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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 (Q172-Q177):

NEW QUESTION # 172

You have deployed a Spark application on Kubernetes, which is experiencing intermittent failures. To improve fault tolerance, you decide to implement checkpointing. Which of the following is the best approach to add checkpointing in a PySpark application?

- A.
- B.
- C. Implement checkpointing at the application level outside of Spark.
- D. Enable checkpointing in Kubernetes configuration files.

Answer: A

Explanation:

In PySpark, checkpointing is set up by using the 'setCheckpointDir' method on the SparkContext object, not in the Spark configuration or Kubernetes configuration. This method specifies the path where to store the checkpoint data, typically on a distributed storage like HDFS.

NEW QUESTION # 173

You're working with an ETL pipeline that extracts data from multiple sources. How can you ensure that the pipeline only processes the latest data and avoids re-processing already processed data?

- A. Configure the data sources to only provide new data by default.
- B. **Implement a custom mechanism to track the last processed record for each source and filter data accordingly.**
- C. **Use timestamps or versioning information provided by the data sources to identify new data.**
- D. Rely on Airflow's built-in mechanisms to handle data freshness automatically.

Answer: B,C

Explanation:

While option C might not always be feasible or reliable depending on the specific data source, both option A and B provide valid approaches. Utilizing timestamps, versioning, or custom tracking mechanisms allows the pipeline to identify and process only the latest data, avoiding unnecessary re-processing.

NEW QUESTION # 174

Consider the following code snippet:
Sample DataFrame (assuming it exists) df = spark.createDataFrame(...)
Attempt to add a new column with a case-when expression (fix the error) df = df.withColumn("category", F.when(df["price"] > 100, "Expensive").otherwise("Cheap")) df.show()
What is the error in this code, and how can it be fixed?

- A. There is no error in the code snippet.
- B. The error is missing parentheses around the conditions in the when function. Fix: F.when((df["price"] > 100), "Expensive").otherwise("Cheap")
- C. The error is using the wrong syntax for case-when expressions. Fix: Use SQL-like syntax with CASE WHEN and END.
- D. **The error is attempting to modify the original DataFrame in-place. Fix: Use df.withColumn to create a new DataFrame with the added column.**

Answer: D

Explanation:

The error lies in attempting to modify the original DataFrame in-place. The correct approach is to use withColumn to create a new DataFrame with the added column, as shown in the fixed code: df = df.withColumn("category", F.when(df["price"] > 100, "Expensive").otherwise("Cheap"))

NEW QUESTION # 175

Which of the following best describes the benefit of combining schema inference with manual schema specification in a data pipeline?

- A. It mandates that all data conform to a universal schema.
- B. It eliminates the need for data serialization and deserialization.
- C. It reduces the diversity of data formats that can be processed.
- D. It offers a balance between flexibility and control, optimizing for both data exploration and consistent processing.

Answer: D

Explanation:

Combining schema inference with the option for manual schema specification in a data pipeline offers the best of both worlds: the flexibility to automatically understand and adapt to diverse data structures and the control to enforce specific schemas where consistency and accuracy are critical. This approach allows for efficient data exploration and processing while also accommodating use cases that require strict adherence to a predefined schema, thereby optimizing the pipeline for a wide range of data types and processing needs.

NEW QUESTION # 176

You need to optimize the performance of a Spark query that involves joining data from multiple Hive tables. What strategies can you employ to improve efficiency?

- A. Increase the number of Spark executors without any further optimization
- B. Use broadcast joins for small tables involved in the join operation
- C. Pre-partition tables based on the join columns for faster data co-location
- D. All of the above

Answer: D

Explanation:

A combination of strategies can significantly improve join performance. Increasing executors A can help, but it's not the sole solution. Broadcasting small tables B minimizes data movement. Pre-partitioning C ensures relevant data is on the same nodes, reducing network overhead. Combining these techniques provides the most optimal approach.

NEW QUESTION # 177

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