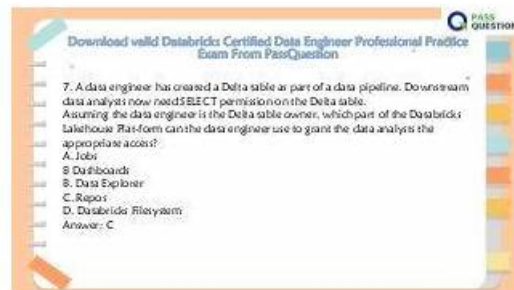


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Databricks Certified Data Engineer Professional Exam Sample Questions (Q142-Q147):

NEW QUESTION # 142

A data engineer is using Lakeflow Declarative Pipelines Expectations feature to track the data quality of their incoming sensor data. Periodically, sensors send bad readings that are out of range, and they are currently flagging those rows with a warning and writing them to the silver table along with the good data. They've been given a new requirement ?the bad rows need to be quarantined in a separate quarantine table and no longer included in the silver table.

This is the existing code for their silver table:

```
@dlt.table
@dlt.expect("valid_sensor_reading", "reading < 120")
def silver_sensor_readings():
return spark.readStream.table("bronze_sensor_readings")
```

What code will satisfy the requirements?

- A. `@dlt.table`
`@dlt.expect_or_drop("valid_sensor_reading", "reading < 120")`
`def silver_sensor_readings():`
`return spark.readStream.table("bronze_sensor_readings")`
`@dlt.table`
`@dlt.expect_or_drop("invalid_sensor_reading", "reading >= 120")`
`def quarantine_sensor_readings():`
`return spark.readStream.table("bronze_sensor_readings")`
- B. `@dlt.table`
`@dlt.expect_or_drop("valid_sensor_reading", "reading < 120")`
`def silver_sensor_readings():`
`return spark.readStream.table("bronze_sensor_readings")`
`@dlt.table`
`@dlt.expect("invalid_sensor_reading", "reading >= 120")`
`def quarantine_sensor_readings():`
`return spark.readStream.table("bronze_sensor_readings")`
- C. `@dlt.table`
`@dlt.expect_or_drop("valid_sensor_reading", "reading < 120")`
`def silver_sensor_readings():`
`return spark.readStream.table("bronze_sensor_readings")`
`@dlt.table`
`@dlt.expect("invalid_sensor_reading", "reading < 120")`
`def quarantine_sensor_readings():`
`return spark.readStream.table("bronze_sensor_readings")`
- D. `@dlt.table`
`@dlt.expect("valid_sensor_reading", "reading < 120")`
`def silver_sensor_readings():`
`return spark.readStream.table("bronze_sensor_readings")`
`@dlt.table`
`@dlt.expect("invalid_sensor_reading", "reading >= 120")`
`def quarantine_sensor_readings():`
`return spark.readStream.table("bronze_sensor_readings")`

Answer: D

Explanation:

Lakeflow Declarative Pipelines (DLT) supports data quality enforcement using `@dlt.expect`,

`@dlt.expect_or_drop`, and `@dlt.expect_all`.

`@dlt.expect` applies a rule and records whether rows pass or fail the condition but does not drop failing rows. Instead, failing rows can be written to a quarantine table.

`@dlt.expect_or_drop` enforces that only rows passing the condition flow downstream, dropping bad records automatically.

In this case, the requirement is:

Good rows (reading < 120) go to the silver table.

Bad rows (reading >= 120) go to a quarantine table.

Bad rows should not be included in silver.

The correct implementation is Option A, where:

The silver table uses `@dlt.expect` to validate reading < 120. These rows flow normally.

The quarantine table applies an expectation for reading >= 120, ensuring bad records are captured separately.

Other options are incorrect:

Option B/D: These either use `expect_or_drop` incorrectly or apply wrong conditions, leading to dropped rows without quarantining properly.

Option C: Uses `expect_or_drop` for both tables, which would discard bad rows instead of persisting them into a quarantine table.

Thus, Option A meets the business requirement to split good and bad data streams while ensuring both are captured for auditing and processing.

