37 Lecture - CS403

Important Mcqs

1. **What is an index in a database?**
   a) A list of all data in the database
   b) A data structure used to improve data retrieval
   c) A backup of the entire database
   d) A list of all queries run on the database
   Answer: b) A data structure used to improve data retrieval

   Which of the following is a common type of database index?
   a) Binary search tree
   b) Linked list
   c) Queue
   d) Stack
   Answer: a) Binary search tree

   What is the purpose of an index in a search engine?
   a) To improve the relevance of search results
   b) To speed up the retrieval of search results
   c) To store all search queries
   d) To store all web pages on the internet
   Answer: b) To speed up the retrieval of search results

   In a database, what is a primary key index?
   a) An index that contains all data in the database
   b) An index that includes only unique values of a particular column
   c) An index that contains a copy of the entire database
   d) An index that is used to store backup data
   Answer: b) An index that includes only unique values of a particular column

   Which of the following is a disadvantage of using indexes in a database?
   a) Improved data retrieval performance
   b) Increased storage requirements
   c) Increased security risks
   d) Reduced data consistency
   Answer: b) Increased storage requirements

   What is an inverted index used for?
   a) Indexing databases
   b) Indexing search engines
   c) Indexing file systems
   d) Indexing social media platforms
   Answer: b) Indexing search engines

   What is a clustered index in a database?
   a) An index that stores data in a specific order based on a particular column

b) An index that stores all data in the database
c) An index that includes only unique values of a particular column
d) An index that is used to store backup data
Answer: a) An index that stores data in a specific order based on a particular column

What is a non-clustered index in a database?
a) An index that stores data in a specific order based on a particular column
b) An index that stores all data in the database
c) An index that includes only unique values of a particular column
d) An index that is used to store backup data
Answer: c) An index that includes only unique values of a particular column

Which of the following is a common type of file system index?
a) Binary search tree
b) Linked list
c) Queue
d) Stack
Answer: b) Linked list

What is a hash index used for?
a) Indexing databases
b) Indexing search engines
c) Indexing file systems
d) Indexing social media platforms
Answer: a) Indexing databases