

0.7

國立中央大學94學年度碩士班考試入學試題卷 共 / 頁 第 / 頁  
所別：網路學習科技研究所碩士班 科目：資料庫系統

1. Discuss the advantages and disadvantages of using
  - (a) an unordered file,
  - (b) an ordered file, and
  - (c) a static hash file with buckets and chaining.Which operations can be performed efficiently on each of these organizations, and which operations are expensive? (20%)
2. What are the differences among primary, secondary, and clustering indexes? How do these differences affect the ways in which these indexes are implemented? Which of the indexes are dense, and which are not? (20%)
3. What are the six phases of database design? Discuss each phase. (20%)
4. What is the difference between centralized and client-server architectures in general? Draw diagrams to illustrate the different architectures. (20%)
5. Discuss what is meant by each of the following terms: (20%)
  - Database authorization
  - Access control
  - Data encryption
  - Privileged (system) account
  - Audit trail