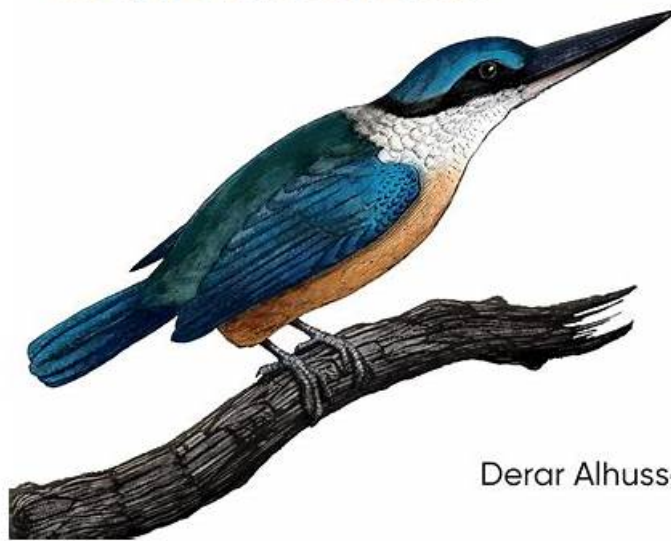


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Databricks Certified Professional Data Engineer Exam Sample Questions (Q143-Q148):

NEW QUESTION # 143

What is a method of installing a Python package scoped at the notebook level to all nodes in the currently active cluster?

- A. Use `and Pip install` in a notebook cell
- B. Use `and sh install` in a notebook cell
- C. Install libraries from PyPi using the cluster UI
- D. Run `source env/bin/activate` in a notebook setup script

Answer: A

Explanation:

In Databricks notebooks, you can use the `%pip install` command in a notebook cell to install a Python package. This will install the package on all nodes in the currently active cluster at the notebook level. It is a feature provided by Databricks to facilitate the installation of Python libraries for the notebook environment specifically.

NEW QUESTION # 144

A data engineer is attempting to execute the following PySpark code:

```
df = spark.read.table("sales")
result = df.groupBy("region").agg(sum("revenue"))
```

However, upon inspecting the execution plan and profiling the Spark job, they observe excessive data shuffling during the aggregation phase.

Which technique should be applied to reduce shuffling during the `groupBy` aggregation operation?

- A. **Repartition by region before aggregation.**
- B. Use `coalesce()` after the aggregation.
- C. Use broadcast join.
- D. Caching the DataFrame `df`.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract of Databricks Data Engineer Documents:

Databricks documents that shuffle occurs when Spark redistributes data across partitions for grouping or joining. To optimize aggregation performance, repartitioning by the grouping key (region) ensures rows with the same key are co-located in the same partition, thus minimizing shuffle movement. Caching improves reuse of DataFrames but does not reduce shuffle volume. `coalesce()` reduces the number of partitions after computation and cannot prevent shuffle. Broadcast joins are unrelated to single-table aggregations. The recommended practice for reducing shuffle in aggregation is explicit repartitioning by the grouping column.

NEW QUESTION # 145

When working with AUTO LOADER you noticed that most of the columns that were inferred as part of loading are string data types including columns that were supposed to be integers, how can we fix this?

- A. Provide the schema of the target table in the cloudfiles.schemaLocation
- B. Update the checkpoint location
- C. Provide the schema of the source table in the cloudfiles.schemaLocation
- **D. Provide schema hints**
- E. Correct the incoming data by explicitly casting the data types

Answer: D

Explanation:

Explanation

The answer is, Provide schema hints.

```
1.spark.readStream \
```

```
2.format("cloudFiles") \
```

```
3.option("cloudFiles.format", "csv") \
```

```
4.option("header", "true") \
```

```
5.option("cloudFiles.schemaLocation", schema_location) \
```

```
6.option("cloudFiles.schemaHints", "id int, description string")
```

```
7.load(raw_data_location)
```

```
8.writeStream \
```

```
9.option("checkpointLocation", checkpoint_location) \
```

```
10.start(target_delta_table_location).option("cloudFiles.schemaHints", "id int, description string")
```

Here we are providing a hint that id column is int and the description is a string When cloudfiles.schemaLocation is used to store the output of the schema inference during the load process, with schema hints you can enforce data types for known columns ahead of time.

NEW QUESTION # 146

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 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.
- B. 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
- **C. 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**
- D. 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

Answer: C

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.

Reference:

Databricks Documentation on Delta Live Tables and Expectations: [Delta Live Tables Expectations](#)

NEW QUESTION # 147

A data architect has designed a system in which two Structured Streaming jobs will concurrently write to a single bronze Delta table. Each job is subscribing to a different topic from an Apache Kafka source, but they will write data with the same schema. To keep the directory structure simple, a data engineer has decided to nest a checkpoint directory to be shared by both streams.

The proposed directory structure is displayed below:

Which statement describes whether this checkpoint directory structure is valid for the given scenario and why?

- **A. No; each of the streams needs to have its own checkpoint directory.**
- B. No; only one stream can write to a Delta Lake table.
- C. No; Delta Lake manages streaming checkpoints in the transaction log.
- D. Yes; both of the streams can share a single checkpoint directory.
- E. Yes; Delta Lake supports infinite concurrent writers.

Answer: A

Explanation:

This is the correct answer because checkpointing is a critical feature of Structured Streaming that provides fault tolerance and recovery in case of failures. Checkpointing stores the current state and progress of a streaming query in a reliable storage system, such as DBFS or S3. Each streaming query must have its own checkpoint directory that is unique and exclusive to that query. If two streaming queries share the same checkpoint directory, they will interfere with each other and cause unexpected errors or data loss. Verified References: [Databricks Certified Data Engineer Professional], under "Structured Streaming" section; Databricks Documentation, under "Checkpointing" section.

NEW QUESTION # 148

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