01-rzepinskip-szymanskir-xml-file-content-analysis

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1 XML parsing

1.1 Data sections

1.1.1 Ids

- book.id, book.isbn, book.isbn13 id of a specific edition of the book
- book.work.id globally unique id of a book(abstract, disregarding edition or language)
- book.work.best_book_id id of most popular edition of the book
- https://www.goodreads.com/book/show/book.id
- https://www.goodreads.com/work/editions/book.work.id

```
<GoodreadsResponse>
```

<book>

1.1.2 Authors

Not parsed - already in csv

1.1.3 Ratings

Not parsed - already in csv

1.1.4 Shelves

Not parsed - already in csv

1.1.5 Simple columns

Some simple columns(simple type value) are not present in books.csv or are wrongly formatted. Thus, we want to extract the additional data from XML files.

- description
- isbn13

1.1.6 Similar books

Similar books as proposed by Goodreads. The methodology of theirs recommendation is not yet known.

Similar items for specific book should be saved as pairs (book_id, similar_book_id) to maintain consistency with other data files.

```
<?xml version="1.0"?>
<GoodreadsResponse>
   <book>
      <similar_books>
         <book>
            <id>153795</id>
            <title><! [CDATA[Squire (Protector of the Small, #3)]]></title>
            <title_without_series>Squire</title_without_series>
            <link><! [CDATA[https://www.goodreads.com/book/show/153795.Squire]]></link>
            <small_image_url><! [CDATA[https://s.gr-assets.com/assets/nophoto/book/50x75-a91bf2</pre>
            <image_url><! [CDATA [https://s.gr-assets.com/assets/nophoto/book/111x148-bcc042a9c9</pre>
            <num_pages>400</num_pages>
            <work>
               <id>1142883</id>
            </work>
            <isbn />
            <isbn13 />
            <average_rating>4.27</average_rating>
            <ratings_count>39948</ratings_count>
            <publication_year>2007</publication_year>
            <publication_month>12</publication_month>
            <publication_day>18</publication_day>
            <authors>
               <author>
                  <id>8596</id>
                   <name>Tamora Pierce</name>
```

```
<link><! [CDATA[https://www.goodreads.com/author/show/8596.Tamora Pierce]]>//
               </author>
            </authors>
         </book>
         <!-- More data of the same type -->
      </similar books>
   </book>
</GoodreadsResponse>
1.2 Sample xml file content:
<?xml version="1.0"?>
<GoodreadsResponse>
   <Request>
      <authentication>true</authentication>
      <key><![CDATA[all_men_must_serve]]></key>
      <method><! [CDATA[book_show]]></method>
   </Request>
   <book>
      <id>1</id>
      <title><! [CDATA[Harry Potter and the Half-Blood Prince (Harry Potter, #6)]]></title>
      <isbn><![CDATA[0439785960]]></isbn>
      <isbn13><![CDATA[9780439785969]]></isbn13>
      <asin />
      <kindle_asin><![CDATA[B019PI0JZE]]></kindle_asin>
      <marketplace_id><![CDATA[A1F83G8C2AR07P]]></marketplace_id>
      <country_code><![CDATA[GB]]></country_code>
      <image_url>https://images.gr-assets.com/books/1361039191m/1.jpg</image_url>
      <small_image_url>https://images.gr-assets.com/books/1361039191s/1.jpg</small_image_url>
      <publication_year>2006</publication_year>
      <publication_month>9</publication_month>
```

<publication_day>16</publication_day>

```
<original_language_id type="integer" nil="true" />
   <media_type>book</media_type>
   <rating_dist>5:1162549|4:459309|3:136413|2:21524|1:7313|total:1787108</rating_dist>
   <desc_user_id type="integer">5119944</desc_user_id>
   <default chaptering book id type="integer">1</default chaptering book id>
   <default_description_language_code nil="true" />
<average_rating>4.54</average_rating>
<num_pages><![CDATA[652]]></num_pages>
<format><! [CDATA[Paperback]]></format>
<edition_information />
<ratings_count><![CDATA[1680064]]></ratings_count>
<text_reviews_count><![CDATA[22133]]></text_reviews_count>
<url><! [CDATA [https://www.goodreads.com/book/show/1.Harry_Potter_and_the_Half_Blood_Pringle-
<link><! [CDATA[https://www.goodreads.com/book/show/1.Harry_Potter_and_the_Half_Blood_Pri:</pre>
<authors>
   <author>
      <id>1077326</id>
      <name>J.K. Rowling</name>
      <role />
      <image_url nophoto="false"><! [CDATA[https://images.gr-assets.com/authors/141594517</pre>
      <small_image_url nophoto="false"><![CDATA[https://images.gr-assets.com/authors/141]</pre>
      <link><! [CDATA[https://www.goodreads.com/author/show/1077326.J_K_Rowling]]></link>
      <average_rating>4.43</average_rating>
      <ratings_count>18039589</ratings_count>
      <text_reviews_count>434729</text_reviews_count>
   </author>
   <!-- More data of the same type -->
</authors>
<reviews_widget>
</reviews_widget>
<popular_shelves>
   <shelf name="to-read" count="167697" />
   <shelf name="fantasy" count="37174" />
   <!-- More data of the same type -->
</popular_shelves>
<book links>
   <book link>
      <id>8</id>
      <name>Libraries</name>
      <link>https://www.goodreads.com/book_link/follow/8</link>
   </book_link>
</book_links>
<buy_links>
   <buy_link>
      <id>1</id>
      <name>Amazon</name>
      <link>https://www.goodreads.com/book_link/follow/1</link>
```

```
</buy_link>
   <!-- More data of the same type -->
</buy_links>
<series_works>
   <series work>
      <id>624922</id>
      <user_position>6</user_position>
      <series>
         <id>45175</id>
         <title><![CDATA[Harry Potter]]></title>
         <description><![CDATA[Orphan Harry learns he is a wizard on his 11th birthday wi</pre>
         <note><! [CDATA [Cursed Child is NOT a Primary Work. Boxsets ARE part of the series.]
         <series_works_count>13</series_works_count>
         count>8
         <numbered>true</numbered>
      </series>
   </series_work>
   <!-- More data of the same type -->
</series_works>
<similar books>
   <book>
      <id>153795</id>
      <title><![CDATA[Squire (Protector of the Small, #3)]]></title>
      <title_without_series>Squire</title_without_series>
      <link><! [CDATA[https://www.goodreads.com/book/show/153795.Squire]]></link>
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      <image_url><! [CDATA [https://s.gr-assets.com/assets/nophoto/book/111x148-bcc042a9c9</pre>
      <num_pages>400</num_pages>
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      </work>
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   <!-- More data of the same type -->
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</book>
</GoodreadsResponse>