1. List three examples of non-electronic databases.

2. List three situations in which databases are used.

3. Give an example of an business or organization that does not (or would not) need a database to manage information.

4. List four companies that use MySQL.

5. Describe information that might be stored on a social-netorking system such as Facebook.

6. Search the U.S. Bureau of Labor Statistics website for the following information.

   (a). Median salary of a Database Administrator.
   (b). Ten year job outlook.
   (c). Typical entry-Level education.
   (d). Number of jobs.

7. Perform a job search on Indeed (or CareerBuilder, etc.) using the criteria below.

   (a). How many jobs are listed in the United States that contain the keyword *SQL*?
   (b). What are a few job titles associated with your search?
   (c). What is an approximate salary range for DBA in Boston?
   (d). What are the degree requirements for SQL developer?
   (e). What are some key skills and responsibilities?

8. List four database management systems and their vendors.

9. What is the parent company of MySQL?

10. What is the name of the community-developed fork of the MySQL?

11. Discuss each of the 5V's of data. Provide examples and attempt to unify your examples.

12. Discuss the terms:

   (a). data
   (b). database
   (c). database management system
   (d). security

(e). integrity

13. List four features of database management systems. For each, explain the problems that would arise if the feature were not present.

14. List three roles associated with databases.

15. What are five main functions of a database administrator?

16. Explain the difference between two-tier and three-tier architectures. Which is more likely to be associated with Web applications?

17. What is meant by open-source software?

18. List three database vendors.