

Reading data from external physical file and PRINT in an External printer file

RPGLE

```
Columns . . . : 6 76          Browse          AMIRX2/QRPGLESRC
SEU==> _____ EMP_LIST_T
FMT *  *. 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+.
***** Beginning of data *****
0001.00 **PLOYEES IP E K DISK
0001.01 FEMPLOYEES IP E K DISK
0002.00
0002.01 FPRINTIT 0 E PRINTER OFLIND(*IN90)
0003.00 *****
0004.00 D NAME S 15A
0005.00 /FREE
0005.01 EVAL NAME = 'AMIR';
0005.02 // EXCEPT HEADER;
0006.00 WRITE HEADER;
0007.00 /END-FREE
0007.01 C SETON LR
0008.00 *****
0012.00 ***** End of data *****
```

It reads from the file employees (a physical file PF) which is created by STRSEU and prompt (f4) in QDDSSRC library with emp_number, emp_name, emp_rate attributes like image

```
Columns . . . : 1 71          Edit          AMIRX2/QDDSSRC
SEU==> _____ EMPLOYEES
FMT A* .....A*. 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
***** Beginning of data *****
0000.01 *****
0001.00 A R EMP_REC
0002.00 A EMP_NUMBER 5 TEXT('EMPLOYEE NAME')
0003.00 A EMP_NAME 16 TEXT('EMPLOYEE NUMBER')
0004.00 A EMP_RATE 5 2 TEXT('RATE')
0005.00 A K EMP_NUMBER
***** End of data *****
```

Then compile the QDD file to create an object of that. Also use STRSQL to insert some data into the physical file.

Then it reads the employees and then write name amir into print file where Name is defined as a variable as in file PRINTIT (PRTF) is defined and compile it.

```

Columns . . . : 1 71          Browse          AMIRX2/QDDSSRC
SEU=> _____ PRINTIT
FMT DP . . . . AAN01N02N03T.Name+++++RLen++TDpBLinPosFunctions+++++
***** Beginning of data *****
0001.00
0002.00      A      R HEADER
0003.00      A      NAME      11A      11
***** End of data *****

```

There is Error 30 records when you compile.

Solution:

Name length in RPEL file is defined as 15A but in RPTF print file is 11, they should be same !

ISSUE:

When there is no access to a compiled PF, then check EDTLIBL to see whether your library is listed or not.

QSYS Read from a file and print it into Spool file

Read info from an External same file Employees PF then write it into that spool file by initializing the name variable with amir and writing command EXCEPT.

```

Columns . . . : 6 76          Edit          AMIRX2/QRPGLESRC
SEU=> _____ EMP_LIST
FMT FX FFilename++IPEASF.....L.....A.Device+.Keywords+++++
***** Beginning of data *****
0001.01 FEMPLOYEES IP E K DISK
0002.00 FQSYSPRT 0 F 110 PRINTER OFLIND(*INOV)
0002.01
0003.00 *****
0004.00 D NAME S 5A
0005.00 /FREE
0005.01 EVAL NAME = 'AMIR';
0005.02 EXCEPT HEADER;
0007.00 /END-FREE
0007.01 C SETON LR
0008.00 *****
0009.00 QQSYSPRT E HEADER 1 1
0011.00 0 +2 '+++++'
0012.00 0 NAME 7
***** End of data *****

```

Only starting with O and using 1 1 to declare 1 before and 1 after command space, +2 is using after 2 cursors.

Because the name is 5A and print is 7, so there is no error, but reverse gives you error.

Here is our file :

```

                                Display Data
                                Data width . . . . . :      38
Position to line . . . . . _____ Shift to column . . . . . _____
.....1.....2.....3.....
EMP_NUMBER  EMP_NAME          EMP_RATE
  amir       1                17.00
  tan        3                 .00
  frank      2                33.00
***** End of data *****

```

Read from file and write into a file

This program read from file employees PF all attributes and write into a file RPTF Printit a specific attribute EMP_NAME.

