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XML file To an Avro File with avro-maven-plugin & Apache Spark

05: Convert XML file To an Avro File with avro-maven-plugin & Apache Spark



This extends 04: Convert XML file To an Avro File with Apache Spark – writing & reading. Instead of using the GenericRecord, let's generate an avro schema object from the avro schema.

Step 1: The pom.xml file should include the **Apache**Spark & Avro libraries as shown below. Pay attetion to the avro-maven-plugin that generates POJOs from the avro schemas.

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```
1
2
3
    project xmlns="http://maven.apache.org/POM/4.0.0"
4
        xsi:schemaLocation="http://maven.apache.org/l
5
        <modelVersion>4.0.0</modelVersion>
6
        <groupId>com.mytutorial
7
        <artifactId>sequence-file</artifactId>
8
        <packaging>jar</packaging>
9
        <version>1.0-SNAPSHOT
10
        <name>sequence-file</name>
        <url>http://maven.apache.org</url>
11
12
13
        cproperties>
14
            <maven.compiler.source>1.8</maven.compil</pre>
15
            <maven.compiler.target>1.8</maven.compil</pre>
            project.build.sourceEncoding>UTF-8
16
17
            <junit.version>4.8.1</junit.version>
18
            <hadoop.version>2.7.2/hadoop.version>
19
            <spark-version>1.3.0</spark-version>
            <avro.version>1.7.7</avro.version>
20
21
        </properties>
22
23
        <dependencies>
24
            <!-- JUnit -->
25
            <dependency>
                <qroupId>junit
26
27
                <artifactId>junit</artifactId>
                <version>${junit.version}</version>
28
29
                <scope>test</scope>
30
            </dependency>
31
32
            <!-- Hadoop -->
33
            <dependency>
34
                <groupId>org.apache.hadoop</groupId>
35
                <artifactId>hadoop-hdfs</artifactId>
                <version>${hadoop.version}</version>
36
37
                <exclusions>
38
                    <exclusion>
39
                         <groupId>javax.servlet</group</pre>
40
                        <artifactId>*</artifactId>
41
                    </exclusion>
42
                </exclusions>
43
            </dependency>
44
            <dependency>
                <groupId>org.apache.hadoop</groupId>
45
                <artifactId>hadoop-client</artifactId</pre>
46
47
                <version>${hadoop.version}</version>
48
                <exclusions>
49
                    <exclusion>
50
                        <groupId>javax.servlet
                         <artifactId>*</artifactId>
51
52
                    </exclusion>
53
                </exclusions>
54
            </dependency>
55
```

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Tutorials -Enterprise Java



```
56
             <!-- Apache Spark -->
57
             <dependency>
                 <qroupId>orq.apache.spark</groupId>
58
                 <artifactId>spark-core_2.11</artifactions</pre>
59
60
                 <version>${spark-version}</version>
                 <exclusions>
61
62
                     <exclusion>
63
                         <groupId>javax.servlet
                         <artifactId>*</artifactId>
64
65
                     </exclusion>
66
                 </exclusions>
67
             </dependency>
68
             <!-- AVRO -->
69
70
             <dependency>
71
                 <groupId>org.apache.avro
72
                 <artifactId>avro</artifactId>
73
                 <version>${avro.version}</version>
             </dependency>
74
75
              <dependency>
                 <groupId>org.apache.avro</groupId>
76
                 <artifactId>avro-mapred</artifactId>
77
78
                 <version>${avro.version}</version>
79
                 <classifier>hadoop2</classifier>
80
                 <exclusions>
81
                     <exclusion>
82
                         <groupId>org.apache.avro
                         <artifactId>*</artifactId>
83
84
                     </exclusion>
85
                 </exclusions>
86
             </dependency>
87
        </dependencies>
88
89
        <build>
90
             <plugins>
91
                 <plugin>
92
                     <groupId>org.apache.avro
93
                     <artifactId>avro-maven-plugin
                     <version>${avro.version}</version</pre>
94
95
                     <executions>
96
                         <execution>
97
                             <phase>generate-sources
98
                             <aoals>
99
                                  <goal>schema</goal>
100
                             </goals>
101
                             <configuration>
102
                                  <includes>
103
                                      <include>trans-re
104
                                  </includes>
105
106
                                  <sourceDirectory>${p
107
                                  <outputDirectory>${p
108
                             </configuration>
109
110
                         </execution>
```

