

ASSIGNMENT 2

Consider the following information about a university database:

1. Professors have an SSN, a name, an age, a rank, and a research specialty.
2. Projects have a project number, a sponsor name (e.g., NSF), a starting date, an ending date, and a budget.
3. Graduate students have an SSN, a name, an age, and a degree program (e.g., M.S. or Ph.D.).
4. Each project is managed by one professor (known as the project's principal investigator).
5. Each project is worked on by one or more professors (known as the project's co-investigators).
6. Professors can manage and/or work on multiple projects.
7. Each project is worked on by one or more graduate students (known as the project's research assistants).
8. Each graduate student has another, more senior graduate student (known as a student advisor) who advises him or her on what courses to take.

Design and draw an ER diagram that captures the information about the university. Use only the basic ER model here; that is, entities, relationships, and attributes. Be sure to indicate any key and participation constraints. Please submit the result as a single pdf file in LEA.