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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 (Q99-Q104):

NEW QUESTION # 99

Your Airflow DAG performs data quality checks that involve complex data transformations and aggregations. How can you ensure these checks are executed efficiently and don't impact the performance of the entire pipeline?

- A. Implement the data transformations and aggregations directly within the checking logic, regardless of efficiency.
- B. Utilize libraries like Pandas or Spark for data manipulation within the PythonOperator, leveraging optimization features where available.
- C. Offload complex data processing tasks to separate DAGs designed specifically for data preparation.
- D. Use Airflow's built-in data manipulation operators like SQLExecuteOperator for basic checks, avoiding complex transformations.

Answer: B,C

NEW QUESTION # 100

Due to regulatory requirements, you need to permanently delete specific sensitive records from an Iceberg table. Which of the following techniques would be most appropriate?

- A. Implement a custom process, leveraging Iceberg's row-level updates to delete the sensitive records and then using file-level operations to physically remove the data.
- B. Use Iceberg's EXPIRE SNAPSHOT procedure to remove snapshots containing the sensitive data.
- C. Issue a standard Iceberg DELETE query, as deleted data will automatically be expunged from the table.
- D. Modify the data files directly using low-level tools to overwrite the sensitive data.

Answer: A

Explanation:

Iceberg doesn't have a built-in "permanent delete" feature. You'll need a carefully designed process combining row-level updates with the ability to rewrite data files to comply with regulations.

NEW QUESTION # 101

In the context of packaging a PySpark application, what is the purpose of the 'requirements.txt' file?

- A. To define the Spark version compatible with the application.
- B. To list all the third-party dependencies required by the application.
- C. To specify the Python version required for the application.
- D. To list the environment variables needed for the application.

Answer: B

Explanation:

The 'requirements.txt' file is used to list all third-party libraries (dependencies) that the PySpark application needs. These dependencies are then installed using pip.

NEW QUESTION # 102

In Apache Spark, which storage level is recommended for caching data that is accessed frequently but is too large to fit in memory?

- A. DISK ONLY
- B. OFF HEAP
- C. MEMORY ONLY

- **D. MEMORY AND DISK**

Answer: D

Explanation:

The MEMORY_AND_DISK storage level is recommended for caching data that is frequently accessed but too large to fit entirely in memory. This level stores the data in memory as much as possible and spills the remainder to disk, providing a good balance between performance and resource utilization.

NEW QUESTION # 103

You need to join a Spark DataFrame with a Hive table. How can you achieve this efficiently?

- A. Convert the Hive table to a temporary table and then perform the join with the DataFrame
- B. Load the Hive table data into the DataFrame and then perform an in-memory join
- **C. Use Spark SQL syntax with the JOIN clause, specifying the join type and condition**
- D. Implement custom logic using Spark's RDD operations to join the data

Answer: C

Explanation:

Spark SQL provides seamless integration with Hive tables. Option A allows you to use familiar SQL syntax with the JOIN clause, specifying the join type (e.g., INNER, LEFT, RIGHT) and the join condition, offering an efficient and concise way to perform the join.

NEW QUESTION # 104

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