

EER Exercises (Generalization / Specialization)

The University database keeps track of three types of people: Employee Alumni and the students.

A person can belong to one, two or all three of these types . Each person has a name, ID, address and birth date. Any person at university database must belong to one or more of above mentioned types.

Every employee has a salary and there are three types of employees: Faculty, staff and student assistant. Each employee belongs to exactly one of these types. There can be other employees which may not belong to above mentioned employee categories.

For each alumnus, a record of the degree or degrees that he/she had earned at the university is kept including the degree, year granted and the department. Each student has a major department. Each faculty has a rank whereas each staff member has a staff position.

Student assistants are classified further as either research assistants or teaching assistants and the percent of time they work is recorded in the database. Research assistants have their research projects stored where as teaching assistants have the current course they work on. Students are further classified as either graduates or undergraduates with the specific attributes degree program. (MS, PhD, MBA...) and class respectively.

Draw an Enhanced ER diagram to represent the details above.