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To cite this version:

HAL Id: hal-01302830
https://hal.archives-ouvertes.fr/hal-01302830v2
Submitted on 18 Oct 2016

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Open Datasets for Evaluating the Interpretation of Bibliographic Records

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1 - Background

FRBRization is a metadata migration process which aims at extracting FRBR entities from MARC records.
• Crucial for the adoption of Semantic Web technologies in libraries
• Many tools proposed to perform the migration during the last decades
• No benchmark to compare and evaluate these tools

We provide two open datasets dedicated to the evaluation of FRBRization tools considering different specificities of MARC catalog like cataloging practices, inconsistencies and bibliographic patterns.

2 – Specificities of MARC records

Cataloging practices and inconsistencies:
• Missing information (missing of publication info or authoritative data leading to misunderstandings).
• Linkage errors (All errors in title or responsibility identifiers leading to dead links between records).
• Cataloging practices and norms (Specific form of data in the record, e.g., ISBD punctuation)

Bibliographic patterns:
• Core pattern (basic bibliographic cases)
• Augmentation pattern (any addition of a Work)
• Derivation pattern (Intellectual modification)
• Aggregation pattern (whole-part relationships)
• Complementary pattern (other related works)

3 – Open Datasets

Including both MARC files and FRBR gold standard
• T42 allows the evaluation of a migration tool in terms of bibliographic patterns and cataloging issues.
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http://bib-r.github.io/

4 – Extract of a unit test from T42

Example of derivation patterns in FRBR (adaptation and translations)