

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]*(\"[^\"]+\" )\""), "$1.$2.$3",
50             ↪ 0),
51             // LIMIT\\n\\t\\t\\t1
52             // LIMIT 1
53             (new Regex(@"(LIMIT)\[\\s\\n]*([d+])\""), "$1 $2", 0),
54             // ("_0__be_0_nodes"."type" = 'describe'::text)
55             // "_0__be_0_nodes"."type" = 'describe'::text
56             (new Regex(@"(\\W)\\([\\s\\n]*((?!SELECT) [^\\s\\n() [^()]*?) [\\s\\n]*)\""), "$1$2",
57             ↪ int.MaxValue),
58             // (EXISTS (...))
59             // EXISTS (...)
60             (new Regex(@"(\\W)\\([\\s\\n]*((?!SELECT) [^\\s\\n() [^()]*?) [^()]*?) [^()]*?) [\\s\\n]*\""),
61             ↪ "$1$2", int.MaxValue),
62             // ((EXISTS (...)))
63             // (EXISTS (...))
64             (new Regex(@"(\\W)\\([\\s\\n]*((?!SELECT) [^\\s\\n() [^()]*?) [^()]*?) [^()]*?) [^()]*? [^()]*?\""),
65             ↪ "? [\\s\\n]*\""), "$1$2",
66             ↪ int.MaxValue),
67         }.Cast<ISubstitutionRule>().ToList();
68
69         /// <summary>
70         /// <para>
71         /// Initializes a new <see cref="HasuraSQLSimplifierTransformer"/> instance.
72         /// </para>
73         /// <para></para>
74         /// </summary>

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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     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             var transformer = new HasuraSQLSimplifierTransformer();
13             var actualResult = transformer.Transform("");
14             Assert.Equal("", actualResult);
15         }
16
17         [Fact]
18         public void BasicRequestTest()
19         {
20             var original = @"SELECT
21 coalesce(json_agg("root"), '[]') AS "root"
22 FROM
23 (
24     SELECT
25         row_to_json(
26             (
27                 SELECT
28                     ""_2_e""
29                 FROM
30                 (
31                     SELECT
32                         ""_1_root.base"".id AS id""
33                     ) AS ""_2_e""
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 )
85 ) AS ""_1_root.base""
86 LIMIT
87     1
88 ) AS ""_3_root"";
89
90     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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