

## 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             (new Regex(@"[\s\n]*::[\s\n]*"), "::", 0),
27             // ('describe'::text)
28             // 'describe'::text
29             (new Regex(@"\([\s\n]*('[']+')::text[\s\n]*\)"), "$1", 0),
30             // ("_0__be_0_nodes"."target_id")
31             // "_0__be_0_nodes"."target_id"
32             (new Regex(@"\([\s\n]*("["^"]+"")[\s\n]*\.[\s\n]*("["^"]+"")[\s\n]*\)"), "$1.$2",
33             ↪ 0),
34             // ("public"."nodes"."_id")
35             // "public"."nodes"."_id"
36             (new Regex(@"\([\s\n]*("["^"]+"")[\s\n]*\.[\s\n]*("["^"]+"")[\s\n]*\.[\s\n]*("["^"]
37             ↪ "+"")[\s\n]*\)"), "$1.$2.$3",
38             ↪ 0),
39             // LIMIT\n\t\t\t1
40             // LIMIT 1
41             (new Regex(@"(LIMIT)[\s\n]*(\d+)"), "$1 $2", 0),
42             // ("_0__be_0_nodes"."type" = 'describe'::text)
43             // "_0__be_0_nodes"."type" = 'describe'::text
44             (new Regex(@"(W)\([\s\n]*((?!SELECT)[^\s\n()]\(^\)\)*?)[\s\n]*\)"), "$1$2",
45             ↪ int.MaxValue),
46             // (EXISTS (...))
47             // EXISTS (...)
48             (new Regex(@"(W)\([\s\n]*((?!SELECT)[^\s\n()]\(^\)\)*\([\^\)]*\)[^\)]*\)[^\)]*\)"),
49             ↪ "$1$2", int.MaxValue),
50             // ((EXISTS (...)))
51             // EXISTS (...)
52             (new Regex(@"(W)\([\s\n]*((?!SELECT)[^\s\n()]\(^\)\)*\([\^\)]*\)[^\)]*\)[^\)]*\)"),
53             ↪ "$1$2",
54             ↪ int.MaxValue),
55         }.Cast<ISubstitutionRule>().ToList();
56
57         public HasuraSQLSimplifierTransformer()
58             : base(DefaultRules)
59         {
60         }
61     }
62 }

```

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

```

```

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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