The Printit is like :

```

Columns . . . :    1  71          Edit          AMIRX2/QDDSSRC
SEU==> _____ PRINTIT
FMT DP . . . . AAN01N02N03T.Name+++++RLen++TDpBLinPosFunctions+++++
***** Beginning of data *****
0001.00
0002.00      A          R HEADER
0003.00      A          EMP_NAME      16A      11
***** End of data *****

```

And the fie which read and write that specific attribute is as below:

```

Columns . . . :    6  76          Edit          AMIRX2/QRPGLESRC
SEU==> _____ EMP_LIST_T
FMT FX FFilename++IPEASF.....L.....A.Device+.Keywords+++++
***** Beginning of data *****
0001.01 FEMPLOYEES IP      E          K DISK
0002.01 FPRINTIT  O      E          PRINTER OFLIND(*IN90)
0003.00 *****
0004.00 D NAME          S          15A
0005.00  /FREE
0006.00  WRITE HEADER;
0007.00  /END-FREE
0007.01 C          SETON          LR
***** End of data *****

```

Read specific attribute from a file and print that specific attribute into a spool file

Below program will read the employees file and extract the attribute EMP_NAME and when we mention it in header reference it know it and print it into spool file.

```
Columns . . . : 6 76          Edit          AMIRX2/QRPGLESRC
SEU==> _____ EMP_LIST
FMT FX FFilename++IPEASF.....L.....A.Device+.Keywords+++++++
***** Beginning of data *****
0001.01 FEMPLOYEES IP   E           K DISK
0002.00 FQSYSPRT   0   F   110       PRINTER OFLIND(*INOV)
0003.00 *****
0005.00 /FREE
0005.02   EXCEPT HEADER;
0007.00 /END-FREE
0007.01 C                SETON                      LR
0008.00 *****
0009.00 OQSYSPRT   E           HEADER      1   1
0011.00 0                                +2 '+++++'
0012.00 0                EMP_NAME          16
***** End of data *****
```

ISSUE:

If EMP_NAME was less than 16 it gives us 30 errors? Why?

Anw: because EMP_NAME in external physical file defines as 16 so the print file should be equal or bigger

How to find and read a physical file line Printit?

Resource for RPG ILE <http://publib.boulder.ibm.com/iserics/v5r1/ic2924/books/c0925073.pdf>

SPOOL FILES:

When you compile a program like this, it doesn't create a spool file to be check by(wrksplf) and it just run. Unless you added write command into header in line 5 or 6 like

Write header, and if the header is defined in pf file PRINTIT.

```

Columns . . . :   6 76           Edit           AMIRX2/QRPGLESRC
SEU==> _____ HEADER1
FMT FX FFilename++IPEASF....L....A.Device+.Keywords+++++++
      ***** Beginning of data *****
0001.01 FEMPLOYEES IP   E           K DISK
0002.01 FPRINTIT   0   E           PRINTER OFLIND(*IN90)
0003.00 *****
0003.01
0004.00 D NAME           S           15A
0005.00 /FREE
0006.00   DSPLY 'EAD';
0007.00 /END-FREE
0007.01 C               SETON               LR
      ***** End of data *****
-

```

THIS IS READING FROM ITEML1.

```

Columns . . . :   6 76           Edit           AMIR/QRPGLESRC
SEU==> _____ ITEMAMIR
FMT FX FFilename++IPEASF.....L.....A.Device+.Keywords+++++++
***** Beginning of data *****
0015.00 FITEML01  IF  E           K DISK
0017.00 FITEMX   0  E           PRINTER OFLIND(*IN99)
0024.00 /FREE
0024.01 WRITE HEADER;
0024.02 WRITE LIHEADER;
0024.03 SETLL *START ITEMLO1;
0024.04 DOU %EOF(ITEMLO1);
0024.05 READ ITEMLO1;
0024.06 IF %EOF(ITEMLO1);
0024.07 LEAVE;
0024.08 ENDIF;
0024.09 WRITE DETAILS;
0024.15 ENDDO;
0024.16 DSPLY 'AMIR';
0025.00 EVAL *INLR = *ON;
0026.00 /END-FREE

```

ITEMX PRTF

Columns . . . : 1 71 Browse AMIR/QDDSSRC

SEU==> _____ ITEMX

FMT DPAAN01N02N03T.Name+++++RLen++TDpBLinPosFunctions+++++*****

***** Beginning of data *****

0001.00	A	R HEADER	
0002.00	A		SKIPB (001)
0003.00	A		1
0003.01	A		'DATE'
0003.02	A		11
0004.00	A		DATE
0005.00	A		EDTCDE (Y)
0006.00	A		
0008.00	A		44
0009.00	A		'ITEM DESCRIPTION DETAIL RE
0010.00	A		+44
0011.00	A		'Page: '
0012.00	A		+1
0013.00	A		PAGNBR
0014.00	A		EDTCDE (Z)
0015.00	A	R L1HEADER	

