

Core - Task # 55360

Epic # 55070 (Accepted): Workpackages

Epic # 55065 (New): WP: Overall System Performance (Backend and Frontend)

Epic # 55656 (Accepted): Optimize overall Extbase performance

Story # 55168 (Accepted): Optimize Extbase generic persistence

| | | | |
|--|---|---------------------|--------------|
| Status: | Resolved | Priority: | Should have |
| Author: | Felix Oertel | Category: | Extbase |
| Created: | 2014-01-27 | Assigned To: | Felix Oertel |
| Updated: | 2014-03-24 | Due date: | |
| TYPO3 Version: | 6.2 | | |
| PHP Version: | | | |
| Complexity: | nightmare | | |
| Sprint Focus: | | | |
| Subject: | Extbase: use preparedStatement in generic persistence | | |
| Description | at the moment we build the query over and over again. we should use prepared statements, as offered in the TYPO3 api from 4.5 | | |
| Subtasks: | | | |
| Task # 57067: Follow-Up re-use preparedStatement object | | | Accepted |
| Task # 57254: Fix usage of own prepared statement object in \$query->statement | | | Resolved |
| Related issues: | | | |
| precedes Core - Task # 55167: Extbase: avoid parseQuery() / buildQuery() to b... | Resolved | 2014-03-20 | 2014-03-20 |

Associated revisions

Revision ab2dc4e5 - 2014-03-12 14:08 - Felix Oertel

[TASK] Use prepared statements in generic persistence

While Typo3DbBackend claims to be the glue between Extbase and TYPO3, it hardly uses the TYPO3 DB API.

This patch enhances getObjectData- and getObjectCountByQuery - the main methods used when dealing with domain models through a repository - to use the TYPO3 DB API. In conjunction this enables Extbase to use the preparedStatement introduced in TYPO3 4.5.

Because prepared queries might not be desirable in all circumstances, they are disabled by default. They can be enable on a per-query-basis via

```
$query->getQuerySettings()->setUsePreparedStatement(TRUE);
```

Prepared statements will **only** be used for SELECT queries.

- consistent use of the TYPO3 DB API
 - use exec_SELECTgetRows and exec_SELECTcountRows() even for non-prepared queries. This should help a lot along the way to support DBAL.
- preparedStatement in custom statements

When using custom statements, it's now possible to use a prepared statement in `$query->statement()`, instead of a query-string. The prepared statement has to be initialized already though, because Extbase cannot take care of splitting your custom query string. The parameters are given as array in the second argument as usual.

- deprecated using parameters in non-prepared custom statement
If a custom query string is used with `$query->statement()`, giving the parameters in the second argument is deprecated.
- get count working
Counting - especially with limit and offset - has been broken for quite some time now. By refactoring the limit and offset parameters and adapting `exec_SELECTcountRows()` this should now work again.

The next step is to separate the query parsing from the backend and introduce an intelligent query cache. This will work as a drop-in-replacement. The @todo-annotations are intended to stay there for the next patch.

Resolves: #55360

Releases: 6.2

Change-Id: I91a3fd69470df178a8a5465511e50766b50d7f52

Reviewed-on: <https://review.typo3.org/27426>

Reviewed-by: Steffen Ritter

Tested-by: Steffen Ritter

Reviewed-by: Marc Bastian Heinrichs

Reviewed-by: Ernesto Baschny

Tested-by: Ernesto Baschny

Revision cf42649b - 2014-03-12 14:34 - Felix Oertel

[TASK] Add functional tests for generic persistence

To backup the changes in Extbase's generic persistence, we add some functional tests.

Resolves: #55661

Related: #55360

Related: #55167

Releases: 6.2

Change-Id: I0b845618b1cec9788ca36ac59e25ea6779f01cb6

Reviewed-on: <https://review.typo3.org/28262>

Reviewed-by: Marc Bastian Heinrichs

Tested-by: Marc Bastian Heinrichs

Reviewed-by: Steffen Ritter

Tested-by: Steffen Ritter

Revision 57caf5a4 - 2014-03-12 14:53 - Ernesto Baschny

[TASK] Follow-up to "Add functional tests for generic persistence"

Test directory changed from "Relation" to "Persistence".

