

CDP-3002 Exam Study Guide - Reliable CDP-3002 Dumps Pdf

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 (Q65-Q70):

NEW QUESTION # 65

In a PySpark application, you're writing a function that reads a CSV file and shows the first few rows. Which of the following code snippets correctly accomplishes this task?

A.

from pyspark.sql import SparkSession
spark = SparkSession.builder.appName("ShowData").getOrCreate()
df = spark.read.csv("data.csv")
df.take(5)

B.

from pyspark.sql import SparkSession
spark = SparkSession.builder.appName("ShowData").getOrCreate()
df = spark.read.format("csv").load("data.csv")
df.show(5)

C.

from pyspark import SparkContext
sc = SparkContext(appName="ShowData")
df = sc.textFile("data.csv").map(lambda line: line.split(","))
df.head(5)

D.

import pandas as pd
df = pd.read_csv("data.csv")
print(df.head(5))

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

Answer: A

Explanation:

The correct way to read a CSV file in a PySpark application is using the 'SparkSession.read.csv' method or 'SparkSession.read.format("csv").load'. After loading the data into a DataFrame, 'df.show(5)' is used to display the first five rows. Options A and C do not use the correct method to display the data, and option D uses Pandas, not PySpark.

NEW QUESTION # 66

Which of the following is true about the Airflow Webserver?

A It schedules and executes tasks.

- A. It provides a user interface for DAG configuration and monitoring.
- B. It is used exclusively for monitoring pipeline logs.
- C. It stores metadata about DAGs and their execution status.

Answer: C

Explanation:

The Airflow Webserver provides a web-based user interface for managing and monitoring DAGs, including their configuration, execution, and logs. It does not schedule or execute tasks (the role of the Scheduler and Executor), nor does it store metadata (the role of the Metadata Database).

NEW QUESTION # 67

What is a potential downside of overly granular partitioning in Hive tables?

- A. Simplified data management
- B. Automatic data deduplication
- C. Reduced query performance due to metadata overhead
- D. Increased data security

Answer: C

Explanation:

Overly granular partitioning in Hive tables can lead to a large number of partitions, which increases the metadata that Hive needs to manage. This can negatively impact query performance because Hive must load and process this extensive metadata before executing queries, potentially leading to slower response times.

NEW QUESTION # 68

In the context of Cloudera's Optimization Framework, what role does data statistics collection play?

- A. It provides metadata for security enforcement
- B. It is used to generate more data
- C. It reduces the need for data compression
- D. It helps the optimizer make informed decisions about data layout and query execution plans

Answer: D

Explanation:

Collecting data statistics (like row counts, data distribution, and column cardinality) is crucial for the optimizer. It uses these statistics to make informed decisions about the most efficient way to execute queries, including data layout and choosing the best execution plan.

NEW QUESTION # 69

You're tasked with monitoring the performance and resource utilization of your Spark jobs. What tools and techniques can you employ for effective monitoring and troubleshooting?

- A. Manually analyze Spark logs after job completion
- B. Leverage YARN resource manager and Spark metrics for detailed monitoring
- C. Use Spark's web UI for basic job status information
- D. Implement custom instrumentation code within your Spark application

Answer: B

Explanation:

While logs and the web UI provide some insights, option C offers comprehensive monitoring. YARN provides resource allocation and utilization details, while Spark metrics capture various performance aspects like shuffle bytes, task completion times, and GC (garbage collection) activity.

These combined sources allow for detailed analysis and troubleshooting.

NEW QUESTION # 70

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