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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 (Q147-Q152):

NEW QUESTION # 147
Your Spark application involves a complex data pipeline with multiple dependent stages. How can you configure Spark to handle failures gracefully and ensure data consistency across the pipeline?

- A. Leverage checkpointing and lineage tracking for selective failure recovery
- B. Retry failed stages indefinitely until successful completion
- C. Use Spark's built-in fault tolerance mechanisms with automatic retries
- D. Implement custom error handling logic within each stage

Answer: A

Explanation:
Option A can lead to cascading failures, while custom error handling B might be complex. Relying solely on automatic retries D might not be sufficient for complex pipelines. Checkpointing allows saving intermediate data periodically, enabling recovery from failures by reprocessing only affected stages, improving efficiency and data consistency.

NEW QUESTION # 148
Which of the following statements best describes the process of schema inference in the context of big data processing?

- A. Automatically determining the data structure of a dataset.
- B. Assigning random data types to columns in unstructured data.
- C. Encrypting data based on its type.
- D. Manually defining the schema for each dataset before processing.

Answer: A

Explanation:
Schema inference refers to the process of automatically identifying the structure (such as data types and column names) of a dataset, especially in semi-structured or unstructured data sources. This process enables data processing systems to understand the format of the data without requiring explicit schema definitions from the user.

NEW QUESTION # 149
An Iceberg job fails with an "out of memory" error. Which Spark configuration changes might help? (Choose two)

- A. Enable Spark broadcast joins
- B. Upgrade to a larger Kubernetes pod size.
- C. Decrease the size of Spark partitions (spark.sql.shuffle.partitions)
- D. Increase executor memory (spark.executor.memory)
- E. Increase driver memory (spark.driver.memory)

Answer: D,E

Explanation:
"Out of memory" often means the driver or executors lack sufficient RAM. C, D might help in specific cases, but the primary solution is more memory. E is valid but assumes your cluster has scaling capacity.

NEW QUESTION # 150
In Hive, what impact does setting the hive.exec.dynamic.partition.mode to nonstrict have on dynamic partitioning operations?

- A. It restricts the insertion of data to existing partitions only.
- B. It disables dynamic partitioning, requiring all partitions to be predefined.
- C. It allows the creation of new partitions dynamically based on the input data values.

- D. It enforces that at least one static partition be specified in the query.

Answer: C

Explanation:
Setting hive.exec.dynamic.partition.mode to nonstrict in Hive configuration allows for the creation of new partitions dynamically based on the input data values during data insertion operations. This mode removes the restriction that requires at least one static partition to be specified in the query, thereby providing greater flexibility in managing and organizing data into partitions based on the actual values encountered at runtime.

NEW QUESTION # 151

You are deploying a Spark application on Kubernetes, which requires access to a web I-Jl. You decide to expose it using a Kubernetes service. Which type of service would you typically use to expose the Spark IJI to external traffic?

- A. ClusteriP
- B. NodePort
- C. ExternalName
- D. LoadBalancer

Answer: B

Explanation:
The NodePort service type is suitable for exposing the Spark IJI to external traffic. It makes the service accessible on each node's IP at a static port (the NodePort). ClusterIP is default and only accessible within the cluster, LoadBalancer is for cloud providers, and ExternalName maps a service to a DNS name, not suitable for this purpose.

NEW QUESTION # 152

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