



A Better Way to Display and Print AS/400 File Information

by Jean Driscoll, Holiday Retirement

Editor's Note: I'm not a programmer, but this is a cool article! Wouldn't it be nice if there were an AS/400 command that would print important file information like field definitions, keys, and dependent logical files? Users often come to technical folks with questions about file layouts. Here are two useful commands and the code needed to get them working.

AS/400 Database Tools - PRTF/PRTDDBR

JDE's database includes files with many fields and indices or related files. Using the DSPFFD and DSPDDBR AS/400 commands, you can see either the list of fields in the file or the related indices. However, the formats of these screens are difficult to follow. So I've created two customized commands for my users: PRTF and PRTDDBR.

PRTF – Prints the field definitions, keys and dependent logical files. I use this command most often when I'm helping someone with a query, to show them which fields have what data. It also comes in handy when programming if you need to program-describe any data structures in RPG. This printout is handy on the occasion when you're looking for fields to store some data.

```
File . . . . . : QPRINT                      Page/Line  1/2
Control . . . . :                               Columns  1 - 78
Find . . . . . :                               .
*...+...1...+...2...+...3...+...4...+...5...+...6...+...7...+...
RUN BY . . . . : QJEAND                      PR - PRINT FILE LAYOUT      PAGE . . . . .
RUN DATE . . . : 03-10-03 11:47                                PROGRAM . . . PRTF
File Name/Format: F0111.CRPDTA / I0111
File Description: Address Book - Who's Who

  WWAN8      8S 0   1   8 Address Number . . . . .
  WWIDLN     5P 0   9  11 Who's Who Line . . . . .
  WWDSS5     5S 2  12  16 Display Sequence . . . . .
  WWMLNM     40A   17  56 Mailing Name . . . . .
  WWATTL     40A   57  96 Professional Title . . . . .
  WWREM1     40A   97 136 Remark 1 . . . . .
  WWSLNM     40A  137 176 Salutation Name . . . . .
  WWALPH     40A  177 216 Alpha Name . . . . .
  WWDC       40A  217 256 Description - Compressed . . . . .
  WNGNNM     25A  257 281 Given Name . . . . .
  WWMDNM     25A  282 306 Middle Name . . . . .
                                                                More...

  WWUPMJ      6S 0 463 468 Date Updated . . . . .
  WWJOBN     10A   469 478 Work Station ID. . . . .
  WWUPMT      6S 0 479 484 Time Last Updated. . . . .

Key Fields: ** UNIQUE **
  WWAN8      Ascending
  WWIDLN     Ascending

Dependent Logical Files:
  F0101JB.CRPDTA
  F0111LB.CRPDTA
  F0111_1.CRPDTA
  F0111_2.CRPDTA
  F0111LC.CRPDTA
  F0111LE.CRPDTA
  F0111LF.CRPDTA
  F0111LA.CRPDTA
  F0111LD.CRPDTA
```



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PRTDBR – Prints logical files and keys with those files. Again, I use this command most often when deciding which file to use as a primary file in a query. The AS/400 Query Optimizer will also look for the best data path. When using the AS/400 database monitor, you can compare the 'Indexes Advised' to already existing indices and see if you can manipulate an existing index versus creating a new data path. The DSPDBR command shows you the names of related files, but does not show the index definition. With this printout you can also find duplicate indices. If the same index is created for OneWorld as for World, the OneWorld index can be deleted, thus helping performance by not needing to update multiple indices.

```

RUN BY ..... QJEAND                      DATABASE RELATIONS FOR FILE: F0111      IN LIBRARY: CRPDTA
RUN DATE ... 03-10-03 11:58
RELATED FILE  LIBRARY    ACPH UNIQ SEL/OMT JOIN KEYS
F0101JB      CRPDTA      D    N    N    Y  ABAN8 A,
F0111LE      CRPDTA      I    N    N    N  WWAN8 A,WWDC A,
F0111LB      CRPDTA      I    N    N    N  WWAN8 A,WWDCS5 A,WWIDLN A,
F0111_1      CRPDTA      I    Y    N    N  WWAN8 A,WWIDLN A,
F0111LC      CRPDTA      I    N    N    N  WWAN8 A,WWMLNM A,
F0111_2      CRPDTA      I    N    N    N  WWAN8 A,WWTYC A,
F0111LA      CRPDTA      I    N    N    N  WWAN8 A,WWTYC A,
F0111LD      CRPDTA      I    N    N    N  WWDC A,
F0111LF      CRPDTA      I    N    N    N  WWIDLN A,WWAN8 A,
                                         ** END OF REPORT **
```

To use these commands, follow the directions below to restore objects to library PRTF. Then, add that library to your library list before issuing the commands.

Available as a separate download in the JDEtips Document Library is a Save File called PRTF, which should be FTP-uploaded to the AS/400, then the library PRTF restored.

How to Upload Save Files from a PC to the AS/400 using FTP

1. On the AS/400 create a Save File (Object Type: *SAVF) in a temporary library.
2. CRTSAVF FILE(*templib*/PRTF)

Note: *templib* is the name of your library and *PRTF* is the name of your save file.
3. Save the File Attachment you received via e-mail to your PC hard drive. Use the Save As command and note the name you give this attachment.
4. Open a DOS session/window on your PC and type the following commands when prompted:
5. C:\>ftp
6. ftp> open *AS/400 Name*

Connected to *AS/400 Name*.

220-QTCP at *AS/400 NAME*.AS/400 NAME.

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