Functions

Get University ID By Name and State
- Takes a university name and state as input
- Looks it up in the university table
- Returns its university_id (or NULL if not found)

Admin Only Procedures

These are operations that only the admins are allowed to do.

CreateUniversity
- Input: University name, State, and optionally a wiki link
- Generates university ID and adds the university into the database.

RemoveUniversity
- Input: University name, State
- Completely removes a university and all its ratings, buildings, rooms, etc.

AddCampus
- Input: Campus, University name, State
- Adds a campus location to the database for a selected university.

DeleteCampus
- Input: Campus, University name, State
- Removes any type of campus.

CreateNonBuildingLocation
- Input: Name, Campus, University name, State, image is optional, description is optional.
- Adds a Non-building to Nonbuildings table and since it's also a location, it gets added to the location table.

CreateBuildingLocation
- Input: Name, Campus, University name, State
- Adds a building to the buildings table and since it's also a location, it gets added to the location table.

CreateRoom
- Input: Name (be sure to include the name and room number, the names must be unique), Building Location, Campus, University, State, Room number (can be null), Room type, Size.
- Adds a room to the rooms table, and since it's also a location, it gets added to the location table.

DeleteLocation
- Input: Name of location (Could be a building, nonbuilding, or room), Campus, University name, State
- This procedure removes a location whether it is a Building, Non-building, or a room.

User Procedures

Procedures that are meant to be run by users but can also be run by Admins.

CreateUser
- Input: Username, Password, Role, University name, State
- Takes in the data submitted when creating an account like username, password, role, university name, and adds them to the users database table if the university exists. And assigns that user a UID.

DeleteUser
- Input: Username and password
- Removes a user from the database and their data. Doing this will also remove the reviews left by that user.

AddRating
- Input: Username, University, State, Campus, Location, Score, Noise, Cleanliness, equipment_quality, wifi_strength, extra_comments
- Insert a new rating for a particular location (Room, building, non-building).

Delete Rating
- Input: Username, University name, State, Location, Campus
- Users can delete one of their ratings from the database.

ShowUniversity
- Input: University name, State
- Selects a University and displays its campuses and rooms and their ratings to the user.

SearchWithEquipt
- Input: University name, State, Location, Equipment tag
- Users should be able to filter for any type of campus location with certain equipment once a university is selected.

SearchWithAccessTag
- Input: University name, State, Location, Equipment tag
- Users should be able to filter for any type of campus location with certain accessibility options once a university is selected.

SearchWithRating
- Input: University, State, Campus (optional), Rating type.
- Users should be able to filter locations by wifi strength, noise, equipment quality, and cleanliness.

Search by Room Type
- Users should have the ability to search for a room type.

Search by Room Size
- Users should be able to search for a room by its size.

Search by Room Number
- Users should be able to search for a room by its room number.

RoomRequest
- Input: name of room, University, State, Campus, Building.
- Users should be able to request for a room to be added into the database.