

TYPO3 Core - Bug #82023

Install Tool DB Analyzer tries to change all VARCHAR fields

2017-08-01 15:37 - Viktor Livakivskiy

Status:	Rejected	Start date:	2017-08-01
Priority:	Must have	Due date:	
Assignee:		% Done:	0%
Category:	Database API (Doctrine DBAL)	Estimated time:	0.00 hour
Target version:		Complexity:	
TYPO3 Version:	8	Is Regression:	
PHP Version:	7.1	Sprint Focus:	
Tags:			

Description

Hi developers,

I'm experiencing an issue with DB Migrations in Install Tool - the analyzer complains every time about all varchar fields. E.g.:

```
ALTER TABLE `be_groups` CHANGE `title` `title` VARCHAR(50) DEFAULT '' NOT NULL
Current value: title VARCHAR(50) DEFAULT '' NOT NULL COLLATE utf8_unicode_ci
ALTER TABLE `be_groups` CHANGE `allowed_languages` `allowed_languages` VARCHAR(255) DEFAULT '' NOT NULL
Current value: allowed_languages VARCHAR(255) DEFAULT '' NOT NULL COLLATE utf8_unicode_ci
ALTER TABLE `be_groups` CHANGE `pagetypes_select` `pagetypes_select` VARCHAR(255) DEFAULT '' NOT NULL
Current value: pagetypes_select VARCHAR(255) DEFAULT '' NOT NULL COLLATE utf8_unicode_ci
...
```

What I've also noticed: the reported DEFAULT value in DB consists of 4 quotes: "", while proposed one contains two: ""
Altering table doesn't change anything, and I'm quite unsure how to fix this.

TYPO3 8.7.4
PHP 7.1
MariaDB 10.2.7

Related issues:

Has duplicate TYPO3 Core - Bug #83046: sys_file_collection and tt_content cou...

Closed

2017-11-20

History

#1 - 2017-08-17 16:24 - Hans Höchtl

Same here, I posted it on Stackoverflow: [\[\[https://stackoverflow.com/questions/45737730/typo3-lists-all-tables-in-db-compare-because-of-collate\]\]](https://stackoverflow.com/questions/45737730/typo3-lists-all-tables-in-db-compare-because-of-collate).

I think it could be the collation, not the quotes.

#2 - 2017-09-04 11:35 - Aleksandar Dimitrov

I was able to reproduce this with 8.7.4 and 8.7.3, and mariadb 10.2.x and 5.x, on clean installs via the Install tool.

My guess is that a strict string comparison of "" with "" causes the problem.

I think the serialisation of the 'original' column definition is buggy. Note the following case:

```
ALTER TABLE `tt_content` CHANGE `table_caption` `table_caption` VARCHAR(255) DEFAULT NULL
Current value: table_caption VARCHAR(255) DEFAULT 'NULL' COLLATE utf8_unicode_ci
```

'NULL' is in quotes here, and most definitely should **not** be, as NULL and 'NULL' are very different things for any SQL server. Some aggressive string escaping maybe?

#3 - 2017-09-25 04:20 - Morton Jonuschat

- Status changed from New to On Hold

MariaDB implemented a change to the Information Schema COLUMNS table which changed the output format compared to the original (Oracle) MySQL: <https://jira.mariadb.org/browse/MDEV-13132>

There is ongoing work in the upstream Doctrine DBAL repository on how to fix this: <https://github.com/doctrine/dbal/pull/2825>

At this time TYPO3 is not compatible with MariaDB >= 10.2.7 and given that the fix is happening deeply in the upstream Doctrine DBAL stack there is little we can do to work around it at this point in time.

#4 - 2017-10-26 10:22 - Benni Mack

- Status changed from On Hold to Rejected

So, the only thing TYPO3 can do, is wait for the Doctrine DBAL fix, and once this is done we can upgrade our dependency.

#5 - 2017-11-20 14:13 - Georg Ringer

- Has duplicate Bug #83046: `sys_file_collection` and `tt_content` could not be created added

#6 - 2017-11-20 14:17 - Georg Ringer

the PR <https://github.com/doctrine/dbal/pull/2825> has been merged yesterday, so lets see when a release is done

#7 - 2018-08-21 21:34 - Thomas Böhm

Has this problem been solved? I just installed a fresh typo3 8.7.19 on mariadb 10.2.17 and still have this problem. Or is it solved in mariadb 10.3? Downgrading to 10.1 is not an easy option for me as there are other databases already on that server.

#8 - 2018-08-23 18:57 - Jan Kiesewetter

TYPO3 8.7 has dbal 2.5.10 locked atm.
https://github.com/TYPO3/TYPO3.CMS/blob/TYPO3_8-7/composer.lock#L339-L345
and installs maximum v2.5.13.

MariaDB 10.2 support came with doctrine/dbal 2.7.0
<https://github.com/doctrine/dbal/releases/tag/v2.7.0>

So this is fixed for master and TYPO3 ^9.3 but not for 8.7.

#9 - 2018-10-17 09:16 - Georg Ringer

Some final words: This won't be solved as doctrine dbal 2.7.0 requires php 7.1 which doesn't fit to the min. requirements of TYPO3 8.7 which got php 7.0.

