

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