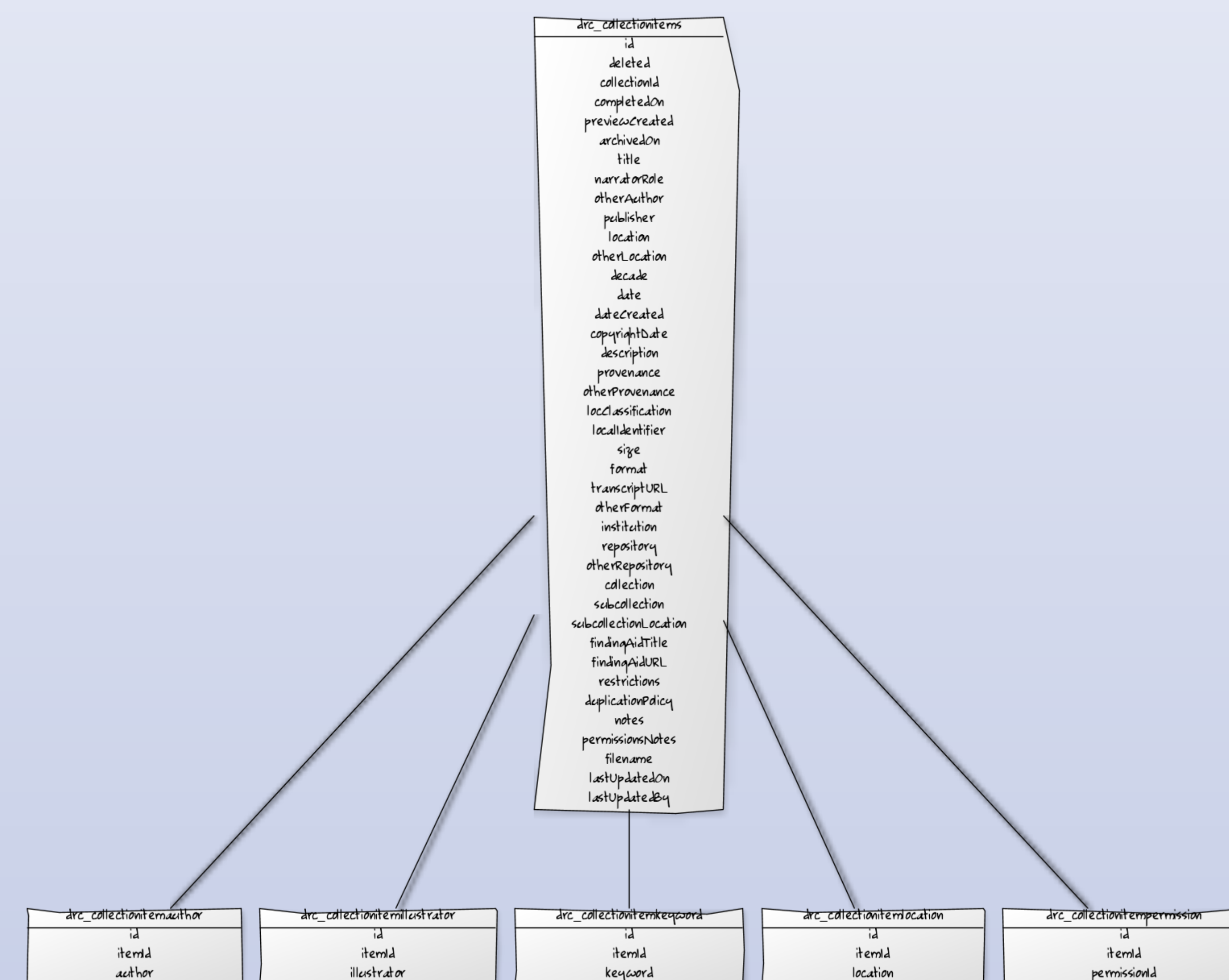


Gearing up for Fedora 4: Migrating MySQL to RDF

Introduction

At Kent State University Libraries, we are gearing up for a migration to Fedora 4 with our existing digital collections. Using the **D2RQ platform**, we are transforming the extended Dublin Core elements of the current collections and creating a mapping file. Currently each collection has a separate SQL database, and the migration will enable a higher level of connectivity.

