**Homework 1**

*World Trades* is a wholesale company. It sells a variety of products to its retail business customers (like retailers such as Target, Wal-Mart, etc.). *World Trades* has asked you to design a small database with the following business rules and requirements:

*When a World Trades customer purchases product/s, an invoice is prepared for the customer. A single invoice can list one or more products that the customer has purchased, including product information such as selling price per unit and quantity sold. Depending on how many times they order products, a customer may receive one or more invoices. However, each invoice is associated with a single customer.*

First, identify necessary entities, attributes, and relationships; then put these together in an ER diagram. Besides the primary and foreign key columns, please be sure that the following attributes are also included in your ER diagram:

Product name; customer name; customer phone number; customer credit limit; date of invoice; information about products being invoiced including product code, quantity sold (i.e., how many units of the product the customer bought), and price per unit .

Prepare an entity-relationship (ER) diagram using MySQL Workbench for the business case described above. Your ER diagram should include entities, their attributes, and relationships between entities. Every entity in the diagram should have primary key. In addition to other columns as described in the business requirements listed above, entities should have foreign key columns where necessary.

Include a text box in the diagram in which you should write your full name, and BUS 112 Section (1 or 2). Save completed diagram on your computer (from the menu, select **File > Save Model As...**) and name the file as your last name. Upload the *your-last-name.mwb* file to Canvas.