

## Core - Bug # 66671

<b>Status:</b>	Closed	<b>Priority:</b>	Should have
<b>Author:</b>	Xavier Perseguers	<b>Category:</b>	DBAL
<b>Created:</b>	2015-04-30	<b>Assigned To:</b>	
<b>Updated:</b>	2015-06-18	<b>Due date:</b>	
<b>TYPO3 Version:</b>	6.2		
<b>PHP Version:</b>			
<b>Complexity:</b>	hard		
<b>Is Regression:</b>	No		
<b>Sprint Focus:</b>			
<b>Subject:</b>	Install Tool should show the ALTER TABLE instead of CREATE TABLE		
<b>Description</b>			
<p>In TYPO3 4.5 many tables where not fully "conform" with the ext_tables.sql definition (various minor mixup due to other field types) but having the ALTER TABLE statements helped to know whether one had to worry about it or not.</p> <p>In TYPO3 6.2 only the CREATE TABLE statement is shown and it is</p> <ul style="list-style-type: none"><li>- hard to know what is missing (full table, only a few fields, only mixup in field types)</li></ul>			
<b>Related issues:</b>			
related to Core - Bug # 66691: Cannot clear all cache in Install Tool		<b>Needs Feedback</b>	<b>2015-04-30</b>
related to Core - Bug # 67286: InstallTool Database Compare shows all tables ...		<b>Resolved</b>	<b>2015-06-03</b>

### History

#### #1 - 2015-04-30 10:49 - Xavier Perseguers

Hint: when checking a single CREATE TABLE statement in Install Tool which then succeeds, the result screen properly shows a list of additional ALTER TABLE statements that should be executed.

#### #2 - 2015-05-07 15:00 - Xavier Perseguers

- Complexity set to hard

OK, analyze:

We miss a call to `->sql_pconnect()` or `->connectDB()` in Install Tool somehow because this call will properly instantiate the `->handlerInstance` and thus lead to have the `_DEFAULT` instance uninitialized.

This missing call is originating from

- `\TYPO3\CMS\Core\Core\Bootstrap::initializeTypo3DbGlobal()` which is called from
- `\TYPO3\CMS\Install\Controller\Action\AbstractAction::loadExtLocalconfDatabaseAndExtTables()`

Now, within DBAL's method `sql_select_db()`, we miss the check of `->isConnected()` at the beginning, something that we have when using Core's overridden method.

If we add the call:

```
if (!$this->isConnected()) {
```

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```
$this->connectDB();  
}
```

we have a recursion to `->sql_select_db()` because `\TYPO3\CMS\Dbal\Database\DatabaseConnection::isConnected()` returns `FALSE` since `$this->lastHandlerKey` is still to its default (empty) value (see class definition).

BUT, if we set the default value to `"_DEFAULT"`, this fixes the bug, if we are already in the main windows of the Install Tool (initial steps have passed) but it crashes the Install Tool with:

TYPO3 Fatal Error: No database selected!

when opening the Install Tool for the first time, e.g., by clicking the corresponding module in TYPO3 Backend.

This is caused by `\TYPO3\CMS\Dbal\Database\DatabaseConnection::handler_init()` not fully initializing `$this->handlerCfg[$handlerKey]` (beginning of the method). More specifically the 'type' is still set to "native", which only works if DBAL is configured with a 'mysqli' backend, so not in a real use of DBAL (e.g., with MSSQL).

This in turn, happens because prior to the change, DBAL's `sql_select_db()` did not call `->connectDB()`. But not having this call causes another bug in Install Tool, namely that opening `http://mywebsite/typo3/install` always blocks on the database selection (call to `getDatabaseList()` which calls `->admin_get_dbs()`, again as "native" driver has not been replaced. Only (current) way is to manually trick the URL to go to the Tool controller.

## Dirty hack

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Merge "type" and "driverOptions" when initializing `->handlerCfg['_DEFAULT']` from `$this->conf` when `$this->databaseName` is not empty:

```
$this->handlerCfg[$handlerKey]['type'] = $this->conf['handlerCfg'][$handlerKey]['type'];  
// same for driverOptions
```

### #3 - 2015-06-15 13:51 - Morton Jonuschat

I think this has been solved in #67286

### #4 - 2015-06-15 13:51 - Morton Jonuschat

- Status changed from New to Needs Feedback

### #5 - 2015-06-15 13:59 - Tizian Schmidlin

I can confirm that this looks like the solution!

Thanks Morton!

### #6 - 2015-06-18 11:42 - Alexander Opitz

- Status changed from Needs Feedback to Closed

Thanks for your feedback.