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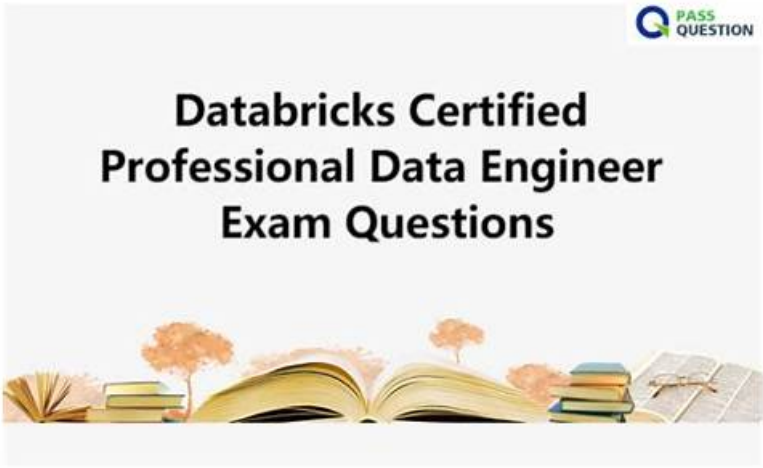

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Databricks Certified Professional Data Engineer Exam Sample Questions (Q174-Q179):

NEW QUESTION # 174
The data engineering team has configured a Databricks SQL query and alert to monitor the values in a Delta Lake table. The recent_sensor_recordings table contains an identifying sensor_id alongside the timestamp and temperature for the most recent 5 minutes of recordings.
The below query is used to create the alert:
The query is set to refresh each minute and always completes in less than 10 seconds. The alert is set to trigger when mean (temperature) > 120. Notifications are triggered to be sent at most every 1 minute.

If this alert raises notifications for 3 consecutive minutes and then stops, which statement must be true?

- A. The recent_sensor_recordingstable was unresponsive for three consecutive runs of the query
- B. The average temperature recordings for at least one sensor exceeded 120 on three consecutive executions of the query
- C. The maximum temperature recording for at least one sensor exceeded 120 on three consecutive executions of the query
- D. The total average temperature across all sensors exceeded 120 on three consecutive executions of the query
- E. The source query failed to update properly for three consecutive minutes and then restarted

Answer: B

Explanation:
This is the correct answer because the query is using a GROUP BY clause on the sensor_id column, which means it will calculate the mean temperature for each sensor separately. The alert will trigger when the mean temperature for any sensor is greater than 120, which means at least one sensor had an average temperature above 120 for three consecutive minutes. The alert will stop when the mean temperature for all sensors drops below 120. Verified Reference: [Databricks Certified Data Engineer Professional], under "SQL Analytics" section; Databricks Documentation, under "Alerts" section.

NEW QUESTION # 175
The data engineering team maintains a table of aggregate statistics through batch nightly updates. This includes total sales for the previous day alongside totals and averages for a variety of time periods including the 7 previous days, year-to-date, and quarter-to-date. This table is namedstore_saies_summaryand the schema is as follows:
The tabledaily_store_salescontains all the information needed to updatestore_sales_summary. The schema for this table is:
store_id INT, sales_date DATE, total_sales FLOAT
Ifdaily_store_salesis implemented as a Type 1 table and thetotal_salescolumn might be adjusted after manual data auditing, which approach is the safest to generate accurate reports in thestore_sales_summarytable?

- A. Use Structured Streaming to subscribe to the change data feed for daily_store_sales and apply changes to the aggregates in the store_sales_summary table with each update.
- B. Implement the appropriate aggregate logic as a batch read against the daily_store_sales table and append new rows nightly to the store_sales_summary table.
- C. Implement the appropriate aggregate logic as a Structured Streaming read against the daily_store_sales table and use upsert logic to update results in the store_sales_summary table.
- D. Implement the appropriate aggregate logic as a batch read against the daily_store_sales table and overwrite the store_sales_summary table with each Update.
- E. Implement the appropriate aggregate logic as a batch read against the daily_store_sales table and use upsert logic to update results in the store_sales_summary table.

