**Uruguay Database- PHP Functions**

Connect

Establishes connection to database. Not sure exactly where the code will live, so its hard to specify the parameters right now.

**Parameters**:

$host

$user

$password

$db\_name

$port

**Return**:

The connection (not sure what type, but its special). You can pass the returned connection into any other function in order to run the function on that connection.

Add

Inputs rows into specified table. Column names, and the dictionary of column->value, are separated because the dictionary could contain non-column related metadata (ex. how many aliquots related to this sample to make)

**Parameters**:

$columns- contains array of strings, representing all columns in the table (refer to MySQL Tables document for column info)

$values- contains dictionary of strings to strings, representing mapping of column names to values.

$table- contains string, representing table name

$connection

**Return**:

The auto-generated ID from the table after inserting a row. Can be used to insert rows into other tables that reference the originally inserted row.

Retrieve\_all

**Parameters**:

$table- name of desired table

$connection

**Return**:

JSON object containing all data from table

Aliquot

**Parameters**:

$aliquots- number of test tubes we aliquot into

$sample\_id- the id for the sample from which we aliquot

$connection

**Return**:

None

Deplete

**Parameters**:

$values- (should be named tube\_ids) id’s for the tubes that we are deleting

$connection

**Return**:

None