ITEMX

+++++

0017.00	A				1	
0018.00	A				'ITEM NBR'	
0019.00	A				+1	
0020.00	A				'ITEM DESCRIPTION'	
0021.00	A				+35	
0022.00	A				'CATEGORY DESCRIPTION'	
0023.00	A				+31	
0024.00	A				'ITEM PRICE'	
0025.00	A		R DETAILS			
0026.00	A				SPACEB(001)	
0027.00	A		ITITNO	R	0	1
0028.00	A					REFFLD (ITEMR/ITITNO
0029.00	A					L01)
0029.01	A					EDTCDE (Z)
0030.00	A		ITITDS	R	0	+2
0031.00	A					REFFLD (ITEMR/ITITDS
0032.00	A					L01)


```

Columns . . . : 1 71 Browse AMIR/QDDSSRC
SEU==> _____ ITEMLO1
FMT A* .....A*. 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
***** Beginning of data *****
0001.00 *****
0002.00 *
0003.00 * LF: ITEM
0004.00 * Dsc: List of items e.g. a catalog of items
0005.00 * keyed by item number
0006.00 *
0007.00 *
0008.00 *****
0009.00 A R ITEMR PFILE (ITEM)
0010.00 A K ITITNO
***** End of data *****

```

```

Columns . . . :   6  76          Browse          AMIR/QRPGLESRC
SEU==> _____ SQLDEM01
FMT *   *. 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+.
          ***** Beginning of data *****
0001.00 *****
0001.01 *
0001.02 * This is a simple piece of code where you retrieve all fields *
0001.03 * from a file.
0001.04 *
0001.05 *
0001.06 *
0002.00 *****
0003.00 FSQLEDEMOPRTO      E          PRINTER OFLIND(*IN99)
0003.01
0003.02 DdsSTUMAS          E DS          EXTNAME(STUMAS)
0003.03
0004.00 C/EXEC SQL
0004.01 C+ DECLARE C1 CURSOR FOR
0005.00 C+ SELECT * FROM STUMAS WHERE SMTITL IN ('MS','MISS','MRS','LADY')
0006.00 C/END-EXEC

```

```

0008.00 C/EXEC SQL
0009.00 C+ OPEN C1
0010.00 C/END-EXEC
0011.00
0011.01 C          WRITE      HEADER
0012.00 C      SQLCOD      DOUEQ      100
0013.00 C      SQLCOD      ORLT       0
0013.01
0013.02 C/EXEC SQL
0013.03 C+ FETCH C1 INTO :dsSTUMAS
0013.04 C/END-EXEC
0013.05
0013.06 C      SQLCOD      IFEQ       100
0013.07 C      SQLCOD      ORLT       0
0013.08 C          LEAVE
0013.09 C          ENDIF
0013.10

```

```

0013.12 C      *IN99      IFEQ      *ON
0013.13 C          SETOFF                      99
0013.14 C          WRITE      HEADER
0013.15 C          -      ENDIF
0013.16
0013.17 C          EVAL      FULLNAME = %TRIM(SMTITL) + ' '
0013.18 C          + %TRIM(SMFFSM) + ' ' + %TRIM(SMFSNM)
0013.19 C          WRITE      DETAIL
0014.00 C          ENDDO
0014.01 C/EXEC SQL
0014.02 C+ CLOSE C1
0014.03 C/END-EXEC
0015.00 C          SETON                      LR

```

***** End of data *****

```

      FMT ** ... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+.
0013.03 C+  FETCH C1 INTO :dsSTUMAS
0013.04 C/END-EXEC
0013.05
0013.06 C      SQLCOD      IFEQ      100
0013.07 C      SQLCOD      ORLT      0
0013.08 C
0013.09 C      ENDIF
0013.10
0013.11 * PAGE OVERFLOW
0013.12 C      *IN99      IFEQ      *ON
0013.13 C      SETOFF
0013.14 C      WRITE      HEADER
0013.15 C      -
0013.16
0013.17 C      EVAL      FULLNAME = %TRIM(SMTITL) + ' '
0013.18 C      + %TRIM(SMFFSM) + ' ' + %TRIM(SMFSNM)
0013.19 C      WRITE      DETAIL

```