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Enterprise Big Data Engineer (EBDE)

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Question: 1

Why are NoSQL databases considered highly scalable?

Response:

- A. They rely on fixed schemas.
- B. They support distributed architectures.
- C. They eliminate the need for data replication.
- D. They limit data storage to single nodes.

Answer: B

Question: 2

Which architecture prioritizes scalability and accessibility across hybrid environments?

Response:

- A. Data Mesh
- B. Data Fabric
- C. Data Lake
- D. Relational Data Warehouse

Answer: B

Question: 3

What distinguishes a snowflake schema from a star schema in data warehousing?

Response:

- A. Snowflake schemas have normalized dimensions, while star schemas use denormalized dimensions.
- B. Snowflake schemas are more storage-intensive than star schemas.
- C. Star schemas support unstructured data, while snowflake schemas do not.
- D. Snowflake schemas eliminate the need for fact tables.

Answer: A

Question: 4

What is a critical strategy for fostering a culture of data privacy and security within an organization?
Response:

- A. Reducing employee access to all systems
- B. Providing regular training and clear policies on data privacy practices
- C. Automating all data governance tasks
- D. Eliminating redundant compliance processes

Answer: B

Question: 5

How does partitioning improve data pipeline efficiency?
Response:

- A. By reducing data duplication
- B. By dividing data into smaller, more manageable chunks
- C. By eliminating the need for transformation
- D. By automating ingestion processes

Answer: B

Question: 6

What stage of the data lifecycle involves integrating and transforming raw data into usable formats?
Response:

- A. Data collection
- B. Data ingestion
- C. Data transformation
- D. Data visualization

Answer: C

Question: 7

Which component of a feature store is responsible for serving features to machine learning models?
Response:

- A. Transformation
- B. Storage

- C. Serving
- D. Monitoring

Answer:

Question: 8

In a Data Fabric architecture, what is the main responsibility of the data integration layer?
Response:

- A. Managing machine learning workflows
- B. Consolidating and transforming data from multiple sources
- C. Storing raw, unprocessed data
- D. Ensuring schema enforcement

Answer: B

Question: 9

Which type of consistency is suitable for applications requiring real-time updates?
Response:

- A. Eventual consistency
- B. Strong consistency
- C. Weak consistency
- D. Latent consistency

Answer: B

Question: 10

How does indexing improve database performance?
Response:

- A. By duplicating data across tables
- B. By speeding up query retrieval times
- C. By reducing table size
- D. By automating schema design

Answer: B

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