



## RW Tips and Tricks Still Learning after All These Years



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MUSE 2018 Orlando Educational Session

## Then and Now..



Meditech Company Picnic Shirt  
from stuffed toy August 1991



Save the date June 28 2019

## Then and now..



1994 Dell Mechanical Keyboard  
RIP 5/10/2018

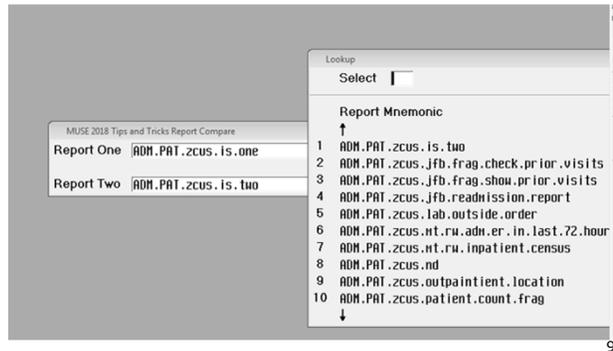


## Agenda – NPR Report Writer

- 1 Report Compare – ExamDiff
- 2 Report Compare w/ utility
- 3 Magic Only – Fake the @.gui
- 4 Edit Elements/Edit Picture Reminder
- 5 Break report run into multiple files
- 6 Magic Only - Append to files



Both reports have computed fields (IG) with report lookup



9

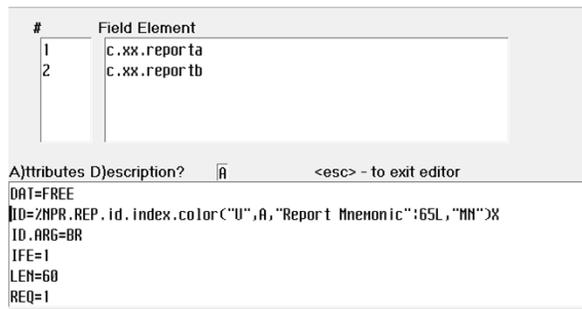
So get c.xx.reporta, c.xx.report  
- set /urn to one of them in start macro to print 1 record

Magic screen - C/S is same



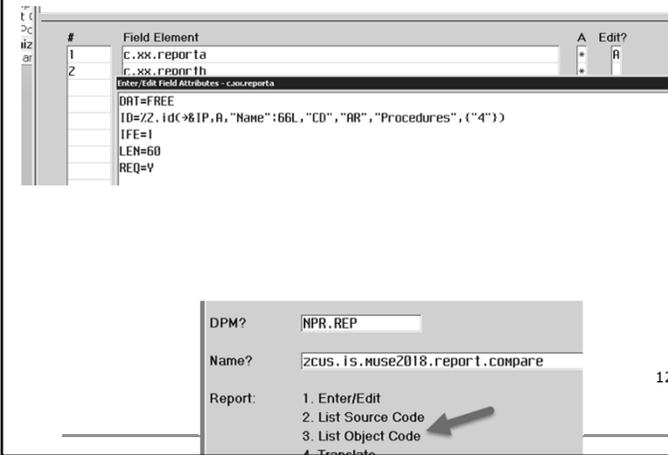
10

Edit Elements ID= Magic Version



11

Edit Elements ID= C/S Version



12

### How to figure out ID program call?

How can you figure out how to call ID program?  
Look at Object code – in Magic %FEC and E

In C/S:

Screen Z\CNPR)REP..zcus.is.muse2018.report.compare.S  
Screen After Input Z\CNPR)REP..zcus.is.muse2018.report.compare.SA  
Screen Before Input Z\CNPR)REP..zcus.is.muse2018.report.compare.SB

DPM? NPR.REP

Name? zcus.is.muse2018.report.compare

Report:

1. Enter/Edit
2. List Source Code
3. List Object Code
4. Translate
5. Run
6. Copy

13

### Sample output – Report Compare

14

### Fake the @.gui

```
EDM: | INADEQUATE.WORKSTATION
    | IF(@Z.rpt.fragment 1>@EDM.U.gui.not.required),
    | IF(@.gui;
    | @EDM.U.gui.not.required)=.,.

RXM | @MAYBE.START.SIGN.ON.INITS,
    | /.FROM.PCI """;
    | ; @EDM.U.gui.not.required = /.HE.NO.GUI
    | ; We use the slash version here because this flag is used from PHA (PHA.GENERIC.ec)
    | ; when calling RXM when filling. Since the site may not have EDM, we do not want
    | ; translation issues with the user of an EDM.U element.
    | IF(@Hot(@.gui)&@(#) @Hot(/.HE.PCI)&@Hot(/.HE.NO.GUI)&@Not(@RXM.U.gui.not.required)) @W.err
    | /; @.GUI.ON """;
```

Make a copy of NPR.customization.menu.color

Imbed

15

### Set Flag in Menu Title

Make copy of NPR.customization.menu.color  
Add program call to menu title

16

Ahh.. Now you can run EDM and RXM reports in the colors you love..

