

CDP-3002 Exam Torrent - CDP Data Engineer - Certification Exam Prep Torrent & CDP-3002 Test Guide

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 (Q308-Q313):

NEW QUESTION # 308

You're integrating data quality checks into a complex ETL pipeline with numerous tasks and dependencies. How can you ensure the checks are executed in the correct order and don't interfere with other pipeline tasks?

- A. Implement a custom script to manage the execution of the data quality checks independently.
- B. Run all tasks (ETL and checks) concurrently, assuming they are independent.
- C. Schedule the data quality checks as a separate DAG and trigger it after the ETL pipeline completes.
- **D. Utilize Airflow upstream/downstream dependencies to define the execution order between check tasks and other pipeline tasks.**

Answer: D

Explanation:

While option A might be a workaround, relying on separate DAGs can lead to management complexity. Option B highlights the importance of using Airflow's dependency features:

NEW QUESTION # 309

What are the potential consequences of persisting all intermediate RDDs in Spark with the MEMORY ONLY storage level?

- **A. Increased risk of application crashes due to memory exhaustion**
- B. No impact on the application, as Spark manages memory efficiently
- C. Improved performance due to faster data access
- D. All intermediate data will be automatically persisted to disk

Answer: A

Explanation:

While MEMORY_ONLY provides faster access, persisting all data in memory can lead to memory exhaustion B, potentially causing application crashes. Spark manages memory, but it's essential to consider available memory and data size when choosing the storage level.

NEW QUESTION # 310

You want to use Spark to perform aggregations on data stored in Hive tables. How can you achieve this efficiently and seamlessly?

- A. Use HiveQL's aggregation capabilities and then convert the results back to a Spark DataFrame
- B. Implement custom UDFs (User-Defined Functions) in Spark for complex aggregations
- **C. Leverage Spark SQL's built-in aggregation functions like SUM and COUNT**
- D. Write custom aggregation logic using Spark functions and loop through the entire DataFrame

Answer: C

Explanation:

Option B provides the most efficient and recommended approach. Spark SQL offers various built-in functions for aggregations like SUM, COUNT, AVG, etc., enabling concise and efficient processing of data directly from Hive tables.

NEW QUESTION # 311

You are designing a data pipeline that involves ingesting data from multiple sources, performing data transformations using Spark, and storing the results in a data lake. How would you leverage the Cloudera Data Engineering service to ensure efficient and fault-

tolerant execution?

- A. Develop a single Spark job containing all transformation logic.
- B. Utilize separate Spark jobs for each data source and transformation step.
- C. Implement custom logic within the YAML configuration file to manage data flow and error handling.
- **D. Design the pipeline with stages and steps, leveraging Spark operators for transformations and utilizing retries and error handling mechanisms.**

Answer: D

NEW QUESTION # 312

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

Answer: D

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 # 313

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