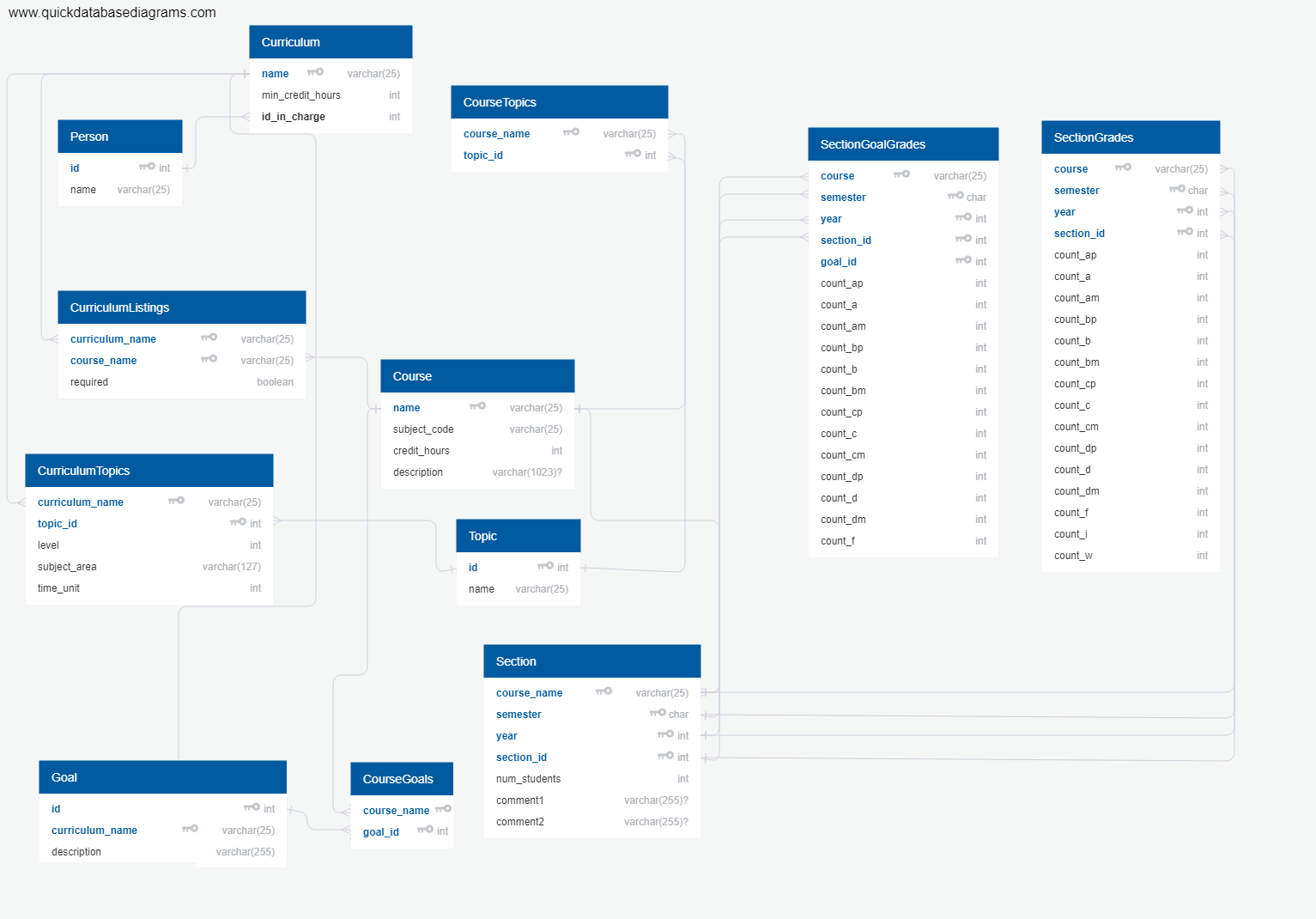
Curricula DB Schema

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Detailed outline of schema by table:

* Curriculum:

This table stores the curricula that are actively referenced and updated by the application. A curriculum must have a unique name, as well as specify a valid person in charge of the curriculum as well as a listed minimum number of credit hours for the curriculum.

* + **name:** The name of the curriculum
  + **min\_credit\_hours:** The minimum aggregated number of credit hours required for the curriculum
  + **id\_in\_charge:** The id number of the person in charge of creating and updating the curriculum.
* Curriculum Listings:

This table stores all the courses that are listed under a curriculum. Note that a course may be shared between multiple curricula. A course is also listed under each curriculum as required or optional.

