10th April 2016

CS340: Project Proposal

As a team, Chavis Sabin and Adina Edwards propose to design and build a database, which holds information about community gardens. Entity tables can include: 1. Community gardens 2. Garden plots 3. Community members (gardeners) 4. The plants These entities include different types of relationships:

1. One community garden is composed of two or more plots. This is a one-to-many relationship.
   1. Community Garden has at least one or more plot.
   2. A plot has exactly one Community Garden
2. Multiple gardeners (community members) can work on a single plot. For example, a family can tend a single plot together. This is also a many-to-one relationship.
   1. Plots must have 1 or more gardeners
   2. Gardeners have at least 1 plot
3. A gardener can have plots in multiple community gardens and a single community garden can have many gardeners. This is a many-to-many relationship.
   1. A Community Garden has 1 or more Gardeners
   2. A Gardener has at least 1 or more Community Garden
4. A single plot can have multiple types of plants, and a single type of plant can be grown in many different plots. This is many-to-many relationship.
   1. A Plot must have 1 or more plants
   2. A Plant has at least 1 plot