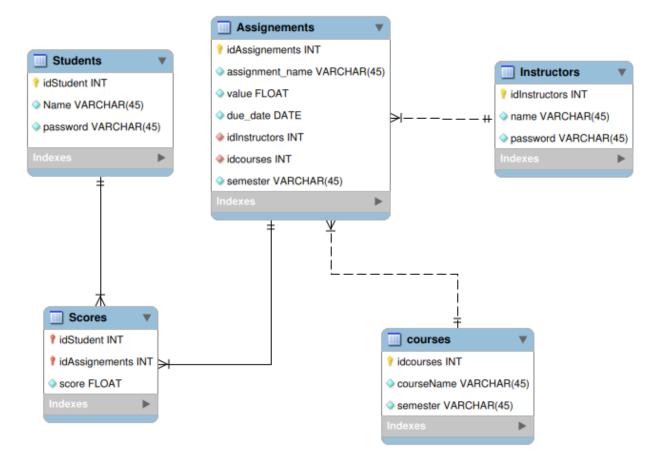# Gradebook Database

Developer: Andrew Shiraki

Course: CST438-40_SP23: Software Engineering

Diagram:

Assignements
- 🔑 idAssignements INT
- ◆ assignment_name VARCHAR(45)
- ◆ value FLOAT
- ◆ due_date DATE
- ◆ idInstructors INT
- ◆ idcourses INT
- ◆ semester VARCHAR(45)
- Indexes ▶

Students
- 🔑 idStudent INT
- ◆ Name VARCHAR(45)
- ◆ password VARCHAR(45)
- Indexes ▶

Instructors
- 🔑 idInstructors INT
- ◆ name VARCHAR(45)
- ◆ password VARCHAR(45)
- Indexes ▶

Scores
- 🔑 idStudent INT
- 🔑 idAssignements INT
- ◆ score FLOAT
- Indexes ▶

courses
- 🔑 idcourses INT
- ◆ courseName VARCHAR(45)
- ◆ semester VARCHAR(45)
- Indexes ▶

Tables:

1. Students
   a. PK: student ID number which is auto generated
   b. Name: Non unique
   c. Password: Used for login
2. Instructors:
   a. PK: Instructor ID which is auto generated
   b. Name: Non unique
   c. Password: Used for login
3. Courses:
   a. PK: Course ID automatically generated
   b. Course Name: Human readable course name
   c. Semester: autological
4. Assignments:
   a. PK: Assignment ID which is auto generated

      b. Assignment Name: Human readable and human searchable assignment name

      c. Value: total number of possible points

      d. Due_date: autological

      e. idInstructor: Instructor that added the assignment

      f.   idCourses: Will be necessary to query assignments from course

      g. Semester: Will be necessary to query assignment from relevant semester

5. Scores:

      a. PK: student ID

      b. PK: Assignment ID

      c. Score: how many points achieved on associated assignment by associated student