

LinksPlatform's Platform.RegularExpressions.Transformer.HasuraSQLSimplifier Class Library

1.1 ./csharp/Platform.RegularExpressions.Transformer.HasuraSQLSimplifier/HasuraSQLSimplifierTransformer.cs

```

1 using System.Collections.Generic;
2 using System.Linq;
3 using System.Text.RegularExpressions;
4
5 #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
6
7 namespace Platform.RegularExpressions.Transformer.HasuraSQLSimplifier
8 {
9     public class HasuraSQLSimplifierTransformer : TextTransformer
10     {
11         public static readonly IList<ISubstitutionRule> DefaultRules = new List<SubstitutionRule>
12         {
13             // HTML clean up
14             (new Regex(@"<span class=""[^""]*"">([<>]*)</span>"), "$1", 0),
15             // ('describe')
16             // 'describe'
17             (new Regex(@"\[\\s\\n]*('[']+')\[\\s\\n]*\\)"), "$1", int.MaxValue),
18             // AND ('true' AND 'true')
19             //
20             (new Regex(@"\[\\s\\n]*AND\[\\s\\n]*\[\\s\\n]*'true'\[\\s\\n]*AND\[\\s\\n]*'true'\[\\s\\n]*\\)"), "",
21             → 0),
22             // AND ('true')
23             //
24             (new Regex(@"\[\\s\\n]*AND\[\\s\\n]*'true'"), "", 0),
25             // ::
26             // ::
27             (new Regex(@"\[\\s]*::\[\\s]*"), "::", 0),
28             // ('describe'::text)
29             // 'describe'::text
30             (new Regex(@"\[\\s\\n]*('[']+')::text\[\\s\\n]*\\)"), "$1", 0),
31             // ("_0__be_0_nodes"."target_id")
32             // "_0__be_0_nodes"."target_id"
33             (new Regex(@"\[\\s\\n]*("[^""]+")\[\\s\\n]*\\. \[\\s\\n]*("[^""]+")\[\\s\\n]*\\)"), "$1.$2",
34             → 0),
35             // ("public"."nodes"."_id")
36             // "public"."nodes"."_id"
37             (new Regex(@"\[\\s\\n]*("[^""]+")\[\\s\\n]*\\. \[\\s\\n]*("[^""]+")\[\\s\\n]*\\. \[\\s\\n]*("[^""
38             → "]+")\[\\s\\n]*\\)"), "$1.$2.$3",
39             → 0),
40             // LIMIT\\n\\t\\t\\t1
41             // LIMIT 1
42             (new Regex(@"(LIMIT) \[\\s\\n]*([d+])"), "$1 $2", 0),
43             // ("_0__be_0_nodes"."type" = 'describe'::text)
44             // "_0__be_0_nodes"."type" = 'describe'::text
45             (new Regex(@"(\\W) \[\\s\\n]*((?!SELECT) [^\\s\\n() [^()]*?) \[\\s\\n]*\\)"), "$1$2",
46             → int.MaxValue),
47             // (EXISTS (...))
48             // EXISTS (...)
49             (new Regex(@"(\\W) \[\\s\\n]*((?!SELECT) [^\\s\\n() [^()]*\\([\\^()]*\\) [^()]*?) \[\\s\\n]*\\)"),
50             → "$1$2", int.MaxValue),
51             // ((EXISTS (...)))
52             // EXISTS (...)
53             (new Regex(@"(\\W) \[\\s\\n]*((?!SELECT) [^\\s\\n() [^()]*\\([\\^()]*\\) [^()]*\\([\\^()]*\\) [^()]*
54             → ?) \[\\s\\n]*\\)"), "$1$2",
55             → int.MaxValue),
56         }.Cast<ISubstitutionRule>().ToList();
57
58         public HasuraSQLSimplifierTransformer()
59             : base(DefaultRules)
60         {
61         }
62     }
63 }

```

1.2 ./csharp/Platform.RegularExpressions.Transformer.HasuraSQLSimplifier.Tests/HasuraSQLSimplifierTransformerTests.cs

```
1 using Xunit;
2
3 namespace Platform.RegularExpressions.Transformer.HasuraSQLSimplifier.Tests
4 {
5     public class HasuraSQLSimplifierTransformerTests
6     {
7         [Fact]
8         public void EmptyLineTest()
9         {
10             // This test can help to test basic problems with regular expressions like incorrect
11             ↪ syntax
12         }
13     }
14 }
```

```

11     var transformer = new HasuraSQLSimplifierTransformer();
12     var actualResult = transformer.Transform("");
13     Assert.Equal("", actualResult);
14 }
15
16 [Fact]
17 public void BasicRequestTest()
18 {
19     var original = @"SELECT
20 coalesce(json_agg("root"), '[]') AS "root"
21 FROM
22 (
23     SELECT
24         row_to_json(
25             (
26                 SELECT
27                     "_2_e"
28                 FROM
29                 (
30                     SELECT
31                         "_1_root.base"."id" AS "id"
32                     ) AS "_2_e"
33             )
34         ) AS "root"
35 FROM
36     (
37         SELECT
38             *
39         FROM
40             "public"."nodes"
41         WHERE
42             (
43                 (
44                     ("public"."nodes"."type") = (('auth_token') :: text)
45                 )
46                 AND (
47                     EXISTS (
48                         SELECT
49                             1
50                         FROM
51                             "public"."nodes" AS "_0__be_0_nodes"
52                         WHERE
53                             (
54                                 (
55                                     (
56                                         ("_0__be_0_nodes"."_source_id") = ("public"."nodes"."_id")
57                                     )
58                                     AND ('true')
59                                 )
60                                 AND (
61                                     (
62                                         (
63                                             ("_0__be_0_nodes"."type") = (('describe') :: text))
64                                             AND ('true')
65                                         )
66                                         AND (
67                                             (
68                                                 (
69                                                     ("_0__be_0_nodes"."target_id") = (('X-Hasura-User-Id') :: text)
70                                                 )
71                                                 AND ('true')
72                                             )
73                                             AND ('true')
74                                         )
75                                         )
76                                         AND (
77                                             ('true')
78                                             AND ('true')
79                                         )
80                                     )
81                                 )
82                             )
83                         )
84                     ) AS "_1_root.base"
85                 LIMIT
86                 1
87             ) AS "_3_root";
88
89     var expected = @"SELECT

```

```

91     coalesce(json_agg("root"), '[]') AS "root"
92 FROM
93 (
94     SELECT
95         row_to_json(
96             (
97                 SELECT
98                     ""_2_e""
99                 FROM
100                 (
101                     SELECT
102                         ""_1_root.base"".""id"" AS ""id""
103                     ) AS ""_2_e""
104             )
105         ) AS "root"
106 FROM
107 (
108     SELECT
109         *
110     FROM
111         ""public"".""nodes""
112     WHERE
113         ""public"".""nodes"".""type"" = 'auth_token'::text
114         AND EXISTS (
115             SELECT
116                 1
117             FROM
118                 ""public"".""nodes"" AS ""_0__be_0_nodes""
119             WHERE
120                 ""_0__be_0_nodes"".""_source_id"" = ""public"".""nodes"".""_id""
121                 AND ""_0__be_0_nodes"".""type"" = 'describe'::text
122                 AND ""_0__be_0_nodes"".""target_id"" = 'X-Hasura-User-Id'::text
123             )
124         ) AS ""_1_root.base""
125     LIMIT 1
126 ) AS ""_3_root"";
127     var transformer = new HasuraSQLSimplifierTransformer();
128     var actual = transformer.Transform(original);
129     Assert.Equal(expected, actual);
130 }
131 }
132 }

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