C019-320302
Databases & Web Services
Assignment 4

1 Project Data

From your requirements document, establish 3***N** queries (N = team size; each team members should do one) that will be needed in the course of the implementation of your project. For each query, give a natural language phrasing and the SQL equivalent. As there will be many possible queries, including many trivial ones, we focus on the most difficult ones here following the principle of "hardest first". For the same reason we only consider **select** queries, as insert, update, and delete queries usually are much simpler. Choose those queries fulfilling the above criteria which are central to your project. In total, in the queries at least **N** joins, at least **one** aggregation function, and **one** group by/having clause must appear.

Test these queries under MySQL using the above schema and some sample data.

Check the MySQL log of your queries run against your sample data in the database.

2 CLAMV Setup

In order to host a web application in the CLAMV infrastructure you have to prepare the environment. On the designated server the Apache Web server runs already so you only have to do some simple steps in order to have a running service:

- Log on to the Clamv machine:
  ssh <user>@the-machine-indicated
- In your home folder create the public HTML folder that will hold your contents:
  mkdir public_html
- Grant the Web server access permissions on your home folder (you may want to consult some Linux manual to find out what this accomplishes):
  chmod 755 .
- Same for the newly created folder:
  chmod 755 public_html

- Now you should be able to access your server on the path; verify using this URL in your browser:

  http://the-machine-indicated/~<user>

- In your *public_html* folder create two files and give them permission 755:
  - **test.html** containing some text like "HTML works for me!"

- if you are going to use PHP for your project: **test.php** containing something like

  ```
  <?php echo "PHP works!"; ?>
  ```

- otherwise, if you are going to use Python, a file **test.psp** containing something like

  ```
  <% req.write("Python works!") %>
  ```

- Try to access these files through your laptop's Web browser.

Note: These steps are indispensable for further progress next week.