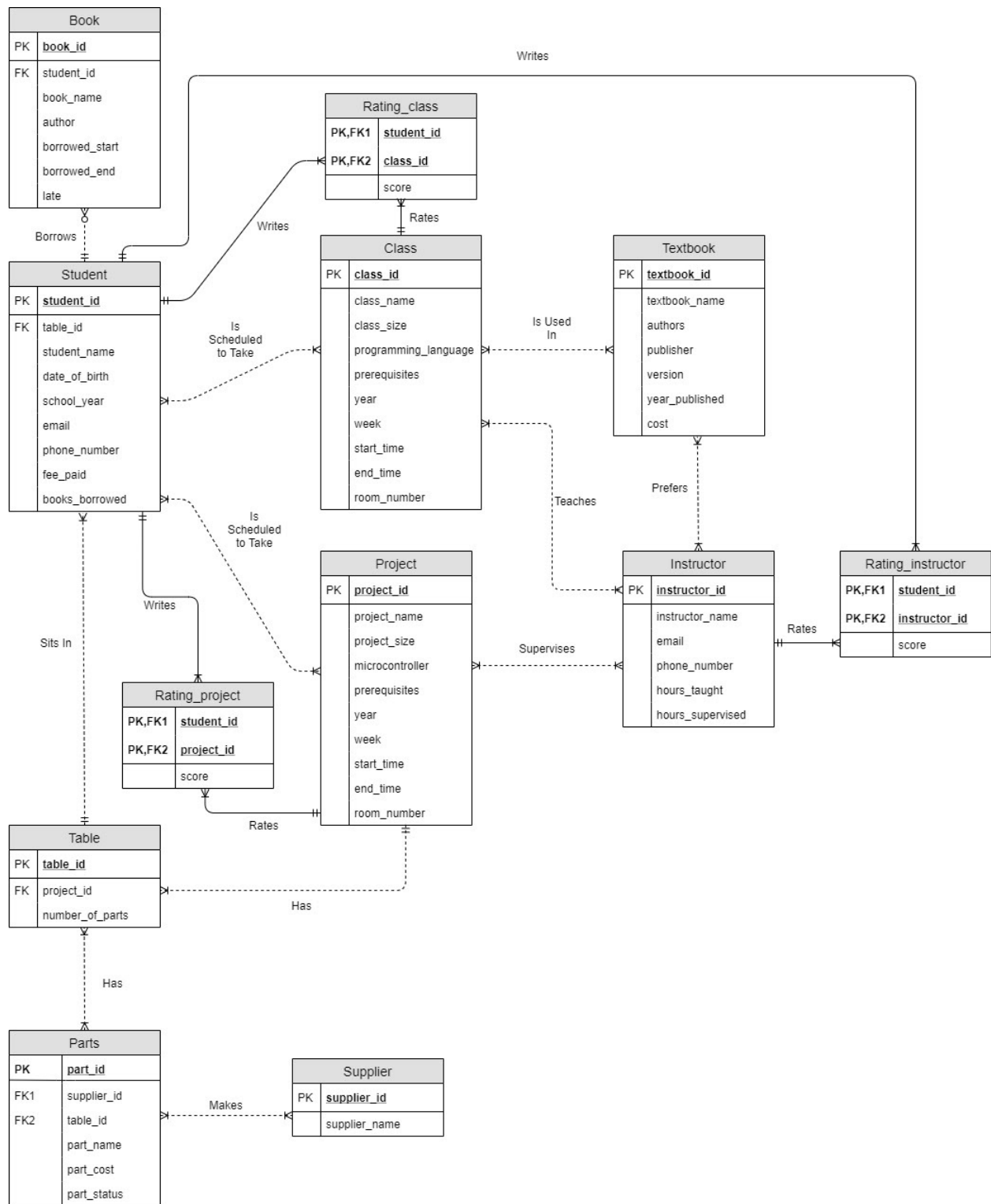
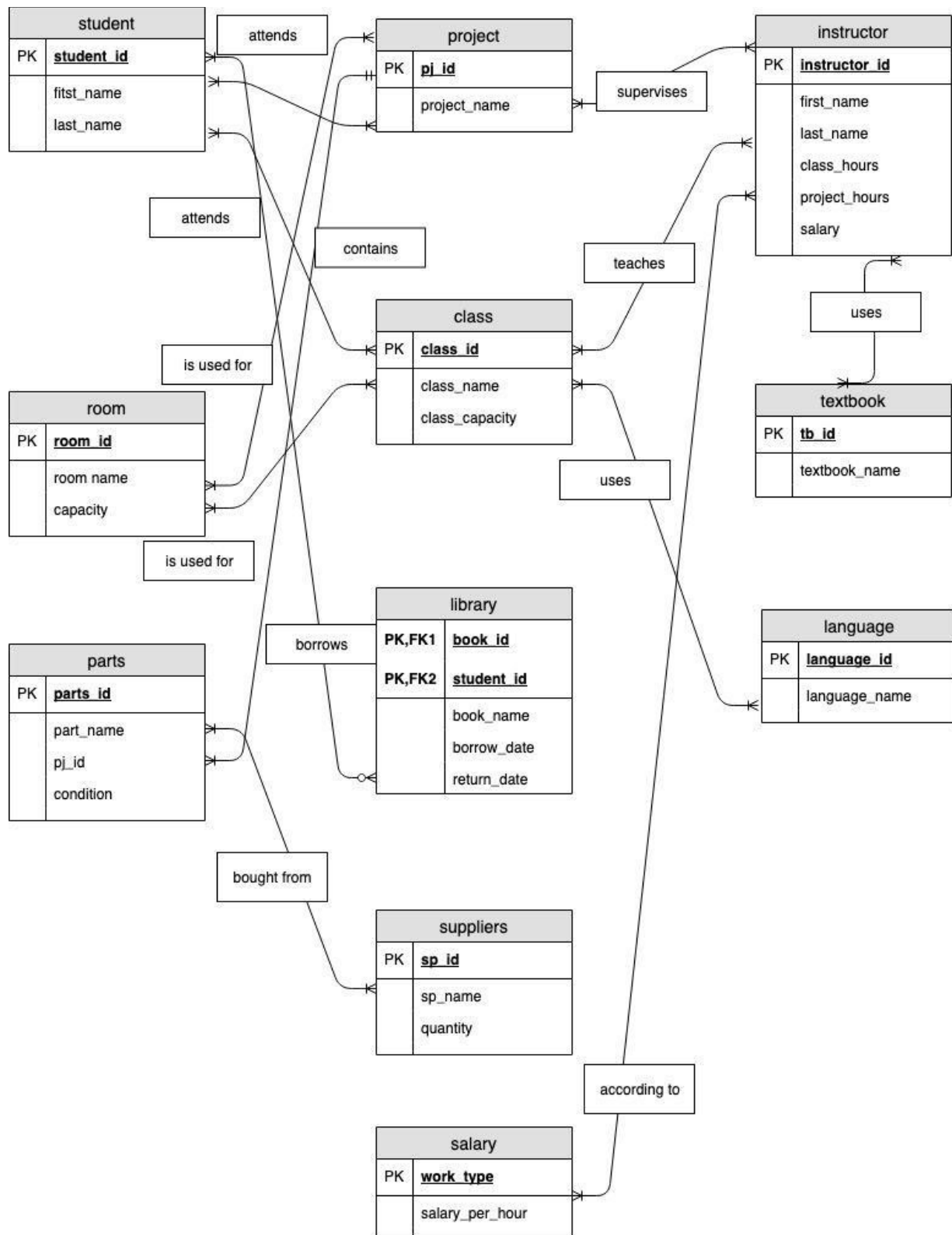


