Hi there

it would be nice to be able to made "concat orderings" over multiple fields with database.

I'd imagine this looking like this:

```
$query = $this->createQuery();

$query->setOrderings(
    array(
        'CONCAT(field1,field2,field3) as 'fieldx' => Tx_Extbase_Persistence_QueryInterface::ORDER_DESCENDING
    )
);
```

The code must then check with preg_match if CONCAT\((.*) as \[\s*\]+) is set.

I'm probably going to implement something like this by my self and I'll post it as soon as I've got something that works.

Greets Tizian

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### History

#### #1 - 2011-11-25 16:18 - Anonymous

- % Done changed from 0 to 90

Hello there

I as promised I made a patch and here is how it works:

**New Version of Tx_Extbase_Persistence_Storage_Typo3DbBackend::parseOrderings**

```php
/**
 * Transforms orderings into SQL.
 * @param array $orderings An array of orderings (Tx_Extbase_Persistence_QOM_Ordering)
 * @param Tx_Extbase_Persistence_QOM_SourceInterface $source The source
 * @param array &$sql The query parts
 * @return void
 */
protected function parseOrderings(array $orderings, Tx_Extbase_Persistence_QOM_SourceInterface $source, array &$sql) {
    foreach ($orderings as $propertyName => $order) {
        switch ($order) {
            case Tx_Extbase_Persistence_QOM_QueryObjectModelConstantsInterface::JCR_ORDER_ASCENDING: // Deprecated since Extbase 1.1
                break;
            case Tx_Extbase_Persistence_QueryInterface::ORDER_ASCENDING:
                // Do nothing
                break;
        }
    }
}
```
$order = 'ASC';
break;
}
case Tx_Extbase_Persistence_QOM_QueryObjectModelConstantsInterface::JCR_ORDER_DESCENDING:
$所做的工作需要进行修改（Tx_Extbase_Persistence_Storage_Typo3DbBackend::getObjectCountByQuery）：

```php
/**
 * Returns the number of tuples matching the query.
 * @param Tx_Extbase_Persistence_QOM_QueryObjectModelInterface $query
 * @return integer The number of matching tuples
 */
public function getObjectCountByQuery(Tx_Extbase_Persistence_QueryInterface $query) {
    $constraint = $query->getConstraint();
    if($constraint instanceof Tx_Extbase_Persistence_QOM_StatementInterface) {
        throw new Tx_Extbase_Persistence_Storage_Exception_BadConstraint('Could not execute count on queries with a constraint of type Tx_Extbase_Persistence_QOM_StatementInterface', 1256661045);
    }
    $parameters = array();
    $statementParts = $this->parseQuery($query, $parameters);
    if (!empty($statementParts['limit'])) {
        $statement = $this->buildQuery($statementParts, $parameters);
        $result = $this->databaseHandle->sql_query($statement);
        $count = $this->databaseHandle->sql_num_rows($result);
    } else {
        $statementParts['fields'] = array('COUNT(*)');
```
Greetings Tizian

Hey,
thanks for the code but would you mind creating a real patch for gerrit?

Hi,
was this issue fixed or does it still exists?

Hello,
the problem still persists I think. I'll try to write a patch and challenge it against Gerrit but since 6.2 has come out I'll have to rewrite it for the new version first.
#6 - 2014-12-19 08:44 - Alexander Opitz
- Project changed from Extbase MVC Framework to TYPO3 Core
- Category changed from Extbase: Generic Persistence to Extbase
- Target version deleted (Extbase 6.3)

#7 - 2014-12-19 09:26 - Tizian Schmidlin
I given this some thought lately since I stumbled across a similar issue lately.

Maybe the solution would be a set of reserved words that cannot appear in the selected fields when trying to count, so if such field appears, the whole field part, then it would be simply rewritten to COUNT(*).

Sadly I hadn't any time yet to write a patch for this, I hope I'll be able to during the holidays.

Best Regards
Tizian

#8 - 2014-12-21 21:53 - Alexander Opitz
- Status changed from Needs Feedback to New

#9 - 2018-02-03 22:56 - Mathias Schreiber
hey Tizian,

did you get holidays in the last 3 years? :)

#10 - 2018-11-13 14:51 - Tizian Schmidlin
Fair enough, I'll try to make it into core this time, now that I'm all set up, this should not take too long :)

#11 - 2019-08-05 16:09 - 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/c/Packages/TYPO3.CMS/+/61443

#12 - 2019-11-09 15:04 - 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/c/Packages/TYPO3.CMS/+/61443

#13 - 2019-11-09 15:10 - 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/+/61443

#14 - 2019-11-09 17:49 - 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 https://review.typo3.org/c/Packages/TYPO3.CMS/+/61443
#15 - 2019-12-24 12:02 - 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/+61443

#16 - 2019-12-24 12:06 - 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/c/Packages/TYPO3.CMS/+61443