Enterprise Z is building a content management system and considering MongoDB as a database option. Discuss the use of indexes in MongoDB and how they can be optimized for efficient content retrieval. Provide examples of scenarios where indexing is crucial for query performance.

Sol:

Scenarios Where Indexing is Crucial   
  
\*can be used to speed up sorting and pagination queries  
\*retrieve content based on its unique identifier, such as user ID  
\*helps speed up queries that filter content based on metadata suchas publication date  
\*mongoDB can use an index to run a query, without needing to access the actual documents  
  
Optimizing Indexes  
  
\*creating compound Indexes

Use Case 4:

Scenario of "ShopSmart," MongoDB is used to handle high write loads and provide real-time analytics. Explain the concept of data consistency in distributed databases and how MongoDB ensures data consistency in a clustered environment.