> 2127405048 方浩楠

1.1

> This chapter has described several major advantages of a database system. What are two disadvantages?

As a result, a database system is a large, complex software system whose task is to manage a large, complex collection of data.
Managing complexity is challenging, not only in the management of data but in any domain. Key to the management of complexity is the concept of abstraction

The knowledge, money, skills, and time to setup a Database

1.9

> List five responsibilities of a database-management system. For each responsibility, explain the problems that would arise if the responsibility were not discharged.

- A DBMS needs to prevent concurrent-access anomaly. Otherwise the data may be accessed by many different application programs that have not been coordination previously.
- The DBMS needs to ensure safety.DBMS have the concept of a ROLE (user) it easier for setting access managmenent.
- The DBMS needs to solve the atomicity problem to prevent the inconsistent database state.
- The DMBS needs to offer a easy to access data.Otherwise the DMBS do not allow needed data to be retried in a conventient and efficient manner.
- The DMBS needs to prevent the data redundancy and inconsistency.Or it will leads to higher storage and access cost.