Regex Filter

Overview

The regex filter is a filter module for MaxScale that is able to rewrite query content using regular expression matches and text substitution.

Configuration

The configuration block for the Regex filter requires the minimal filter options in it's section within the MaxScale.cnf file, stored in $MAXSCALE_HOME/etc/MaxScale.cnf.

```
[MyRegexFilter]
type=filter
module=regexfilter
match=some string
replace=replacement string
```

Filter Options

The regex filter accepts the options `ignorecase` or `case`. These define if the pattern text should take the case of the string it is matching against into consideration or not.

Filter Parameters

The Regex filter requires two mandatory parameters to be defined.

Match

A parameter that can be used to match text in the SQL statement which should be replaced.

```
match=TYPE[      ]*=
```

All regular expressions are evaluated with the option to ignore the case of the text, therefore a match option of select will match both `select`, `SELECT` and any form of the word with upper or lowercase characters.

Replace

The replace parameter defines the text that should replace the text in the SQL text which matches the match.

```
replace=ENGINE =
```

All regular expressions are evaluated with the option to ignore the case of the text, therefore an exclude option of select will exclude statements that contain both `select`, `SELECT` or any form of the word with upper or lowercase characters.

Examples

Example 1 - Replace MySQL 5.1 create table syntax with that for later versions

MySQL 5.1 used the parameter TYPE = to set the storage engine that should be used for a table. In later versions this changed to be ENGINE =. Imagine you have an application that you can not change for some reason, but you wish to migrate to a newer version of MySQL. The regexfilter can be used to transform the create table statments into the form that could be used by MySQL 5.5

```
[CreateTableFilter]
type=filter
module=regexfilter
options=ignorecase
match=TYPE[    ]*=
replace=ENGINE=
```