***Ungraded Design Exercise***

**Steps:**

1. Follow the steps described in class to create a DB design for the business problem described below[[1]](#footnote-1):

*Consider a professional education center. The owner wants to keep track of the instructors, students, courses offered, students enrolled in those courses and tuition billed/paid.*

**Deliverable:**

You will hand in a print out of your design (as a PDF file).

Your design should be normalized to 3rd normal form.

Your design should include the following:

* tables and columns
* primary and foreign keys
* relationships between tables
* nullability (whether the column is required or not)

Your design needs to be able to solve the business problem, while trying to respect the scope of the problem.

You may also submit a short explanation of non-obvious design choices or data assumptions you made[[2]](#footnote-2).

*My solution has 6 tables. This is on par with the 1st design lab. Please understand that to keep the scope small I limited the number of tables and made certain design choices.*

1. Think about what data makes sense for the business problem and select the fields that make the most sense. Expected design scope is somewhere around 6-8 tables, 6 or so fields/table on average – your design does not need 100s of fields, but it does need to be able to function on its own. [↑](#footnote-ref-1)
2. This is optional – best designs do not need this. No more than 1/3 of a page. Non obvious means I cannot figure it out from your design. [↑](#footnote-ref-2)