Existing SQL structure



Mapping content in May 4 digital collection

A	B	C	D	E	F	G	H	I	J	K
OL- DC Tag ID	Our Field Name	Drop Down	Repeatable	Default Field Text	Selection List Values	Required Field	Public Display?			
64	dc:title	Title	No	No						
3	dc:contributor:author	Author	Yes	Yes	Akron Beacon Journal; Anderson, Deborah; Ayers, Chuck; Darnell, John; DiPaolo, Roger; Filo, John; Kent State University News Service; Kent State University; Police Service; May 4th Task Force; Moore, Doug; Ohio State Highway Patrol; Record-Courier; Ruffner, Howard; Smith, Frank; Solonitz, Ralph; Students for a Democratic Society; Tople, Paul	No	Yes	Names can be added to controlled local vocab drop down list, as well as an other free text option		
5	dc:contributor:illustrator	Illustrator	No	Yes		No	Yes			
39	dc:publisher	Publisher of Original	No	No		No	Yes			
7	dc:coverage:spatial	Location	Yes	No	Akron (Ohio); Kent (Ohio); Kent (Ohio) Downtown; Kent (Ohio) Lincoln and Main Intersection; Kent (Ohio), Police Dept.; Kent State University; Administration Building; Kent State University; Blanket Hill; Kent State University; Commons Area; Kent State University; Football Practice Field; Kent State University; East	No	Yes	Names can be added to controlled local vocab drop down list, as well as an other free text option		



Customizing mapping file

```
map:t_article_title a d2rq:PropertyBridge;
d2rq:belongsToClassMap map:t_article;
d2rq:property dc:title;
d2rq:propertyDefinitionLabel "t_article Title";
d2rq:column "t_article.Title";

map:t_article_Author a d2rq:PropertyBridge;
d2rq:belongsToClassMap map:t_article;
d2rq:property dc:contributor:author;
d2rq:propertyDefinitionLabel "t_article Author";
d2rq:column "t_article.Author";

map:t_article_Institute a d2rq:PropertyBridge;
d2rq:belongsToClassMap map:t_article;
d2rq:property dc:contributor:institution;
d2rq:propertyDefinitionLabel "t_article Institute";
d2rq:column "t_article.Institute";
```

Scope of Project

Currently, there are three existing digital collections that are slated to migrate to Fedora (1,819 objects total). We are also looking to adapt the back-end submission tool to adapt to RDF files using a simple web submission form with the defined elements. Looking forward, we also have pilot project to apply Linked Data theory to the May 4 Oral History collection

Sample RDF output

```
1 <?xml version="1.0"?>
2 <rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
3   xmlns:dc="http://purl.org/dc/elements/1.1/"
4   <rdf:Description>
5     <dc:creator>Marek, Christopher C.</dc:creator>
6     <dc:subject>Military helicopters, Ohio.</dc:subject>
7     <dc:subject>Army National Guard.</dc:subject>
8     <dc:subject>Kent State Shootings, Kent, Ohio, 1970.</dc:subject>
9     <dc:subject>Search-lights.</dc:subject>
10    <dc:subject>Students--(Ohio)--Kent--Interviews.</dc:subject>
11    <dc:subject>Kent State University. ROTC Building--Fires, 1970 gas munitions.</dc:subject>
12    <dc:subject>College students--Ohio--Kent--Interviews.</dc:subject>
13    <dc:description>Student at Kent State University in 1970.</dc:description>
14    <dc:identifier>1549</dc:identifier>
15    <dc:rights>This digital object is owned by Kent State University. Please include proper citation and credit for use of this item. Use in publications or productions is prohibited without written permission from Kent State University. Please contact the <a href="http://www.library.kent.edu/page/10300">Department of Special Collections and Archives</a> for more information.</dc:rights>
16    <dc:format>audio/wav.</dc:format>
17    <dc:type>sound.</dc:type>
18    <dc:title>Christopher C. Marek oral history.</dc:title>
19    <dc:coverage>Kent. (Ohio)</dc:coverage>
20    <dc:date>2000-08-04.</dc:date>
21    <dc:language>eng.</dc:language>
22  </rdf:Description>
23 </rdf:RDF>
```

Benefits of Migration

- Enables Linked Data applications
- Open Access digital collections
- Ability to cross-search collections (not currently available)

