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Databricks Certified Professional Data Engineer Exam Sample Questions (Q38-Q43):

NEW QUESTION # 38
Which configuration parameter directly affects the size of a spark-partition upon ingestion of data into Spark?

- A. spark.sql.adaptive.coalescePartitions.minPartitionNum
- B. spark.sql.adaptive.advisoryPartitionSizeInBytes
- C. spark.sql.files.maxPartitionBytes
- D. spark.sql.autoBroadcastJoinThreshold
- E. spark.sql.files.openCostInBytes

Answer: C

Explanation:
This is the correct answer because spark.sql.files.maxPartitionBytes is a configuration parameter that directly affects the size of a spark-partition upon ingestion of data into Spark. This parameter configures the maximum number of bytes to pack into a single partition when reading files from file-based sources such as Parquet, JSON and ORC. The default value is 128 MB, which means each partition will be roughly 128 MB in size, unless there are too many small files or only one large file. Verified Reference: [Databricks Certified Data Engineer Professional], under "Spark Configuration" section; Databricks Documentation, under "Available Properties - spark.sql.files.maxPartitionBytes" section.

NEW QUESTION # 39
A junior data engineer has ingested a JSON file into a table raw_table with the following schema:
1. cart_id STRING,
2. items ARRAY<item_id:STRING>
The junior data engineer would like to unnest the items column in raw_table to result in a new table with the following schema:
1.cart_id STRING,
2.item_id STRING
Which of the following commands should the junior data engineer run to complete this task?

- A. 1. SELECT cart_id, flatten(items) AS item_id
  2. FROM raw_table;
- B. 1. SELECT cart_id, explode(items) AS item_id
  2. FROM raw_table;
- C. 1. SELECT cart_id, slice(items) AS item_id
  2. FROM raw_table;
- D. 1. SELECT cart_id, reduce(items) AS item_id
  2. FROM raw_table;
- E. 1. SELECT cart_id, filter(items) AS item_id
  2. FROM raw_table;

Answer: B

NEW QUESTION # 40
A member of the data engineering team has submitted a short notebook that they wish to schedule as part of a larger data pipeline. Assume that the commands provided below produce the logically correct results when run as presented.

Cmd 1
```
rawDF = spark.table("raw_data")
```

Cmd 2
```
rawDF.printSchema()
```

Cmd 3
```
flattenedDF = rawDF.select("*", "values.*")
```

Cmd 4
```
finalDF = flattenedDF.drop("values")
```

Cmd 5
```
finalDF.explain()
```

Cmd 6
```
display(finalDF)
```

Cmd 7
```
finalDF.write.mode("append").saveAsTable("flat_data")
```

Which command should be removed from the notebook before scheduling it as a job?

- A. Cmd 5
- B. Cmd 3
- C. Cmd 4
- D. Cmd 6
- E. Cmd 2

Answer: D

Explanation:
Cmd 6 is the command that should be removed from the notebook before scheduling it as a job. This command is selecting all the columns from the finalDF dataframe and displaying them in the notebook. This is not necessary for the job, as the finalDF dataframe is already written to a table in Cmd 7. Displaying the dataframe in the notebook will only consume resources and time, and it will not affect the output of the job.

Therefore, Cmd 6 is redundant and should be removed.

The other commands are essential for the job, as they perform the following tasks:

* Cmd 1: Reads the raw_data table into a Spark dataframe called rawDF.

* Cmd 2: Prints the schema of the rawDF dataframe, which is useful for debugging and understanding the data structure.

* Cmd 3: Selects all the columns from the rawDF dataframe, as well as the nested columns from the values struct column, and creates a new dataframe called flattenedDF.

* Cmd 4: Drops the values column from the flattenedDF dataframe, as it is no longer needed after flattening, and creates a new dataframe called finalDF.

* Cmd 5: Explains the physical plan of the finalDF dataframe, which is useful for optimizing and tuning the performance of the job.
* Cmd 7: Writes the finalDF dataframe to a table called flat_data, using the append mode to add new data to the existing table.

NEW QUESTION # 41

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

Answer: C

Explanation:
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 # 42

A user wants to use DLT expectations to validate that a derived table report contains all records from the source, included in the table validation_copy.
The user attempts and fails to accomplish this by adding an expectation to the report table definition.
Which approach would allow using DLT expectations to validate all expected records are present in this table?

- A. Define a function that performs a left outer join on validation_copy and report and report, and check against the result in a DLT expectation for the report table
- B. Define a SQL UDF that performs a left outer join on two tables, and check if this returns null values for report key values in a DLT expectation for the report table.
- C. Define a temporary table that perform a left outer join on validation_copy and report, and define an expectation that no report key values are null
- D. Define a view that performs a left outer join on validation_copy and report, and reference this view in DLT expectations for the report table

Answer: D

Explanation:
To validate that all records from the source are included in the derived table, creating a view that performs a left outer join between the validation_copy table and the report table is effective. The view can highlight any discrepancies, such as null values in the report table's key columns, indicating missing records. This view can then be referenced in DLT (Delta Live Tables) expectations for the report table to ensure data integrity. This approach allows for a comprehensive comparison between the source and the derived table.
References:
* Databricks Documentation on Delta Live Tables and Expectations: Delta Live Tables Expectations

NEW QUESTION # 43

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