# Assignment 1 – Get your idea approved

Throughout this course, you will develop a database. You can think of it as the storage for an application or a website. All of the projects will build on each other, so starting out well is critical to finishing well.

For this assignment, I would like you to come up with an idea – the type of database project that you will build for the rest of the semester. You want to have around 15 types of things that you would like to store.

The relationships between the items are important as well. If items are not related, you will be unable to complete the later assignments. You will need some “one-to-one”, “one-to-many” and “many-to-many” relationships. An example of 1-1 might be you have a cellphone. That one cell phone belongs to one person (you) and you (probably) only have one cell phone. One to many relationships have one “owner” and many “children” – your schedule has many classes. Many to many relationships have no single owner; one example is classes to students. Each class has many students and each student (probably) has multiple classes.

Here are a few examples to give you a better idea how you could write this up:

## Example 1: The Hospital Map

I would like to model a system that shows people how to find their doctor in a hospital, including contact information and information about the doctor.

Entities I will model:

Doctor

Office (1 to 1 with doctor)

Building (1-1 with floor)

Floor (1 to many with office)

Specialty (many-many with doctor)

ParkingLot (many to 1 with building)

Etc.

## Example 2: Online comic store

I would like to model an online comicbook store.

Entities I will model:

Customer

Shipping Address (many to 1 with customer)

ComicCompany

ComicSeries (many to 1 with ComicCompany)

Issue (many to one with ComicSeries)

InventoryItem (1 to many with Issue)

Category (many to many with ComicSeries)

ContactPhone (1-1 with Customer)

Etc.

The key in this assignment is to ensure that you have enough tables and they have enough different relationships. These things may change as you develop your model through the duration of the course. You aren’t stuck with entities or relationships, necessarily, but you won’t want to scrap everything half-way through the class to start over.

Please submit your assignment in blackboard.

Grading

This is not a graded assignment (I will track completed or not), but it is required that you complete this assignment before completing any other assignments.