Resolves: #55661

Related: #55360

Related: #55167

Releases: 6.2

Change-Id: I422dbfb6bdad4215bdc70dea775917cf3159605f

Reviewed-on: <https://review.typo3.org/28297>

Reviewed-by: Ernesto Baschny

Tested-by: Ernesto Baschny

Revision 69b05b7f - 2014-03-17 22:49 - Marc Bastian Heinrichs

[TASK] Follow-up: Use prepared statements in generic persistence

Fixes using \$query->statement() without parameters.

Resolves: #56915

Resolves: #55360

Releases: 6.2

Change-Id: Ia149313f5f9f719d7dba0a21a3eb39ea4f5052e8

Reviewed-on: <https://review.typo3.org/28442>

Reviewed-by: Markus Klein

Reviewed-by: Dennis J

Tested-by: Dennis J

Reviewed-by: Wouter Wolters

Tested-by: Wouter Wolters

History

#1 - 2014-01-27 15:34 - Marc Bastian Heinrichs

Hey Felix, there was this issue concerning prepared queries #28092.

And important is that the prepared statements in Core DB class are only used for DBAL ATM!

There is no use of the prepared statements offered by mysqli. Will be fixed with #27372.

#2 - 2014-02-07 18:28 - Gerrit Code Review

- *Status changed from Accepted 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 <https://review.typo3.org/27426>

#3 - 2014-02-07 18:29 - 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 <https://review.typo3.org/27426>

#4 - 2014-02-07 21:22 - 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/27426>

#5 - 2014-02-07 21:22 - 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/27426>

#6 - 2014-02-07 22:49 - 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/27426>

#7 - 2014-02-08 02:04 - 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 <https://review.typo3.org/27426>

#8 - 2014-02-11 17:37 - 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 <https://review.typo3.org/27426>

#9 - 2014-02-14 19:26 - Ernesto Baschny

- *Subject changed from use preparedStatement in generic persistence to Extbase: use preparedStatement in generic persistence*
- *Category set to Extbase*
- *TYPO3 Version set to 6.2*

#10 - 2014-02-19 20:50 - Gerrit Code Review

Patch set 8 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at <https://review.typo3.org/27426>

#11 - 2014-03-10 09:42 - Gerrit Code Review

Patch set 9 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at <https://review.typo3.org/27426>

#12 - 2014-03-10 12:28 - Gerrit Code Review

Patch set 10 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at <https://review.typo3.org/27426>

#13 - 2014-03-11 15:49 - Gerrit Code Review

Patch set 11 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at <https://review.typo3.org/27426>

#14 - 2014-03-11 15:54 - Gerrit Code Review

Patch set 12 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at <https://review.typo3.org/27426>

#15 - 2014-03-11 21:35 - Gerrit Code Review

Patch set 13 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at <https://review.typo3.org/27426>

#16 - 2014-03-12 12:21 - Gerrit Code Review

Patch set 14 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at <https://review.typo3.org/27426>

#17 - 2014-03-12 12:24 - Gerrit Code Review

Patch set 15 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at <https://review.typo3.org/27426>

#18 - 2014-03-12 12:25 - Gerrit Code Review

Patch set 16 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at <https://review.typo3.org/27426>

#19 - 2014-03-12 12:38 - Gerrit Code Review

Patch set 17 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at <https://review.typo3.org/27426>

#20 - 2014-03-12 13:28 - Gerrit Code Review

Patch set 18 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at <https://review.typo3.org/27426>

#21 - 2014-03-12 14:30 - Anonymous

- *Status changed from Under Review to Resolved*

- % Done changed from 0 to 100

Applied in changeset commit:ab2dc4e597b227dc7991aee5ba5bd2e77489c7ec.

#22 - 2014-03-16 15:00 - Gerrit Code Review

- Status changed from Resolved 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 <https://review.typo3.org/28442>

#23 - 2014-03-16 15:08 - 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 <https://review.typo3.org/28442>

#24 - 2014-03-17 23:30 - Marc Bastian Heinrichs

- Status changed from Under Review to Resolved

Applied in changeset commit:69b05b7f878a87737bd08d9ec7c4e3fc76b8ba69.