**U 1 DB 2**

**Primary Task Response:** Within the Discussion Board area, write 400–600 words that respond to the following questions with your thoughts, ideas, and comments. This will be the foundation for future discussions by your classmates. Be substantive and clear, and use examples to reinforce your ideas:

Upon conclusion of this course, you will have developed a Java Web application that will allow a user to create, read, update, and delete records in product and customer tables of the store database for an online store. Your application will run in a Web page and connect to a MySQL database backend.

As you progress through each phase in the course, the tasks you complete will provide you with code that will help you build your Web application. This first task will develop your ability to design a client/server application. The combination of these deliverables will culminate in your final key assignment.

Design a client/server application in which a client communicates directly with a server. The server will store product and customer information in two separate files. The client application will allow a user to request product and customer information from the server. The server will retrieve and send the requested information to the client. The information will be displayed by the client in a user-friendly manner. It is suggested that your application use Swing components to support a user-friendly interface.

The format of your product and customer files will be provided by your instructor.

* Explain your design to your classmates using pseudocode, class diagrams, and sequence diagrams.
* Explain each step on both the server and client side that establish the networking between the two.
* Your design should also clearly explain how the client and server interact to provide the user with the requested product and customer information.

**U 2 DB**

**Primary Task Response:** Within the Discussion Board area, write 400–600 words that respond to the following questions with your thoughts, ideas, and comments. This will be the foundation for future discussions by your classmates. Be substantive and clear, and use examples to reinforce your ideas:

* Explain how you would modify your server to make it multithreaded, allowing more than one client to connect and request product and customer data.
* Be sure you specifically identify which Java API classes you intend to use.

**U 3 DB**

**Primary Task Response:** Within the Discussion Board area, write 400–600 words that respond to the following questions with your thoughts, ideas, and comments. This will be the foundation for future discussions by your classmates. Be substantive and clear, and use examples to reinforce your ideas:

**Note:** The instructor will provide schema for product and customer tables.

Using the instructions provided by your instructor, install MySQL, and connect from NetBeans. Create a user account that will be used by your upcoming application:

CREATE USER 'ctuonline'@'localhost' IDENTIFIED BY ‘student';

Using the schema for the product and customer table provided by your instructor, create the store database with tables product and customer. Take screenshots to demonstrate that you were able to connect to the database from NetBeans and that your product and customer tables are populated with data.

* Describe your experiences with getting your environment set up.
* Discuss any challenges that you encountered, and explain the strategies used to get these resolved.

**U 5 DB**

**Summative Discussion Board**

Review and reflect on the knowledge you have gained from this course. Based on your review and reflection, write at least 3 paragraphs on the following:

* What were the most compelling topics learned in this course?
* How did participating in discussions help your understanding of the subject matter?  Is anything still unclear that could be clarified?
* What approaches could have yielded additional valuable information?