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1 General Information

1.1 ¿What is the PHIL database?

The PHIL database is an organization and classification of the different Power Hardware in the Loop tests done in the literature. The aim of this database is to gather all the necessary information to help in finding the best PHIL elements to test every HUT. For that reason, it has been divided in several tables with the main elements and their characteristics.

It has been developed using Microsoft Access. The reason is that it is easy to manage the database with no programmer skills at all. Furthermore, it is a widely used software tool, which make possible to add new users to its management.

1.2 Resources

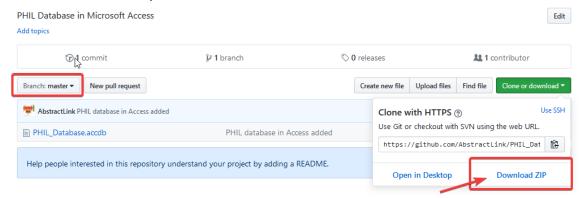
You will need to have Microsoft Access to manage the database. It has been developed using Microsoft Access 2013 and 2016, therefore other version of this software has not been tested and user could find some incompatibilities.

Furthermore, if you want to add or modify information, it is needed an account in GitHub and download "GitHub desktop" to commit your changes. If it is your first time using GitHub, you can find more information in https://guides.github.com/.

2 FAQs

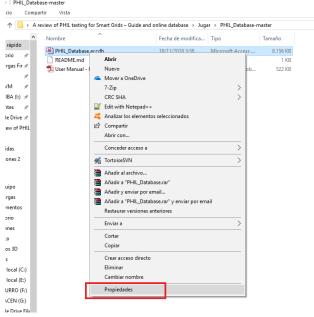
2.1 It's my first time ¿How can I used the database?

- 1. If you do not have your file yet:
 - a. Go to GitHub https://github.com/Egarcia-Circe/PHIL_Database
 - b. In branch master, download the last version of the database as a ZIP file

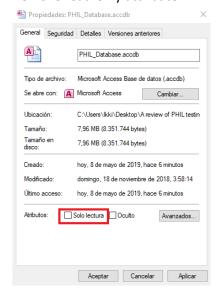


c. Save it in your local repository with the same name and unzip the file.

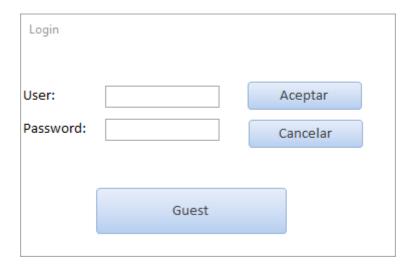
2. Right-click to the "PHIL_Database.accdb" and go to properties:



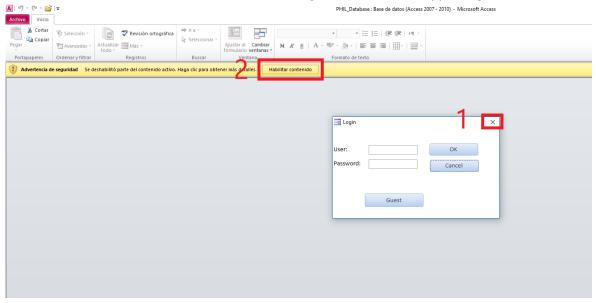
3. Remove read-only attribute



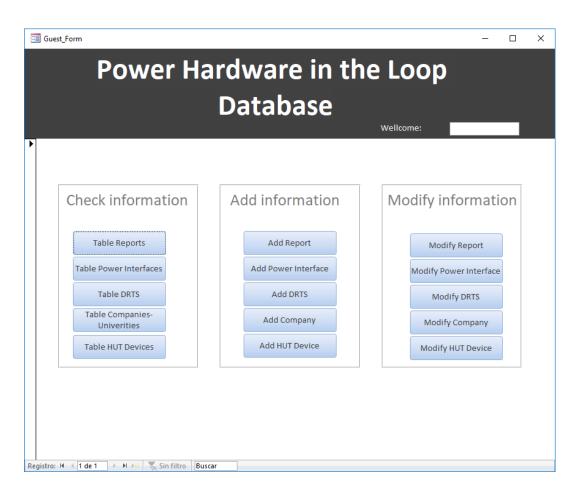
4. Open your local file "PHIL_Database.accdb". The first window of the database is:



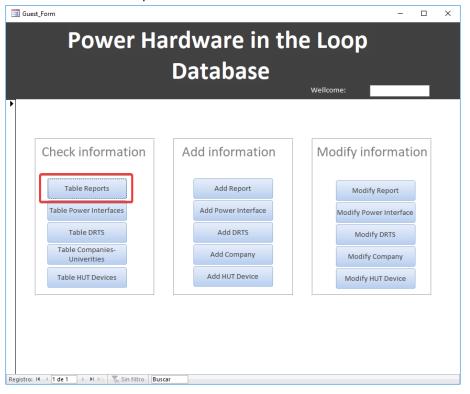
a. If you have enable the <u>Trust Center Message Bar</u>, first you have to close this login window and then click on "<u>Enable Content</u>". The login window should appear again.



