## Lab-1 ER Diagram Exercise – ONLINE\_RETAILER Database

Your group should confer to complete the following lab parts initially on the whiteboard.

**Part A:**

You are designing an ONLINE\_RETAILER database for a small company in which customers place orders for parts at an online company web site. The data requirements are summarized as follows:

* The online retail company has employees, each identified by a unique employee number, first and last name, and Zip Code.
* Each customer of the company is identified by a unique customer number, first and last name, address, telephone and email address.
* Each part sold by the company is identified by a unique part number, a part name, price, description, and quantity in stock.
* Each order placed by a customer is processed and fulfilled by an employee and is given a unique order number. Each order contains specified quantities of one or more parts. Each order has a date of receipt, an expected ship date, and the actual ship date is also recorded.

Draw the basic ER model for the ONLINE\_RETAILER database using Chen notation. Include only entities and attributes. Get instructor approval before proceeding to Part B.

**Part B:**

Add the following to your Part A ER model for the ONLINE\_RETAILER database: cardinality, and (min, max) notation.

**Submission:**

One group member should reproduce the group’s complete ER model in a digital form (using any drawing tool you wish) and embed the image in a Word document. List all group member names at the top of the diagram. Submit the Word document into the Canvas lab submission link.