```
111
                      </executions>
112
                 </plugin>
113
             </plugins>
114
             <pluginManagement>
115
               <plugins>
116
                 <!--This plugin's configuration is u
117
                      only. It has no influence on the
118
                 <plugin>
119
                      <groupId>org.eclipse.m2e
                      <artifactId>lifecycle-mapping
120
121
                      <version>1.0.0
122
                      <configuration>
123
                          <lifecycleMappingMetadata>
124
                              <pluginExecutions>
125
                                   <pluginExecution>
126
                                       <pl><pluginExecution</li>
127
                                           <groupId>
128
                                                org.apacl
129
                                           </groupId>
130
                                            <artifactId>
131
                                                avro-mav
132
                                           </artifactId:
133
                                           <versionRana</pre>
134
                                                [1.8.0,)
135
                                           </re></versionRanger</pre>
136
                                           <qoals>
137
                                                <goal>scl
                                           </goals>
138
139
                                       </pluginExecution</pre>
140
                                       <action>
141
                                           <ignore></ig
142
                                       </action>
143
                                   </pluginExecution>
144
                              </pluginExecutions>
                          </lifecycleMappingMetadata>
145
146
                      </configuration>
147
                 </plugin>
148
              </plugins>
149
            </pluginManagement>
150
151
         </build>
152
    </project>
153
```

Step 2: The **report.xml** file under "src/main/resources/data".

```
5
            <report>
6
                <reportNumber>9999</reportNumber>
7
                <createdDatetime>2015-06-15T11:29:52+1
8
                cprocessedDatetime>2015-06-15T11:29:51
9
                <reportStatusCode>Active</reportStatus</pre>
10
            </report>
11
       </transactionReport>
12
  </transactionReports>
13
```

Step 3: The avro schema file "trans-report.avsc" under "src/main/resources/schema".

```
1
2
    {"namespace": "mytutorial.com.report",
      "type": "record",
3
      "name": "ReportAvro",
4
5
      "fields": [
            {"name": "reportNumber", "type": "string"},
6
            {"name": "createdDatetime", "type": "string"
{"name": "processedDatetime", "type": "string
{"name": "reportStatusCode", "type": "string'
7
8
9
10
11 | }
12
```

Step 4: Generate the "ReportAvro.java" by running the maven task "generate-sources". You can run this within eclipse by right clicking on the pom.xml and then "Run as" "maven generate-sources" or on the command-line as

```
1
2 mvn generate-sources
3
```

Within eclipse, select "generated-sources" folder right-click and select "Build Path" and then "Use as Source Folder".

Step 5: Finally, the

"ConvertXmlToAvroWithAvroPluginAndSpark.java"

class that make use of the generated **ReportAvro.java** instead of the GenericRecord class.

