

# CDP-3002 Interactive Testing Engine - CDP-3002 Valid Exam Book

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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 (Q253-Q258):

### NEW QUESTION # 253

What is a primary consideration when deciding to cache data in a distributed computing environment like Apache Spark?

- A. Using disk storage for all cached data to improve fault tolerance
- B. Ensuring data is encrypted before caching
- C. Caching every dataset regardless of its access frequency
- D. The trade-off between memory usage and computational efficiency

**Answer: D**

Explanation:

When deciding to cache data in a distributed computing environment like Apache Spark, a primary consideration is the trade-off between memory usage and computational efficiency. Caching can significantly speed up data access for frequently accessed datasets, but it also consumes precious memory resources. Balancing the benefits of reduced computation with the costs of increased memory usage is crucial for optimizing application performance.

### NEW QUESTION # 254

Your Airflow DAG performs data quality checks that involve complex data transformations and aggregations. How can you ensure these checks are executed efficiently and don't impact the performance of the entire pipeline?

- A. Offload complex data processing tasks to separate DAGs designed specifically for data preparation.
- B. Use Airflow's built-in data manipulation operators like `SQLExecuteOperator` for basic checks, avoiding complex transformations.
- C. Utilize libraries like Pandas or Spark for data manipulation within the `PythonOperator`, leveraging optimization features where available.
- D. Implement the data transformations and aggregations directly within the checking logic, regardless of efficiency.

**Answer: A,C**

### NEW QUESTION # 255

What is the primary consideration when choosing the number of buckets in a Hive table?

- A. The expected distribution of data across the bucketing column
- B. The total storage capacity of the HDFS cluster
- C. The number of nodes in the Hadoop cluster
- D. The number of rows in each partition

**Answer: A**

Explanation:

The primary consideration when choosing the number of buckets in a Hive table is the expected distribution of data across the bucketing column. The goal is to ensure that data is evenly distributed across buckets to avoid skew and to maximize the efficiency of operations like joins and aggregations that can leverage bucketing. An uneven distribution can lead to some buckets being much larger than others, negating the performance benefits of bucketing.

### NEW QUESTION # 256

You want to schedule your Airflow DAG to run every hour, starting at midnight (00:00). How can you achieve this scheduling configuration?

- A. Use the cron expression "@hourly".
- B. Set the schedule\_interval parameter to "0 0".
- C. Define a custom Python function to schedule the DAG at the desired time.
- D. Utilize Airflow triggers to initiate the DAG execution at midnight.

**Answer: A**

Explanation:

Option B uses the @hourly cron expression, a convenient way to schedule tasks to run every hour in Airflow. Option A specifies a specific time within the cron syntax

### NEW QUESTION # 257

You are working with a large, skewed dataset in Spark. How would you optimize processing to mitigate the impact of skew and improve performance?

- A. Broadcast the skewed data to all executors.
- B. Use salting on the skewed column during data partitioning.
- C. Implement custom partitioners to evenly distribute skewed values.
- D. Addressing skewed data requires

**Answer: D**

Explanation:

Addressing skewed data requires a multi-pronged approach. Salting randomizes data distribution within partitions, custom partitioners ensure balanced distribution of skewed values, and broadcasting avoids redundant data transfers on shuffled stages.

### NEW QUESTION # 258

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