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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 (Q92-Q97):

NEW QUESTION # 92

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

Answer: B

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 # 93

Which approach can help mitigate issues with schema inference for complex data types in a big data environment?

- A. Using only traditional RDBMS systems that require explicit schema definitions
- B. Ignoring schema inference and processing all data as plain text
- C. Decreasing the frequency of data ingestion to reduce processing load
- **D. Combining schema inference with schema evolution and user-defined schemas for complex datasets**

Answer: D

Explanation:

Combining schema inference with schema evolution and the ability for users to define or adjust schemas for complex datasets offers a flexible approach to managing data. Schema inference provides an initial understanding of the data structure, schema evolution allows the schema to adapt to changes over time, and user-defined schemas enable precise control over complex data types, ensuring accurate and efficient data processing.

NEW QUESTION # 94

Your Spark application involves complex data transformations requiring multiple shuffles. How can you leverage Spark's in-memory caching mechanisms to improve performance?

A Use `rdd.persist(StorageLevel.MEMORY_ONLY)` for all intermediate RDDs

- **A. Tune Spark configuration parameters like `spark.storage.memoryFraction`**
- B. Leverage Spark SQL caching with materialized views
- C. Implement custom caching logic using in-memory data structures

Answer: A

Explanation:

While custom caching B might be possible, Spark offers efficient solutions. Persisting intermediate RDDs in memory using `StorageLevel.MEMORY_ONLY` allows for faster access during subsequent shuffles. Additionally, materializing views in Spark SQL caches frequently used query results, improving performance for subsequent queries with the same data.

NEW QUESTION # 95

What are the potential challenges associated with schema inference in data processing pipelines?

- A. Inaccuracies in inferred schemas leading to data processing errors
- B. Increased storage costs for schema metadata
- C. The need for manual schema updates
- D. Handling complex nested structures and arrays
- E. Performance overhead due to schema discovery

Answer: A,D,E

Explanation:

Schema inference can introduce performance overhead as the system needs to analyze the data to determine its structure. Inaccuracies in the inferred schema may occur, especially with complex data types or when the data does not follow a consistent format, leading to potential errors in data processing. Handling complex nested structures and arrays can also present challenges, as the inference mechanism must correctly identify these elements within the data.

NEW QUESTION # 96

You're building an Airflow ETL pipeline that involves data validation checks. How can you integrate these checks into the pipeline and handle potential failures?

- A. Use the FailoverOperator to automatically skip downstream tasks if the validation check fails.
- B. Implement the validation checks within custom Python operators and raise exceptions upon failure, triggering downstream tasks to handle the error.
- C. Leverage XCom to share the validation results with downstream tasks for further processing.
- D. Configure the DAG to send email notifications upon validation failures for manual intervention.

Answer: B

Explanation:

Option A is the most appropriate approach for integrating data validation checks within the pipeline. By raising exceptions upon failure, you can control the flow of the DAG and trigger appropriate actions based on the validation results.

NEW QUESTION # 97

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