Jeremy Banks, Tyler Falgiano, Lance Fletcher, Neel Patel, Vincent Wang

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Team YourSQL Project Proposal

Our project idea is to create a “virtual tour” for university campuses. Through a web-based application, we plan to offer the ability to look up a variety of information for a campus, a building on that campus, or a classroom within that building. In addition to looking up information on a specific place, queries can also be constructed to find all possible locations that fit a user’s specified requirements.

For the database implementation, tuple entries can include: location, occupancy size, lecture hall or classroom, whiteboard or chalkboard, hours of operation, and possibly more. Additionally, from this data we may be able to form patterns or create statistics such as where the majority of lecture halls are located, which campus has the best availability for a certain time slot, etc.

For a use-case example, suppose a student on Busch wanted to have a late-night study session with some peers on a Saturday. Now suppose one of the students in this study group had severe asthma and consequently couldn’t be around chalk dust. The most viable study location would therefore be a Busch building that stays open late and contains a classroom that uses a whiteboard instead of a chalkboard. But how could one find that information aside from going building-to-building, classroom-to-classroom? Using the above specifications, a student could construct a query on our website to get a list of all suitable locations, essentially touring these locations online rather than in-person.