```
1
2
   package com.mytutorial;
3
   import java.io.File:
4
5
    import java.io.IOException;
   import java.io.StringReader;
6
7
    import java.net.URL;
8
   import java.util.ArrayList;
9
    import java.util.Iterator;
10
   import java.util.List;
11
12
   import javax.xml.namespace.NamespaceContext;
    import javax.xml.xpath.XPath;
13
   import javax.xml.xpath.XPathConstants;
14
15
    import javax.xml.xpath.XPathExpressionException;
16
   import javax.xml.xpath.XPathFactory;
17
18
   import mytutorial.com.report.ReportAvro;
19
20
   import org.apache.avro.mapred.AvroKey;
21
   import org.apache.avro.mapreduce.AvroJob;
22
    import org.apache.avro.mapreduce.AvroKeyInputForm
23
    import org.apache.avro.mapreduce.AvroKeyOutputFol
24
    import org.apache.commons.io.FileUtils;
25
   import org.apache.hadoop.conf.Configuration;
    import org.apache.hadoop.io.NullWritable;
26
    import org.apache.hadoop.mapreduce.Job;
27
28
    import org.apache.spark.SparkConf;
29
   import org.apache.spark.api.java.JavaPairRDD;
    import org.apache.spark.api.java.JavaSparkContex
30
   import org.w3c.dom.Node;
31
   import org.xml.sax.InputSource;
32
33
34
   import scala.Tuple2;
35
    import com.mytutorial.pojo.Report;
36
37
   public class ConvertXmlToAvroWithAvroPluginAndSp
38
39
40
        private static final String FILE_IN_PATH = "
41
        private static final String FILE_OUT_PATH =
42
        private static final String AVRO_SCHEMA_FILE
43
44
        final static JavaSparkContext sc;
45
46
        static {
47
            SparkConf conf = new SparkConf()
48
                    .setAppName("Sequence To Avro")
                    .setMaster("local[1]")
49
```

```
50
                                                    .set("spark.executor.memory", "10
51
                                                    .set("spark.serializer",
52
                                                                        "org.apache.spark.serial
53
                              sc = new JavaSparkContext(conf);
54
                    }
55
56
                     public static void main(String ☐ args) throw
57
                                         XPathExpressionException {
58
                              URL resource = ConvertXmlToSequenceWithSi
59
60
                               File inputFile = new File(resource.getPa
                               File outputFile = new File(resource.getPo
61
62
                               File avroSchemaFile = new File(resource.
63
                                                   + AVRO_SCHEMA_FILE);
64
65
                               Report report = convertXmlToPojo(inputFi)
66
                              write(avroSchemaFile, outputFile, report)
67
68
69
                               read(outputFile);
70
71
                               sc.stop();
72
                    }
73
74
                     public static void write(File avroSchemaFile
75
                                         throws IOException {
76
77
78
                               ReportAvro reportAVro= new ReportAvro();
79
                               reportAVro.setReportNumber(report.getReportAVro.setReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReportNumber(report.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.getReport.g
80
                               reportAVro.setCreatedDatetime(report.get(
81
                               reportAVro.setProcessedDatetime(report.ge
82
                               reportAVro.setReportStatusCode(report.ge-
83
84
                               Job job = Job.getInstance();
85
                               AvroJob.setOutputKeySchema(job, reportAV)
86
87
                               ArrayList<Tuple2<AvroKey<ReportAvro>, Vo
88
                               arrayList.add(new Tuple2<AvroKey<ReportA
89
                                                   reportAVro), null));
90
91
                               JavaPairRDD<AvroKey<ReportAvro>, Void> h
92
                                                    .parallelizePairs(arrayList);
93
94
                               if (outputFile.exists()) {
95
                                         FileUtils.deleteQuietly(outputFile);
96
                               }
97
98
                               hadoopRDD.saveAsNewAPIHadoopFile(outputFi
99
                                                   NullWritable.class, AvroKeyOutpu
100
                                                   job.getConfiguration());
101
102
                    }
103
104
                     public static void read(File avroFileToRead)
```

