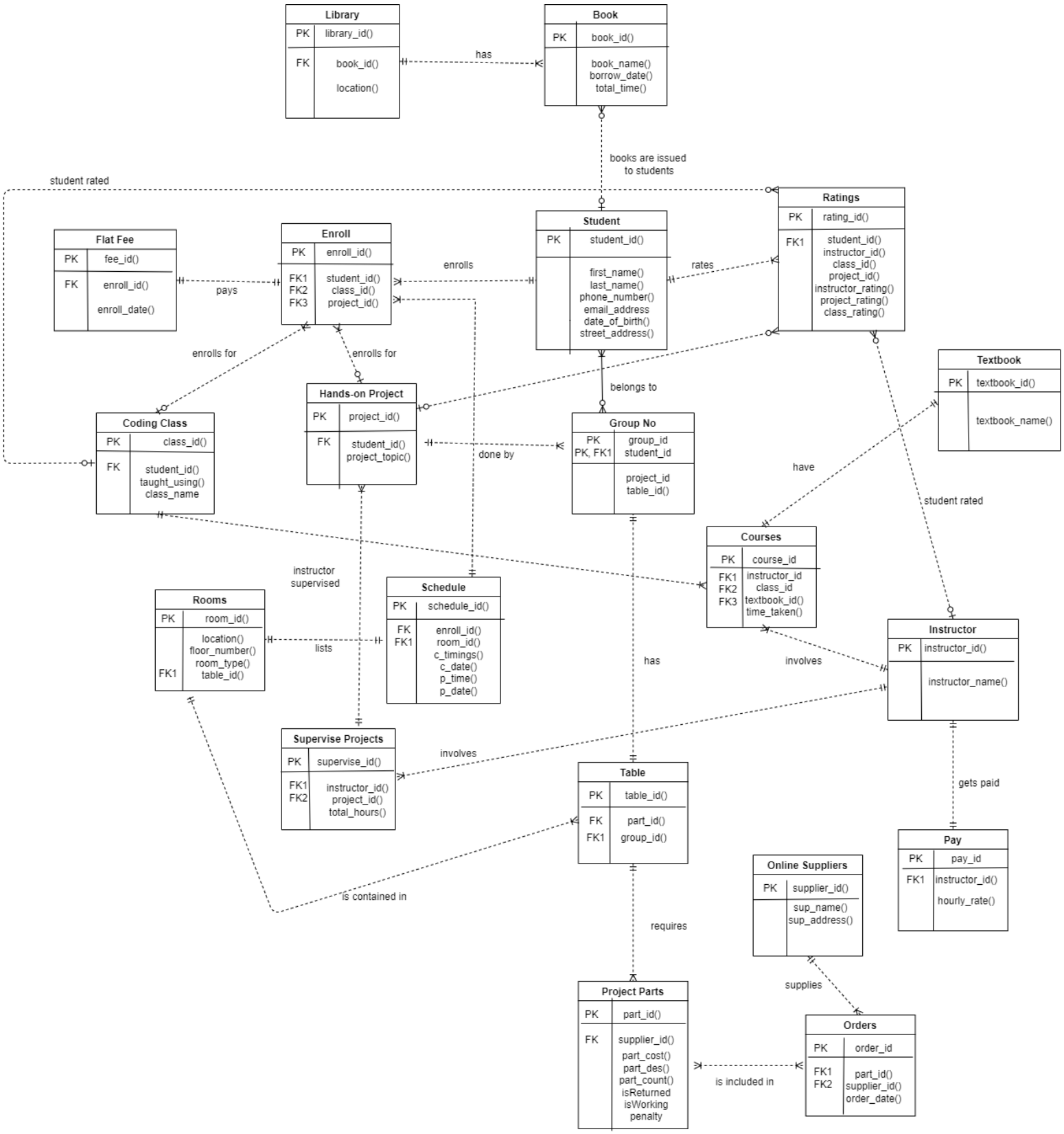
UNNATI SHAH
CSCI585 HOMEWORK-1



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README

1. One enroll_id can correspond to either one project, one course, or one course and one project because a student can enroll in both courses and projects at the same time.
2. Since multiple instructors may teach the same class while using various textbooks, an entity called Course has been created to connect a class with its instructor and textbooks. Additionally, each row of the table would include the number of hours a teacher spends on that class each week.
3. Since numerous instructors might oversee one project, an entity called supervise project has been created to connect a project with the teacher who supervises it. The number of hours a teacher oversees that project over the course of a week would likewise be stored in each row of the table.
4. Enroll is a special entity that is created to keep track of what classes and projects a student is taking. I assumed that a student could enroll in multiple classes and/or complete one project per week. As we can get a count of the classes and projects, he/she took, we can use this table to define the student's final fees.
5. This entity is connected to both the schedule entity and the room entity, so the student will know which course/project is when and where, based on the relationship between the two.
6. Students work in groups of four to complete projects, and because one student can work on several projects and thus be a member of several groups—as well as because I assumed that one group could work on several projects—the entity group no stores the supervise project for a specific student in a specific project group. Then, each project group is given a table id with a list of components needed finish the project.
7. These project components can be acquired from many providers, thus I created an entity called orders to act as a bridge for this m:n relationship.
8. In this table, a single order corresponds to several things purchased from a single source.
9. An instructor, class, or project's rating can be associated with a rating_id because the rating database essentially holds student evaluations of those components.