

TYPO3 Core - Bug #94709

TypeError for SQLite in DB Compare

2021-08-04 12:02 - Daniel Siepmann

Status:	Closed	Start date:	2021-08-04
Priority:	Should have	Due date:	
Assignee:	Daniel Siepmann	% Done:	100%
Category:	Install Tool	Estimated time:	0.00 hour
Target version:	11.4	Complexity:	
TYPO3 Version:	11	Is Regression:	
PHP Version:	7.4	Sprint Focus:	
Tags:			

Description

The following error is displayed to the user within Backend Maintenance module when doing a DB compare with sqlite database. I've an old v10 updated to current master and trying to execute db compare.

```
(1/1) TypeError
```

```
Argument 2 passed to Doctrine\DBAL\Connection::handleExceptionDuringQuery() must be of the type string, array given, called in /home/daniels/Projects/own/website-typo3/project/vendor/doctrine/dbal/lib/Doctrine/DBAL/Connection.php on line 1524
```

The issue seems to be within `TYPO3\CMS\Core\Database\Schema\SchemaMigrator::migrate` which generates arrays instead of strings of SQL for SQLite.

```
$updateSuggestionsPerConnection = array_merge_recursive(
    $this->getUpdateSuggestions($statements),
    $this->getUpdateSuggestions($statements, true)
);
```

Contains the issue, some SQL exists in both and is combined as new array containing duplicates.

```
at Doctrine\DBAL\Connection->handleExceptionDuringQuery()
in /home/daniels/Projects/own/website-typo3/project/vendor/doctrine/dbal/lib/Doctrine/DBAL/Connection.php line 1524
```

```
        $result = $connection->exec($sql);
    }
} catch (Throwable $e) {
    $this->handleExceptionDuringQuery(
        $e,
        $sql,
        $params,
        $types
    );
}
```

```
at Doctrine\DBAL\Connection->executeStatement()
in /home/daniels/Projects/own/website-typo3/project/vendor/doctrine/dbal/lib/Doctrine/DBAL/Connection.php line 1473
```

```
        'https://github.com/doctrine/dbal/pull/4163',
        'Connection::executeUpdate() is deprecated, use Connection::executeStatement() instead
    ');
    );
```

```
    return $this->executeStatement($sql, $params, $types);
}
```

```
/**
```

```

* Executes an SQL statement with the given parameters and returns the number of affected rows
.

at Doctrine\DBAL\Connection->executeUpdate()
in /home/daniels/Projects/own/website-typo3/project/public/typo3/sysex/core/Classes/Database/Schema/SchemaMigrator.php line 142

    $connection = $connectionPool->getConnectionByName($connectionName);
    foreach ($statementsToExecute as $hash => $statement) {
        try {
            $connection->executeUpdate($statement);
        } catch (DBALException $e) {
            $result[$hash] = $e->getPrevious()->getMessage();
        }
    }
}

```

Related issues:

Related to TYPO3 Core - Bug #94710: Database Compare "Change fields" with SQL...	Under Review 2021-08-04
Related to TYPO3 Core - Bug #90754: Database Compare with SQLite can not be f...	Closed 2020-03-13

Associated revisions

Revision ff06d679 - 2021-08-12 16:10 - Simon Gilli

[BUGFIX] Ensure correct merge of update suggestions

The calls to the `getUpdateSuggestions()` method may result in the same change is added twice to the same hash. Using `array_replace_recursive()` ensures the same two suggestions are merged correctly and not as array of strings like done by the former implementation.

This is important for sqlite which creates multiple statements for one 'job' sometimes.

Resolves: #94709
Releases: master
Change-Id: I1cec5977215559b17004d0f32b01fec039f09992
Reviewed-on: <https://review.typo3.org/c/Packages/TYPO3.CMS/+70201>
Tested-by: Daniel Siepmann <coding@daniel-siepmann.de>
Tested-by: core-ci <typo3@b13.com>
Tested-by: Christian Kuhn <lolli@schwarzbu.ch>
Reviewed-by: Daniel Siepmann <coding@daniel-siepmann.de>
Reviewed-by: Christian Kuhn <lolli@schwarzbu.ch>

History

#1 - 2021-08-04 12:07 - Daniel Siepmann

- Description updated

#2 - 2021-08-04 12:11 - Daniel Siepmann

- Description updated

#3 - 2021-08-04 12:13 - Daniel Siepmann

- Related to Bug #94710: Database Compare "Change fields" with SQLite shows red error added

#4 - 2021-08-04 12:14 - Daniel Siepmann

Possible hotfix:

```

diff --git a/typo3/sysex/core/Classes/Database/Schema/SchemaMigrator.php b/typo3/sysex/core/Classes/Database/Schema/SchemaMigrator.php
index 6bd668ea51..618ebd43ae 100644
--- a/typo3/sysex/core/Classes/Database/Schema/SchemaMigrator.php
+++ b/typo3/sysex/core/Classes/Database/Schema/SchemaMigrator.php
@@ -138,6 +138,9 @@ class SchemaMigrator
    $connection = $connectionPool->getConnectionByName($connectionName);
    foreach ($statementsToExecute as $hash => $statement) {
        try {
+           if (is_array($statement)) {
+               $statement = $statement[0];

```

```
+         }
           $connection->executeUpdate($statement);
       } catch (DBALException $e) {
           $result[$hash] = $e->getPrevious()->getMessage();
```

Which is dirty and doesn't fix the issue, just the consequence.

#5 - 2021-08-04 15:10 - Daniel Siepmann

- Related to Bug #90754: Database Compare with SQLite can not be finished added

#6 - 2021-08-04 17:31 - Oliver Hader

- Status changed from New to Accepted

#7 - 2021-08-04 17:32 - Oliver Hader

Is this misbehavior present in TYPO3 v10 as well (I guess it is not)?

#8 - 2021-08-05 14:11 - Gerrit Code Review

- Status changed from Accepted to Under Review

Patch set 2 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at <https://review.typo3.org/c/Packages/TYPO3.CMS/+70201>

#9 - 2021-08-05 14:13 - Simon Gilli

@olly this behavior was since the introduction of the SchemaMigrator 5 years ago. My patch should fix this issue.

#10 - 2021-08-05 14:56 - Daniel Siepmann

Never encountered the issue while using v10 with sqlite.

#11 - 2021-08-12 15:18 - Gerrit Code Review

Patch set 3 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at <https://review.typo3.org/c/Packages/TYPO3.CMS/+70201>

#12 - 2021-08-12 15:32 - Gerrit Code Review

Patch set 4 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at <https://review.typo3.org/c/Packages/TYPO3.CMS/+70201>

#13 - 2021-08-12 15:45 - Gerrit Code Review

Patch set 5 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at <https://review.typo3.org/c/Packages/TYPO3.CMS/+70201>

#14 - 2021-08-12 16:25 - Simon Gilli

- Status changed from Under Review to Resolved

- % Done changed from 0 to 100

Applied in changeset [ff06d679850fc651da4cd562c916bd8f4d72d2f8](https://review.typo3.org/c/Packages/TYPO3.CMS/+70201).

#15 - 2021-09-07 07:32 - Benni Mack

- Status changed from Resolved to Closed