# Answer the following questions

Chapter 6

﻿1. Define a document with respect to document databases.

2. Name two types of formats for storing data in a document database.

3. List at least three syntax rules for JSON objects.

4. Create a sample document for a small appliance with the following attributes:

appliance ID, name, description, height, width, length, and shipping weight. Use the

JSON format.

5. Why are highly abstract entities often avoided when modeling document collections?

6. When is it reasonable to use highly abstract entities?

7. Using the db.books collection described in this chapter, write a command to insert a

book to the collection. Use MongoDB syntax.

8. Using the db.books collection described in this chapter, write a command to remove

books by Isaac Asimov. Use MongoDB syntax.

9. Using the db.books collection described in this chapter, write a command to retrieve

all books with quantity greater than or equal to 20. Use MongoDB syntax.

10. Which query operator is used to search for values in a single key?

Chapter 7

1. ﻿Describe how documents are analogous to rows in relational databases.

2. Describe how collections are analogous to tables in relational databases.

3. Define a schema.

4. Why are document databases considered schemaless?

5. Why are document databases considered polymorphic?

6. How does vertical partitioning differ from horizontal partitioning, or sharding?

7. What is a shard key?

8. What is the purpose of the partitioning algorithm in sharding?

9. What is normalization?

10. Why would you want to denormalize collections in a document database?