1. A(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ system is a collection of tools, features, and interfaces that enable users to add, update, manage, access, and analyze data.

Answer:

database management. See page 350.

1. Database operations, including storing, retrieving, updating, and deleting data, are controlled by a(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ language.

Answer:

data manipulation. See page 353.

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ data must be protected by security at three levels: the database itself, the Web server, and the telecommunication links that connect system components.

Answer:

Web-based. See page 356.

1. A(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ diagram depicts the logical relationships and interaction among system entities, provides an overview of the system, and acts as a blueprint for creating the physical data structures.

Answer:

entity-relationship. See page 360.

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ notation, a common method of cardinality notation, uses shapes to indicate various possibilities.

Answer:

Crow’s foot. See page 362.

1. Edgar Codd, a British computer scientist, developed the basic principles of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ database design.

Answer:

relational. See page 365.

1. A table design is in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ form if it is in 1NF and if all fields that are not part of the primary key are functionally dependent on the entire primary key.

Answer:

second normal. See page 368.

1. A postal code is an example of a(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ code that distinguishes items by using a series of subgroups of digits.

Answer:

significant digit. See page 382.

1. Many companies use a data \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, which is designed to serve the needs of a specific department, rather than a data warehouse that spans an entire enterprise.

Answer:

mart. See page 385.

1. A(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ format is more efficient than a character-based format because it represents numbers as actual binary values, rather than as coded numeric digits.

Answer:

binary storage. See page 388.