Question Set 1

CS 417

Chapter 1

1. Briefly define each of the following terms used in database systems.
   (a) Metadata
   (b) Concurrent use
   (c) Query
   (d) Data redundancy
   (e) Data consistency
   (f) Integrity constraint
   (g) Recovery log
   (h) Semantic model
   (i) SQL

Chapter 2

1. Define each of the following terms
   (a) Entity
   (b) Attribute
2. Distinguish between data and information.
3. Identify the four levels of abstraction in discussing data. For each, give an example of an item that appears on that level.
4. Distinguish between an entity set and an entity instance.
5. Distinguish between a record type and a record occurrence.
6. Describe the three-level architecture for databases.
7. Describe the two parts of data sublanguages.
8. Give five reasons why it is desirable to separate the physical representation from the external structure of a database.