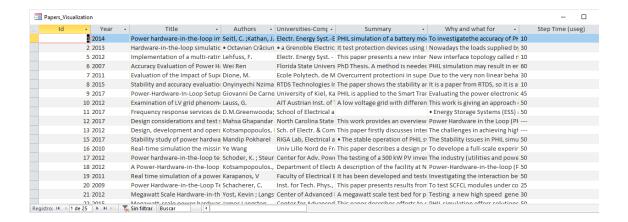
- 5. If you do not have an account, click in in "Guest" bottom which allow you to view the different information of the database. If you want to add or modify information, you need to create an account (2.2).
- 6. After clicking in the "Guest bottom", the main window of the database is opened. In this window you can see main functionalities of the database, but you only have permissions to check the information of the database. If you want to add or modify information, you need to create an account (2.2)



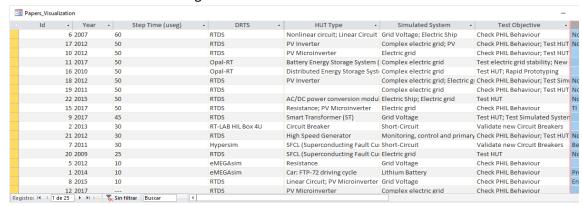
7. For example, let's going to check the information about the different reports of the database. Click on the "Table Reports" bottom.



8. The table with the different reports of the database appears.



9. You can organized and filter the table information as you need. For example, let's going to classify it depending of the used step time step, from more to less time step. This order can give information about what kind of simulated system need less time step or what has been the evolution of this data during time.



2.2 ¿How can I create an account?

If you want to add or modify the database information, you need to create an account. For that purpose, you will need to send an email to xxx with the following information:

- Subject: [PHIL database registration] Full Name
 - o Full Name:
 - o <u>User name</u>:
 - o <u>Password</u>:
 - o Email:
 - Company, University and/or research centre:

 More information: the information that you want to share with us (it will not appear in the database): why are you interested in this database, your PHIL experience,

Once the logging information are checked and updated in GitHub, you will receive a confirmation email about your user account.

2.3 I don't want to show sensible information ¿Is this application safe?

This software has been developed trying to limit the access to the users to unwanted information. For example, only the administrator has access to the emails of the users. However, an expert user in Microsoft Access could find the way to get information that other users cannot take. For that reason, we advise that if you want to add sensible information, do not do that.

2.4 If I'm registered, ¿Can I modified all the information that I want?

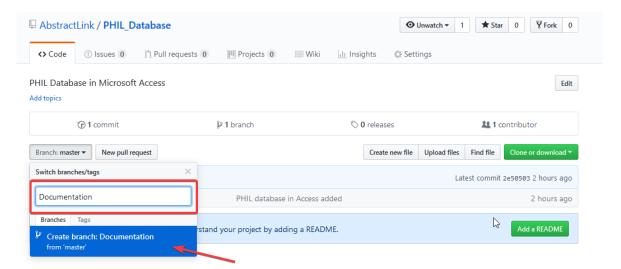
No, you only can modify the data that you have added before. Furthermore, once you have added the information, you need to commit the changes to GitHub (2.6).

2.5 ¿Is the data verified by others or everyone can add information?

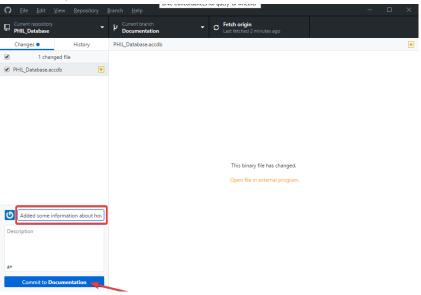
All the users which are registered in the database are working in a company, university or research center. Therefore, the information added in the database comes from verified institutions, and this is the main verification of the added data. Furthermore, the database administrators will be try to periodically revised the added information and guarantee that it is coherent.

2.6 I want to add or modify information ¿what are the steps that I need to do?

- 1. First, you need to create an account (2.2).
- 2. In addition, it is necessary to have the resources appears in section 1.2.
- 3. Once you have the resources and you have received the email, you need to create a new branch in GitHub, named with your main contribution. For example, create a branch with the name "Documentation".

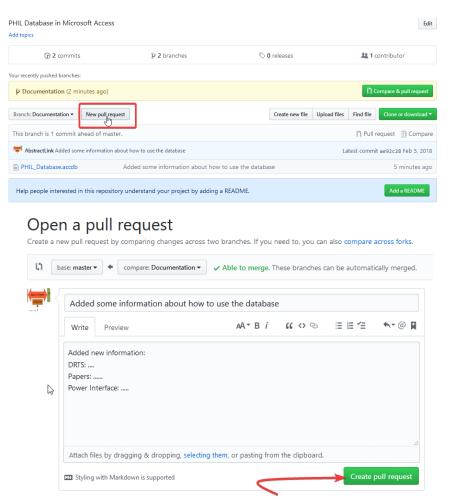


- 4. Open your local file "PHIL_Database.accdb" and make all the changes that you need to do.
- 5. Once you have finished, do a commit with your new changes using ""<u>GitHub desktop</u>". First, add a summary of the changes and click the bottom "Commit to …", in this case, "Commit to Documentation" and update it.



6. If you want to add this new information into "master" branch, which is the main branch, click in "New pull request": "Pull requests let you tell others about changes you've pushed to a repository on GitHub. Once a pull request is opened, you can discuss and review the potential changes with collaborators and add follow-up commits before the changes are merged into the repository."¹

¹ https://help.github.com/articles/about-pull-requests/



7. If there are no problems with the new commit, administrators will merge pull request. This will add the new information into the master branch.