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Databricks Certified Professional Data Engineer Exam Sample Questions (Q29-Q34):

NEW QUESTION # 29
Which of the following data workloads will utilize a Bronze table as its source?

- A. A job that ingests raw data from a streaming source into the Lakehouse
- B. A job that develops a feature set for a machine learning application
- C. A job that queries aggregated data to publish key insights into a dashboard

- D. A job that enriches data by parsing its timestamps into a human-readable format
- E. A job that aggregates cleaned data to create standard summary statistics

Answer: D

NEW QUESTION # 30
A data engineering team uses Databricks Lakehouse Monitoring to track the percent_null metric for a critical column in their Delta table.
The profile metrics table (prod_catalog.prod_schema.customer_data_profile_metrics) stores hourly percent_null values.
The team wants to:
Trigger an alert when the daily average of percent_null exceeds 5% for three consecutive days.
Ensure that notifications are not spammed during sustained issues.
Options:

- A. WITH daily_avg AS (
  SELECT DATE_TRUNC('DAY', window.end) AS day,
  AVG(percent_null) AS avg_null
  FROM prod_catalog.prod_schema.customer_data_profile_metrics
  GROUP BY DATE_TRUNC('DAY', window.end)
)
  SELECT day, avg_null
  FROM daily_avg
  ORDER BY day DESC
  LIMIT 3
  Alert Condition: ALL avg_null > 5 for the latest 3 rows
  Notification Frequency: Just once
- B. SELECT SUM(CASE WHEN percent_null > 5 THEN 1 ELSE 0 END) AS violation_days FROM
  prod_catalog.prod_schema.customer_data_profile_metrics WHERE window.end >= CURRENT_TIMESTAMP -
  INTERVAL '3' DAY Alert Condition: violation_days >= 3 Notification Frequency: Just once
- C. SELECT percent_null
  FROM prod_catalog.prod_schema.customer_data_profile_metrics
  WHERE window.end >= CURRENT_TIMESTAMP - INTERVAL '1' DAY
  Alert Condition: percent_null > 5
  Notification Frequency: At most every 24 hours
- D. SELECT AVG(percent_null) AS daily_avg
  FROM prod_catalog.prod_schema.customer_data_profile_metrics
  WHERE window.end >= CURRENT_TIMESTAMP - INTERVAL '3' DAY
  Alert Condition: daily_avg > 5
  Notification Frequency: Each time alert is evaluated

Answer: A

Explanation:
The key requirement is to detect when the daily average of percent_null is greater than 5% for three consecutive days.
Option A only checks the last 24 hours, not consecutive days. It would trigger too frequently and cause spam.
Option C calculates an average across all records in the last 3 days, but this could be skewed by one high or low day - it does not ensure consecutive daily violations.
Option D simply counts days where the threshold was exceeded, but it does not guarantee that those days were consecutive. This could incorrectly trigger on non-adjacent violations.
Option B is correct:
It aggregates hourly values into daily averages.
It checks that the last 3 consecutive days all had averages above 5%.
It avoids redundant alerts by using Notification Frequency: Just once.
This matches Databricks Lakehouse Monitoring best practices, where SQL alerts should be designed to aggregate metrics to the correct granularity (daily here) and ensure consecutive threshold violations before triggering.
Reference (Databricks Lakehouse Monitoring, SQL Alerts Best Practices):
Use DATE_TRUNC to compute metrics at the correct time granularity.
To detect consecutive-day issues, filter the last N daily aggregates and check conditions across all rows.
Always configure alerts with controlled notification frequency to prevent alert fatigue.

NEW QUESTION # 31

Where in the Spark UI can one diagnose a performance problem induced by not leveraging predicate push-down?

- A. In the Executor's log file, by gripping for "predicate push-down"
- B. In the Stage's Detail screen, in the Completed Stages table, by noting the size of data read from the Input column
- C. In the Delta Lake transaction log. by noting the column statistics
- D. In the Query Detail screen, by interpreting the Physical Plan
- E. In the Storage Detail screen, by noting which RDDs are not stored on disk

Answer: D

Explanation:

This is the correct answer because it is where in the Spark UI one can diagnose a performance problem induced by not leveraging predicate push-down. Predicate push-down is an optimization technique that allows filtering data at the source before loading it into memory or processing it further. This can improve performance and reduce I/O costs by avoiding reading unnecessary data. To leverage predicate push-down, one should use supported data sources and formats, such as Delta Lake, Parquet, or JDBC, and use filter expressions that can be pushed down to the source. To diagnose a performance problem induced by not leveraging predicate push-down, one can use the Spark UI to access the Query Detail screen, which shows information about a SQL query executed on a Spark cluster. The Query Detail screen includes the Physical Plan, which is the actual plan executed by Spark to perform the query. The Physical Plan shows the physical operators used by Spark, such as Scan, Filter, Project, or Aggregate, and their input and output statistics, such as rows and bytes. By interpreting the Physical Plan, one can see if the filter expressions are pushed down to the source or not, and how much data is read or processed by each operator. Verified Reference: [Databricks Certified Data Engineer Professional], under "Spark Core" section; Databricks Documentation, under "Predicate pushdown" section; Databricks Documentation, under "Query detail page" section.

NEW QUESTION # 32

You are asked to set up an alert to notify in an email every time a KPI indicater increases beyond a threshold value, team also asked you to include the actual value in the alert email notification.

- A. Use notebook and python code to run every minute, using python variables to capture send the information in an email
- B. Use custom email hook to customize the message
- C. Setup an alert but use the default template to notify the message in email's subject
- D. Setup an alert but use the custom template to notify the message in email's subject
- E. Use the webhook destination instead so alert message can be customized

Answer: D

Explanation:
Explanation
Alerts support custom template supports using variables to customize the default message, set up the query to compare the KPI current value to the threshold and use the variable QUE-RY_RESULT_VALUE to display the value in the email notification.
here is a simple alert, that uses variables in the custom template to present these values in the email notification message, when the alert is fired these variables get replaced with actual values.
Alert with custom template
Graphical user interface, application Description automatically generated
When you enable preview you can see how the alert looks when you substitute the variables.
Graphical user interface, text, application, email Description automatically generated
Below are additional template variables available to you with the custom template.
Alerts | Databricks on AWS
Graphical user interface, text, application, email Description automatically generated

NEW QUESTION # 33

Which of the following describes a scenario in which a data engineer will want to use a Job cluster instead of an all-purpose cluster?

- A. An ad-hoc analytics report needs to be developed while minimizing compute costs
- B. A Databricks SQL query needs to be scheduled for upward reporting

- **C. An automated workflow needs to be run every 30 minutes**
- D. A data engineer needs to manually investigate a production error
- E. A data team needs to collaborate on the development of a machine learning model

Answer: C

NEW QUESTION # 34
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