

You should create a new document using the naming convention **LabXX-MUId.docx** (example: Lab13-johnsok9.docx).

Objective: The objective of this exercise is to:

1. Understand database queries
2. Understand the php programming construct
3. Write php rest interface

Submit: screenshots, your html file and a link to your web page

You **may** discuss this with your fellow students or the instructor.

Name:

Part #1: Update the lookup table

Estimated time: 15 minutes

Exercise:

- Using phpliteadmin as in the previous lab.
- Update the table so that the value field is now a text (string) field
 - Copy the “Query used to create this table” from the phpliteadmin

Part #2: Update the setLookup rest method

Estimated time: 15 minutes

Exercise:

Edit the file final.class.php in /var/www/html.

Remove the check for value to be a numeric field

Test.

<http://id.aws.csi.miamioh.edu/final.php?method=setLookup&location=45056&sensor=web&value=test+12345> (replace id with yours)

Verify the data was entered correctly by looking in phpliteadmin

Part #3: Create the getLookup rest method

Estimated time: 15-30 minutes

Exercise:

Edit the file final.class.php in /var/www/html.

- Create the getLookup rest interface
 - You only need to create the function
 - I suggest copying and pasting the setLookup routine as a starting point
 - Arguments (update the function arguments)
 - date = date field
 - Returned value
 - All elements of file that match the requested date
 - SQL
 - Call GET_SQL (same calling sequence as EXEC_SQL, but it returns an array of results, keyed by field names)
 - Query
 - `$retData["result"] = GET_SQL("select * from lookup where date like ? order by date", $date . "%");`
 - **Reminder. Do NOT copy/paste from word with smartquotes into php (will not work out well)**
 - Make sure you build up the command using the exact same concept as EXEC_SQL in setTemp (but using GET_SQL instead), same argument concept. (every ? needs an appropriate variable to fill it in)
- Update the return message with appropriate words for both good and error situations

Test it by querying

<http://id.aws.csi.miamioh.edu/final.php?method=getLookup&date=YYYY-MM-DD>

(replace id with your id, YYYY-MM-DD with today's date)

Show screengrab

Reminder: You can look for php errors in the following

If your call to the php doesn't work or shows a 500 server error, you have a php error.

1. Check the piece of code you just edited: final.class.php
 - a. php final.class.php

- b. if good – should give NO response
 - c. if a response – it's an error
- 2. Check the web server output
 - a. `sudo tail /var/log/httpd/error.log`

SUBMIT:

- Screenshot
 - Updated query to create table showing value is text (string)
 - Some verification that your rest insert from step2 worked
 - getLookup (must include web address and good json response)
- php code
 - final.class.php