

## 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      /// <summary>
10     /// <para>
11     /// Represents the hasura sql simplifier transformer.
12     /// </para>
13     /// <para></para>
14     /// </summary>
15     /// <seealso cref="TextTransformer"/>
16     public class HasuraSQLSimplifierTransformer : TextTransformer
17     {
18         /// <summary>
19         /// <para>
20         /// The to list.
21         /// </para>
22         /// <para></para>
23         /// </summary>
24         public static readonly IList<ISubstitutionRule> DefaultRules = new List<SubstitutionRule>
25         {
26             // HTML clean up
27             (new Regex(@"<span class=""[^\"]*">([<>]*)</span>"), "$1", 0),
28             // ('describe')
29             // 'describe'
30             (new Regex(@"\[\\s\\n]*('['+']+[\\s\\n]*)\"), "$1", int.MaxValue),
31             // AND ('true' AND 'true')
32             //
33             (new Regex(@"\[\\s\\n]*AND\[\\s\\n]*\[\\s\\n]*'true'\[\\s\\n]*AND\[\\s\\n]*'true'\[\\s\\n]*\"), "",
34             ↪ 0),
35             // AND ('true')
36             //
37             (new Regex(@"\[\\s\\n]*AND\[\\s\\n]*'true'\"), "", 0),
38             // ::
39             (new Regex(@"\[\\s]*::\[\\s]*\"), "::", 0),
40             // ('describe'::text)
41             // 'describe'::text
42             (new Regex(@"\[\\s\\n]*('['+']+'::text)\[\\s\\n]*\"), "$1", 0),
43             // ("_0__be_0_nodes"."target_id")
44             // "_0__be_0_nodes"."target_id"
45             (new Regex(@"\[\\s\\n]*("[^\"]+"+)\[\\s\\n]*\\. \[\\s\\n]*("[^\"]+"+)\[\\s\\n]*\"), "$1.$2",
46             ↪ 0),
47             // ("public"."nodes"."id")
48             // "public"."nodes"."id"
49             (new Regex(@"\[\\s\\n]*("[^\"]+"+)\[\\s\\n]*\\. \[\\s\\n]*("[^\"]+"+)\[\\s\\n]*\\. \[\\s\\n]*("[^\"]+"
50             ↪ "+")\[\\s\\n]*\"), "$1.$2.$3",
51             ↪ 0),
52             // LIMIT\\n\\t\\t\\t1
53             // LIMIT 1
54             (new Regex(@"(LIMIT)\[\\s\\n]*([d+])\"), "$1 $2", 0),
55             // ("_0__be_0_nodes"."type" = 'describe'::text)
56             // "_0__be_0_nodes"."type" = 'describe'::text
57             (new Regex(@"(\\W)\\([\\s\\n]*((?!SELECT) [^\\s\\n() [^()]*?) [\\s\\n]*)\"), "$1$2",
58             ↪ int.MaxValue),
59             // (EXISTS (...))
60             // EXISTS (...)
61             (new Regex(@"(\\W)\\([\\s\\n]*((?!SELECT) [^\\s\\n() [^()]*?) [^()]*?) [\\s\\n]*\"),
62             ↪ "$1$2", int.MaxValue),
63             // ((EXISTS (...)))
64             // (EXISTS (...))
65             (new Regex(@"(\\W)\\([\\s\\n]*((?!SELECT) [^\\s\\n() [^()]*?) [^()]*?) [^()]*?) [^()]*\"),
66             ↪ "? [\\s\\n]*\"), "$1$2",
67             ↪ int.MaxValue),
68         }.Cast<ISubstitutionRule>().ToList();
69
70     /// <summary>
71     /// <para>
72     /// Initializes a new <see cref="HasuraSQLSimplifierTransformer"/> instance.
73     /// </para>
74     /// <para></para>
75     /// </summary>

```

```

69         public HasuraSQLSimplifierTransformer()
70             : base(DefaultRules)
71         {
72         }
73     }
74 }

```

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

