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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 (Q213-Q218):

NEW QUESTION # 213

In Apache Airflow, how does the "catchup" parameter in a DAG definition influence the scheduling of DAG runs when backfilling data?

- A. It enables backfilling, causing Airflow to schedule DAG runs for all intervals between the DAG's start_date and the current date.
- B. It disables backfilling entirely, ensuring that only future DAG runs are executed.
- C. It limits the number of backfilled DAG runs to the most recent execution interval only.
- D. It forces Airflow to ignore the start_date and schedule the DAG run immediately.

Answer: A

Explanation:

The "catchup" parameter, when set to True (which is the default), tells Airflow to backfill DAG runs for all the intervals between the DAG's start_date and the current date or end_date if specified. Setting "catchup" to False prevents Airflow from performing this backfilling, causing it to schedule DAG runs only for intervals after the DAG's start_date that have not yet occurred.

NEW QUESTION # 214

You're building an Airflow DAG to automate data quality checks on the output of your ETL pipeline. The checks involve performing various data validation tasks like checking for missing values, ensuring data type consistency, and verifying data integrity based on specific business rules. How can you implement these checks within Airflow?

- A. Leverage dedicated Airflow operators like BigQueryCheckOperator or S3KeySensor (these operators are specific to certain data sources and not generally applicable for all data quality checks).
- B. Utilize Python libraries like Pandas or Spark for data manipulation and validation within the PythonOperator.
- C. Use the PythonOperator to write custom Python scripts for each individual check and chain them together in the DAG.
- D. All of the above

Answer: D

NEW QUESTION # 215

In a distributed environment like Apache Spark, under what conditions might a sort merge join perform more efficiently than a broadcast join?

- A. When one of the datasets is significantly larger than the other, and broadcasting the smaller dataset would lead to excessive memory usage.
- B. Whenever there is sufficient network bandwidth to handle data shuffling.
- C. When both datasets are small enough to fit into the memory of a single node.
- D. When both datasets are large, roughly equal in size, and already partitioned on the join key.

Answer: D

Explanation:

A). sort merge join may outperform a broadcast join when both datasets are large, approximately equal in size, and already partitioned on the join key. This scenario minimizes the need for data shuffling and leverages parallel processing efficiently. While broadcast joins are excellent for joining a large dataset with a small one, their efficiency decreases as the size of the dataset being broadcasted grows, potentially leading to memory constraints.

NEW QUESTION # 216

You need to filter data from a Hive table based on a specific date range. Which approach would be most efficient and maintainable?

- A. Implement a custom filter function in Spark to process each row individually
- B. Leverage HiveQL's built-in filtering capabilities with a WHERE clause
- C. Convert the Hive table to a temporary table and then use Spark SQL filtering
- D. Use Spark SQL functions like filter with a date comparison expression

Answer: D

Explanation:

While other options might work, option A offers the most efficient and maintainable solution. Spark SQL functions like filter allow for concise and readable expressions for data filtering, leveraging Spark's distributed processing capabilities effectively.

NEW QUESTION # 217

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

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

Answer: D

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 # 218

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