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Databricks Certified Professional Data Engineer Exam Sample Questions (Q125-Q130):

NEW QUESTION # 125

Which of the following data workloads will utilize a Bronze table as its destination?

- **A. A job that ingests raw data from a streaming source into the Lakehouse**

- B. A job that queries aggregated data to publish key insights into a dashboard
- C. A job that aggregates cleaned data to create standard summary statistics
- D. A job that enriches data by parsing its timestamps into a human-readable format
- E. A job that develops a feature set for a machine learning application

Answer: A

Explanation:

Explanation

The answer is A job that ingests raw data from a streaming source into the Lakehouse.

The ingested data from the raw streaming data source like Kafka is first stored in the Bronze layer as first destination before it is further optimized and stored in Silver.

Medallion Architecture - Databricks

Bronze Layer:

1. Raw copy of ingested data
2. Replaces traditional data lake
3. Provides efficient storage and querying of full, unprocessed history of data
4. No schema is applied at this layer

Exam focus: Please review the below image and understand the role of each layer(bronze, silver, gold) in medallion architecture, you will see varying questions targeting each layer and its purpose.

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Purpose of each layer in medallion architecture

□

NEW QUESTION # 126

A Delta Lake table with Change Data Feed (CDF) enabled in the Lakehouse named customer_churn_params is used in churn prediction by the machine learning team. The table contains information about customers derived from a number of upstream sources. Currently, the data engineering team populates this table nightly by overwriting the table with the current valid values derived from upstream data sources. The churn prediction model used by the ML team is fairly stable in production. The team is only interested in making predictions on records that have changed in the past 24 hours. Which approach would simplify the identification of these changed records?

- A. Replace the current overwrite logic with a MERGE statement to modify only those records that have changed; write logic to make predictions on the changed records identified by the Change Data Feed.
- B. Apply the churn model to all rows in the customer_churn_params table, but implement logic to perform an upsert into the predictions table that ignores rows where predictions have not changed.
- C. Modify the overwrite logic to include a field populated by calling current_timestamp() as data are being written; use this field to identify records written on a particular date.
- D. Convert the batch job to a Structured Streaming job using the complete output mode; configure a Structured Streaming job to read from the customer_churn_params table and incrementally predict against the churn model.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Exact extract: "Change data feed (CDF) provides row-level change information for Delta tables." Exact extract: "Use table_changes to query the set of rows that were inserted, updated, or deleted between two versions (or timestamps)." Exact extract: "MERGE INTO updates and inserts only the rows that changed."

NEW QUESTION # 127

A data pipeline uses Structured Streaming to ingest data from kafka to Delta Lake. Data is being stored in a bronze table, and includes the Kafka_generated timestamp, key, and value. Three months after the pipeline is deployed the data engineering team has noticed some latency issued during certain times of the day.

A senior data engineer updates the Delta Table's schema and ingestion logic to include the current timestamp (as recorded by Apache Spark) as well the Kafka topic and partition. The team plans to use the additional metadata fields to diagnose the transient processing delays:

Which limitation will the team face while diagnosing this problem?

- A. Updating the table schema requires a default value provided for each file added.
- B. Updating the table schema will invalidate the Delta transaction log metadata.

- C. Spark cannot capture the topic partition fields from the kafka source.
- **D. New fields not be computed for historic records.**

Answer: D

Explanation:

When adding new fields to a Delta table's schema, these fields will not be retrospectively applied to historical records that were ingested before the schema change. Consequently, while the team can use the new metadata fields to investigate transient processing delays moving forward, they will be unable to apply this diagnostic approach to past data that lacks these fields.

References:

* Databricks documentation on Delta Lake schema management: <https://docs.databricks.com/delta/delta-batch.html#schema-management>

NEW QUESTION # 128

Review the following error traceback:

Which statement describes the error being raised?

- A. There is a type error because a column object cannot be multiplied.
- **B. There is no column in the table named heartrateheartrateheartrate**
- C. The code executed was PySpark but was executed in a Scala notebook.
- D. There is a type error because a DataFrame object cannot be multiplied.
- E. There is a syntax error because the heartrate column is not correctly identified as a column.

Answer: B

Explanation:

Explanation

The error being raised is an AnalysisException, which is a type of exception that occurs when Spark SQL cannot analyze or execute a query due to some logical or semantic error. In this case, the error message indicates that the query cannot resolve the column name 'heartrateheartrateheartrate' given the input columns

'heartrate' and 'age'. This means that there is no column in the table named 'heartrateheartrateheartrate', and the query is invalid. A possible cause of this error is a typo or a copy-paste mistake in the query. To fix this error, the query should use a valid column name that exists in the table, such as

'heartrate'. References: AnalysisException

NEW QUESTION # 129

Which statement describes integration testing?

- A. Validates behavior of individual elements of your application
- B. Requires an automated testing framework
- **C. Validates interactions between subsystems of your application**
- D. Validates an application use case
- E. Requires manual intervention

Answer: C

Explanation:

Explanation

This is the correct answer because it describes integration testing. Integration testing is a type of testing that validates interactions between subsystems of your application, such as modules, components, or services.

Integration testing ensures that the subsystems work together as expected and produce the correct outputs or results. Integration testing can be done at different levels of granularity, such as component integration testing, system integration testing, or end-to-end testing. Integration testing can help detect errors or bugs that may not be found by unit testing, which only validates behavior of individual elements of your application. Verified References: [Databricks Certified Data Engineer Professional], under "Testing" section; Databricks Documentation, under "Integration testing" section.

NEW QUESTION # 130

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