2025 CDP-3002: Reliable Study CDP Data Engineer - Certification Exam Dumps

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 (Q178-Q183):

NEW QUESTION # 178
Your Spark application involves complex data transformations requiring multiple shuffles. How can you leverage Spark's in-memory caching mechanisms to improve performance?
A Use rdd.persist(StorageLevel.MEMORY_ONLY) for all intermediate RDDs

- A. Implement custom caching logic using in-memory data structures
- B. Leverage Spark SQL caching with materialized views
- C. Tune Spark configuration parameters like spark.storage.memoryFraction

Answer: C

Explanation:
While custom caching B might be possible, Spark offers efficient solutions. Persisting intermediate RDDs in memory using StorageLevel.MEMORY_ONLY allows for faster access during subsequent shuffles. Additionally, materializing views in Spark SQL caches frequently used query results, improving performance for subsequent queries with the same data.

NEW QUESTION # 179
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 missing parentheses around the column name in the explode function. Fix: F.explode(df["items"])
- C. There is no error in the code snippet.
- D. The error is attempting to modify the original DataFrame in-place. Fix: Use a separate variable to store the exploded DataFrame.

Answer: D

NEW QUESTION # 180
What is the best practice for handling DAG dependencies in Apache Airflow when one DAG's output is another DAG's input?

- A. Manually trigger the dependent DAG after the first DAG completes.
- B. Use the ExternalTaskSensor to wait for a task in another DAG to complete.
- C. Use the TriggerDagRunOperator to trigger one DAG from another upon completion.
- D. Directly call one DAG from another using the PythonOperator.

Answer: B

Explanation:
The ExternalTaskSensor is designed to wait for a specific task in another DAG to complete before proceeding. This is a robust way to handle dependencies between DAGs, ensuring that the downstream DAG only starts its execution once the necessary output from the upstream DAG is ready, without tightly coupling the two DAGs' execution logic.

NEW QUESTION # 181
You're debugging a slow-running Spark job writing a large Iceberg table. Which optimization techniques could improve performance? (Choose three.

- A. Converting the DataFrame to RDD for Iceberg writes
- B. Filtering data as early as possible in the Spark transformation pipeline
- C. Repartitioning the DataFrame before writing to Iceberg
- D. Disabling Spark's adaptive query execution
- E. Using the Z-Order clustering option in Iceberg

Answer: B,C,E

Explanation:
A). Repartitioning can help distribute the write workload and improve parallelism. B. Z-Order clustering co-locates related data for faster filtering, improving query performance. C. Filtering early reduces the amount of data processed and written significantly. D. Adaptive query execution can sometimes make incorrect optimizations; disabling it may help in specific scenarios. E. RDDs offer less flexibility and are generally slower than DataFrames for Iceberg. CDP Iceberg

NEW QUESTION # 182
You are processing a large dataset using Spark and need to ensure that the results are available for subsequent stages without recomputing. Which approach achieves this efficiently?

- A. Implement custom logic to save the data to HDFS between stages
- B. Store the data in a temporary table using Spark SQL
- C. Leverage Spark's automatic checkpointing mechanism
- D. Use rdd.persist() with the appropriate storage level based on your needs

Answer: D

Explanation:
While other options might work, rdd.persist() is the recommended approach for Spark's distributed persistence. It allows you to specify the storage level (e.g., MEMORY_ONLY, MEMORY_AND_DISK) for intermediate RDDs, ensuring they are available for future stages without recomputing, improving efficiency and performance.

NEW QUESTION # 183
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