## Sample Solution 1



## Sample Solution 2



## CSCI 585 – Homework 1 Rubrics

Total points: 5

4 points for the ER Diagram

1 points for the report(description file)

File format - Should be a single PDF file as given in description No point deduction this time. We will start taking off points for not following the submission requirements.

File name - Should be provided as given in description. No point deduction this time. We will start taking off points for not following the submission requirements.

### **Rubrics for ER Diagram (4 points):**

-1 if missing any entity or relationship depicted in the solution.

- Fully depicted entities, attributes and relationships mentioned in problem description

The following worth 3 points. -1 for each that is wrong. If a student got all of the following wrong, we deduct 3 points.

- PK and FK should be marked. (-0.5 marks if missing)

- ER Diagram should have representation of Strong and Weak relationships. A Strong relationship should be indicated by adding the referencing foreign key to the primary key of the entity. They should be distinguished by dashed and solid lines. (-1 mark if there is no differentiation)

- ER diagram should use meaningful notations that are standard and discussed in class.

Any weird notation will be penalized.

### **Rubrics for Report (1 point):**

All assumptions must make sense.

-0.5 for each assumption that doesn't make any sense

-0.5 for incomplete explanation of design

Report should discuss the tradeoff or design decisions that were taken rather than refer to the

homework description.

Note: This is an exercise to help you think in terms of design decisions that you take when designing large scale databases. It is important to question your decisions, write substantiating

statements and discuss the trade-offs in your design.

## **Suggested Steps for Evaluating Assignment**

- 1. Check for necessary entities: (-1 for 2 missing total entities and -2 for more)**  
Class, Project, Instructor, Student
- 2. Check for attributes or Entities: (-1 for 2 missing total entities and -2 for more)**  
Language, Library/book, Salary, Suppliers , Textbook, Part, Room, Rating should be shown in the diagram
- 3. Check for N:M Relationships or Bridge Entities: (-1 for 2 missing total entities and -2 for more)**  
Project Rating, Class Rating, Instructor Rating, Instructor teaching Class, Teacher prefers Text, Book used in class, Student taking class, Student doing Project
- 4. Check Supplier-Part-Table relationship for many-many relationship: (-1 for 2 missing total entities and -2 for more)**
- 5. Check Primary Key of each entity: (-1 for each missing PK)**
- 6. Check Foreign Key of each entity and check its related 1:N relationship. (-1 for each mistake)**
- 7. Check for README.txt (-1 if not found)**
- 8. Check if assumptions make sense (-0.5 for an inconsistent assumption)**