

Batch Loading : p_manage_50, the Parameter Driven Loader

NAAUG Poster Session 2003
Donna Hirst and Kay Barron, University of Iowa
donna-hirst@uiowa.edu and kay-barron@uiowa.edu

This poster session describes batch dataloads, some using p_manage_50 and some not. The session includes select parameter tables that were used with various loads.

p_manage_50 Was Used to Create Holdings and Items from embedded bibl information

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------|---------|
| State Historical Society of Iowa – yes | 32,000 |
| These records were loaded in order to create a new Aleph Bibliographic Library. All records were from OCLC with 949 fields. | |
| American Antiquarian Society Early American Imprints – yes | 36,300 |
| This collection of microfiche cataloging came from OCLC with 099 fields. | |
| OCLC Based General Retrospective Conversion – yes | 265,078 |
| This large retrospective project was done through OCLC and utilized extensive, complex holdings data in the 949. | |
| Congressional Information Service (U. S. Executive Branch Documents) – yes | 8,500 |
| These CIS records included basic holdings information in the 099. | |
| Chinese, Japanese, Korean Retrospective Conversion (RLIN based) – yes | 37,500 |
| These records were loaded with holdings. The RLIN records came with 950/955 fields that were merged into a 949 with local programming. | |

p_manage_50 was not needed to create holdings or items

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| U.S. Library of Congress Authority records – no | 6 million |
| These authority records had no holdings. | |
| NetLibrary – no | 1300 |
| These bibliographic records include links to full text. No holdings are included. | |
| Chinese, Japanese, Korean RLIN snapshot (Pinyin) – no | 21,500 |
| These bibliographic records overlaid previous Wade Giles records. Original holdings were retained so no new holdings needed to be processed. | |

Aleph Programs used for Batch Loading

- | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| p_file_1 | Convert MARC records – Step 1 |
| Separates the input file into individual records (eg unblocks) | |
| p_file_2 | Convert MARC records – Step 2 |
| Converts the separated records from MARC format into Aleph Sequential Format | |
| p_file_08 | Modify MARC Record File (preprocessor) |
| Performs a set of fixes on a file of BIB records. Fixes can either be performed <u>before</u> the records are loaded into the database (with p_file_08), or <u>while</u> the records are being loaded in (with p_manage_18). Common examples: | |
| <ul style="list-style-type: none">• Moving the vendor's number from 001 to 035• Adding the library's OWN field to the record• Updating the date in the 008 with the open date of the record | |

1. It is possible to write a customized fix script to edit a document.
2. To modify the records before they are loaded in the database, set up a fix routine in the \$data_tab/import directory, then run p_file_08 and specify that fix routine as an input parameter. To modify the records as they are loaded in the database, use p_manage_18 and specify a fix routine defined in the tab_fix table, which in turn references a fix section in tab_doc_merge table. (Iowa uses the p_file_08 method)
3. It is possible to limit which records are loaded based on information in the fixed fields.

p_manage_18 Load Catalog Records

Loads BIB records into the database with two options:

- Add new records to the database
 - o Records are just added without looking for duplicates.
 - o Records load starting with the next DOC number.
- Updating existing records in the database provides 4 options.
 - o Append fields to a record
 - o Replace fields within a record
 - o Delete fields in a record
 - o Replace entire record
- Parameters allowed
 - o Append fields, replace fields, delete fields, replace records
 - o Change headings based on authority records or not
 - o Partial, full or no indexing
 - o Fix routine (for example, one that corrects Marc21 spaces)
 - o Converts character sets including Unicode

The file of document numbers can be used as an input file for p_manage_50.

p_manage_50 Create Holdings and Item Records Using BIB Data

Creates Items and Holdings records based on embedded information in the BIB records in the ALEPH database. P_manage_50 has two tables.

