

Exam CDP-3002 Objectives & Leader in Qualification Exams & New CDP-3002 Exam Experience

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 (Q64-Q69):

NEW QUESTION # 64

What does the appearance of "Filter Early" in an Explain Plan suggest about the execution strategy of a SQL query in Cloudera's SQL engines?

- A. It suggests that the query optimizer has chosen to apply filtering operations as early as possible to reduce data volume
- B. It signals that the query will bypass filtering operations to improve performance
- C. It indicates that filtering operations are postponed until the end of the query execution
- D. It means that all filtering operations are applied after join operations

Answer: A

Explanation:

The "Filter Early" strategy in an Explain Plan indicates that the query optimizer has chosen to apply filtering operations at the earliest possible stage in the query execution process. This approach is designed to reduce the volume of data being processed in subsequent stages, thereby improving overall query performance by minimizing I/O and CPU usage.

NEW QUESTION # 65

You need to handle potential errors and retries within your Airflow ETL pipeline. How can you achieve this functionality?

- A. Use the BranchPythonOperator to check for specific error conditions and branch the DAG execution accordingly.
- B. Implement exception handling within your custom Python operators and define retry behavior manually.
- C. Configure the DAG to retry failed tasks automatically with a set number of retries.
- D. All of the above

Answer: D

Explanation:

All options mentioned in D are valid approaches to handle errors and retries in Airflow. You can implement custom error handling, utilize conditional branching based on errors, and configure automatic retries for failed tasks to ensure robustness in your ETL pipeline.

NEW QUESTION # 66

You're deploying a Spark application in a Kubernetes cluster. Which YAML specification would correctly define a SparkApplication in cluster mode using Scala and the Spark Pi example?

- A. Option A
- B. Option D
- C. Option C
- D. Option B

Answer: C

Explanation:

The correct specification is the one that defines a SparkApplication resource with the necessary details like 'apiVersion', '*kind', 'type', 'mainClass', and 'mainApplicationFile'. This specification correctly sets up a Spark job to run the Spark Pi example in Scala on Kubernetes.

NEW QUESTION # 67

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

Answer: B

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 # 68

You're working with a Hive table containing sensitive data

a. How can you ensure data security while allowing authorized Spark applications to access the data?

A Store the data in plain text format and restrict access to the HDFS directory

- **A. Implement custom encryption/decryption logic within your Spark application**
- B. Leverage Cloudera Sentry for role-based access control and data masking
- C. Use separate clusters for Spark and Hive with stricter security controls

Answer: A

Explanation:

Option A is insecure. While custom encryption C offers some control, managing it can be complex. Using separate clusters D might not be scalable. Cloudera Sentry provides centralized access control and allows data masking, which restricts access to sensitive data at the column level without modifying the underlying data.

NEW QUESTION # 69

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