

# CDP-3002 Interactive Practice Exam : Free PDF Quiz

## 2026 Realistic Cloudera CDP Data Engineer - Certification Exam Interactive Practice Exam

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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 (Q110-Q115):

### NEW QUESTION # 110

You have a DataFrame containing sales data with columns "product\_id", "customer id", and "amount". How can you efficiently calculate the total sales per customer?

- A. Leverage Spark's machine learning library (MLlib) for aggregation
- B. Use a loop to iterate through the DataFrame and accumulate the sales for each customer
- C. Utilize spark SQL's GROUP BY and SUM functions
- D. Implement a custom function to group and sum the sales

**Answer: C**

Explanation:

Option B provides the most efficient and concise way to achieve this.

### NEW QUESTION # 111

You want to debug an issue within your Spark application that interacts with Hive tables. What tools and techniques can you employ for effective debugging?

- A. Use Spark's Lineage Viewer to visualize data flow and identify potential errors
- B. Print debug statements throughout the code to inspect intermediate data
- C. Leverage Spark's web UI and Hive logs for general error messages
- D. Implement unit tests for individual Spark operations within your application

**Answer: A,D**

Explanation:

While printing statements A might provide some insights, relying solely on logs B limits visibility. Spark's Lineage Viewer C offers a visual representation of data flow, helping pinpoint where issues might occur. Additionally, unit testing individual Spark operations D can isolate and identify problems within specific code sections.

### NEW QUESTION # 112

When leveraging Spark's DataFrame API for caching, what implicit optimization does Spark perform to enhance processing efficiency?

- A. Automatic conversion of all operations to map-reduce jobs
- B. Automatic selection of the optimal storage level based on the DataFrame's size
- C. Predicate pushdown and other logical optimizations before physical execution
- D. Inlining of functions to reduce the overhead of JVM method calls

**Answer: C**

Explanation:

When leveraging Spark's DataFrame API, Spark performs several implicit optimizations, including predicate pushdown, where it moves filter operations closer to the data source, thereby reducing the amount of data shuffled or moved across the network. This optimization, part of the Catalyst optimizer's logical optimization phase, enhances processing efficiency by minimizing the data processed in subsequent stages of the query.

### NEW QUESTION # 113

You are processing a large dataset using Spark and need to ensure that the results are available for subsequent stages without

recomputing. Which approach achieves this efficiently?

- A. Implement custom logic to save the data to HDFS between stages
- B. Store the data in a temporary table using Spark SQL
- C. Leverage Spark's automatic checkpointing mechanism
- **D. Use `rdd.persist()` with the appropriate storage level based on your needs**

**Answer: D**

Explanation:

While other options might work, `rdd.persist()` is the recommended approach for Spark's distributed persistence. It allows you to specify the storage level (e.g., `MEMORY_ONLY`, `MEMORY_AND_DISK`) for intermediate RDDs, ensuring they are available for future stages without recomputing, improving efficiency and performance.

#### NEW QUESTION # 114

You notice degraded read performance on an Iceberg table after many updates and deletes. What maintenance task should you perform to improve this?

- A. Compact data files
- B. Delete old snapshots
- **C. Rewrite manifest files**
- D. Rebuild the Iceberg metadata table

**Answer: C**

Explanation:

Iceberg's "rewrite manifests" procedure consolidates metadata, eliminates stale entries, and can significantly improve read performance for heavily modified tables.

#### NEW QUESTION # 115

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