Final Project Proposal CS340

The proposal is to make a database that handles security access to a building. The database must contain employees, and track their clearance (access) level, and which doors allow require those clearances.

Entities:

- 1. Employees ID, F.Name, L.Name
- 2. Access Level Access permissions
- 3. Doors ID, Name
- 4. Department ID, Name

Relationships:

- Employees and Access: All employees will require access permission to get into specific doors. Many-to-many relationship. Each employee can have multiple clearance levels and multiple people can have the same clearance level.
- 2. Employee to Department: One-to-many relationship. Multiple employees can be a part of one department, but each employee must be a part of only one department.
- 3. Doors to Access: One-to-many relationship. Doors will require specific access levels.
- 4. People can access doors: Many-to-many. Each employee can access multiple doors and doors can be accessed by multiple employees.
 - a. Relationship attributes include time-in and time-out