* + **curriculum\_name:** The name of the curriculum the course is listed for.
  + **course\_name:** The name of the course listed in the given curriculum.
  + **required:** A Boolean flag indicating if the course is required in the given curriculum.
* CurriculumTopics:

This table lists the topics that are associated with each curriculum. They indicate also the subject area of the curriculum that the topic covers as well as the ‘level’ of the the topic (a numerical scale from 1-3 of how critical each topic is to the curriculum core) as well as a recommended time unit within which the topic should be covered. (This time unit is stored internally as an integer value to one decimal place; e.g: “1.3” would be stored as “13”.)

* + **curriculum\_name:** The name of the curriculum the topic is associated with.
  + **topic\_id:** The id of the topic.
  + **level:** The level of the given topic in the curriculum.
  + **subject\_area:** The subject area the topic is listed in the curriculum under.
  + **time\_unit:** The suggested time unit for covering the given topic.
* Course:

This table stores all courses that exist in the database. Each course has an associated unique name. Each course also has a text description, and an associated subject code. The number of credit hours associated with each course is also stored.

* + **name:** The name of the course.
  + **subject\_code:** The subject code of the course.
  + **credit\_hours:** The number of credit hours earned from the course.
  + **description:** A text description of the course.
* Course Topics:

This table lists the topics that a given course covers.

* + **course\_name:** The given course a topic is associated with.
  + **topic\_id:** The id of the given topic.
* CourseGoals:

This table lists the goals that a given course aims to fulfill.

* + **course\_name:** The name of the course that fulfills the given goal.
  + **goal\_id:** The name of the given goal.
* Topic:

This table stores all the topics that are covered in a curriculum or course. Each topic has an associated id and simple name that describes the given topic.

* + **id:** The unique id of the given topic.
  + **name:** The descriptive name of the topic.
* Goal:

This table stores all the goals that may be covered in a course. Each goal has an associated id and curriculum name. Note that a goal captures a general concept that is associated directly with its id number, but may be associated with multiple curricula, having a slightly different description for the individual contexts of each curriculum. For example, a goal of ‘Technical Writing’ (given a unique id number) may have slightly differing descriptions depending on whether is in the context of the ‘Engineering’ or ‘Biology’ curricula. Thus, the ids may be the same, but the descriptions may differ between curricula.

* + **id:** The id number that is associated with the general concept of the goal.
  + **curriculum\_name:** The name of the associated curriculum.
  + **description:** The description of the goal in the context of the given curriculum.
* Section:

This table represents an individual section (i.e: corresponding to a single classroom session) of a course in a given year and semester. Each section of a course in a given year and semester is assigned a unique Id. Furthermore, the number of students as well as up to two optional comments are stored with each unique section.

* + **course\_name:** The name of the given course.
  + **semester:** The semester of the course (stored internally as ‘W’ for winter, ‘R’ for spring, ‘S’ for summer, and ‘F’ for fall).
  + **year:** The year that the section existed.
  + **section\_id:** The id of the section in the given year/semester.
  + **num\_students:** The number of students enrolled for the given section.
  + **comment1:** Optional text comment #1.
  + **comment2:** Optional text comment #2.
* SectionGrades:

This table is used to store the overall grades for a unique section of a course.

The grades are stored as the number of plus, minus, and standard letter grades in the range ‘A’-‘D’ as well as the number of Failures (‘F’), Withdrawals (‘W’), or other Indicative grades (‘I’).

* + **course\_name:** The name of the course of the section.
  + **semester:** The semester that section took place in.
  + **year:** The year that the section took place in.
  + **section\_id:** The id number of the section.
  + **count\_(\*):** The count of the respective letter grade (\*), (for more info, see graphical schema and above description).
* SectionGoalGrades:

This table is used to store the overall grades for a particular goal for a unique section of a course. The grades are stored as the number of plus, minus, and standard letter grades in the range ‘A’-‘D’ as well as the number of Failures (‘F’). For goal grades, no ‘I’s or ‘W’s are listed.

* + **course\_name:** The name of the course of the section.
  + **semester:** The semester that section took place in.
  + **year:** The year that the section took place in.
  + **section\_id:** The id number of the section.
  + **goal\_id:** The id number of the goal being graded.
  + **count\_(\*):** The count of the respective letter grade (\*), (for more info, see graphical schema and above description).
* Person:

This table stores all of the people responsible for updating and maintaining curricula. Each person is assigned a unique identifying id number, but multiple people may have the same name.

* + **id:** The id of the given person.
  + **name:** The name of the given person.