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Group 7: Constraints

To date we do not have an actual data set to populate our database. To wit, we cannot yet nail down the specific numbers for what our constraints will be. We do have an idea of what constraints will be placed on some of our attributes for some of our tables. This list includes some overall project constraint ideas. Some may be implemented on the front end of the project rather than on the database end. Here is what we have thus far.

PROFESSORS

- Id - Unless we learn of some constraints on this number placed by the institution we do not have any constraints on this attribute at this time.
- FName - no constraint.
- LName - no constraint.
- Prof_Type - There will likely be a constraint on this attribute. There will only be a few types that are applicable here, as such we will likely want to have some constraint that only allows for certain terms to be entered. This may happen at the front end of the project..
- Internal_ID - no constraint.

CLASS

- Id - Just as was the case with professors, there is not a constraint on this attribute yet.
- Program - Maybe a reach constraint would be to make sure that this can only be filled with names from a select list of acceptable program names.
- Cat_Num - None as of yet.
- Name - Like with the program attribute there may be a way to screen for inappropriate entries.
- Seats - A constraint on the maximum and minimum of this constraint. There are likely no classes with fewer than 5 or more than 200 students enrolled.
- Credit Hours - Likely constraint between 1 and 5. But still no hard data to go on.

ROOM

- Id - no constraint
- Building - There is a finite list of buildings to choose from.
- Number - Likewise, there is a limited list of buildings.
- Capacity - This will have some cap, but we do not yet know what that will be.

PROF_PREFERENCES

- ProdID - no constraint.
- Pref_Type - We will come up with a list of acceptable entries for this attribute.
For this project our list will likely be brief.
- Start - no constraint.
- End - no constraint.
- Scaler - We will define what this will be. Its range has not yet been determined.

SECTION

- Class - no constraint.
- Section - Perhaps some institutionally defined range.
- Prof_id - no constraint.
- Room_id - no constraint.
- Start - no constraint.
- End - no constraint.
- Days - A list of seven possible entries.