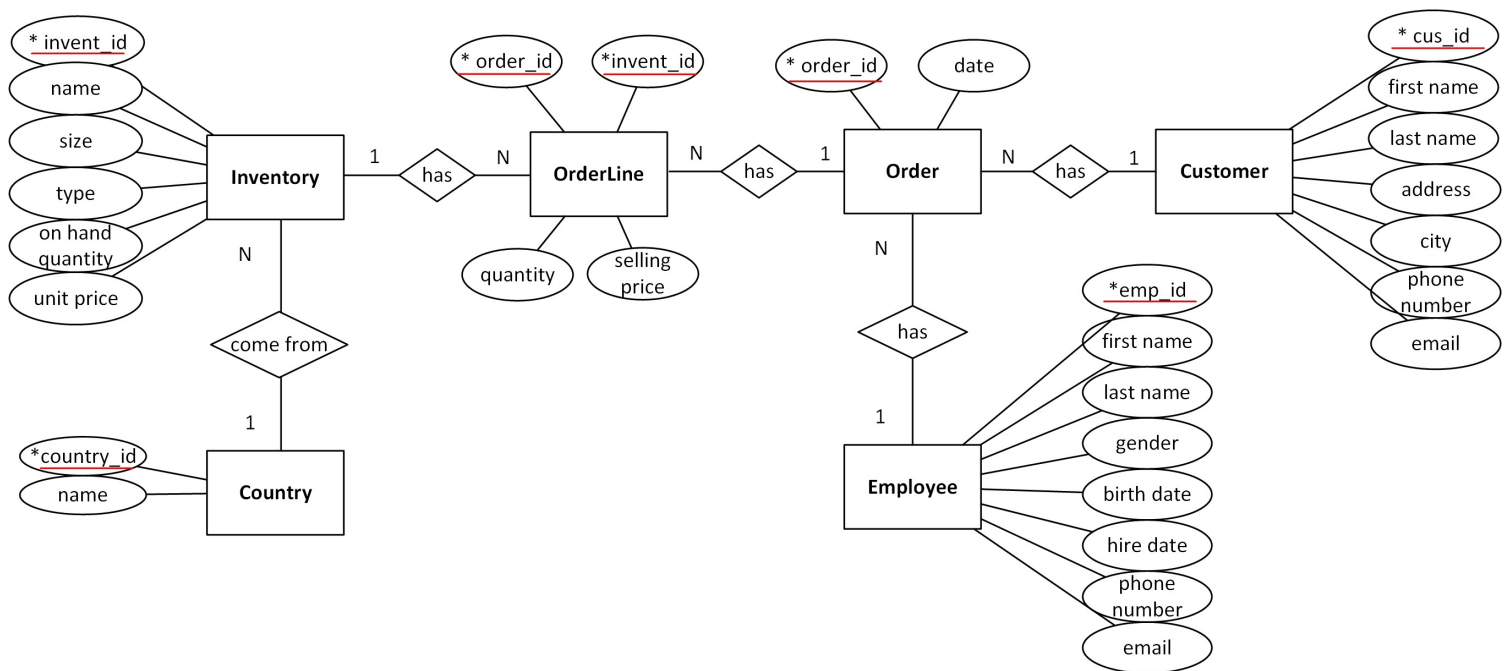


Assignment1: My PDA - Toy web-based sales

(a) Short Description:

I want to track the customers who place orders of toys. Each customer can have multiple orders, but each order must belong to only one customer. Customers have cus_id, first name, last name, address, city, phone number, and email. Orders have order_id, date, selling price. There are employees who check and modify the orders. Each employee can handle multiple orders, but each order must be handled by only one employee. Employees have emp_id, first name, last name, gender, birth date, hire date, phone number and email. Each order can have multiple order lines, but each order line belongs to only one order. Each inventory can appear in multiple order lines, but each order line only has one inventory. Inventory has invent_id, name, size, type, on hand quantity and unit price. Order lines have order_id, invent_id, quantity and selling price. Each inventory has its manufacture country. A country can provide multiple inventories, but an inventory can only come from only one manufacture country. Country has country_id and name.

(b) Entity-Relationship Diagram:



(c) **The two high level interactions are:**

In my toy web-based sales database, I may want to have ***delete customer*** function. The *delete customer* function will delete all orders placed by that customer from the Order relation.

Another is ***add order*** function. One order is added, then we need a customer id, an employee id, and an inventory id to the Order relation.