Question Bank for Module: ddd

question	level
Define the term "NoSQL" and explain its significance in Big Data.	Knowledge
Identify the key features of a distributed computing architecture.	Knowledge
List the different types of NoSQL data store architectural patterns.	Knowledge
State the ACID properties of SQL transactions.	Knowledge
Find the definition of "sharding" in the provided content.	Knowledge
Repeat the definition of "CAP theorem" as presented in the text.	Knowledge
Memorize the characteristics of a schema-less database.	Knowledge
Quote the definition of "BASE properties" from the text.	Knowledge
Identify the advantages of a key-value store.	Knowledge
List the typical uses of a document store.	Knowledge
Summarize the advantages of using a distributed computing system for Big Data.	Comprehension
Compare and contrast the ACID properties with the BASE properties.	Comprehension
Describe the concept of sharding and its role in Big Data scalability.	Comprehension
Explain the implications of the CAP theorem for distributed databases.	Comprehension
Recognize the limitations of a key-value store architectural pattern.	Comprehension
Discuss the advantages and disadvantages of using a document store.	Comprehension

Explain the concept of columnar data storage and its benefits for analytics.	Comprehension
Describe the features of a BigTable data store.	Comprehension
Determine the best NoSQL data store for a specific Big Data application based on its requirements.	Application
Present a solution for handling Big Data problems using a combination of NoSQL data stores and distributed computing techniques.	Application
Organize the different types of NoSQL data stores based on their strengths and weaknesses.	Analysis
Compare and contrast the different distribution models used in Big Data systems.	Analysis
Question the limitations of the CAP theorem and its implications for Big Data solutions.	Analysis
Connect the concept of sharding to the principles of horizontal scalability.	Analysis
Analyze the impact of schema-less data models on Big Data applications.	Analysis
Deduce the best NoSQL data store for a specific Big Data application based on its data characteristics and requirements.	Analysis
Examine the use of sharding in a real-world Big Data scenario.	Application
Implement a simple key-value store using a programming language of your choice.	Application
Use a document store to store and retrieve data for a specific application.	Application
Solve a Big Data problem using a columnar data store.	Application
Demonstrate how to use a BigTable data store to manage large datasets.	Application
Link the concept of columnar data storage to the principles of efficient data retrieval.	Analysis

Contrast the features of BigTable with other column-family data stores.	Analysis
Experiment with different NoSQL data stores to determine their performance characteristics.	Analysis
Test the effectiveness of different Big Data solutions for a specific problem.	Analysis