```
105
106
            @SuppressWarnings("unchecked")
107
            JavaPairRDD<AvroKey<ReportAvro>, NullWri
108
                     .newAPIHadoopFile(avroFileToRead
109
                             AvroKeyInputFormat.class
110
                             NullWritable.class, new
111
112
            List<AvroKey<ReportAvro>> avroKeys = avro
113
            AvroKey<ReportAvro> avroKey = avroKeys.g
114
115
            System.out.println("Avro Data=" + avroKe
116
        }
117
118
        // Xpath to read XML & convert it to a pojo
119
        private static Report convertXmlToPojo(File
120
                XPathExpressionException {
121
            XPath xPath = XPathFactory.newInstance()
122
            // namespace
123
            NamespaceContext ctx = new NamespaceConte
124
                public String getNamespaceURI(String
125
                     return prefix.equals("urn") ? "h
126
                             : null;
127
                }
128
129
                public Iterator<String> getPrefixes()
130
                     return null;
131
132
133
                public String getPrefix(String uri)
134
                     return null:
135
136
            };
137
138
            xPath.setNamespaceContext(ctx);
139
            String str = FileUtils.readFileToString(
            StringReader sr = new StringReader(str);
140
141
            InputSource source = new InputSource(sr)
142
143
            // get the DOM
144
            Node root = (Node) xPath.evaluate("/", se
145
146
            // use the DOM
147
            String reportNumber = xPath.evaluate("//
148
                     root);
149
            String createdDatetime = xPath.evaluate(
150
                     "//urn:report/urn:createdDatetime
151
            String processedDatetime = xPath.evaluate
152
                     "//urn:report/urn:processedDatet
153
            String reportStatusCode = xPath.evaluate
154
                     "//urn:report/urn:reportStatusCo
155
156
            return new Report(reportNumber, createdDe
157
                     reportStatusCode);
158
159
        }
```

```
160 | }
161 |
```

Output:

```
1 | Avro Data={"reportNumber": "9999", "createdDatetimes
```

Note: The generate ReportAvro.java class:

```
1
    /**
2
3
     * Autogenerated by Avro
4
5
     * DO NOT EDIT DIRECTLY
6
7
    package mytutorial.com.report;
8
    @SuppressWarnings("all")
9
   @org.apache.avro.specific.AvroGenerated
    public class ReportAvro extends org.apache.avro...
10
      public static final org.apache.avro.Schema SCHI
11
      public static org.apache.avro.Schema getClassS
12
      @Deprecated public java.lang.CharSequence repo
13
      @Deprecated public java.lang.CharSequence creat
14
      @Deprecated public java.lang.CharSequence proc
15
      @Deprecated public java.lang.CharSequence repol
16
17
      /**
18
       * Default constructor.
19
                               Note that this does no
20
       * to their default values from the schema.
       * one should use <code>newBuilder()</code>.
21
22
23
      public ReportAvro() {}
24
      /**
25
26
       * All-args constructor.
27
      public ReportAvro(java.lang.CharSequence report
28
29
        this.reportNumber = reportNumber;
30
        this.createdDatetime = createdDatetime;
31
        this.processedDatetime = processedDatetime;
32
        this.reportStatusCode = reportStatusCode;
33
     }
34
35
      public org.apache.avro.Schema getSchema() { re-
36
      // Used by DatumWriter. Applications should no
      public java.lang.Object get(int field$) {
37
```

```
switch (field$) {
38
39
        case 0: return reportNumber;
40
        case 1: return createdDatetime:
        case 2: return processedDatetime;
41
42
        case 3: return reportStatusCode;
43
        default: throw new org.apache.avro.AvroRuntir
44
      }
45
     // Used by DatumReader. Applications should no
46
      @SuppressWarnings(value="unchecked")
47
      public void put(int field$, java.lang.Object ve
48
        switch (field$) {
49
50
        case 0: reportNumber = (java.lang.CharSequence
        case 1: createdDatetime = (java.lang.CharSeq
51
52
        case 2: processedDatetime = (java.lang.CharS
53
        case 3: reportStatusCode = (java.lang.CharSe
        default: throw new org.apache.avro.AvroRuntin
54
55
56
     }
57
58
59
       * Gets the value of the 'reportNumber' field.
60
61
      public java.lang.CharSequence getReportNumber()
62
        return reportNumber;
63
      }
64
      /**
65
66
       * Sets the value of the 'reportNumber' field.
       * @param value the value to set.
67
68
69
      public void setReportNumber(java.lang.CharSeque
70
        this.reportNumber = value;
71
      }
72
      /**
73
       * Gets the value of the 'createdDatetime' fie
74
75
76
      public java.lang.CharSequence getCreatedDatetir
77
        return createdDatetime;
78
      }
79
80
       * Sets the value of the 'createdDatetime' fie
81
       * @param value the value to set.
82
83
84
      public void setCreatedDatetime(java.lang.CharS
85
        this.createdDatetime = value;
86
     }
87
88
       * Gets the value of the 'processedDatetime' f
89
90
91
      public java.lang.CharSequence getProcessedDate
92
        return processedDatetime;
```

