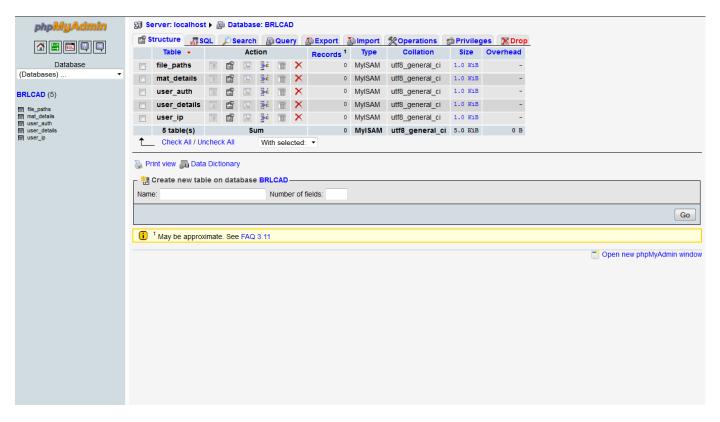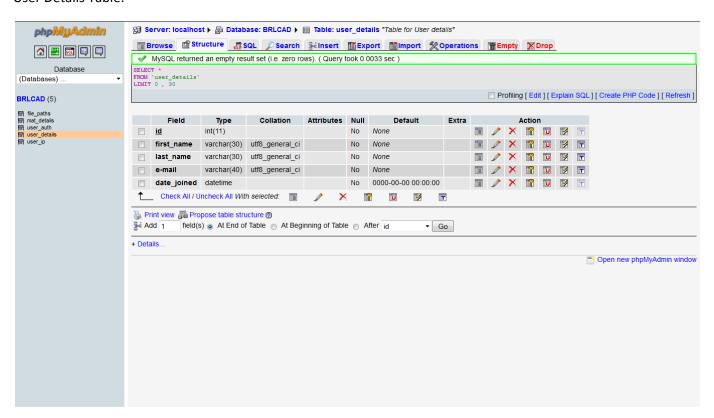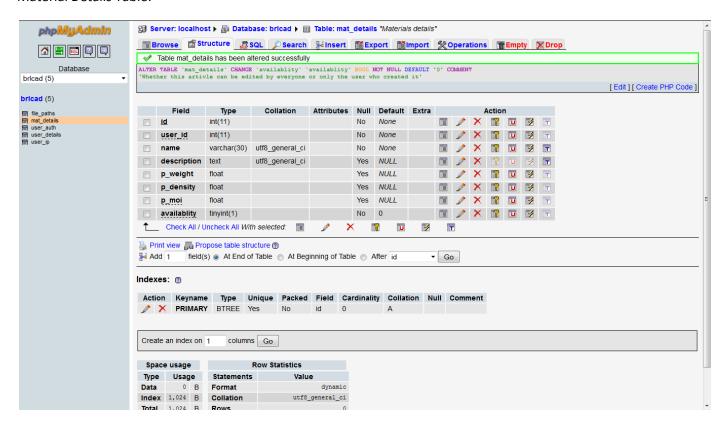Database Tables Overview:
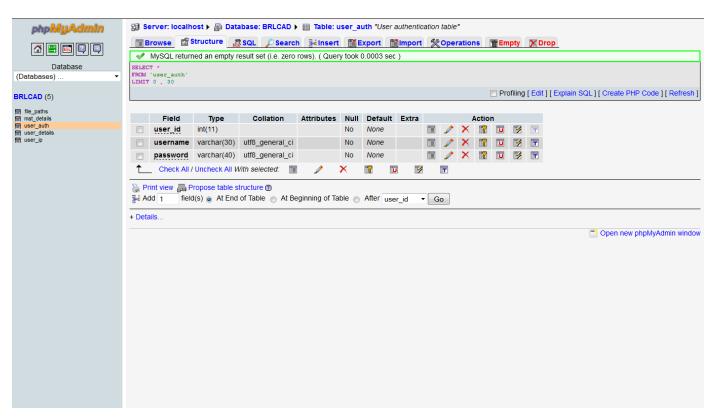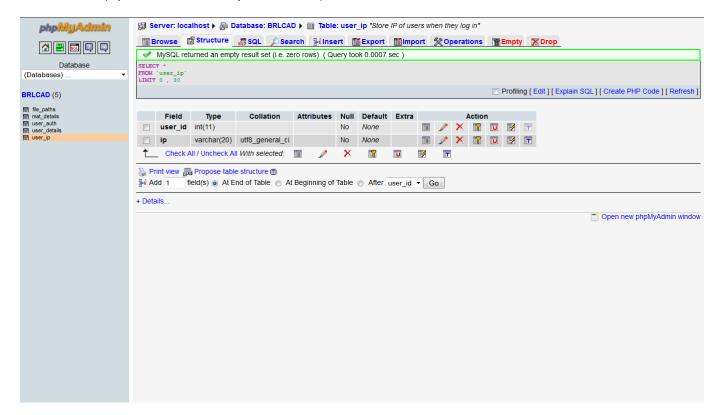

User Details Table:

Material Details Table:

User Authentication Table:

User IP Table: (Optional – For security/information)

Notes:

1. User ID and Material ID need not be integers. They can be VARCHARs with some special prefix/suffix
2. The 'availability' column in the Material Details Table corresponds to the current functionality of the site where one user cannot edit another's page/materials if the material was tagged 'Private'. 'Private' corresponds to 0 while 'Public' corresponds to 1.
3. P_weight, p_density, p_moi are different properties of a material. Further columns can be added via PHP and an interface can be provided where the user can include a new property. The value of that property for the existing materials can be set to NULL.
4. This is the basic SQL schema on which I plan to work. It is not completely optimized but gives an idea of how the database will function.