

Practice CDP-3002 Exam - Test CDP-3002 Sample Online

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 (Q288-Q293):

NEW QUESTION # 288

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

- A. Using a broadcast join assuming one dataset is small enough to fit into memory.
- 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. Applying a filter to remove outliers that cause data skewness before joining.

Answer: D

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 # 289

In Airflow, what is a Hook used for?

- A. To define the execution order of tasks
- B. To connect to external systems and databases
- C. To visualize task execution and logs
- D. To retry failed tasks automatically

Answer: B

Explanation:

Hooks in Apache Airflow are interfaces to external systems and databases, allowing for easy connection and interaction with these systems as part of a task. They abstract away the connection details, providing a consistent and simplified API for tasks to access external data sources or services.

NEW QUESTION # 290

You're building a large and complex ETL pipeline with numerous tasks and dependencies. What are some best practices to ensure its maintainability and understandability?

- A. Implement extensive logging within each task to capture detailed execution information.
- B. All of the above
- C. Use clear and descriptive names for tasks, operators, variables, and DAG comments throughout the code.
- D. Break down the pipeline into smaller, modular sub-DAGs with well-defined functionalities.

Answer: B

Explanation:

All options listed in D are crucial for maintaining a large and complex Airflow ETL pipeline. Using descriptive naming, modularizing with sub-DAGs, and adding relevant logging practices enhance clarity and facilitate troubleshooting in the long run.

NEW QUESTION # 291

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

Answer: C

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 # 292

How can you prevent backfilling for a specific DAG in Apache Airflow?

A Set catchup=False in the DAG's arguments.

- A. Use schedule interval=None.
- B. Set max active runs=1.
- C. Define is backfill=False in the DAG definition.

Answer: B

Explanation:

Setting catchup=False in the DAG's default arguments prevents Airflow from backfilling any execution dates that have not been run for the period between the DAG's start date and the current date. This is useful for scenarios where backfilling is not necessary or desired.

NEW QUESTION # 293

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