NEW QUESTION # 143

The data engineer team has been tasked with configured connections to an external database that does not have a supported native connector with Databricks. The external database already has data security configured by group membership. These groups map directly to user group already created in Databricks that represent various teams within the company. A new login credential has been created for each group in the external database. The Databricks Utilities Secrets module will be used to make these credentials

available to Databricks users. Assuming that all the credentials are configured correctly on the external database and group membership is properly configured on Databricks, which statement describes how teams can be granted the minimum necessary access to using these credentials?

- A. "Read" permissions should be set on a secret key mapped to those credentials that will be used by a given team.
- B. "Manage" permission should be set on a secret scope containing only those credentials that will be used by a given team.
- **C. "Read" permissions should be set on a secret scope containing only those credentials that will be used by a given team.**
- D. No additional configuration is necessary as long as all users are configured as administrators in the workspace where secrets have been added.

Answer: C

Explanation:

In Databricks, using the Secrets module allows for secure management of sensitive information such as database credentials. Granting 'Read' permissions on a secret key that maps to database credentials for a specific team ensures that only members of that team can access Get Latest & Actual Certified-Data-Engineer-Professional Exam's Question and Answers from these credentials. This approach aligns with the principle of least privilege, granting users the minimum level of access required to perform their jobs, thus enhancing security.

NEW QUESTION # 144

Which statement characterizes the general programming model used by Spark Structured Streaming?

- A. Structured Streaming uses specialized hardware and I/O streams to achieve sub-second latency for data transfer.
- B. Structured Streaming relies on a distributed network of nodes that hold incremental state values for cached stages.
- C. Structured Streaming is implemented as a messaging bus and is derived from Apache Kafka.
- D. Structured Streaming leverages the parallel processing of GPUs to achieve highly parallel data throughput.
- **E. Structured Streaming models new data arriving in a data stream as new rows appended to an unbounded table.**

Answer: E

Explanation:

The key idea in Structured Streaming is to treat a live data stream as a table that is being continuously appended. This leads to a new stream processing model that is very similar to a batch processing model. You will express your streaming computation as standard batch-like query as on a static table, and Spark runs it as an incremental query on the unbounded input table. Let's understand this model in more detail.

<https://spark.apache.org/docs/latest/structured-streaming-programming-guide.html>

NEW QUESTION # 145

A data engineer is troubleshooting a slow-running Delta Lake query on Databricks SQL involves complex joins and large datasets. They need to identify whether the root cause is related to poor data skipping, inefficient join strategies, or excessive data shuffling. Which approach should identify the specific bottlenecks using native Databricks tools?

- A. Use the LIMIT clause to run a subset of the query and compare execution times with the full dataset.
- B. Enable the EXPLAIN command to review the parsed logical plan and manually estimate shuffle sizes.
- C. Check the query's execution time in the Jobs UI and correlate it with cluster resource utilization metrics.
- **D. Analyze the Top Operators panel in the Query Profile to identify high-cost operations like BroadcastNestedLoopJoin**

Answer: D

Explanation:

The Query Profile's Top Operators panel surfaces the most expensive operators in the query execution, making it possible to directly identify bottlenecks such as inefficient join strategies, poor data skipping, or excessive shuffling. This native visualization highlights where time and resources are spent, enabling precise root-cause analysis for slow-running queries.

NEW QUESTION # 146

The data architect has mandated that all tables in the Lakehouse should be configured as external (also known as "unmanaged") Delta Lake tables.

Which approach will ensure that this requirement is met?

- A. When data is saved to a table, make sure that a full file path is specified alongside the Delta format.
- B. When configuring an external data warehouse for all table storage, leverage Databricks for all ELT.
- C. When the workspace is being configured, make sure that external cloud object storage has been mounted.
- D. When a database is being created, make sure that the LOCATION keyword is used.
- E. When tables are created, make sure that the EXTERNAL keyword is used in the CREATE TABLE statement.

Answer: E

Explanation:

To create an external or unmanaged Delta Lake table, you need to use the EXTERNAL keyword in the CREATE TABLE statement. This indicates that the table is not managed by the catalog and the data files are not deleted when the table is dropped. You also need to provide a LOCATION clause to specify the path where the data files are stored.

For example:

CREATE EXTERNAL TABLE events (date DATE, eventId STRING, eventType STRING, data STRING) USING DELTA LOCATION '/mnt/delta/events'; This creates an external Delta Lake table named events that references the data files in the '/mnt/delta/events' path. If you drop this table, the data files will remain intact and you can recreate the table with the same statement.

NEW QUESTION # 147

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