­­­Description of Mini-world by Jason Wherry

I have created a Database design for an organization that I am a member of called the Engineering Ambassadors. The full name of the organization is the ‘Karol A. and Jo Ondick Engineering Ambassadors Program’ which exists under the umbrella of the Russ College of Engineering and Technology at Ohio University. This program is made up of students who are selected by their department (Computer Science, Mechanical Engineering, etc.) within the Russ College as well as other current Ambassadors. This Database will be used to track the details of the organization such as the information of each Ambassador (attributes), their respective committee (each holds 3-4 Ambassadors), and other associations that the students have with the Russ College. One of the unique pieces of identification every student at Ohio University has is their school email address. For example, my email is [jw473415@ohio.edu](mailto:jw473415@ohio.edu) and no one else can identify with this (even after I graduate). Therefore, an Ambassador’s school email address (ending with @ohio.edu) will be a key attribute for them in the Database. A regular attribute of an Ambassador is there major as there can be multiple students with the same major. These attributes are two of a larger collection which will make up an entity. Once the Database is filled with information, there will be one large entity set called ‘AMBASSADOR’ containing eighteen Ambassador entities. Entity sets are sets of all entities of the same type. One of the relations in the Database is an Ambassador’s association with their Committee. The kinds of data stored in this miniworld are characters and integers, such as an Ambassador’s name and a Committee’s event number. Another example of an entity in this Database is a Department of the Russ College. The College has seven departments and I will store the name of the department (string), the department chair (string), and the department’s location in Stocker Center (integer). This miniworld could contain more real world data each year as new Ambassadors are added to the Program annually and graduates are treated as alumni. I did not implement this in my database, however I thought it was a good idea to explain how the database would grow over time if I kept it alive for longer than a school year.