```

1  using Xunit;
2
3  namespace Platform.RegularExpressions.Transformer.HasuraSQLSimplifier.Tests
4  {
5      /// <summary>
6      /// <para>
7      /// Represents the hasura sql simplifier transformer tests.
8      /// </para>
9      /// <para></para>
10     /// </summary>
11     public class HasuraSQLSimplifierTransformerTests
12     {
13         /// <summary>
14         /// <para>
15         /// Tests that empty line test.
16         /// </para>
17         /// <para></para>
18         /// </summary>
19         [Fact]
20         public void EmptyLineTest()
21         {
22             // This test can help to test basic problems with regular expressions like incorrect
23             // ↪ syntax
24             var transformer = new HasuraSQLSimplifierTransformer();
25             var actualResult = transformer.Transform("");
26             Assert.Equal("", actualResult);
27         }
28
29         /// <summary>
30         /// <para>
31         /// Tests that basic request test.
32         /// </para>
33         /// <para></para>
34         /// </summary>
35         [Fact]
36         public void BasicRequestTest()
37         {
38             var original = @"SELECT
39 coalesce(json_agg("root"), '[]') AS "root"
40 FROM
41 (
42     SELECT
43         row_to_json(
44             (
45                 SELECT
46                     ""_2_e""
47                 FROM
48                     (
49                         SELECT
50                             ""_1_root.base"".""id"" AS ""id""
51                         ) AS ""_2_e""
52             ) AS ""root""
53     FROM
54         (
55             SELECT
56                 *
57             FROM
58                 ""public"".""nodes""
59             WHERE
60                 (
61                     (""public"".""nodes"".""type"" = (('auth_token') :: text)
62                     )
63                 AND (
64                     EXISTS (
65                         SELECT
66                             1
67                         FROM
68                             ""public"".""nodes"" AS ""_0__be_0_nodes""
69                         WHERE
70                             (
71

```

```

72         (
73             (
74                 (" "_0__be_0_nodes"."_source_id") = ("public"."nodes"."_id")
75             )
76             AND ('true')
77         )
78         AND (
79             (
80                 (
81                     (" "_0__be_0_nodes"."type") = (('describe') :: text))
82                     AND ('true')
83                 )
84                 AND (
85                     (
86                         (
87                             (" "_0__be_0_nodes"."target_id") = (('X-Hasura-User-Id') :: text)
88                         )
89                         AND ('true')
90                     )
91                     AND ('true')
92                 )
93             )
94             AND (
95                 ('true')
96                 AND ('true')
97             )
98         )
99     )
100 )
101 )
102 ) AS ""_1_root.base""
103 LIMIT
104 1
105 ) AS ""_3_root"";
106
107     var expected = @"SELECT
108 coalesce(json_agg(""root""), '[]') AS ""root""
109 FROM
110 (
111     SELECT
112         row_to_json(
113             (
114                 SELECT
115                     ""_2_e""
116                 FROM
117                     (
118                         SELECT
119                             ""_1_root.base"."id"" AS ""id""
120                         ) AS ""_2_e""
121                     )
122             ) AS ""root""
123         FROM
124         (
125             SELECT
126                 *
127             FROM
128                 ""public"."nodes""
129             WHERE
130                 ""public"."nodes"."type"" = 'auth_token'::text
131                 AND EXISTS (
132                     SELECT
133                         1
134                     FROM
135                         ""public"."nodes"" AS ""_0__be_0_nodes""
136                     WHERE
137                         ""_0__be_0_nodes"."_source_id"" = ""public"."nodes"."_id""
138                         AND ""_0__be_0_nodes"."type"" = 'describe'::text
139                         AND ""_0__be_0_nodes"."target_id"" = 'X-Hasura-User-Id'::text
140                     )
141                 ) AS ""_1_root.base""
142             LIMIT 1
143         ) AS ""_3_root"";
144     var transformer = new HasuraSQLSimplifierTransformer();
145     var actual = transformer.Transform(original);
146     Assert.Equal(expected, actual);
147 }
148 }
149 }
150 }

```

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