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## Cloudera CDP Data Engineer - Certification Exam Sample Questions (Q178-Q183):

### NEW QUESTION # 178

What are the potential challenges associated with schema inference in data processing pipelines?

- A. The need for manual schema updates
- B. Inaccuracies in inferred schemas leading to data processing errors
- C. Performance overhead due to schema discovery
- D. Handling complex nested structures and arrays
- E. Increased storage costs for schema metadata

**Answer: B,C,D**

Explanation:

Schema inference can introduce performance overhead as the system needs to analyze the data to determine its structure.

Inaccuracies in the inferred schema may occur, especially with complex data types or when the data does not follow a consistent format, leading to potential errors in data processing. Handling complex nested structures and arrays can also present challenges, as the inference mechanism must correctly identify these elements within the data.

### NEW QUESTION # 179

In a Kubernetes environment, how does Kubernetes ensure fault tolerance when a pod running a Spark task fails?

- **A. Through Pod Replication with ReplicaSets**
- B. Using a load balancer for master components
- C. By using a Standby Master setup
- D. By checkpointing RDDs

**Answer: A**

Explanation:

Kubernetes ensures fault tolerance through pod replication using ReplicaSets. If a pod fails, the ReplicaSet will automatically create a new pod to replace it, ensuring that the desired number of pod replicas are always running. This is crucial for maintaining application availability in Kubernetes.

### NEW QUESTION # 180

Which tool or API is primarily used for monitoring and inspecting the performance of Spark applications in real-time?

A Spark History Server

- A. Apache Ambari
- **B. Hadoop YARN ResourceManager UI**
- C. Spark Web UI

**Answer: B**

Explanation:

The Spark Web UI is a monitoring tool that provides information about the execution of a Spark application. It gives insights into the scheduler stages and tasks, executor usage, storage usage, and environmental settings. It is accessible while the application is running and is the primary tool for real-time performance monitoring. The Spark History Server helps in inspecting the application performance after it has completed. Hadoop YARN ResourceManager UI and Apache Ambari are more generally used for cluster management and monitoring, not specifically for real-time Spark application performance.

### NEW QUESTION # 181

Why are partitioned tables beneficial in Hive for large datasets?

- A. They decrease the security of the data.
- **B. They allow for faster query processing by scanning only relevant partitions.**
- C. They ensure that all data is stored in a single file, simplifying access.
- D. They automatically encrypt data based on the partition key.

**Answer: B**

Explanation:

Partitioned tables are beneficial because they allow Hive to perform faster query processing by scanning only the relevant partitions of data rather than the entire dataset. This approach significantly reduces the amount of data read from disk during query execution, improving performance, especially with large datasets.

### NEW QUESTION # 182

You're working with a Spark application that processes sensitive data

a. How can you ensure that persisted data remains secure even if accessed from unauthorized sources?

- A. Rely on Spark's lineage tracking to prevent unauthorized access
- B. Implement custom access control mechanisms within your application
- **C. Encrypt the data before persisting it and decrypt it when needed**
- D. No additional security measures are needed, as Spark handles data security

**Answer: C**

Spark does not inherently provide encryption for persisted data A. Lineage tracking C helps track data flow but doesn't prevent unauthorized access. Implementing custom access control D can be complex. Encrypting data before persistence B ensures only authorized users with the decryption key can access the sensitive information.

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