

CDP-3002 Practice Test: CDP Data Engineer - Certification Exam & CDP-3002 Exam Braindumps

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 (Q90-Q95):

NEW QUESTION # 90

For a dataset that is used multiple times in different transformations but is not large enough to warrant disk storage, which caching level in Apache Spark is most appropriate?

- A. DISK ONLY
- B. MEMORY ONLY SER
- C. MEMORY ONLY
- D. MEMORY AND DISK SER

Answer: C

Explanation:

For datasets that are used multiple times across transformations and are not large enough to require disk storage, MEMORY_ONLY is the most appropriate caching level. This level stores the dataset in memory without serialization, offering fast access for subsequent transformations, making it ideal for small to moderately sized datasets that fit entirely in memory.

NEW QUESTION # 91

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 # 92

Which Airflow component is responsible for executing task instances in a distributed manner?

- A. Worker
- B. Scheduler
- C. Executor
- D. Webserver

Answer: C

Explanation:

The Executor in Apache Airflow is responsible for executing the tasks of a DAG. While the Scheduler decides when to run tasks based on their dependencies and schedule, the Executor actually runs the task code, potentially in a distributed manner across multiple workers.

NEW QUESTION # 93

You've discovered that a production Iceberg table has several corrupted data files. Which of the following actions could help address this issue?

- A. Apply Iceberg's REMOVE ORPHAN FILES procedure.

- B. Restore the table to a previous snapshot using Iceberg's time travel feature.
- C. Run the VACUUM procedure on the Iceberg table.
- D. Drop and recreate the Iceberg table from scratch.

Answer: A

Explanation:

B). Partitioning by both sensor ID and timestamp allows for efficient filtering and pruning when querying specific sensors and time ranges, which is typical for time-series data.

NEW QUESTION # 94

You need to design your Airflow DAG for data quality checks to be scalable and manageable as the number of datasets and checks grows. How can you achieve this?

- A. Leverage external configuration files (e.g., YAML or JSON) to define data quality checks and associated parameters.
- B. Implement a modular design using sub-DAGs, where each sub-DAG encapsulates the data quality checks for a specific dataset.
- C. Hardcode all data quality checks and data sources directly within the DAG code.
- D. Utilize Airflow variables to store configuration details like data source paths and check thresholds.

Answer: A,B

Explanation:

While option C might be relevant for handling transient errors, option B and D combined offer a robust approach. 'BranchPythonOperator': Allows you to evaluate the outcome of the data quality checks (success or failure) within the 'PythonOperator'. Conditional Branching: Based on the check results, the DAG can either proceed with downstream tasks (success) or trigger error handling routines if the checks fail. Automatic Retries (optional): Configuring retries for the data quality checks can be added as a safeguard in case of temporary issues (option D).

NEW QUESTION # 95

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