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# Koha Database Update

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This document present the proposed new method to updatedatabase, as proposed in patches submitted on bug 7167.

It relies on two ideas :

- the current numbering system will be kept as long as he's needed. He is totally independant from the new system.
- The new system is de-linearized : patches can be applied in non increasing order. That will help a lot developers and users to detect any problem. Database updates results are stored in a specific mySQL table, and can be retrieved at anytime.

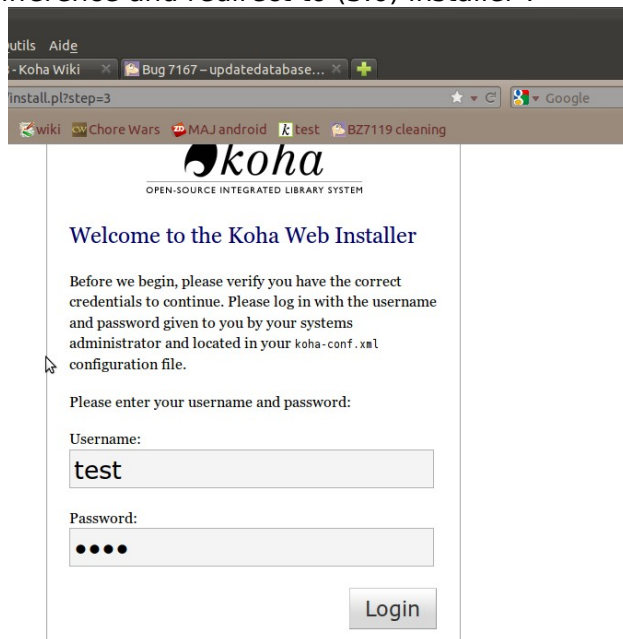
## Case 1 : current (3.6) method

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kohaversion.pl contains a number that is lower than the systempreference(« Version ») (this is the current 3.6 behaviour).

To test, just edit \$KOHA/kohaversion.pl file and modify the number inside to a higher number.

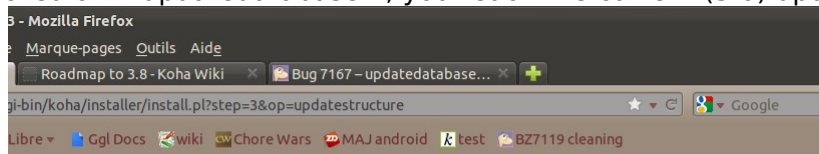
Mainpage detect the difference and redirect to (3.6) installer :



Once you've entered the kohaadmin password, you reach the updatedatabase page, 3.6 version :



When you're clicked on « updatedatabase », you reach the current (3.6) update done page :



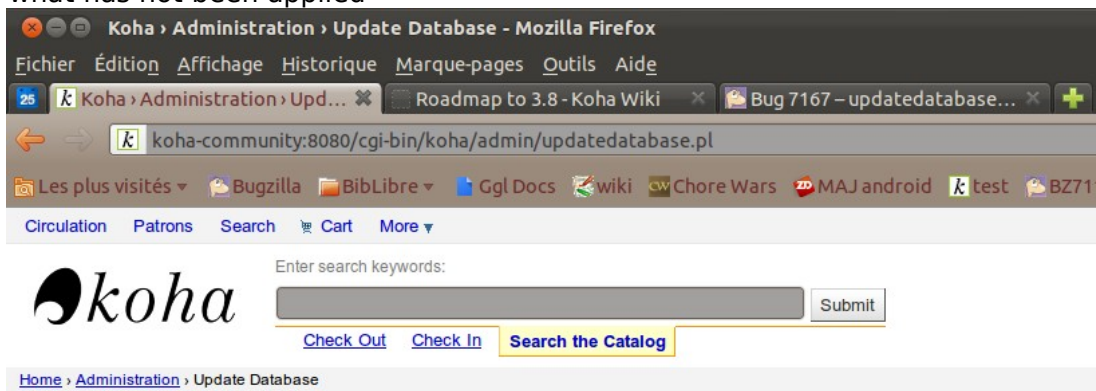
### Updating database structure

Everything went OK, update done.

[Continue to log in to Koha](#)

You're then redirected to the standard connect page.

Case 2 : there is a file in installer/data/mysql/version. (.sql or .pl) that has not been applied on the database. When you connect, you automatically reach admin/updatedatabase, that show what has not been applied



### Update Database

3 versions are availables [ [UPDATE](#) ]

Version	Comments	Status	Launch	Details
3.07.01.0001		Unknown	Available <a href="#">[Execute]</a> <a href="#">[Show details]</a>	
3.07.01.0002		Unknown	Available <a href="#">[Execute]</a> <a href="#">[Show details]</a>	
3.07.01.0003		Unknown	Available <a href="#">[Execute]</a> <a href="#">[Show details]</a>	

You can update everything by clicking [ UPDATE ] You can also apply the updates one by one, even if there should be no reason to do so.

