Core - Bug # 67290

 Status:
 Resolved
 Priority:
 Should have

 Author:
 Morton Jonuschat
 Category:
 DBAL

 Created:
 2015-06-04
 Assigned To:

 Updated:
 2015-06-19
 Due date:

TYPO3 Version: 7
PHP Version: 5.6

Complexity:

Is Regression: No Sprint Focus:

Subject: Translation of MySQL field types to other databases is incorrect

Description

MySQL supports an extension for optionally specifying the display width of integer data types in parentheses following the base keyword for the type. For example, INT specifies an INT with a display width of four digits. This optional display width may be used by applications to display integer values having a width less than the width specified for the column by left-padding them with spaces. (That is, this width is present in the metadata returned with result sets. Whether it is used or not is up to the application.)

The display width does not constrain the range of values that can be stored in the column. Nor does it prevent values wider than the column display width from being displayed correctly. For example, a column specified as SMALLINT has the usual SMALLINT range of -32768 to 32767, and values outside the range permitted by three digits are displayed in full using more than three digits.

Thus the correct translation for INT would be INT / INTEGER / INT4.

More discrepancies show up with other field types, resulting in the install tool database compare showing changes that are never going to get resolved.

TINYTEXT will be created as VARCHAR and reported as VARCHAR TEXT and MEDIUMTEXT will be created/reported as LONGTEXT

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TYPO3: 7.3-dev

DBMS: PostgreSQL 9.4

Related issues:

related to Core - Epic # 64459: Make TYPO3 run on PostgreSQL

related to Core - Task # 67297: Move MySQL / DBMS field type translation into...

Resolved

2015-06-04

related to Core - Task # 67626: Document "DBMS specific conversion between Me...

Resolved

2015-06-19

Associated revisions

Revision b1059192 - 2015-06-08 09:10 - Morton Jonuschat

[TASK] dbal: Move MySQL / DBMS field type translation into DBMS Specifics

The function used by the DBAL provide a very coarse and generic translations between the ADdb meta types and the MySQL native types. This results in ambiguities that can't properly be resolved and leads to changes in the install tool schema migration that can never be resolved.

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The default DBMS specifics provided resemble the current output of the functions and don't result in any changes to the DBMS schema.

Resolves: #67297 Related: #67290 Related: #67288 Releases: master

Change-Id: Id26a897c7f43520edd188e0bd2ddb158507c8049

Reviewed-on: http://review.typo3.org/39954

Reviewed-by: Markus Klein < markus.klein@typo3.org>
Tested-by: Markus Klein < markus.klein@typo3.org>

Reviewed-by: Andreas Fernandez < typo3@scripting-base.de <a href="mai

Revision 873c2e60 - 2015-06-19 11:43 - Morton Jonuschat

[FEATURE] dbal: DBMS specific conversion between Meta/MySQL field types

This patch changes the implementation of the methods that convert between ADOdb meta field types and MySQL native field types to allow overriding the conversion per data type.

The PostgresSpecifics provide better matching of BLOB, SERIAL, DOUBLE and INTEGER types.

Resolves: #67290 Releases: master

Change-Id: leda2a2a26d411b031c2db96821d85e21b2ebb037

Reviewed-on: http://review.typo3.org/40138

Reviewed-by: Markus Klein < markus.klein@typo3.org>
Tested-by: Markus Klein < markus.klein@typo3.org>

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

Revision cf701bd8 - 2015-06-19 14:44 - Morton Jonuschat

[FOLLOWUP] Document "DBMS specific conversion between Meta/MySQL field types"

Document the changes in mapping field types and the impact for sites running PostgreSQL.

Resolves: #67626 Related: #67290 Releases: master

Change-Id: le7333e42699c50adc513d490ff25774d70087037

Reviewed-on: http://review.typo3.org/40468

Reviewed-by: Andreas Fernandez < typo3@scripting-base.de >
Tested-by: Andreas Fernandez < typo3@scripting-base.de >
Reviewed-by: Xavier Perseguers < xavier@typo3.org >
Tested-by: Xavier Perseguers < xavier@typo3.org >

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History

#1 - 2015-06-09 21:20 - Gerrit Code Review

- Status changed from New 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/40138

#2 - 2015-06-10 19:09 - 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/40138

#3 - 2015-06-10 21:21 - 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/40138

#4 - 2015-06-14 21:43 - 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/40138

#5 - 2015-06-14 21:46 - 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/40138

#6 - 2015-06-19 12:01 - Morton Jonuschat

- Status changed from Under Review to Resolved
- % Done changed from 0 to 100

Applied in changeset commit:873c2e60c4b8e0d27f26d53a91f6f0129f323593.

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