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## Databricks Certified Data Engineer Professional Exam Sample Questions (Q216-Q221):

### NEW QUESTION # 216

A data engineer is optimizing a managed Delta table that suffers from data skew and frequently changing query filter columns. The engineer wants to avoid costly data rewrites when query patterns evolve. The table size is under 1 TB. How should the data engineer meet this requirement?

- A. Apply Z-ordering, since it allows flexible reorganization of data layout without rewriting existing files and adapts easily to

new filter columns.

- B. Combine partitioning and Z-ordering to maximize flexibility and minimize maintenance as query patterns change.
- C. Enable liquid clustering, as it efficiently handles data skew, allows clustering keys to be changed without rewriting existing data, and adapts to evolving query patterns.
- D. Use Hive-style partitioning, as it provides efficient data skipping and is easy to change partition columns at any time.

**Answer: C**

Explanation:

Liquid clustering is designed for managed tables under 1TB with evolving query patterns. It efficiently addresses data skew, continuously optimizes data layout, and allows clustering keys to be changed without requiring full data rewrites, making it well suited for frequently changing filter columns while minimizing maintenance overhead.

#### NEW QUESTION # 217

A data engineer is masking a column containing email addresses. The goal is to produce output strings of identical length for all rows, while generating different outputs for different email values.

Which SQL function should be used to achieve this?

- A. sha2(email, 0)
- B. mask(email, '?')
- C. sha1(email)
- D. hash(email)

**Answer: D**

Explanation:

The hash() function in Databricks SQL returns a deterministic fixed-length integer (or hexadecimal string) derived from the input.

When applied to sensitive identifiers like email addresses, it produces a unique value for each distinct input while ensuring uniform output size, making it suitable for anonymization where referential consistency is required.

Functions like mask() perform pattern-based substitutions that change string lengths, and sha1() or sha2() produce long hexadecimal strings of varying lengths (depending on hash size), which may not match requirements for fixed-length masking.

Therefore, the correct choice for fixed-length, deterministic pseudonymization of email addresses is hash(email), as it maintains analytical usability while anonymizing sensitive data.

#### NEW QUESTION # 218

The DevOps team has configured a production workload as a collection of notebooks scheduled to run daily using the Jobs UI. A new data engineering hire is onboarding to the team and has requested access to one of these notebooks to review the production logic.

What are the maximum notebook permissions that can be granted to the user without allowing accidental changes to production code or data?

- A. Can Edit
- B. Can Run
- C. No permissions
- D. Can Manage
- E. Can Read

**Answer: E**

#### NEW QUESTION # 219

A data engineer wants to join a stream of advertisement impressions (when an ad was shown) with another stream of user clicks on advertisements to correlate when impression led to monetizable clicks.

```

In the code below, Impressions is a streaming DataFrame with a watermark("event_time", "10 minutes")
.groupBy(
  window("event_time", "5 minutes"),
  "id")
.count()
).      withWatermark("event_time", "2 hours)
impressions.join(clicks, expr = "clickAdId = impressionAdId"), "inner")

```

Which solution would improve the performance?

- A.

```
Joining on event time constraint: clickTime >= impressionTime - interval 3 hours and removing watermark
```

- B.

```
Joining on event time constraint: clickTime + 3 hours < impressionTime - 2 hours
```

- C.

```
Joining on event time constraint: clickTime <= impressionTime using a leftOuter join
```

- D.

```
Joining on event time constraint: clickTime >= impressionTime AND clickTime <= impressionTime + interval 1 hour
```

**Answer: C**

Explanation:

When joining a stream of advertisement impressions with a stream of user clicks, you want to minimize the state that you need to maintain for the join. Option A suggests using a left outer join with the condition that  $clickTime = impressionTime$ , which is suitable for correlating events that occur at the exact same time. However, in a real-world scenario, you would likely need some leeway to account for the delay between an impression and a possible click. It's important to design the join condition and the window of time considered to optimize performance while still capturing the relevant user interactions. In this case, having the watermark can help with state management and avoid state growing unbounded by discarding old state data that's unlikely to match with new data.

### NEW QUESTION # 220

What is the first line of a Databricks Python notebook when viewed in a text editor?

- A. # MAGIC %python
- B. %python
- C. # Databricks notebook source
- D. -- Databricks notebook source
- E. // Databricks notebook source

**Answer: C**

Explanation:

<https://docs.databricks.com/en/notebooks/notebook-export-import.html#import-a-file-and-convert-it-to-a-notebook>

### NEW QUESTION # 221

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