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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 (Q295-Q300):

NEW QUESTION # 295

You're building an Airflow DAG to extract data from a database table that is constantly updated. How can you implement incremental extraction to avoid processing the entire table each time the DAG runs?

- A. Implement a custom Python script to track the last processed record and use it to filter the data during subsequent runs.
- B. Configure the database connection to only retrieve newly added data.
- C. Leverage the Previous execution operator to access the execution date of the previous DAG run and use it as a filter in the extraction query.
- D. Use the File sensor to check for the presence of a new data file and trigger the DAG only when the file appears.

Answer: C

Explanation:

While other options might be applicable in certain scenarios, option B is the most common and efficient way to implement incremental extraction in Airflow for databases. The Previous execution operator allows you to access the execution date of the previous DAG run, which can be used as a filter in the extraction query to only retrieve data added or modified since the last run.

NEW QUESTION # 296

What is the primary purpose of the Cost-Based Optimizer (CBO) in the context of Cloudera's Optimization Framework?

- A. To minimize the amount of data processed
- B. To distribute data evenly across the cluster
- C. To choose the data storage format
- D. To decide the best execution plan based on the cost of operations

Answer: D

Explanation:

The Cost-Based Optimizer (CBO) aims to select the most efficient execution plan for a query based on the cost associated with various operations. It considers factors like data size, data locality, and the computational cost of operations to optimize the query execution.

NEW QUESTION # 297

What are the potential consequences of persisting all intermediate RDDs in Spark with the MEMORY ONLY storage level?

- A. All intermediate data will be automatically persisted to disk
- B. No impact on the application, as Spark manages memory efficiently
- C. Increased risk of application crashes due to memory exhaustion
- D. Improved performance due to faster data access

Answer: C

Explanation:

While MEMORY_ONLY provides faster access, persisting all data in memory can lead to memory exhaustion B, potentially causing application crashes. Spark manages memory, but it's essential to consider available memory and data size when choosing the storage level.

NEW QUESTION # 298

In a distributed environment like Apache Spark, under what conditions might a sort merge join perform more efficiently than a

broadcast join?

- A. When one of the datasets is significantly larger than the other, and broadcasting the smaller dataset would lead to excessive memory usage.
- B. When both datasets are small enough to fit into the memory of a single node.
- **C. When both datasets are large, roughly equal in size, and already partitioned on the join key.**
- D. Whenever there is sufficient network bandwidth to handle data shuffling.

Answer: C

Explanation:

A). sort merge join may outperform a broadcast join when both datasets are large, approximately equal in size, and already partitioned on the join key. This scenario minimizes the need for data shuffling and leverages parallel processing efficiently. While broadcast joins are excellent for joining a large dataset with a small one, their efficiency decreases as the size of the dataset being broadcasted grows, potentially leading to memory constraints.

NEW QUESTION # 299

Which tool or API is primarily used for monitoring and inspecting the performance of Spark applications in real-time?

A Spark History Server

- A. Spark Web UI
- **B. Hadoop YARN ResourceManager UI**
- C. Apache Ambari

Answer: B

Explanation:

The Spark Web UI is a monitoring tool that provides information about the execution of a Spark application. It gives insights into the scheduler stages and tasks, executor usage, storage usage, and environmental settings. It is accessible while the application is running and is the primary tool for real-time performance monitoring. The Spark History Server helps in inspecting the application performance after it has completed. Hadoop YARN ResourceManager UI and Apache Ambari are more generally used for cluster management and monitoring, not specifically for real-time Spark application performance.

NEW QUESTION # 300

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