1. Requires an input file containing a list of document numbers. You can use p_ret_01 or p_manage_18.
2. As an option to 1 above, a range of specific document numbers can be entered.
3. You can specify the ADM Library if you want holdings records.
4. Specify the HOL library if you want to create holdings.
5. Document expand code allows you to create item and holding records from a designated bibliographic field. [So far Iowa has not used this parameter.]
6. The main field specifies which bibliographic field is to be used, eg 949##.
7. You may delete the main field after the HOL and ITM are created.
8. The Item creation table specifies the parameters for creating item records. See following examples included in the table section named "recon" and "shs".
9. The mapping table specifies the mappings between values extracted from the BIB record and values created into the HOL and ITM records. . See following examples included in the table section named "rcmap" and "shsmap".
10. Holdings Record Creation Mode allows three options:
 - a. N creates holdings only if the bibl record doesn't have any.
 - b. R deletes existing holdings and replaces them with new ones. (Iowa has used)
 - c. A adds new holdings whether or not there are existing holdings.
11. Item Creation Mode allows four options.
 - a. N creates items only if the bibl record doesn't have any.
 - b. R deletes existing holdings and replaces them with new ones. (Iowa has used)
 - c. A adds new items whether or not there are existing items.
 - d. M creates items records in addition to existing items, but replaces items that match a specified barcode.

12. Adds the cataloger and cataloger level to the BIB, ADM, and HOL

A typical batch job run. (State Historical Society loader)

Anytime day/night in order to Prepare records.
 run p_file_01 and p_file_02 to create Aleph Sequential files
 csh -f \$aleph_proc/p_file_01 IOW06,hdm11214,hdm.ub,01,0,00,
 csh -f \$aleph_proc/p_file_02 IOW06,hdm.ub,hdm.as,01,0,00,
 Local script on Bib data to pre-check location codes
 run p_file_08 for pre-edits, such as add OWN field, do editing of 049 field text
 csh -f \$aleph_proc/p_file_08 IOW06,hdm.cloc,hdm.pf8,hdm.pf8.rej,shs.fix,0,00,
 Local pre-processing scripts on Bib data, such as creating additional 949 fields,
 doing author & title editing

when libraries are closed in order to Load records.
 run p_manage_18 to create Bibs
 csh -f \$aleph_proc/p_manage_18
 IOW06,hdm.load,hdm.mrg,NEW,RECO,N,NONE,REP,X,OCLC_TO_UTF,CONV,50,0,00,
 Use list of BIB keys created by manage_18 run
 run p_manage_50 to create HOL and ITM recs
 csh -f \$aleph_proc/p_manage_50
 IOW06,shsbk,,,IOW56,IOW66,,949###,N,shs,shsmar,R,R,N,,50,,50,,50,Y,Y,
 various post-editing processes, for example :
 run p_print_03 to extract BIB 994 fields using bib key list from earlier step
 csh -f \$aleph_proc/p_print_03 IOW06,shsbk,Eng,994,,,,,,shs994,A,NONE,0,00,
 run p_manage_18 to delete 994 fields in BIB recs
 csh -f \$aleph_proc/p_manage_18 IOW06,shs994,shsh.mrg,OLD,,N,NONE,DEL,X,,NO-
 CAT,50,0,00,

Tables used in Recon loader process

"recon.fix" table in "/aleph/u54_5/iow01/tab/import" directory
 !-!!!!!!-!!!-!!-!!!!-!!!!-!!!!!!-!!!!!!-!!!!!!-!!!!!!-!!!!!!-!!!!!!-!!!!!!-!!!!!!
 1 005## DELETE-FIELD
 2 019## DELETE-FIELD
 3 049## DELETE-FIELD
 4 069## DELETE-FIELD
 5 096## DELETE-FIELD
 6 994## DELETE-FIELD
 7 LDR ADD-FIELD OWN ,L,\$\$aMAIN
 8 880## DELETE-FIELD
 9 100## DELETE-SUBFIELD 6
 9 110## DELETE-SUBFIELD 6
 9 111## DELETE-SUBFIELD 6
 9 230## DELETE-SUBFIELD 6
 9 240## DELETE-SUBFIELD 6
 9 245## DELETE-SUBFIELD 6
 (more subfields were deleted)

"recon" table in "/aleph/u54_5/iow01/tab" directory
 !
 ! 1 2 3 4 5 6 7 8 9 1 1
 !!!!!!!!!!!!!!!!!!!!!!!-!!!!!!-!-!!!!!!-!!!!!!-!!!!!!-!!!!!!-!!!!!!-!!!!!!-!!!!!!-!!!!!!-!!!!!!-!!!!!!-!!!!!!
 HOL-OWN Y a OWN a
 CALL-NO abkq9 Y hikj9
 SUB-LIBRARY l N
 COLLECTION l N
 COPY c N
 Z30-ITEM-STATUS l N
 Z30-CATALOGER x N