```
93
      }
94
      /**
95
       * Sets the value of the 'processedDatetime' f
96
97
       * @param value the value to set.
98
99
      public void setProcessedDatetime(java.lang.Chal
100
        this.processedDatetime = value;
101
      }
102
      /**
103
104
       * Gets the value of the 'reportStatusCode' fi
105
106
      public java.lang.CharSequence getReportStatusC
107
        return reportStatusCode;
108
      }
109
110
      /**
111
       * Sets the value of the 'reportStatusCode' file
112
       * @param value the value to set.
       */
113
114
      public void setReportStatusCode(java.lang.Char!
115
        this.reportStatusCode = value;
116
      }
117
118
      /** Creates a new ReportAvro RecordBuilder */
119
      public static mytutorial.com.report.ReportAvro
        return new mytutorial.com.report.ReportAvro.I
120
121
      }
122
      /** Creates a new ReportAvro RecordBuilder by
123
124
      public static mytutorial.com.report.ReportAvro
125
        return new mytutorial.com.report.ReportAvro.l
126
      }
127
      /** Creates a new ReportAvro RecordBuilder by
128
129
      public static mytutorial.com.report.ReportAvro
130
        return new mytutorial.com.report.ReportAvro.
131
      }
132
133
      /**
134
       * RecordBuilder for ReportAvro instances.
135
136
      public static class Builder extends org.apache
137
        implements org.apache.avro.data.RecordBuilde
138
139
        private java.lang.CharSequence reportNumber;
140
        private java.lang.CharSequence createdDatetir
141
        private java.lang.CharSequence processedDate
142
        private java.lang.CharSequence reportStatusCo
143
144
        /** Creates a new Builder */
145
        private Builder() {
146
          super(mytutorial.com.report.ReportAvro.SCH)
147
```

```
148
149
        /** Creates a Builder by copying an existing
150
        private Builder(mytutorial.com.report.Report/
151
          super(other);
152
          if (isValidValue(fields()[0], other.report()
153
            this.reportNumber = data().deepCopy(field
154
            fieldSetFlags()[0] = true;
155
156
          if (isValidValue(fields()[1], other.created
157
            this.createdDatetime = data().deepCopy(f
158
            fieldSetFlags()[1] = true;
159
160
          if (isValidValue(fields()[2], other.procest
161
            this.processedDatetime = data().deepCopy
162
            fieldSetFlags()[2] = true;
163
          if (isValidValue(fields()[3], other.reports
164
165
            this.reportStatusCode = data().deepCopy(
166
            fieldSetFlags()[3] = true;
167
          }
        }
168
169
170
        /** Creates a Builder by copying an existing
171
        private Builder(mytutorial.com.report.Report/
172
                 super(mytutorial.com.report.ReportAv)
173
          if (isValidValue(fields()[0], other.report()
174
            this.reportNumber = data().deepCopy(field
175
            fieldSetFlags()[0] = true;
176
          }
177
          if (isValidValue(fields()[1], other.created
            this.createdDatetime = data().deepCopy(f
178
            fieldSetFlags()[1] = true;
179
180
181
          if (isValidValue(fields()[2], other.procest
182
            this.processedDatetime = data().deepCopy
183
            fieldSetFlags()[2] = true;
184
185
          if (isValidValue(fields()[3], other.reports
186
            this.reportStatusCode = data().deepCopy(
            fieldSetFlags()[3] = true;
187
188
          }
189
        }
190
        /** Gets the value of the 'reportNumber' fie
191
192
        public java.lang.CharSequence getReportNumber
193
          return reportNumber;
194
195
        /** Sets the value of the 'reportNumber' fie
196
197
        public mytutorial.com.report.ReportAvro.Buil
198
          validate(fields()[0], value);
199
          this.reportNumber = value;
200
          fieldSetFlags()[0] = true;
201
          return this;
202
```

