**Assignment 1**

*Our group consists of Lynn Tran and Shanklein Maruzandi Maninang. We chose scenario #2, where we are designing a new database to track customer orders for Beneci Pizzeria.*

**Entities**

Orders – Contains all order information

Customer – Used to keep track of customer information

Pizza – Pizza information

Non-Pizza – All food items that are not pizza

Ingredients – List of available ingredients you can add to a pizza or non-pizza

**Business Rules**

Each order can only have 1 customer.

A customer can have 0 to many orders.

Ingredients can only be added to a pizza or non-pizza. It cannot be ordered separately.

Subtotal is an accumulation of the price of everything that was ordered for each order.

A tax of 13% will be calculated to the Subtotal to get the Total of the order.

If there is a discount, it will be calculated to the Subtotal and then the taxes will be calculated afterwards to get the Total.

**Unknowns**

How do we solve the many to many relationship for pizza or non-pizza ingredients?

How do we calculate the tax for the order?

When is the discount calculated? Before or after the subtotal?

**Assumptions**

Billing and shipping addresses can be different.

Addresses can have more than one customer.

Phone numbers can be repeated.