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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 (Q301-Q306):

NEW QUESTION # 301

You're tasked with monitoring the performance and resource utilization of your Spark jobs. What tools and techniques can you employ for effective monitoring and troubleshooting?

- A. Manually analyze Spark logs after job completion
- B. Use Spark's web UI for basic job status information
- C. Implement custom instrumentation code within your Spark application
- D. Leverage YARN resource manager and Spark metrics for detailed monitoring

Answer: D

Explanation:
While logs and the web UI provide some insights, option C offers comprehensive monitoring. YARN provides resource allocation and utilization details, while Spark metrics capture various performance aspects like shuffle bytes, task completion times, and GC (garbage collection) activity.
These combined sources allow for detailed analysis and troubleshooting.

NEW QUESTION # 302

You're building an Airflow DAG to automate data quality checks on the output of your ETL pipeline. The checks involve performing various data validation tasks like checking for missing values, ensuring data type consistency, and verifying data integrity based on specific business rules. How can you implement these checks within Airflow?

- A. Use the PythonOperator to write custom Python scripts for each individual check and chain them together in the DAG.
- B. All of the above
- C. Leverage dedicated Airflow operators like BigQueryCheckOperator or S3KeySensor (these operators are specific to certain data sources and not generally applicable for all data quality checks).
- D. Utilize Python libraries like Pandas or Spark for data manipulation and validation within the PythonOperator.

Answer: B

NEW QUESTION # 303

Which of the following is a benefit of using RESTful APIs with Cloudera Manager for cluster management?

- A. Direct database access to Cloudera Manager's underlying storage mechanism.
- B. The ability to integrate with continuous integration/continuous deployment (CI/CD. pipelines.
- C. Increased network latency and overhead.
- D. Reduced compatibility with industry-standard tools and protocols.

Answer: B

Explanation:
A significant benefit of using RESTful APIs with Cloudera Manager for cluster management is the ability to integrate with CI/CD pipelines. This facilitates the automation of deployment, configuration, and management processes within the Cloudera ecosystem, enabling more agile and efficient operations by leveraging industry-standard protocols and tools for seamless integration.

NEW QUESTION # 304

You're working with a large Spark DataFrame and need to perform an aggregation operation (e.g., can you improve the performance of the aggregation? SUM, COUNT). How

- A. All of the above

- B. Increase the number of Spark executors without further optimization
- C. Leverage partitioning techniques to group relevant data together
- D. Use Spark SQL's built-in aggregation functions like SUM and COUNT

Answer: A

Explanation:
While increasing executors A might help, it's not the sole solution. Using built-in functions B is essential. Partitioning the DataFrame C based on the column involved in the aggregation reduces data shuffling across the network, significantly improving performance, especially for large datasets.

NEW QUESTION # 305
You are working with a large dataset in PySpark and notice that certain operations are being executed repeatedly, leading to performance issues. Which of the following approaches should you adopt to optimize these operations?

- A. Write the data to a CSV file and then read it back.
- B. Use the method.
- C. Increase the number of partitions using 'df.repartition()'.
- D. Use the 'df.persist()' method.

Answer: D

Explanation:
The 'df.persist()' method is used in PySpark to store the intermediate computation of a DataFrame in memory, so when it is accessed again, it does not need to be recomputed, thus optimizing performance. 'df.cache()' is a synonym but 'persist()' offers more control over storage level.

NEW QUESTION # 306
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