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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 (Q188-Q193):

NEW QUESTION # 188
What Airflow feature allows you to template parts of your DAG to dynamically change based on the execution context?

- A. XComs
- B. PythonOperator
- C. Jinja Templating
- D. BranchOperator

Answer: C

NEW QUESTION # 189
What is the primary purpose of using Cloudera's API in a data engineering context?

- A. To automate the provisioning, configuration, and scaling of clusters.
- B. To increase the time it takes to deploy applications.
- C. To manually configure and start cluster services.
- D. To bypass security configurations for rapid development.

Answer: A

Explanation:
The primary purpose of using Cloudera's API in a data engineering context is to automate the provisioning, configuration, and scaling of clusters. This enables efficient management of big data environments by allowing programmatic control over various aspects of the cluster, reducing the need for manual intervention and enabling faster and more reliable deployments.

NEW QUESTION # 190
You are developing a PySpark application that processes a large dataset. Your application involves a transformation that requires shuffling data across the Executors. Which of the following responsibilities of the Spark Driver is most directly involved in this process?

- A. Interpreting the user application and creating an execution plan.
- B. Managing the shuffling and aggregation of data across Executors.
- C. Monitoring the progress and status of tasks on the Executors.
- D. Managing the lifecycle of Executor pods in Kubernetes.

Answer: B

Explanation:
The Spark Driver is responsible for managing operations that involve shuffling data. In this scenario, where the PySpark application includes a transformation requiring data shuffling, the Driver coordinates the shuffling and aggregation of data across different Executors to ensure correct execution of the transformation.

NEW QUESTION # 191
What challenge does schema inference aim to address when dealing with big data ecosystems?

- A. Reducing the computational power required for data analysis
- B. Ensuring that all data is encrypted according to its inferred schema
- C. The variety and complexity of data formats and structures
- D. The need for large storage spaces to hold data schemas

Answer: C

Explanation:
Schema inference primarily addresses the challenge of dealing with the variety and complexity of data formats and structures inherent in big data ecosystems. By automatically determining the structure of data, schema inference allows for more flexible and efficient processing of diverse datasets without the need for predefined schemas, thus tackling the issue of data heterogeneity.

NEW QUESTION # 192
What impact does the Spark configuration parameter spark.network.timeout have on Spark streaming applications?

- A. It controls the maximum time a Spark streaming application will wait for data before timing out.
- B. It determines the timeout for connections between executors and the Spark driver, impacting task retries and executor loss detection.
- C. It sets the timeout for Akka-based network operations, crucial for Spark streaming's stability.
- D. It specifies the timeout for network operations such as data shuffle and broadcast.

Answer: B

Explanation:
The spark.network.timeout configuration parameter specifies the timeout for network operations, including connections between executors and the Spark driver. It is crucial for detecting network issues, executor loss, and for controlling task retries in a distributed environment. This setting is particularly important in Spark streaming applications where maintaining a stable connection and promptly detecting failures is essential for continuous data processing. Options A and C describe aspects of network operations but do not capture the full scope of this parameter's impact on streaming applications. Option B is misleading as it suggests a direct control over data waiting time, which is not the primary purpose of this parameter.

NEW QUESTION # 193
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