUNCTION combine_nyc(city STRING)
RETURNS STRING
RETURN CASE
  WHEN city = "brooklyn" THEN "new york"
  ELSE city
END;
```

- D.

```
CREATE FUNCTION combine_nyc(city STRING)
RETURN CASE
  WHEN city = "brooklyn" THEN "new york"
  ELSE city
END;
```

- E.

Answer: D

Explanation:
Explanation
https://www.databricks.com/blog/2021/10/20/introducing-sql-user-defined-functions.html

NEW QUESTION # 68
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. Auto Loader
- B. Delta Lake
- C. Unity Catalog
- D. Databricks SQL
- E. Data Explorer

Answer: A

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. References: What is Auto Loader?, Get started with Databricks Auto Loader, Auto Loader in Delta Live Tables

NEW QUESTION # 69
Which of the following Structured Streaming queries is performing a hop from a Silver table to a Gold table?

- A.

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

- B.

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

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

- C.

```
(spark.table("sales")
    .filter(col("units") > 0)
    .writeStream
    .option("checkpointLocation", checkpointPath)
    .outputMode("append")
    .table("newSales")
)
```

- D.
- E.

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

Answer: C

Explanation:
The best practice is to use "Complete" as output mode instead of "append" when working with aggregated tables. Since gold layer is work final aggregated tables, the only option with output mode as complete is option E.

NEW QUESTION # 70
In which of the following file formats is data from Delta Lake tables primarily stored?

- A. Delta

- B. Parquet
- C. JSON
- D. A proprietary, optimized format specific to Databricks
- E. CSV

Answer: B

Explanation:
Explanation
https://docs.delta.io/latest/delta-faq.html

NEW QUESTION # 71

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 working with SQL within Databricks SQL
- 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 running automated reports to be refreshed as quickly as possible

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.
Reference:
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 # 72

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