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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 (Q283-Q288):

NEW QUESTION # 283

What is the role of a Spark driver in a distributed processing job?

- **A. Coordinates tasks across the cluster**
- B. Manages communication between executors and workers
- C. Stores and processes intermediate data
- D. Performs computations on individual data partitions

Answer: A

Explanation:

The driver program acts as the central entity, submitting jobs, scheduling tasks on executors, and managing dependencies between stages

NEW QUESTION # 284

What is the role of an Operator in an Apache Airflow DAG?

A To schedule DAG runs based on time or external triggers

- **A. To monitor the execution of DAGs and provide notifications**
- B. To store metadata and logs for tasks and DAGs
- C. To represent a single task or a step within a DAG

Answer: A

Explanation:

In Apache Airflow, an Operator represents a single task or a step within a DAG, defining what actually gets done by a task. Operators are the building blocks of a DAG, specifying the type of work that needs to be done, such as running a Python function, executing a SQL command, or transferring data.

NEW QUESTION # 285

When persisting an RDD in Spark, what factors should you consider when choosing the storage level (e.g., MEMORY ONLY, MEMORY AND_DISK)?

- **A. All of the above**
- B. Balance memory usage with fault tolerance needs
- C. Only consider the size of the RDD
- D. Prioritize keeping data in memory for faster access

Answer: A

Explanation:

Choosing the storage level involves considering various factors. You should consider the size of the RDD A, as large datasets might not fit entirely in memory. Prioritizing memory usage B improves access speed but might not be suitable for fault-tolerance. Balancing memory usage with disk persistence C ensures data availability even in case of node failures, offering a compromise between performance and fault tolerance.

NEW QUESTION # 286

When performing a bucketed join between two tables, what must be true for the join to be executed as a map-side join, thereby maximizing performance?

- A. Only one table needs to be bucketed, regardless of the bucket count.
- B. Both tables must be partitioned, not bucketed, on the join columns.
- **C. Both tables must be bucketed on the join columns with the same number of buckets and the same hash function.**
- D. Both tables must be bucketed on the join columns with a different number of buckets.

Answer: C

Explanation:

For a join to be executed as a map-side join when using bucketed tables, both tables must be bucketed on the join columns with the same number of buckets and use the same hash function. This ensures that the data is distributed in a way that corresponding buckets from each table contain joinable data, allowing Hive to perform the join directly on the map side without shuffling data, which significantly improves performance by reducing network I/O and processing time.

NEW QUESTION # 287

In a Kubernetes environment, why is it beneficial to run the Spark Driver in its own pod?

- **A. To isolate the Driver from Executor pods for security reasons.**
- B. To automatically scale the Driver based on workload.
- C. To use a different programming language for the Driver.
- D. To reduce the cost of cloud resources.

Answer: A

Explanation:

Running the Spark Driver in its own pod in Kubernetes provides enhanced isolation, which can improve security and resource management, separating the Driver's lifecycle and resources from those of the Executors.

NEW QUESTION # 288

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