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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 (Q122-Q127):

NEW QUESTION # 122

Your team is using PySpark and wants to ensure task re-execution in case of a node failure. What mechanism in Spark ensures that tasks are retried on other nodes upon failure?

- A. Master Node Redundancy
- B. Checkpointing
- C. Data Replication
- D. Task Re-execution

Answer: D

Explanation:

Task re-execution is the mechanism in Spark that ensures tasks are retried on other nodes in the event of a node failure. This is a key feature of Spark's fault tolerance capability, allowing it to handle worker node failures without data loss.

NEW QUESTION # 123

You're working with an ETL pipeline that extracts data from multiple sources. How can you ensure that the pipeline only processes the latest data and avoids re-processing already processed data?

- A. Rely on Airflow's built-in mechanisms to handle data freshness automatically.
- B. Configure the data sources to only provide new data by default.
- C. Implement a custom mechanism to track the last processed record for each source and filter data accordingly.
- D. Use timestamps or versioning information provided by the data sources to identify new data.

Answer: C,D

Explanation:

While option C might not always be feasible or reliable depending on the specific data source, both option A and B provide valid approaches. Utilizing timestamps, versioning, or custom tracking mechanisms allows the pipeline to identify and process only the latest data, avoiding unnecessary re-processing.

NEW QUESTION # 124

In Apache Airflow, how does the "catchup" parameter in a DAG definition influence the scheduling of DAG runs when backfilling data?

- A. It forces Airflow to ignore the start_date and schedule the DAG run immediately.
- B. It disables backfilling entirely, ensuring that only future DAG runs are executed.
- C. It enables backfilling, causing Airflow to schedule DAG runs for all intervals between the DAG's start_date and the current date.
- D. It limits the number of backfilled DAG runs to the most recent execution interval only.

Answer: C

Explanation:

The "catchup" parameter, when set to True (which is the default), tells Airflow to backfill DAG runs for all the intervals between the DAG's start_date and the current date or end_date if specified. Setting "catchup" to False prevents Airflow from performing this

backfilling, causing it to schedule DAG runs only for intervals after the DAG's start_date that have not yet occurred.

NEW QUESTION # 125

You're writing a Spark application that processes streaming data in real-time. How can you create DataFrames from streaming data sources?

- A. Utilize Spark SQL's streaming capabilities with the FROM clause
- B. Use the same methods as for batch processing, reading data from a file
- C. All of the above
- D. Leverage Spark Streaming's functions like `createDataFrame` with appropriate parameters

Answer: D

Explanation:

Spark Streaming requires specific functions for handling real-time data. Option A is not applicable for streaming data. While Spark SQL can be used with streaming data C, Spark Streaming offers dedicated functions like `createDataFrame` that take streaming data sources like Kafka or Flume as input and allow you to define the schema for the resulting DataFrame.

NEW QUESTION # 126

Which of the following is true about the Airflow Webserver?

A It schedules and executes tasks.

- A. It is used exclusively for monitoring pipeline logs.
- B. It stores metadata about DAGs and their execution status.
- C. It provides a user interface for DAG configuration and monitoring.

Answer: B

Explanation:

The Airflow Webserver provides a web-based user interface for managing and monitoring DAGs, including their configuration, execution, and logs. It does not schedule or execute tasks (the role of the Scheduler and Executor), nor does it store metadata (the role of the Metadata Database).

NEW QUESTION # 127

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