Answer: A

Explanation:
Explanation
The daily_store_sales table contains all the information needed to update store_sales_summary. The schema of the table is:
store_id INT, sales_date DATE, total_sales FLOAT
The daily_store_sales table is implemented as a Type 1 table, which means that old values are overwritten by new values and no history is maintained. The total_sales column might be adjusted after manual data auditing, which means that the data in the table may change over time.
The safest approach to generate accurate reports in the store_sales_summary table is to use Structured Streaming to subscribe to the change data feed for daily_store_sales and apply changes to the aggregates in the store_sales_summary table with each update. Structured Streaming is a scalable and fault-tolerant stream processing engine built on Spark SQL. Structured Streaming allows processing data streams as if they were tables or DataFrames, using familiar operations such as select, filter, groupBy, or join. Structured Streaming also supports output modes that specify how to write the results of a streaming query to a sink, such as append, update, or complete. Structured Streaming can handle both streaming and batch data sources in a unified manner.
The change data feed is a feature of Delta Lake that provides structured streaming sources that can subscribe to changes made to a Delta Lake table. The change data feed captures both data changes and schema changes as ordered events that can be processed by downstream applications or services. The change data feed can be configured with different options, such as starting from a specific version or timestamp, filtering by operation type or partition values, or excluding no-op changes.
By using Structured Streaming to subscribe to the change data feed for daily_store_sales, one can capture and process any changes made to the total_sales column due to manual data auditing. By applying these changes to the aggregates in the store_sales_summary table with each update, one can ensure that the reports are always consistent and accurate with the latest data. Verified References: [Databricks Certified Data Engineer Professional], under "Spark Core" section; Databricks Documentation, under "Structured

Streaming" section; Databricks Documentation, under "Delta Change Data Feed" section.

NEW QUESTION # 176
A data governance team at a large enterprise is improving data discoverability across its organization. The team has hundreds of tables in their Databricks Lakehouse with thousands of columns that lack proper documentation. Many of these tables were created by different teams over several years, with missing context about column meanings and business logic. The data governance team needs to quickly generate comprehensive column descriptions for all existing tables to meet compliance requirements and improve data literacy across the organization. They want to leverage modern capabilities to automatically generate meaningful descriptions rather than manually documenting each column, which would take months to complete.
Which approach should the team use in Databricks to automatically generate column comments and descriptions for existing tables?

- A. Use the DESCRIBE TABLE command to extract existing schema information and manually write descriptions based on column names and data types.
- B. Write custom PySpark code using df.describe() and df.schema to programmatically generate basic statistical descriptions for each column.
- C. Use Delta Lake's DESCRIBE HISTORY command to analyze table evolution and infer column purposes from historical changes.
- D. Navigate to the table in Databricks Catalog Explorer, select the table schema view, and use the AI Generate option which leverages artificial intelligence to automatically create meaningful column descriptions based on column names, data types, sample values, and data patterns.

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract of Databricks Data Engineer Documents:
Databricks Catalog Explorer provides a feature called AI Generate that automatically produces intelligent comments for columns. This feature uses metadata such as column names, types, patterns, and sampled values to generate human-readable documentation. According to the documentation, this is the recommended method to rapidly enrich schema metadata and improve data discoverability, especially at enterprise scale. Unlike DESCRIBE HISTORY or DESCRIBE TABLE, which only surface technical schema details, AI Generate directly produces business-oriented descriptions. PySpark statistical functions (df.describe) only return numeric statistics and cannot generate descriptive metadata. Thus, AI Generate in Catalog Explorer is the correct approach.

NEW QUESTION # 177
Which of the below SQL commands create a Global temporary view?

- A. 1. CREATE OR REPLACE LOCAL VIEW view_name
  2. AS SELECT * FROM table_name
- B. 1.CREATE OR REPLACE TEMPORARY VIEW view_name
  2. AS SELECT * FROM table_name
- C. 1. CREATE OR REPLACE GLOBAL TEMPORARY VIEW view_name
  2. AS SELECT * FROM table_name
  (Correct)
- D. 1. CREATE OR REPLACE LOCAL TEMPORARY VIEW view_name
  2. AS SELECT * FROM table_name
- E. 1.CREATE OR REPLACE VIEW view_name
  2. AS SELECT * FROM table_name

Answer: C

Explanation:
Explanation
1. CREATE OR REPLACE GLOBAL TEMPORARY VIEW view_name
2. AS SELECT * FROM table_name
There are two types of temporary views that can be created Local and Global
*A session-scoped temporary view is only available with a spark session, so another note-book in the same cluster can not access it. if a notebook is detached and reattached local temporary view is lost.
*A global temporary view is available to all the notebooks in the cluster but if a cluster re-starts a global temporary view is lost.

NEW QUESTION # 178
The data science team has created and logged a production model using MLflow. The following code correctly imports and applies the production model to output the predictions as a new DataFrame named preds with the schema "customer_id LONG, predictions DOUBLE, date DATE".
The data science team would like predictions saved to a Delta Lake table with the ability to compare all predictions across time. Churn predictions will be made at most once per day.
Which code block accomplishes this task while minimizing potential compute costs?

- A.
- B.
- C.
- D. preds.write.mode("append").saveAsTable("churn_preds")
- E. preds.write.format("delta").save("/preds/churn_preds")

Answer: D

NEW QUESTION # 179
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