

新版CDP-3002題庫上線 - CDP-3002考試資料

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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問題 #198

In Apache Airflow, how can you dynamically generate tasks for each table in your database that needs a quality check?

- A. Utilize the Dynamic Task Mapping feature to create a task for each table.
- B. Implement a BranchPythonOperator to create branches for each table dynamically.
- C. Use the SubDagOperator to create a sub-DAG for each table.
- D. Use the Variable feature to store a list of tables and iterate over them with a PythonOperator.

答案： A

解題說明：

Dynamic Task Mapping is a feature in Apache Airflow 2.0 and later that allows you to dynamically generate tasks at runtime. This can be used to create a separate quality check task for each table in your database by iterating over a list of tables and generating a task for each one, ensuring all necessary quality checks are automated and scalable.

問題 #199

You need to update several rows in a large Iceberg table. Which of the following approaches would likely be the most efficient?

- A. Employ Iceberg's time travel feature to revert to an older snapshot and reapply changes.
- B. Read the entire table, make changes in Spark, and overwrite the table.
- C. Use the Iceberg DELETE and INSERT operations together.
- D. Use the Iceberg MERGE INTO syntax for row-level updates.

答案： C

解題說明：

Iceberg supports record-level DELETE and INSERT operations for targeted updates. Options A and C are very inefficient for large tables. MERGE INTO is available, but less efficient than direct deletes and inserts.

問題 #200

An Iceberg job fails with an "out of memory" error. Which Spark configuration changes might help? (Choose two)

- A. Upgrade to a larger Kubernetes pod size.
- B. Enable Spark broadcast joins
- C. Increase executor memory (spark.executor.memory)
- D. Increase driver memory (spark.driver.memory)
- E. Decrease the size of Spark partitions (spark.sql.shuffle.partitions)

答案： C,D

解題說明：

"Out of memory" often means the driver or executors lack sufficient RAM. C, D might help in specific cases, but the primary solution is more memory. E is valid but assumes your cluster has scaling capacity.

問題 #201

You need to design a DAG that can be easily monitored and visualized for performance insights. How can you achieve this?

- A. All of the above
- B. Implement custom logic within each task to send detailed performance metrics to external monitoring tools.
- C. Utilize Airflow's built-in metrics and monitoring features like the Airflow web UI to track DAG execution and task performance.
- D. Implement alerts and notifications within the DAG to trigger upon specific events or performance thresholds.

答案： A,C

問題 #202

An Airflow DAG designed to run a sequence of data validation checks generates a dynamic number of validation tasks based on the incoming data's characteristics. Each validation task must complete successfully before a final data processing task can begin. Which Airflow feature is most suitable for implementing this pattern?

- A. A BranchPythonOperator with a follow-up Join task
- B. SubDAGs
- C. The TriggerDagRunOperator
- **D. The Dynamic Task Mapping feature**

答案：D

解題說明：

The Dynamic Task Mapping feature in Airflow allows for the creation of tasks dynamically at runtime based on specific conditions or inputs, such as the characteristics of incoming data. This feature can be used to generate a variable number of validation tasks each time the DAG runs.

Ensuring each dynamically generated task must complete successfully before proceeding can be managed by setting dependencies appropriately. SubDAGs are another way to organize dynamic or conditional workflows but might be overkill for straightforward task generation. The TriggerDagRunOperator is used to trigger other DAGs and does not directly relate to dynamic task creation within a single DAG. The BranchPythonOperator is for conditional paths in DAGs, not for creating dynamic numbers of tasks based on data characteristics.

問題 #203

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