CDP-3002 Actual Real Questions & CDP-3002 Test Guide & CDP-3002 Exam Quiz

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 (Q291-Q296):

NEW QUESTION # 291
What technique can be employed to optimize join performance by reducing data shuffle across the network?

- A. Using broadcast joins for smaller datasets
- B. Increasing the number of partitions
- C. Decreasing the memory allocated to executors
- D. Partitioning both datasets on a different key

Answer: A

Explanation:
Broadcast joins can significantly improve join performance, especially when one side of the join is relatively small. By broadcasting the smaller dataset to all nodes, the need for shuffling large amounts of data across the network is eliminated, reducing the join operation's overall time and network I/O.

NEW QUESTION # 292
When monitoring a PySpark application in Kubernetes, you notice that Executor pods are frequently restarting. What is the most likely cause of this issue?

- A. Insufficient memory allocation for Executor pods.
- B. Executor pods are not configured to restart upon failure.
- C. Dynamic resource allocation is disabled.
- D. Too many tasks assigned to each Executor.

Answer: A

Explanation:
Frequent restarting of Executor pods in Kubernetes can be a sign of insufficient memory allocation. If Executors are allocated less memory than required for the tasks they are running, they may fail and restart frequently.

NEW QUESTION # 293
You're working with a large dataset stored in multiple Parquet files across different HDFS directories. How can you efficiently load and process this data using Spark, ensuring data locality and minimizing shuffle operations?

- A. Implement a custom function to read each Parquet file individually
- B. Use spark.read.parquet("/path/to/data/") with recursive directory listing
- C. Leverage Spark SQL catalogs and partition discovery
- D. Directly load all files using spark.read.parquet("/path/to/data/")

Answer: C

Explanation:
While options A and B might work, they don't optimize locality or shuffle. Option C is inefficient. By defining the data location and schema in a Spark SQL catalog, Spark can automatically discover partitions and efficiently read data in parallel, minimizing shuffle across the network.

NEW QUESTION # 294

Which Spark configuration parameter should be increased to improve performance when dealing with large broadcast variables?

- A. spark.driver.memory
- B. spark.default.parallelism
- C. spark.executor.memory
- D. spark.broadcast.blockSize

Answer: A

Explanation:

When using large broadcast variables, increasing the spark.driver.memory is beneficial because the driver needs sufficient memory to store the broadcast variables before they are sent to executors. Broadcast variables are sent from the driver to all executors, and having insufficient driver memory could lead to out-of-memory errors or performance bottlenecks. spark.executor.memory affects executor memory size, spark.broadcast.blockSize is not a valid Spark configuration parameter, and spark.default.parallelism affects the default number of partitions in RDDs, but not the handling of broadcast variables.

NEW QUESTION # 295

How can you prevent backfilling for a specific DAG in Apache Airflow?
A Set catchup=False in the DAG's arguments.

- A. Use schedule interval=None.
- B. Set max active runs=1.
- C. Define is backfill=False in the DAG definition.

Answer: B

Explanation:

Setting catchup=False in the DAG's default arguments prevents Airflow from backfilling any execution dates that have not been run for the period between the DAG's start date and the current date. This is useful for scenarios where backfilling is not necessary or desired.

NEW QUESTION # 296

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