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CDP-3002 CDP Data Engineer Practice Exam

Question 1: In the context of data engineering, which role primarily focuses on the design, construction, and management of data pipelines?

- A. Data Scientist
- B. Data Engineer
- C. Business Analyst
- D. Database Administrator

Answer: B

Explanation: The data engineer is responsible for building, testing, and maintaining the architecture (such as databases and large-scale processing systems) needed for data generation, ensuring that data flows smoothly through the system.

Question 2: Which of the following best distinguishes data engineering from data science?

- A. Data engineering involves statistical modeling, while data science focuses on data cleaning.
- B. Data engineering is primarily about building infrastructures, whereas data science extracts insights from data.
- C. Data engineering deals with data visualization only, while data science handles machine learning.
- D. Data engineering uses SQL exclusively, while data science uses NoSQL exclusively.

Answer: B

Explanation: Data engineering focuses on designing and maintaining the systems that collect and store data, while data science analyzes that data to derive insights.

Question 3: What is one of the key reasons data engineering is critical in the CDP ecosystem?

- A. It eliminates the need for data analysis tools.
- B. It ensures data availability and quality for analytics and decision-making.
- C. It only focuses on cloud storage.
- D. It replaces the role of a data scientist.

Answer: B

Explanation: Data engineering ensures that data is reliable, timely, and available in a form that analytics tools and data scientists can use effectively, making it a cornerstone of the CDP ecosystem.

Question 4: Which technology is primarily used for distributed storage and processing of big data?

- A. Apache Kafka
- B. Hadoop
- C. Apache Nifi
- D. Flume

Answer: B

Explanation: Hadoop provides a framework for distributed storage (HDFS) and processing (MapReduce), making it a key technology in big data environments.

Question 5: Apache Spark is best known for its capabilities in which of the following areas?

- A. Real-time data ingestion
- B. Distributed data processing and in-memory analytics
- C. Long-term data storage
- D. Data encryption

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Cloudera CDP Data Engineer - Certification Exam Sample Questions (Q220-Q225):

NEW QUESTION # 220

How can you secure your data pipelines within the Cloudera Data Engineering service to ensure data privacy and compliance?

- A. Implement encryption for data at rest and in transit but ignore user access control.
- B. **Employ a layered security approach combining access control, encryption, and audit logging.**
- C. Utilize Cloudera Manager security features without additional configuration within the Data Engineering service.
- D. Rely solely on access control lists (ACLs) defined on individual data assets.

Answer: B

Explanation:

A single security measure is insufficient for robust pipeline security. Option c outlines a comprehensive approach: Access control: Utilize Apache Ranger to define granular access permissions for users and groups, restricting access to sensitive data. Encryption: Encrypt data at rest (e.g., in cloud storage and in transit (during pipeline execution) to protect against unauthorized access. Audit logging: Enable audit logging to track user activities and data access attempts within the pipelines, facilitating compliance and forensic analysis.

NEW QUESTION # 221

You've deployed a Spark application using CDE that works heavily with Iceberg tables. To optimize performance, you want to ensure effective use of Kubernetes resources. Which of the following strategies helpful? (Choose two)

- A. **Configure dynamic resource allocation for your Spark executors.**
- B. Implement Kubernetes liveness and readiness probes for your Spark driver and executor pods.
- C. **Leverage Kubernetes taints and tolerations to dedicate specific nodes to Iceberg workloads.**
- D. Always use the latest available version of Spark.
- E. Set pod anti-affinity rules to prevent multiple Spark tasks from being scheduled on the same node.

Answer: A,C

Explanation:

A). Dynamic resource allocation lets Spark scale up and down based on workload, improving resource usage efficiency. D. Taints and tolerations provide fine-grained control over pod scheduling, ensuring critical Iceberg jobs get priority on suitable nodes. B. While pod anti-affinity can help, resource distribution for data-intensive tasks is more important. C. Probes ensure Kubernetes restarts failed pods, but don't directly impact Iceberg performance. E. Newer Spark versions may have Iceberg optimizations, but resource management is crucial. Spark

NEW QUESTION # 222

You're facing a schema mismatch between a Spark DataFrame and a Hive table when trying to write the DataFrame to the table. What are the potential causes and how can you address them?

- A. **Leverage Spark SQL's schema inference capabilities to automatically adjust the DataFrame schema**
- B. Modify the Spark DataFrame schema to match the Hive table schema manually
- C. Ignore the schema mismatch and write the data anyway, potentially leading to data corruption
- D. Use HiveQL's ALTER TABLE statement to modify the Hive table schema

Answer: A

Explanation:

Ignoring the mismatch A can lead to errors. Manually modifying the DataFrame schema B might be error-prone. Option D modifies the Hive table, potentially impacting other applications. Spark SQL can often infer the schema from the DataFrame's data types, providing a convenient and reliable way to address schema mismatches.

NEW QUESTION # 223

You're working with a complex DataFrame containing nested structures (e.g., arrays of structs). How can you access and manipulate data within these nested structures?

- A. Implement custom recursive functions to navigate through the nested structure
- B. Directly access elements using their position within the nested structure
- C. Leverage Spark SQL's built-in functions like explode and struct
- D. Convert the nested data into a simpler format like a single-level DataFrame

Answer: C

Explanation:

While direct access A might work for simple cases, it's not flexible for complex structures. Custom functions C can be complex and error-prone.

Spark SQL provides functions like explode to flatten arrays and struct to create complex structures, allowing you to efficiently work with and manipulate nested data.

NEW QUESTION # 224

A colleague proposes using Iceberg's optimistic locking feature for a high-concurrency scenario where multiple jobs frequently modify the same table. What potential issues should you raise?

- A. Optimistic locking in Iceberg introduces a significant performance overhead.
- B. Iceberg's optimistic locking isn't suitable for distributed environments like CDP.
- C. Optimistic locking might result in many failed transactions and retries, potentially leading to job instability.
- D. Iceberg's optimistic locking requires manual conflict resolution.

Answer: C

Explanation:

Optimistic locking works well for low-conflict scenarios. In high-concurrency situations, frequent retries can significantly impact performance and job success. Consider alternative coordination mechanisms.

NEW QUESTION # 225

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