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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 (Q249-Q254):

NEW QUESTION # 249

How does setting the "priority_weight" parameter in Airflow tasks influence the scheduler's behavior?

- A. It allocates more CPU and memory resources to tasks with higher priority weights.
- B. It sets a fixed time slot during which the task must be executed, overriding the scheduler's automatic timing.
- C. It determines the order in which tasks are executed within the same DAG.
- **D. It influences the order in which tasks are selected for execution across multiple DAGs competing for resources.**

Answer: D

Explanation:

The "priority_weight" parameter in Airflow tasks is used to influence the scheduler's decision-making when multiple tasks across different DAGs are competing for execution resources. Tasks with higher priority weights are more likely to be selected for execution first. This parameter does not affect the execution order of tasks within the same DAG or allocate more computational resources to tasks; it primarily affects the scheduler's prioritization of tasks across DAGs.

NEW QUESTION # 250

What does setting the Spark configuration parameter 'spark.sql.shuffle.partitions' impact?

A The default level of parallelism for joins and aggregations

- **A. The serialization format of data**
- B. The compression codec used for shuffle files
- C. The memory allocation for executor instances

Answer: A

Explanation:

The 'spark.sql.shuffle.partitions' configuration parameter sets the number of partitions to use when shuffling data for joins or aggregations, which directly impacts the level of parallelism and the performance of these operations. A high number of partitions can lead to smaller tasks, potentially improving parallelism but at the cost of increased scheduling overhead. Conversely, too few partitions can lead to fewer, larger tasks, possibly causing out-of-memory errors or underutilizing the cluster.

NEW QUESTION # 251

As a data engineer, you are working with PySpark to analyze data stored in an HDFS cluster. You need to read a CSV file into a Spark DataFrame. Which of the following code snippets correctly reads the data from HDFS into a DataFrame?

- A. ☐
- **B. ☒**
- C. ☐
- D. ☐

Answer: B

Explanation:

The correct way to read a CSV file from HDFS into a Spark DataFrame in PySpark is using 'spark.read.format("csv").load("hdfs://path/to/data.csv")*. This method specifies the format as CSV and loads the file from the specified HDFS path.

NEW QUESTION # 252

You need to read data from a Hive table into a Spark DataFrame. Which approach would be the most efficient?

- A. Leverage Spark SQL capabilities with `SELECT FROM table_name`
- B. Use the `spark.read.parquet("/path/to/hive/table")` method directly
- C. Use the `FROM table_name` method
- D. Convert the Hive table to a managed table and then use `spark.read.table("table_name")`

Answer: A

Explanation:

While other options might work, option C is the most efficient and recommended approach. Spark SQL can directly access data from Hive tables using standard SQL syntax, transparently handling schema translation and ensuring optimal performance.

NEW QUESTION # 253

In a PySpark application running on Kubernetes, you want to enable dynamic allocation of Executors. Which configuration setting is essential to turn on this feature?

- A. `'spark.dynamicAllocation.enabled'`
- B. `'spark.kubernetes.executor.dynamicAllocation'`
- C. `'spark.kubernetes.dynamicAllocation.enabled'`
- D. `'spark.executor.instances'`

Answer: A

Explanation:

The configuration `'spark.dynamicAllocation.enabled'` is used to enable the dynamic allocation feature in Spark applications. This feature allows Spark to dynamically adjust the number of Executor pods in Kubernetes based on the current workload.

NEW QUESTION # 254

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