CALL-NO-TYPE j N
Z30-MATERIAL z N

"tab_fix" table, "RECO" section in "/aleph/u54_5/iow01/tab" directory
! 1 2 3
!!!!-!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
RECO fix_doc_oclc_2
RECO fix_doc_blank_char_fixed
RECO fix_doc_notis_1_c

"rcmap" table in "/aleph/u54_5/iow01/tab" directory
! 1 2 3 4
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
CALL-NO-TYPE Y L 0
CALL-NO-TYPE Y D 1
CALL-NO-TYPE Y X
CALL-NO-TYPE Y Y 4
SUB-LIBRARY Y bus BUS
SUB-LIBRARY Y chem CHEM
SUB-LIBRARY Y chem,osiz CHEM
SUB-LIBRARY Y engn ENGN
SUB-LIBRARY Y main MAIN
SUB-LIBRARY Y main,acq MCPS
(more SUB-LIBRARY entries)
COLLECTION Y bus LIB
COLLECTION Y chem LIB
COLLECTION Y chem,osiz OSIZ
COLLECTION Y curr LAB
COLLECTION Y engn LIB
COLLECTION Y geol LIB
COLLECTION Y hsl,av AV
COLLECTION Y hsl,micr MICR
(more COLLECTION entries)
Z30-ITEM-STATUS Y bus 01
Z30-ITEM-STATUS Y chem 01
Z30-ITEM-STATUS Y chem,osiz 01
Z30-ITEM-STATUS Y curr 40
Z30-ITEM-STATUS Y engn 01
Z30-ITEM-STATUS Y hsl,micr 96
Z30-ITEM-STATUS Y main,acq 10
(more Z30-ITEM-STATUS entries)

Tables used in State Historical Society loader process

"shs.fix" table in "/aleph/u54_5/iow06/tab/import" directory
!-!!!!-!!!-!-!!!!-!!!!-!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!-!!!!!!!!!!!!!!!!!!!!
1 LDR ADD-FIELD OWN ,L,\$\$aSHSI
2 049 REPLACE-STRING [*]IOQA, IOQD
2 049 REPLACE-STRING [*]IOQD, IOQD
2 049 REPLACE-STRING [CENSUS]IOQA, IOQB
2 049 REPLACE-STRING [MANUSC.]IOQA, IOQF
2 049 REPLACE-STRING [MANUSC.]IOQA, IOQF
2 049 REPLACE-STRING [MICRO.][*]IOQB, IOQI
2 049 REPLACE-STRING [MICRO.]IOQA, IOQI
2 049 REPLACE-STRING [MICRO.]IOQB, IOQI
3 994## DELETE-FIELD

"tab_fix" table, "RECO" section in "/aleph/u54_5/iow06/tab" directory

```
! 1 2 3
!!!!-!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!>
RECO fix_doc_oclc_2
RECO fix_doc_marc21_spaces
```

"shs" table in "/aleph/u54_5/iow06/tab" directory

```
! 1 2 3 4 5 6 7 8 9 1 1
! 1 2 3 4 5 6 7 8 9 0 1
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
CALL-NO abkq Y hikj
SUB-LIBRARY l N
COLLECTION l N
COPY c N
Z30-ITEM-STATUS z N
Z30-CATALOGER z N
CALL-NO-TYPE j N
Z30-MATERIAL z N
```

"shsmap" table in "/aleph/u54_5/iow06/tab" directory

```
! 1 2 3 4
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
SUB-LIBRARY Y [ATLAS]IOQA IC
SUB-LIBRARY Y IOQI IC
SUB-LIBRARY Y [*]IOQI IC
SUB-LIBRARY Y [F*]HDMA DM
SUB-LIBRARY Y [*][F]HDMB DM
SUB-LIBRARY Y NIOA NEWS
(more SUB-LIBRARY entries)
COLLECTION Y [ATLAS]IOQA ATLAS
COLLECTION Y [ATLAS]IOQD ATLAS
COLLECTION Y IOQI MICRO
COLLECTION Y [*]IOQI MICRO
COLLECTION Y NIOA ICNEW
(more COLLECTION entries)
Z30-ITEM-STATUS Y DEF 01
Z30-CATALOGER Y DEF CONV
Z30-MATERIAL Y DEF BOOK
```