

## Core - Bug # 59809

<b>Status:</b>	Resolved	<b>Priority:</b>	Should have
<b>Author:</b>	Stefan Froemken	<b>Category:</b>	Extension Manager
<b>Created:</b>	2014-06-23	<b>Assigned To:</b>	Stefan Froemken
<b>Updated:</b>	2014-08-23	<b>Due date:</b>	
<b>TYPO3 Version:</b>	6.2		
<b>PHP Version:</b>	5.4		
<b>Complexity:</b>	easy		
<b>Is Regression:</b>	No		
<b>Sprint Focus:</b>			
<b>Subject:</b>	Create better indexes for EM		
<b>Description</b>			
<p>Hello Core-Team,</p> <p>I have changed an index for em. Here are the result (before and after)</p> <pre>  3   0.49219400   SELECT SQL_NO_CACHE extension_key, max(integer_version) as maxintversion FROM tx_extensionmanager_domain_model_extension WHERE repository=1 GROUP BY extension_key     4   0.17256100   SELECT SQL_NO_CACHE extension_key, max(integer_version) as maxintversion FROM tx_extensionmanager_domain_model_extension WHERE repository=1 GROUP BY extension_key  </pre> <p>In general I would prefer to remove or move col "repository" to the end of an index</p> <p>Stefan</p>			
<b>Related issues:</b>			
related to Core - Bug # 59824: Better index for determineSiteRoot		<b>Resolved</b>	<b>2014-06-23</b>

### Associated revisions

#### Revision 81cee53d - 2014-08-23 18:15 - Stefan Froemken

[BUGFIX] EM using bad indexes

The extensionmanager uses bad indexes. It is better to move col repository to the the end of the indexes.

Resolves: #59809

Releases: 6.3,6.2

Change-Id: I0bb8d5cdfc8591bb35485b204ad5e8dafd1b4d16

Reviewed-on: <http://review.typo3.org/31080>

Reviewed-by: Oliver Klee <[typo3-coding@oliverklee.de](mailto:typo3-coding@oliverklee.de)>

Reviewed-by: Marcin Sagol <[marcin@soee.pl](mailto:marcin@soee.pl)>

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Tested-by: Tymoteusz Motylewski <[t.motylewski@gmail.com](mailto:t.motylewski@gmail.com)>

Reviewed-by: Markus Klein <[klein.t3@reelworx.at](mailto:klein.t3@reelworx.at)>

Tested-by: Markus Klein <[klein.t3@reelworx.at](mailto:klein.t3@reelworx.at)>

#### Revision 85c8b9f3 - 2014-08-23 18:15 - Stefan Froemken

[BUGFIX] EM using bad indexes

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Change-Id: I0bb8d5cdfc8591bb35485b204ad5e8dafd1b4d16

Reviewed-on: <http://review.typo3.org/32334>

Reviewed-by: Markus Klein <[klein.t3@reelworx.at](mailto:klein.t3@reelworx.at)>

Tested-by: Markus Klein <[klein.t3@reelworx.at](mailto:klein.t3@reelworx.at)>

## History

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### #1 - 2014-06-23 15:47 - Stefan Froemken

And another one

change review\_state with current\_version:

```
| 1 | 0.00045700 | SELECT COUNT(*) FROM tx_extensionmanager_domain_model_extension WHERE
(tx_extensionmanager_domain_model_extension.current_version = '1' AND tx_extensionmanager_domain_model_extension.review_state >=
'1') |
| 2 | 0.01897600 | SELECT COUNT(*) FROM tx_extensionmanager_domain_model_extension WHERE
(tx_extensionmanager_domain_model_extension.current_version = '1' AND tx_extensionmanager_domain_model_extension.review_state >=
'1') |
| 3 | 0.00029400 | SELECT COUNT(*) FROM tx_extensionmanager_domain_model_extension WHERE
(tx_extensionmanager_domain_model_extension.current_version = '1' AND tx_extensionmanager_domain_model_extension.review_state >=
'1') |
```

1 = current

2 = without any index

3 = modified index

Stefan

### #2 - 2014-06-23 17:20 - 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 <https://review.typo3.org/31080>

### #3 - 2014-06-23 18:01 - Markus Klein

Wow, impressive. Do you have a technical reasoning why switching the order of the index, helps so much?

### #4 - 2014-06-23 18:40 - Stefan Froemken

It is absolutely necessary to reduce the amount of selected rows as fast as you can within your index. In your case "repository" was the first field of index, but in standard environment all rows have repository=1. So after processing 32.000 records we have again 32.000 records. And that's the problem.

Please have also a look onto col "rows" in EXPLAIN of this statement. As smaller it is as faster the query is.

**#5 - 2014-06-23 18:48 - Markus Klein**

Gotcha now! Thx.

**#6 - 2014-06-24 00:42 - Nicole Cordes**

Could you explain what you did to get that query!? I don't get it and IMHO the change slows down the list view of the extension manager.

**#7 - 2014-06-24 00:49 - Markus Klein**

I didn't measure it, but after applying the patch, updating the table and optimizing it, I had the feeling it is faster.

**#8 - 2014-06-24 00:55 - Markus Klein**

According to [http://en.wikipedia.org/wiki/Database\\_index#Column\\_order](http://en.wikipedia.org/wiki/Database_index#Column_order) this really makes sense.

If we happen to have more than one repository though, we will loose speed again.

Thinking about this again, I even suggest to simply drop the repository from the index, this will also minimize the index size.

**#9 - 2014-06-24 09:03 - Stefan Froemken**

I have added following line to my.cnf

```
log_slow_queries = /var/log/mysql/mysql-slow.log
long_query_time = 0
log-queries-not-using-indexes
```

Then analyze this file with "mysqldumpslow". F.E:

```
./mysqldumpslow -t 50 -s r -a -r /var/log/mysql/mysql-slow.log
```

Stefan

**#10 - 2014-08-23 18:15 - Gerrit Code Review**

Patch set 1 for branch **TYPO3\_6-2** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at <http://review.typo3.org/32334>

**#11 - 2014-08-23 18:30 - Stefan Froemken**

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

Applied in changeset commit:81cee53d94e90a8b9a320641e7e949a62448b5a7.