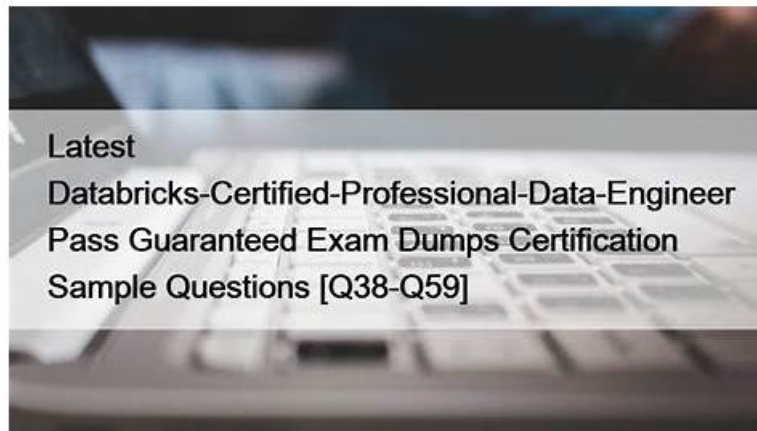


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Databricks Certified Professional Data Engineer Exam Sample Questions (Q191-Q196):

NEW QUESTION # 191

A data engineer is performing a join operating to combine values from a static userlookup table with a streaming DataFrame streamingDF.

Which code block attempts to perform an invalid stream-static join?

- A. streamingDF.join(userLookup, ["user_id"], how="left")
- B. streamingDF.join(userLookup, ["userid"], how="inner")
- **C. userLookup.join(streamingDF, ["user_id"], how="right")**
- D. userLookup.join(streamingDF, ["userid"], how="inner")
- E. streamingDF.join(userLookup, ["user_id"], how="outer")

Answer: C

Explanation:

In Spark Structured Streaming, certain types of joins between a static DataFrame and a streaming DataFrame are not supported. Specifically, a right outer join where the static DataFrame is on the left side and the streaming DataFrame is on the right side is not valid. This is because Spark Structured Streaming cannot handle scenarios where it has to wait for new rows to arrive in the streaming DataFrame to match rows in the static DataFrame. The other join types listed (inner, left, and full outer joins) are supported in streaming-static DataFrame joins.

References:

- * Structured Streaming Programming Guide: Join Operations
- * Databricks Documentation on Stream-Static Joins: Databricks Stream-Static Joins

NEW QUESTION # 192

In order to facilitate near real-time workloads, a data engineer is creating a helper function to leverage the schema detection and evolution functionality of Databricks Auto Loader. The desired function will automatically detect the schema of the source directly, incrementally process JSON files as they arrive in a source directory, and automatically evolve the schema of the table when new fields are detected.

The function is displayed below with a blank:

Which response correctly fills in the blank to meet the specified requirements?

- A. Option A
- B. Option D
- C. Option E
- **D. Option B**
- E. Option C

Answer: D

Explanation:

Option B correctly fills in the blank to meet the specified requirements. Option B uses the "cloudFiles.schemaLocation" option, which is required for the schema detection and evolution functionality of Databricks Auto Loader. Additionally, option B uses the "mergeSchema" option, which is required for the schema evolution functionality of Databricks Auto Loader. Finally, option B uses the "writeStream" method, which is required for the incremental processing of JSON files as they arrive in a source directory. The other options are incorrect because they either omit the required options, use the wrong method, or use the wrong format.

Reference:

Configure schema inference and evolution in Auto Loader: <https://docs.databricks.com/en/ingestion/auto-loader/schema.html> Write streaming data: <https://docs.databricks.com/spark/latest/structured-streaming/writing-streaming-data.html>

NEW QUESTION # 193

The data engineering team maintains the following code:

Assuming that this code produces logically correct results and the data in the source table has been de-duplicated and validated, which statement describes what will occur when this code is executed?

- A. An incremental job will leverage running information in the state store to update aggregate values in the gold_customer_lifetime_sales_summary table.
- **B. The gold_customer_lifetime_sales_summary table will be overwritten by aggregated values calculated from all records in the silver_customer_sales table as a batch job.**

- C. A batch job will update the `gold_customer_lifetime_sales_summary` table, replacing only those rows that have different values than the current version of the table, using `customer_id` as the primary key.
- D. The `silver_customer_sales` table will be overwritten by aggregated values calculated from all records in the `gold_customer_lifetime_sales_summary` table as a batch job.
- E. An incremental job will detect if new rows have been written to the `silver_customer_sales` table; if new rows are detected, all aggregates will be recalculated and used to overwrite the `gold_customer_lifetime_sales_summary` table.

Answer: B

Explanation:

This code is using the `pyspark.sql.functions` library to group the `silver_customer_sales` table by `customer_id` and then aggregate the data using the minimum sale date, maximum sale total, and sum of distinct order ids.

The resulting aggregated data is then written to the `gold_customer_lifetime_sales_summary` table, overwriting any existing data in that table. This is a batch job that does not use any incremental or streaming logic, and does not perform any merge or update operations. Therefore, the code will overwrite the `gold` table with the aggregated values from the `silver` table every time it is executed. References:

* <https://docs.databricks.com/spark/latest/dataframes-datasets/introduction-to-dataframes-python.html>

* <https://docs.databricks.com/spark/latest/dataframes-datasets/transforming-data-with-dataframes.html>

* <https://docs.databricks.com/spark/latest/dataframes-datasets/aggregating-data-with-dataframes.html>

NEW QUESTION # 194

A table `customerLocations` exists with the following schema:

1. `id` STRING,
2. `date` STRING,
3. `city` STRING,
4. `country` STRING

A senior data engineer wants to create a new table from this table using the following command:

1. `CREATE TABLE customersPerCountry AS`
2. `SELECT country,`
3. `COUNT(*) AS customers`
4. `FROM customerLocations`
5. `GROUP BY country;`

A junior data engineer asks why the schema is not being declared for the new table. Which of the following responses explains why declaring the schema is not necessary?

- A. `CREATE TABLE AS SELECT` statements result in tables that do not support schemas
- **B. `CREATE TABLE AS SELECT` statements adopt schema details from the source table and query**
- C. `CREATE TABLE AS SELECT` statements assign all columns the type `STRING`
- D. `CREATE TABLE AS SELECT` statements infer the schema by scanning the data
- E. `CREATE TABLE AS SELECT` statements result in tables where schemas are optional

Answer: B

NEW QUESTION # 195

A notebook accepts an input parameter that is assigned to a python variable called `department` and this is an optional parameter to the notebook, you are looking to control the flow of the code using this parameter. you have to check `department` variable is present then execute the code and if no `department` value is passed then skip the code execution. How do you achieve this using python?

- A. 1.if `department` is not `None`:
2. `#Execute code`
3. `then:`
4. `pass`
- B. 1.if `department` is `None`:
2. `#Execute code`
3. `else:`
4. `pass`
- C. 1.if `department` is not `None`:
2. `#Execute code`
3. `end:`

- 4. pass
- D. 1.if department is not None:
2. #Execute code
3.else:
4. pass
(Correct)
- E. 1.if(department is not None)
2. #Execute code
3.else
4. pass

Answer: D

Explanation:

Explanation

The answer is,

- 1.if department is not None:
- 2. #Execute code
- 3.else:
- 4. pass

NEW QUESTION # 196

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