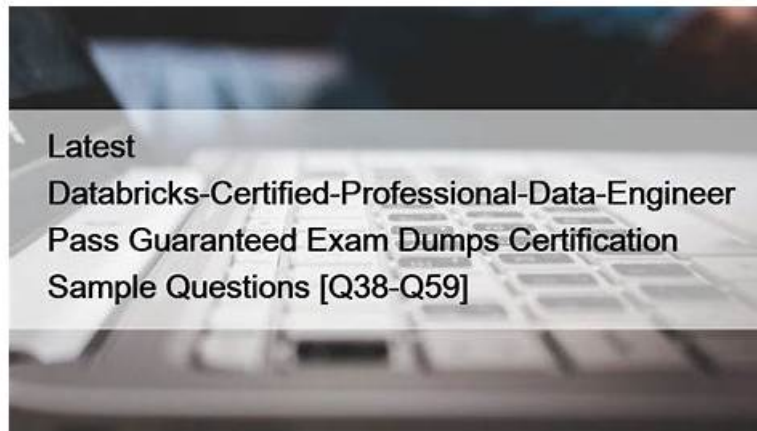


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Databricks Certified Professional Data Engineer Exam Sample Questions (Q129-Q134):

NEW QUESTION # 129

The following code has been migrated to a Databricks notebook from a legacy workload:

```
%sh
git clone https://github.com/foo/data_loader;
python ./data_loader/run.py;
mv ./output s3://dfs-mnt/new_data
```

The code executes successfully and provides the logically correct results, however, it takes over 20 minutes to extract and load around 1 GB of data.

Which statement is a possible explanation for this behavior?

- A. %sh triggers a cluster restart to collect and install Git. Most of the latency is related to cluster startup time.
- B. %sh does not distribute file moving operations; the final line of code should be updated to use %fs instead.
- C. Instead of cloning, the code should use %sh pip install so that the Python code can get executed in parallel across all nodes in a cluster.
- D. Python will always execute slower than Scala on Databricks. The run.py script should be refactored to Scala.
- E. %sh executes shell code on the driver node. The code does not take advantage of the worker nodes or Databricks optimized Spark.

Answer: E

Explanation:

<https://www.databricks.com/blog/2020/08/31/introducing-the-databricks-web-terminal.html> The code is using %sh to execute shell code on the driver node. This means that the code is not taking advantage of the worker nodes or Databricks optimized Spark. This is why the code is taking longer to execute. A better approach would be to use Databricks libraries and APIs to read and write data from Git and DBFS, and to leverage the parallelism and performance of Spark. For example, you can use the Databricks Connect feature to run your Python code on a remote Databricks cluster, or you can use the Spark Git Connector to read data from Git repositories as Spark DataFrames.

NEW QUESTION # 130

The downstream consumers of a Delta Lake table have been complaining about data quality issues impacting performance in their applications. Specifically, they have complained that invalid latitude and longitude values in the activity_details table have been breaking their ability to use other geolocation processes.

A junior engineer has written the following code to add CHECK constraints to the Delta Lake table:

```
ALTER TABLE activity_details
ADD CONSTRAINT valid_coordinates
CHECK (
    latitude >= -90 AND
    latitude <= 90 AND
    longitude >= -180 AND
    longitude <= 180);
```

A senior engineer has confirmed the above logic is correct and the valid ranges for latitude and longitude are provided, but the code fails when executed.

Which statement explains the cause of this failure?

- A. Because another team uses this table to support a frequently running application, two-phase locking is preventing the operation from committing.
- B. The activity_details table already exists; CHECK constraints can only be added during initial table creation.
- C. The activity_details table already contains records that violate the constraints; all existing data must pass CHECK constraints in order to add them to an existing table.
- D. The activity_details table already contains records; CHECK constraints can only be added prior to inserting values into a table.
- E. The current table schema does not contain the field valid coordinates; schema evolution will need to be enabled before altering the table to add a constraint.

Answer: C

Explanation:

Explanation

The failure is that the code to add CHECK constraints to the Delta Lake table fails when executed. The code uses ALTER TABLE ADD CONSTRAINT commands to add two CHECK constraints to a table named activity_details. The first constraint checks if the latitude value is between -90 and 90, and the second constraint checks if the longitude value is between -180 and 180. The cause of this failure is that the activity_details table already contains records that violate these constraints, meaning that they have invalid latitude or longitude values outside of these ranges. When adding CHECK constraints to an existing table, Delta Lake verifies that all existing data satisfies the constraints before adding them to the table. If any record violates the constraints, Delta Lake throws an exception and aborts the operation. Verified References:

[Databricks Certified Data Engineer Professional], under "Delta Lake" section; Databricks Documentation, under "Add a CHECK constraint to an existing table" section.

<https://docs.databricks.com/en/sql/language-manual/sql-ref-syntax-ddl-alter-table.html#add-constraint>

NEW QUESTION # 131

A data ingestion task requires a one-TB JSON dataset to be written out to Parquet with a target part-file size of 512 MB. Because Parquet is being used instead of Delta Lake, built-in file-sizing features such as Auto-Optimize & Auto-Compaction cannot be used. Which strategy will yield the best performance without shuffling data?

- A. Set `spark.sql.adaptive.advisoryPartitionSizeInBytes` to 512 MB bytes, ingest the data, execute the narrow transformations, coalesce to 2,048 partitions ($1\text{TB} \times 1024 \times 1024 / 512$), and then write to parquet.
- B. Set `spark.sql.shuffle.partitions` to 2,048 partitions ($1\text{TB} \times 1024 \times 1024 / 512$), ingest the data, execute the narrow transformations, optimize the data by sorting it (which automatically repartitions the data), and then write to parquet.
- C. Set `spark.sql.files.maxPartitionBytes` to 512 MB, ingest the data, execute the narrow transformations, and then write to parquet.
- D. Set `spark.sql.shuffle.partitions` to 512, ingest the data, execute the narrow transformations, and then write to parquet.
- E. Ingest the data, execute the narrow transformations, repartition to 2,048 partitions ($1\text{TB} \times 1024 \times 1024 / 512$), and then write to parquet.

Answer: B

NEW QUESTION # 132

Drop the customers database and associated tables and data, all of the tables inside the database are managed tables. Which of the following SQL commands will help you accomplish this?

- A. **DROP DATABASE customers INCLUDE**
- B. DROP DATABASE customers CASCADE
- C. All the tables must be dropped first before dropping database
- D. DROP DELTA DATABASE customers
- E. DROP DATABASE customers FORCE

Answer: A

Explanation:

Explanation

The answer is DROP DATABASE customers CASCADE

Drop database with cascade option drops all the tables, since all of the tables inside the database are managed tables we do not need to perform any additional steps to clean the data in the storage.

NEW QUESTION # 133

Which of the following programming languages can be used to build a Databricks SQL dashboard?

- A. Python
- B. R
- C. All of the above
- D. **SQL**
- E. Scala

Answer: D

NEW QUESTION # 134

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