

### **Sign Up Page**

- If the user signs on the main page sign up fields, a password and confirmation password fields must both match. The username and e-mail must not be empty.
- e case, then a message will be displayed underneath the respective field stat
- If any of the above is not thing the issue.
- If all fields are valid then a request will be used to invoke an SQL function, and a query of the following form will be passed to the function.
- If the user enters a new user name, there will be a available message displayed.

### **Login Page**

- If the user goes to the login, the user name and password fields must not be empty.
- If any of the fields are empty then a message will be displayed stating an invalid login.
- If both fields are empty them a request will be used to invoke, and a query with the following form will be passed to the function.

### **Calculator Page**

- If the user inputs any number for basic math operations; for example,  $4 + 5$  then a calculation will be executed giving an output 9.
- If the user uses any of the trigonometric functions cos and sin, then the user must input two valid numbers and a multiplication and click cos or sin. An example is  $2 * 4 = -1.6645873461885696$ .
- If the user uses tan and pi then a normal input performed; for example,  $2 \tan = 0.03492076949174773$ .

