Core - Feature # 67301

Status:	Resolved	**Priority:**	Should have
Author:	Morton Jonuschat	**Category:**	Install Tool
Created:	2015-06-05	**Assigned To:**	Morton Jonuschat
Updated:	2015-07-20	**Due date:**	
PHP Version:	5.6		
Complexity:			
Sprint Focus:			
Subject:	Don't suggest database alterations for functionally equivalent field types with DBAL		

Description
When using the InstallTool with the DBAL extension a lot of database alterations will be suggested that can never be resolved due to MySQL specific field types. When the extension DBAL is loaded accept field types that only differ in their storage space requirements as long as they are functionally equivalent. Example: TINYTEXT -> VARCHAR is OK TINYINT   -> SMALLINT, INTEGER, BIGINT is OK INTEGER -> BIGINT is OK MEDIUMINT -> INTEGER is OK MEDIUMINT -> SMALLINT is NOT OK Especially integer types which have lower min/max values should still be migrated. Also ignore length information for INT fields as this information is purely for display purposes and doesn't change anything in regard to the values that can be stored in the field. Also the display width is ignored when the value exceeds it.

Related issues:			
related to Core - Epic # 64459: Make TYPO3 run on PostgreSQL		New	2015-01-23
blocked by Core - Bug # 67445: ALTER TABLE ADD KEY / DROP KEY unsupported		**Resolved**	**2015-06-14**

Associated revisions

Revision f9205842 - 2015-07-20 18:55 - Morton Jonuschat

[TASK] dbal: skip update suggestions for equivalent fields in Install Tool

Make the Install Tool / Database Upgrade Wizard ignore database
alterations for functionally equivalent field types / indexes when
used with DBAL. This is required as some special MySQL native fields
like TINYTEXT, TINY- and MEDIUMINT have no matching types and will
get converted by ADOdb to a type that is able to store longer/bigger
values.

This patch makes the SqlSchemaMigrationService check with the DBAL
Driver which field type/index definition will be used and updates
the field type requested by the database compare to reflect the actual
field type for the DBMS.

Resolves: #67301
Releases: master
Change-Id: I7f28ab38b66a224344069c42744e75bf63e222e6

Reviewed-on: http://review.typo3.org/40455

Reviewed-by: Christian Kuhn <lolli@schwarzbu.ch>

Tested-by: Christian Kuhn <lolli@schwarzbu.ch>

Reviewed-by: Andreas Fernandez <typo3@scripting-base.de>

Tested-by: Andreas Fernandez <typo3@scripting-base.de>

History

#1 - 2015-06-05 12:42 - Morton Jonuschat

- Assigned To set to Morton Jonuschat

#2 - 2015-06-15 18:05 - Morton Jonuschat

- Status changed from New to In Progress

Waiting for related patches to get review/merged as this depends on a lot of other bugfixes

#3 - 2015-06-18 22:18 - Gerrit Code Review

- Status changed from In Progress to Under Review

Patch set 1 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at http://review.typo3.org/40455

#4 - 2015-06-18 23:23 - Gerrit Code Review

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

It is available at http://review.typo3.org/40455

#5 - 2015-07-17 11:05 - 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 http://review.typo3.org/40455

#6 - 2015-07-18 15:49 - 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 http://review.typo3.org/40455

#7 - 2015-07-20 15:31 - 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 http://review.typo3.org/40455

#8 - 2015-07-20 16:05 - Gerrit Code Review

Patch set 6 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at http://review.typo3.org/40455

#9 - 2015-07-20 18:43 - Gerrit Code Review

Patch set 7 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/40455

#10 - 2015-07-20 19:00 - Morton Jonuschat

- Status changed from Under Review to Resolved

- % Done changed from 0 to 100

Applied in changeset commit:f9205842f168839b4d37e63dd0db55a6575cf555.