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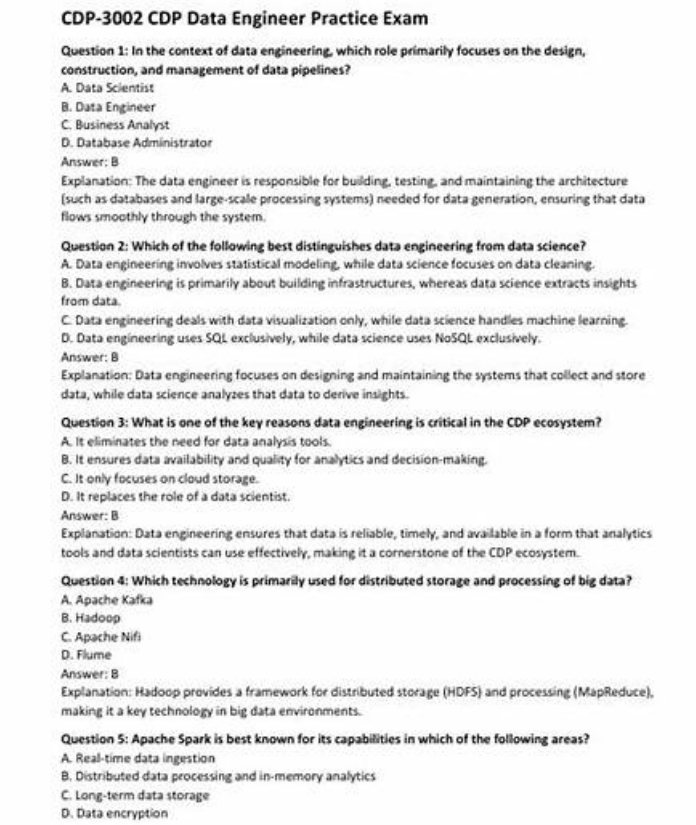

CDP-3002 CDP Data Engineer Practice Exam

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 (Q28-Q33):

NEW QUESTION # 28
Considering Hive's optimization mechanisms, under which scenario might partition pruning fail to improve query performance?

- A. When the partitioned table contains a small number of partitions
- B. When querying data using a non-partition column as a filter
- C. When querying data using the exact partition key in the WHERE clause
- D. When the table is partitioned on a column frequently used in query filters

Answer: B

Explanation:
Partition pruning improves query performance by only scanning the relevant partitions that match the query's filter criteria. However, if a query uses a filter on a non-partition column, partition pruning cannot be applied, as Hive has to scan all partitions to evaluate the filter condition. This can lead to no performance improvement since the optimization mechanism relies on filtering data based on partition keys.

NEW QUESTION # 29
When optimizing join operations in a distributed data processing environment, why is it important to co-locate join keys?

- A. To increase the storage capacity required for join operations
- B. To enhance data encryption methods for secure joins
- C. To ensure data integrity by preventing data loss during network transmission
- D. To minimize data shuffle by ensuring related data is on the same node

Answer: D

Explanation:
Co-locating join keys is crucial for minimizing data shuffle during join operations in a distributed data processing environment. By ensuring that related data resides on the same node, the need for moving large amounts of data across the network is reduced, thereby improving the performance and efficiency of join operations.

NEW QUESTION # 30
In Airflow, what is a Hook used for?

- A. To define the execution order of tasks
- B. To visualize task execution and logs
- C. To retry failed tasks automatically
- D. To connect to external systems and databases

Answer: D

Explanation:
Hooks in Apache Airflow are interfaces to external systems and databases, allowing for easy connection and interaction with these systems as part of a task. They abstract away the connection details, providing a consistent and simplified API for tasks to access external data sources or services.

NEW QUESTION # 31
What advanced technique can be used in Hive to optimize queries on bucketed tables by skipping unnecessary data?

- A. Increasing the replication factor of bucketed data
- B. Bucket pruning based on query predicates

- C. Data encryption at the bucket level
- D. Manually specifying the buckets to scan during query execution

Answer: B

Explanation:
Bucket pruning is an advanced technique that can be used in Hive to optimize queries on bucketed tables by skipping unnecessary data. Similar to partition pruning, bucket pruning allows Hive to skip over buckets that do not match the query predicates, thereby reducing the amount of data scanned and improving query performance. This technique relies on the metadata about the buckets and the distribution of data within them to determine which buckets are relevant to the query, enabling more efficient data access patterns.

NEW QUESTION # 32
What Airflow feature allows you to template parts of your DAG to dynamically change based on the execution context?

- A. Jinja Templating
- B. BranchOperator
- C. XComs
- D. PythonOperator

Answer: A

NEW QUESTION # 33
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