New CDP-3002 Exam Papers - CDP-3002 Interactive Questions

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 (Q317-Q322):

NEW QUESTION # 317
Consider the following code snippet:# Sample DataFrame (assuming it exists) df = spark.createDataFrame(...)
# Attempt to explode a nested array column (fix the error)
df_exploded = df.withColumn("items", F.explode(df["items"]))
df_exploded.show()
What is the error in this code, and how can it be fixed?

- A. The error is using withColumn instead of a dedicated method for exploding arrays. Fix: Use df.withColumnExploded. (This function doesn't exist in Spark)
- B. The error is attempting to modify the original DataFrame in-place. Fix: Use a separate variable to store the exploded DataFrame.
- C. There is no error in the code snippet.
- D. The error is missing parentheses around the column name in the explode function. Fix: F.explode(df("items"))

Answer: B

NEW QUESTION # 318
In Apache Spark, which of the following is the most effective strategy for minimizing data shuffling across nodes in a cluster?

- A. Increasing the number of partitions
- B. Decreasing the number of partitions
- C. Using broadcast variables for small data
- D. Filtering data after a wide transformation

Answer: C

Explanation:
Broadcast variables allow the programmer to keep a read-only variable cached on each machine rather than shipping a copy of it with tasks, thus reducing the amount of data shuffled across the nodes. They are used to efficiently distribute large datasets that are used by all nodes in the cluster. This approach is particularly useful for lookup tables or machine learning models that need to be accessed by all tasks. Options A and B may impact performance but do not directly minimize shuffling. Filtering data after a wide transformation (Option D. could potentially increase the amount of data shuffled.

NEW QUESTION # 319
You need to design a DAG that can be easily scaled horizontally to handle increasing workload. How can you achieve this goal?

- A. Increase the number of worker processes in the Airflow web server configuration.
- B. Utilize external scheduling tools like Cron to manage DAG execution independently of Airflow workers.
- C. Leverage Airflow pools to manage resource allocation and limit concurrent task execution.
- D. Implement custom logic within each task to handle parallel processing independently.

Answer: A,C

NEW QUESTION # 320
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. Decreasing the frequency of data ingestion to reduce processing load
- C. Combining schema inference with schema evolution and user-defined schemas for complex datasets

- D. Ignoring schema inference and processing all data as plain text

Answer: C

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 # 321
Your Iceberg table experiences frequent schema evolution, with new columns being added regularly. Which of the following might you need to adjust to maintain optimal performance?

- A. The Iceberg table's write format (vl or v2)
- B. Iceberg metadata table pruning frequency
- C. Kubernetes resource requests for Spark executors
- D. Spark shuffle partitions (spark.sql.shuffle.partitions)

Answer: B

Explanation:
Frequent schema changes generate many metadata files. Iceberg's metadata tables may need more frequent pruning (expire_snapshots) to avoid performance issues during reads.

NEW QUESTION # 322
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