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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 (Q131-Q136):

NEW QUESTION # 131
You're tasked with optimizing the performance of your ETL pipeline in Airflow. What are some potential strategies to consider?

- A. Utilize efficient data structures and algorithms within your custom Python operators for data transformation.
- B. Leverage partitioning and bucketing techniques in the data warehouse to improve query performance.
- C. All of the above
- D. Increase the number of worker processes in Airflow to parallelize task execution.

Answer: C

Explanation:
All options listed in D contribute to optimizing Airflow ETL pipeline performance. Optimizing code within operators, utilizing data warehouse features, and increasing worker processes (considering resource constraints) can all lead to improved efficiency.

NEW QUESTION # 132
How can you dynamically generate tasks in Apache Airflow?

- A. By using Python loops to create tasks during DAG parsing
- B. By using the Jinja templating engine
- C. By using the Variable feature to store dynamic configurations
- D. By defining a Python function inside the DAG file

Answer: A

Explanation:
You can dynamically generate tasks in Apache Airflow by using Python loops within the DAG definition file. This allows for the programmatic creation of tasks based on dynamic inputs or configurations. While Jinja templating, Python functions, and Variables can influence task behavior and configurations, the direct method for dynamically generating tasks is through Python loops during DAG parsing.

NEW QUESTION # 133
You need to design a DAG that can be easily triggered based on external events or data availability. How can you achieve this functionality?

- A. Schedule the DAG to run continuously at a fixed interval.
- B. Utilize Airflow sensors like FileSensor or S3KeySensor to wait for specific conditions before triggering the DAG.
- C. Rely on manual intervention to trigger the DAG whenever necessary.
- D. Implement custom code within the DAG to actively check for external events or data availability.

Answer: B

NEW QUESTION # 134
Which of the following strategies would NOT be recommended for managing skewed data during join operations in Spark?

- A. Applying a filter to remove outliers that cause data skewness before joining.
- B. Increasing the number of partitions to distribute the skewed data more evenly.
- C. Salting the keys to distribute the data more evenly across partitions.

- D. Using a broadcast join assuming one dataset is small enough to fit into memory.

Answer: A

Explanation:
While filtering out outliers might seem like a way to address data skew, it's not a recommended strategy for managing skewed data during join operations because it can lead to loss of potentially valuable data. The goal in handling skew is to ensure even data distribution without discarding data. Salting keys, using broadcast joins for small datasets, and adjusting the number of partitions are more effective techniques for mitigating skew without sacrificing data integrity.

NEW QUESTION # 135
What is a potential downside of overly granular partitioning in Hive tables?

- A. Automatic data deduplication
- B. Increased data security
- C. Simplified data management
- D. Reduced query performance due to metadata overhead

Answer: D

Explanation:
Overly granular partitioning in Hive tables can lead to a large number of partitions, which increases the metadata that Hive needs to manage. This can negatively impact query performance because Hive must load and process this extensive metadata before executing queries, potentially leading to slower response times.

NEW QUESTION # 136
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