**Database Design**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Name | id | name | email | password |
| Type | MEDIUMINT | CHAR(30) | CHAR(35) | CHAR(20) |

**Users – table to store user/account information**

This table was originally created in PUTTY using:

CREATE TABLE users(  
id MEDIUMINT NOT NULL AUTO\_INCREMENT,  
name CHAR(30) NOT NULL,  
email CHAR(35) NOT NULL,  
password CHAR(20) NOT NULL,  
PRIMARY KEY(id)  
);  
It has since had the added columns:  
salt – for storing the key to hash password for comparison.  
current usage – for keeping track of how much space the user is using.  
maximum usage – for allocating a maximum amount of space to a user.  
password and salt columns will be regulated to CHAR(x) due to the fixed length of their values.

**Metadata – table to store file information to reference without giving access to files**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Column Name | fileid | filename | filetype | location | timestamp | owner |
| Type | MEDIUMINT | VARCHAR(50) | VARCHAR(50) | VARCHAR(50) | TIMESTAMP | VARCHAR(256) |

This table was created using something like:

CREATE TABLE metadata(  
fileid MEDIUMINT NOT NULL AUTO\_INCREMENT,  
filename VARCHAR(50) NOT NULL,  
location VARCHAR(50),  
timestamp TIMESTAMP,  
owner VARCHAR(256),  
PRIMARY KEY(fileid)  
);

It has since had a column added for filesize.