

CDP-3002 Reliable Dumps Questions & CDP-3002 Valid Study 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 (Q148-Q153):

NEW QUESTION # 148

Which of the following commands is used to install PySpark in your development environment?

- A. yarn add pyspark
- B. pip install pyspark
- C. brew install pyspark
- D. npm install pyspark

Answer: B

Explanation:

PySpark is a Python library and can be installed using pip, which is the package installer for Python. The correct command is 'pip install pyspark'.

NEW QUESTION # 149

In Apache Airflow, what is the purpose of setting max_active_runs in a DAG's configuration?

- A. To control the number of retries for a failed task.
- B. To specify the maximum number of DAG runs that can be executed in parallel.
- C. To limit the number of task instances that can run concurrently within the DAG.
- D. To determine the maximum number of DAG files that can be parsed at any given time.

Answer: B

Explanation:

The max_active_runs setting in a DAG's configuration limits the number of DAG runs that can be executed concurrently. This is useful for controlling resource utilization and ensuring that the Airflow instance does not get overwhelmed by too many parallel executions of the same DAG.

NEW QUESTION # 150

You're working with a large DAG that contains numerous tasks and complex dependencies. How can you improve the DAG's readability and maintainability?

- A. Use cryptic and abbreviated names for tasks and variables, assuming everyone understands the context.
- B. Utilize comments sparingly within the DAG code, as the logic should be self-explanatory.
- C. Implement extensive logging within each task, regardless of its purpose, to capture detailed execution information.
- D. Break down the DAG into smaller sub-DAGs with well-defined functionalities and clear naming conventions.

Answer: D

NEW QUESTION # 151

When deploying a packaged PySpark application using 'spark-submit', which option is used to include the packaged dependencies?

- A. --py-files
- B. --jars
- C. -files
- D. --packages

Answer: A

Explanation:

The '-py-files' option is used with 'spark-submit' to include additional Python files or packages (like .zip, .egg, or .py files) necessary for the application, such as the packaged dependencies in a wheel file.

NEW QUESTION # 152

In Apache Airflow, how can you ensure that a data quality check task is only executed if a previous data ingestion task succeeded and the ingested data volume exceeds a certain threshold?

- A. Implement a PythonOperator with a pre_execute hook for the condition check.
- **B. Utilize the ShortCircuitOperator with a custom Python function to check both conditions.**
- C. Configure the trigger_rule parameter to all_success and use a PythonOperator to verify the data volume.
- D. Use a BranchPythonOperator with a condition that checks the success of the ingestion task and the data volume.

Answer: B

Explanation:

The ShortCircuitOperator is designed for situations where subsequent tasks should only run based on the outcome of a condition. By using this operator with a custom Python function that verifies both the success of the previous task and whether the data volume exceeds a specific threshold, you can effectively control the execution flow of your data quality checks.

NEW QUESTION # 153

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