#10 - 2018-10-18 16:19 - Jan Kiesewetter

As PHP 7.0 is EOL by 3 Dec 2018 <http://php.net/supported-versions.php>, maybe TYPO3 8.7 could raise requirements after that?

#11 - 2019-01-03 15:54 - Thomas Oliver Moll

- Priority changed from Should have to Must have

Jan Kiesewetter wrote:

As PHP 7.0 is EOL by 3 Dec 2018 <http://php.net/supported-versions.php>, maybe TYPO3 8.7 could raise requirements after that?

This Problem is still present with PHP 7.0 dead for a month now and TYPO3 8.7 still in support for quite some time clinging to the PHP 7.0 requirement doesn't make much sense now.

#12 - 2019-08-20 05:24 - Arne Bracht Bracht

Hello,

I changed `/vendor/doctrine/dbal` with the dbal 2.7.2 from here: <https://www.doctrine-project.org/projects/dbal/2.7.html> within TYPO3 8.7. I think that it worked. Should it be so simple?

I hope it could be integrated in the next TYPO3 8.7.x update. Yes I know it change the PHP requirements from PHP 7.0 to PHP 7.1. But why not? PHP 7.0 is EOL by 3 Dec 2018. And so TYPO3 8.7.27 <= php 7.0 and TYPO3 8.7.28 >= PHP 7.1 should be easily to make a notice in the requirements list and update notice.

Thanks

#13 - 2019-09-04 09:52 - Lioh Moeller

Why has this issue been marked as 'rejected'? We still face it with current typo3 version 9.5.9 and still 8.7.x in combination with MariaDB 10.3.

#14 - 2020-04-08 11:33 - Pascal Naujoks

- PHP Version changed from 7.1 to 7.4

Also exists with PHP Version 7.4.4 and 10.4.12-MariaDB-1:10.4.12+maria~stretch on TYPO3 8.7.31

Example of fields that want to be updated but can't:

```
ALTER TABLE `be_groups` CHANGE `title` `title` VARCHAR(50) DEFAULT '' NOT NULL
Current value: title VARCHAR(50) DEFAULT '' NOT NULL COLLATE utf8_general_ci
ALTER TABLE `be_groups` CHANGE `allowed_languages` `allowed_languages` VARCHAR(255) DEFAULT '' NOT NULL
Current value: allowed_languages VARCHAR(255) DEFAULT '' NOT NULL COLLATE utf8_general_ci
ALTER TABLE `be_groups` CHANGE `pagetypes_select` `pagetypes_select` VARCHAR(255) DEFAULT '' NOT NULL
Current value: pagetypes_select VARCHAR(255) DEFAULT '' NOT NULL COLLATE utf8_general_ci
ALTER TABLE `be_groups` CHANGE `description` `description` VARCHAR(2000) DEFAULT '' NOT NULL
Current value: description VARCHAR(2000) DEFAULT '' NOT NULL COLLATE utf8_general_ci
...
```

#15 - 2020-04-22 15:13 - Richard no-lastname-given

- PHP Version changed from 7.4 to 7.2

#16 - 2020-04-22 15:13 - Richard no-lastname-given

- PHP Version changed from 7.2 to 7.1

#17 - 2020-04-22 15:14 - Richard no-lastname-given

I can confirm this issue on TYPO3 CMS 8.7.32, PHP 7.2 and MariaDB 10.2.8. My client bought ELTS for security updates. Buying ELTS for security reasons and at the same time not being able to update to MariaDB 10.2 is an issue because support for MariaDB 10.1 will be dropped in October 2020.

#18 - 2020-08-17 11:44 - Tim Spiekerkötter

Hey everyone,

is there anything we can do in this scenario? We have this problem with a ELTS installation as well. SLES MariaDB 10.2 and PHP 7.2.

Are there any other known problems with MariaDB 10.2 and TYPO3 8.7? I am thinking about building a workaround into the install tool for this exact case, has anyone done this before?

#19 - 2020-10-10 00:36 - Yuriy Panchenko

Tim Spiekerkötter wrote:

Hey everyone,

is there anything we can do in this scenario? We have this problem with a ELTS installation as well. SLES MariaDB 10.2 and PHP 7.2.

Are there any other known problems with MariaDB 10.2 and TYPO3 8.7? I am thinking about building a workaround into the install tool for this exact case, has anyone done this before?

I was migrating the database to typo3 v10 (php7.4, mysql 5.7). I had an error with the field:

```
`seo_title` varchar (255) COLLATE utf8mb4_unicode_ci NOT NULL DEFAULT ',
I did this and the error went away:
1) Made a new empty field
`seo_title_temp` varchar (255) COLLATE utf8mb4_unicode_ci NOT NULL DEFAULT ',
2) Copied information excluding NULL
UPDATE `pages` SET `seo_title_temp` = `seo_title` WHERE `seo_title` IS NOT NULL
3) Removed `seo_title`
4) Renamed `seo_title_temp` to `seo_title`
```

There is no more error)))

#20 - 2021-02-12 12:19 - Tomas Norre Mikkelsen

I'm facing this issue with:

TYPO3 8.7 ELTS
MariaDB: 10.1.x
PHP: 7.2.x