Clicking on [ UPDATE ] in the previous example will result in 0001 and 0002 be applied and 0003 failing (because 0003 tries to create a FOO table already created by 0001) :

Report :

- 3.07.01.0001 – OK;
- 3.07.01.0002 – OK;
- 3.07.01.0003 – Error : 1050 => Table 'FOO' already exists;

Your database is up to date

Version	Comments	Status	Launch	Details
3.07.01.0001		OK	Already executed	<a href="#">Show details</a>
3.07.01.0002		OK	Already executed	<a href="#">Show details</a>
3.07.01.0003		Failed	Already executed	<a href="#">Show details</a>

clicking on « show details » on the right of the 0003 update result show the details of the error, and let you mark the update as executed anyway :

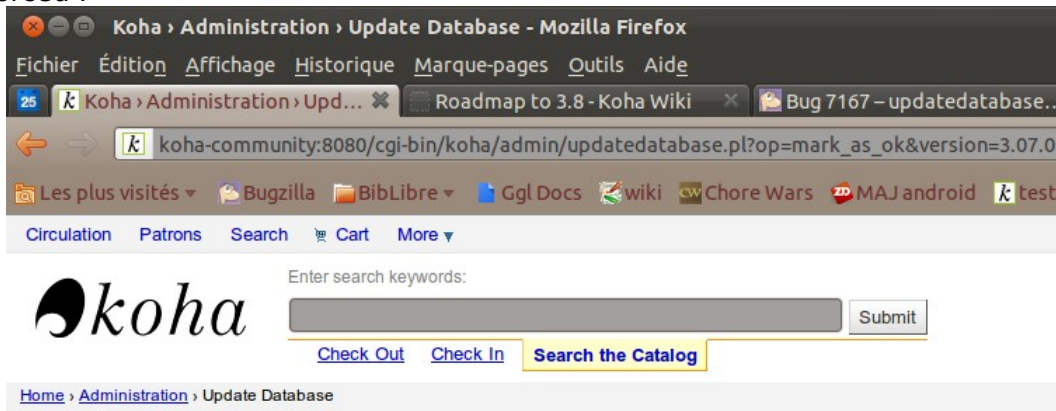
Report :

- 3.07.01.0001 – OK;
- 3.07.01.0002 – OK;
- 3.07.01.0003 – Error : 1050 => Table 'FOO' already exists;

Your database is up to date

Version	Comments	Status	Launch	Details
3.07.01.0001		OK	Already executed	<a href="#">Show details</a>
3.07.01.0002		OK	Already executed	<a href="#">Show details</a>
3.07.01.0003		Failed	Already executed	Queries : • CREATE TABLE FOO ( `version` varchar(32) DEFAULT NULL) Status : Failed <a href="#">Mark as OK</a> Errors : • Error : 1050 => Table 'FOO' already exists <a href="#">hide details</a>

After clicking on [Mark as OK], you'll see that everything has been applied, but the 0003 has been forced :



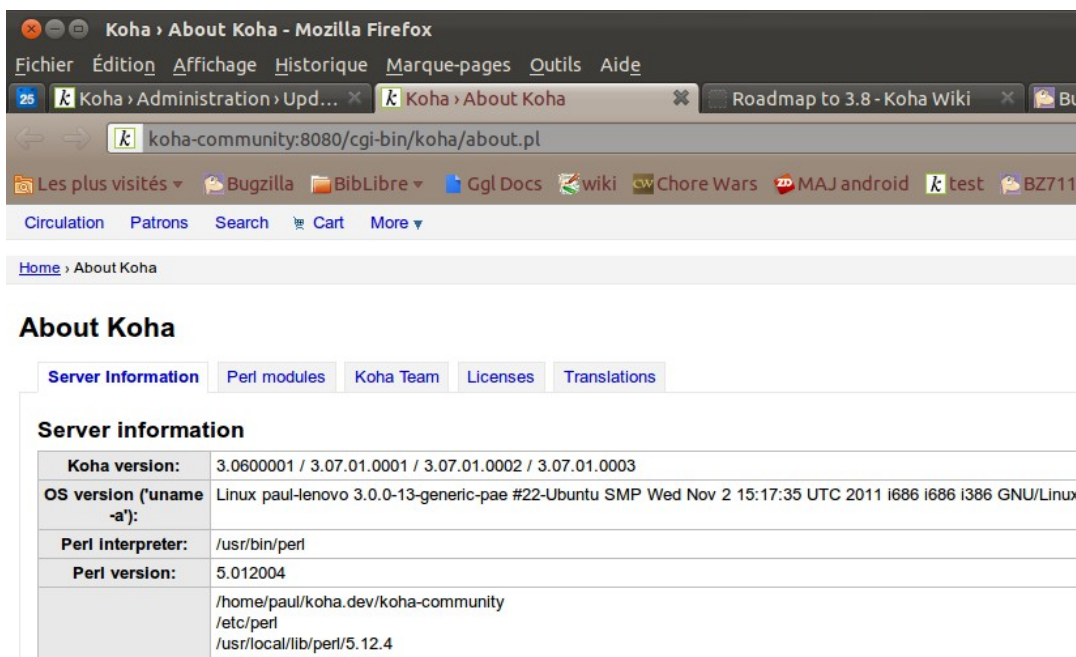
## Update Database

Your database is up to date

Version	Comments	Status	Launch	Details
3.07.01.0001		OK	Already executed	<a href="#">Show details</a>
3.07.01.0002		OK	Already executed	<a href="#">Show details</a>
3.07.01.0003		OK [FORCED]	Already executed	<a href="#">Show details</a>

When you do [execute] an update from the new system, his number is recorded, independantly from the systempreference (« Version »). Applied patches are stored in the updatedb\_report.

If you go to the about page, you'll see, in the version line the 3.6 number and all patches applied from the new system.



Once you've tested and want to revert those updates, just enter :

```
truncate updatedb_query;truncate updatedb_error;truncate updatedb_report; DROP TABLE FOO;DROP TABLE FOOBIS;
```

The 3 truncate will remove the information about the patch being applied. The two DROP TABLE remove the 0001 and 0002 content, that are just for testing.