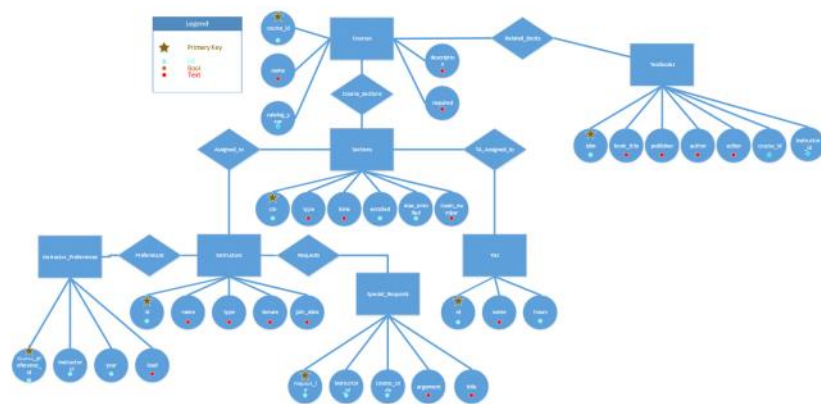# ER Diagram

Sunday, May 3, 2015   11:07 PM

Schema

Instructors(id, name, type, tenure, join_date)
      id is the primary key. It is an integer.
      name is the name of the instructor. It is text.
      type refers to if the instructor is a Professor, GPTI, or FTI. It is text.
      tenure is text (Tenured/Untenured/Not Applicable)
      join_date is text of the date the professor started

Courses(course_id, required, name, description, catalog_year)
      course_id are unique integers given as a primary key.
      required is text, indicating if the course is required curriculum
      name is text giving the name of the course EX: "CS4345"
      description is text giving a brief description of the course
      catalog_year is an integer giving the catalog year for the course

Textbooks(isbn, booktitle, author, editor, publisher, instructor_id, course_id)
      isbn – integer, primary key
      booktitle - text
      author – text
      editor - text
      publisher – text
      instructor_id – text
      course_id – text

Sections(crn, time, enrolled, max_enrolled, room_number)
      crn is a unique identifier given to every section
      enrolled is an integer indicating the number of students currently enrolled in the section
      max_enrolled is an integer indicating the maximu number of student that may be enrolled
      room_number is text.

TAs(id, name, hours)
      id is an integer and is the primary key.
      name is text giving the name of the TA
      hours is an integer indicating the number of hours the TA works per week

Assigned_To(id, instructor_id, section_crn, semester)
      id – text, primary key
      instructor_id is an integer, foreign key to the id for an instructor
      section_crn is an integer, foreign key to the crn for a section
      semester - text

TA_Assigned_To(ta_id, Section_crn,semester)
      ta_id is an integer, foreign key to the id for a TA
      Section_CRN is an integer, foreign key to the CRN for a section
      semester - text

Course_Sections(Course_Code, Section_CRN, semester)
      Course_Code is an integer, foreign key to the Code for a course

Section_CRN is an integer, foreign key to the <u>CRN</u> for a section
semester – text

Instructor_Preferences(<u>course_preference_id</u>, load, year, instructor_id)
<u>course_preference_id</u> – is the primary key and is integer
load – text (Spring/Fall/Equal)
year - text
instructor_id – int, instructor id from instructors

Preferences(instructor_id, course_preference_id)
instructor_id - int
course_preference_id – int

Special_Request(<u>request_id</u>, instructor_id, course_id, argument, title)
<u>request_id</u> – int, primary key
instructor_id - int
course_id - int
argument – text
title – text

Related_Books(course_id, isbn)
course_id – int
isbn – int