```
203
204
        /** Checks whether the 'reportNumber' field |
205
        public boolean hasReportNumber() {
206
          return fieldSetFlags()[0];
207
208
209
        /** Clears the value of the 'reportNumber' f
210
        public mytutorial.com.report.ReportAvro.Buil
211
          reportNumber = null;
212
          fieldSetFlags()[0] = false;
213
          return this;
214
        }
215
216
        /** Gets the value of the 'createdDatetime'
217
        public java.lang.CharSequence getCreatedDate
218
          return createdDatetime;
219
        }
220
        /** Sets the value of the 'createdDatetime'
221
222
        public mytutorial.com.report.ReportAvro.Build
223
          validate(fields()[1], value);
224
          this.createdDatetime = value;
225
          fieldSetFlags()[1] = true;
226
          return this;
227
        }
228
229
        /** Checks whether the 'createdDatetime' fie
        public boolean hasCreatedDatetime() {
230
231
          return fieldSetFlags()[1];
232
233
        /** Clears the value of the 'createdDatetime
234
235
        public mytutorial.com.report.ReportAvro.Build
236
          createdDatetime = null;
237
          fieldSetFlags()[1] = false;
238
          return this;
239
        }
240
241
        /** Gets the value of the 'processedDatetime
242
        public java.lang.CharSequence getProcessedDa-
243
          return processedDatetime;
244
        }
245
        /** Sets the value of the 'processedDatetime
246
247
        public mytutorial.com.report.ReportAvro.Build
248
          validate(fields()[2], value);
249
          this.processedDatetime = value;
250
          fieldSetFlags()[2] = true;
251
          return this;
252
        }
253
254
        /** Checks whether the 'processedDatetime' f
255
        public boolean hasProcessedDatetime() {
256
          return fieldSetFlags()[2];
257
```

```
258
259
        /** Clears the value of the 'processedDateting
260
        public mytutorial.com.report.ReportAvro.Build
261
          processedDatetime = null;
262
          fieldSetFlags()[2] = false;
263
          return this;
264
        }
265
266
        /** Gets the value of the 'reportStatusCode'
        public java.lang.CharSequence getReportStatus
267
268
          return reportStatusCode;
269
270
271
        /** Sets the value of the 'reportStatusCode'
272
        public mytutorial.com.report.ReportAvro.Buil(
273
          validate(fields()[3], value);
274
          this.reportStatusCode = value;
275
          fieldSetFlags()[3] = true;
276
          return this;
277
        }
278
279
        /** Checks whether the 'reportStatusCode' file
280
        public boolean hasReportStatusCode() {
281
          return fieldSetFlags()[3];
282
        }
283
284
        /** Clears the value of the 'reportStatusCode
285
        public mytutorial.com.report.ReportAvro.Build
286
          reportStatusCode = null;
287
          fieldSetFlags()[3] = false;
288
          return this;
289
        }
290
291
        @Override
292
        public ReportAvro build() {
293
          try {
294
             ReportAvro record = new ReportAvro();
295
             record.reportNumber = fieldSetFlags()[0]
296
             record.createdDatetime = fieldSetFlags()
297
             record.processedDatetime = fieldSetFlags
298
             record.reportStatusCode = fieldSetFlags()
299
            return record;
300
          } catch (Exception e) {
301
             throw new org.apache.avro.AvroRuntimeExc
302
303
        }
304
      }
305
306
```

 05: 7 Java FP (lambda expressions) real life examples in wrangling normal & big data

04: Drools with rules in an excel spreadsheet - Data validation >

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