

## **Project: Part 2**

40pts

**Due Date:** Thursday, November 3, 11:59 pm

### **Overall Project Objective**

The objective of this second part is to analyze the data and information about the chosen organization and derive a **project-level** model for your database. At this stage you should have a clear understanding of the organization you are working on and you made up your mind about your entities and attributes. Remember that you are required to have a minimum of 6 entities and it is recommended that each of them possesses at least 5 attributes.

The next and final part of the project will consist in populating your database as well as manipulate and retrieve data information. Therefore, you should have a clear understanding of your model by the time you are submitting this part 2.

### **Part 2 Instructions**

For the second part of this project you are required to submit **a doc, docx or pdf** document with the following information, preferably in this order:

1. A final list of your entities and each attribute (5 pts)  
For each, provide a short description (2 lines max)
2. In addition, for each attribute (5 pts)
  - a. Provide information about their domain constraints (specific data type, any limit in data entry)
  - b. Indicate and explain any relation between attributes and the respective primary key.  
**Example** : The attribute StudentFristName represents the first name of the student with a specific StudentID.
3. A list of ALL the Business Rules used by your organization. (10 pts)  
Those rules should be represented in your ER diagram.  
I advise you to go first define your business rules and then derive your diagram from them.
4. An ER diagram (or EER diagram if needed). (10 pts)  
You are free to use any design software such as **Diagrams.net, Microsoft Visio** or **MySQL Workbench**.  
Your diagram should look “professional” and included in your doc, docx or pdf submission.

5. A relation model (normalized 3 NF) based on your ERD (10 pts)  
1NF or 2NF relations are not required, but you must be sure you have 3NF relational model.  
Once again, your model should look “professional”. I therefore recommend that you use Diagrams.net or any other good design software.

Your submission should be in one of the following formats: .doc, .docx or .pdf.

**Your submission should look “professional”. No pictures allowed.**

**I only want one submission per group.**