

# Assignment 2 - COP3703

## “One-Punch Anime Shop”

### One-Punch Anime Shop (20 pts)

Prepare an ER diagram for the database described below (using crows foot notation). Be sure to identify all required entities, attributes, and relationships (including cardinalities). State any assumptions you make, and indicate a primary key for each entity.

Mel Smith, the manager of the One-Punch Anime Shop wants you to design a database system that will enable a number of tasks. One problem that Mel has is keeping track of inventory. Several times a week the store receives shipments from various vendors. Mel would like a system that can record these shipments. Most of the shipment information originates with an order to the vendor. Mel currently records order information on an order form, which is shown below, along with the form currently used to record inventory. When shipments arrive, Mel wants the system to indicate that the order has been received. More importantly, Mel needs the system to update the store inventory. The system should also record basic information about each vendor, including their name, address, phone number, and a main contact name.

Keeping track of inventory is a major headache for him under the current manual system. He's hoping that the new database can help. In order to track inventory, the system must also record sales to customers. The current sales form is provided below. When a sale is made, the system must adjust the inventory to reflect the books included in the sale.

#### ORDER FORM

<b>Order No.:</b>	12548	<b>Date:</b>	1/15/15	
<b>Vendor ID:</b>	87459			
<b>Name:</b>	Japan Arts			
<b>Address</b>	100 Newark Ave.			
	Newark, CA 94538			

Item-ID	Title	Quantity	Cost	Extended
125807652	Anime Key Chains - various	100	3.00	300.00
189765409	Anime Posters – various	50	8.00	400.00
143768431	Anime Plush Dolls	20	10.25	205.00
	<b>TOTAL COST</b>			<b>905.00</b>

#### INVENTORY RECORD

ISBN	Title	Quantity On hand	Quantity On order
125807652	Anime Key Chains - various	47	100
189765409	Anime Posters – various	33	50
143768431	Anime Plush Dolls	15	20

#### SALES FORM

<b>Invoice No:</b>	55897			
<b>Customer No.:</b>	2589	<b>Date:</b>	12/22/15	
<b>Name:</b>	Jose Thomas			
<b>Address:</b>	8057 Mills Ave.			
	Orlando, FL 32883			

ISBN	Title	Quantity	Price	Extended
125807652	SAO Key Chain	2	6.00	12.00
189765409	SAO Large Poster	1	18.00	18.00
143768431	One-Punch Plush	1	22.00	22.00
	<b>TOTAL</b>			<b>52.00</b>