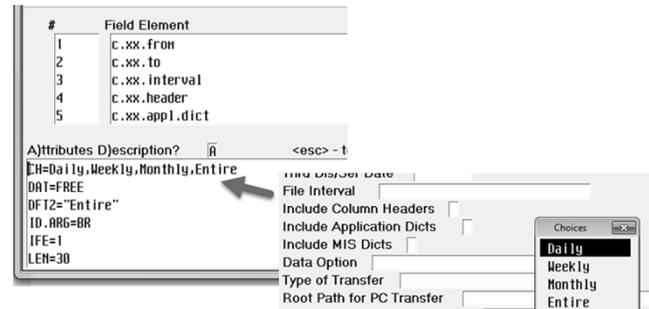


Other uses – if central menu for doctors – Nagging!

17

Edit Elements (Magic and C/S)  
Edit Picture (Magic)

Use CH to provide run options



Other Attributes

IFE and REQ can be used to make reports more flexible

FCL attributes can error check user input

DFT2 can be used for more flexible defaults

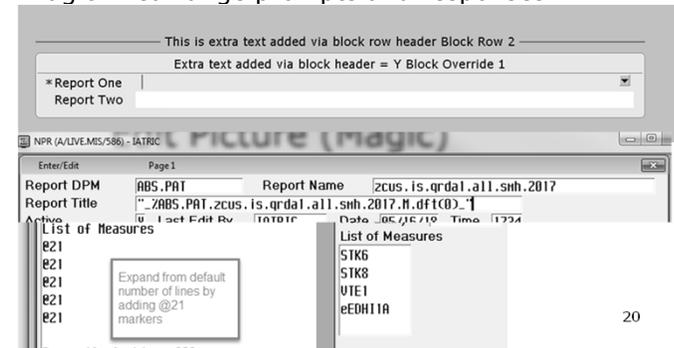
ID (as seen in report compare utility) can call Meditech or your own custom ID program

19

Edit Picture (Magic) Edit Elements (C/S)

Allows you to add extra text to screen

Magic - rearrange prompts and responses



20

## Break long report into multiple files

Magic – FTP or write to local PC  
C/S – file writing utilities

For Magic – set up FTP Remote Host

Enter/Edit FTP Remote Hosts

Mnemonic IAT.FTP1ST Last Edited by IATRIC on 05/22/2018-1322

Active

Name Test FTP to R00

Domain Name Or IP Address 10.16.5.101

Logon/Username iatr icftp

Password \*\*\*\*\*

Directory Path \MUSETEST\

Suppress FTP Display  Passive Connect

Secure?  Explicit/Implicit?

MAGIC IP Host Segment A

21

## Magic Screen Interval Options / Output Options

One Report - Multiple Files

From Discharge/Service Date 01/01/17

Thru Discharge/Service Date 12/31/17

File Interval

Output Option

FTP Remote Host to Use

Path for PC Files

Choices

- Daily
- Weekly
- Monthly
- Entire

Choices

- FTP
- PC File
- Do Not Divert

22

## "dates" macro

Write macro that builds array like this  
/DATE.INDEX[start.date] = end.date

So if entire, and user picks all of 2017  
/DATE.INDEX[20170101] = 20171231

If by month for year

/DATE.INDEX[20170101] = 20170131

/DATE.INDEX[20170201] = 20170228

/DATE.INDEX[20170301] = 20170331

...

/DATE.INDEX[20171201] = 20171231

23

## Magic FTP or PC Download

Per each interval

- Divert output to saf in ftp root directory
  - Send header if desired
  - Send data
  - Transmit file – FTP.GHT or \$COPY2DOS
- Repeat for next interval until done

24

### Basic Loop

```

NPR (A|TEST.5.67|MS/74) - IATRC ***TEST ***
Enter/Edit Macro Logic BAR.PAT.zcus.is.muse2018.multiple.files.M.d. (A)
/BAR.PAT.zcus.is.muse2018.multiple.files.M.date.index(0),
{C9}>>TAB,
S{C}J>>JOB,
#MAC>SSS,
IF {L{C.c.xx.path}>>LEND 0 1,
    IF {C.c.xx.path{LEN-1}="\";c.xx.path.\">c.xx.path}},
DO {+C/DATE.INDEX(FROM),THRU}>>FROM 1,
    @DIVERTE_OUTPUT,
    @WRITE_HEADER,
    @SEND_RECORDS,
    @TRANSMIT_FILE,
EXIT:
SEND.RECORDS
FROM-1>bar.dis.ser,
DO{@Next(bar.dis.ser,@discharge.x)}>THRU 1,
DO{@Next(account,@discharge.x) 1,
DO{@Next(txn.class) 1,
DO{@Next(txn.urn) 1,
IF{L{C"CRAP",@txn.type}<4 @SEND.EACH}}}}
    
```

25

### Build Array of Dates Many ways .. %Z.date.add

```
%BAR.PAT.zcus.is.muse2018.multiple.files.M.date.index(0)
```

If entire then end^/DATE.INDEX[start]

Daily go by 1's and build date pairs

If weekly, go by day, when DOW=7 file week  
saturday^/DATE.INDEX[sunday]

If monthly add 1 to month, if 13, go to next  
year 01, then subtract one day  
end.month^/DATE.INDEX[start.month]

26

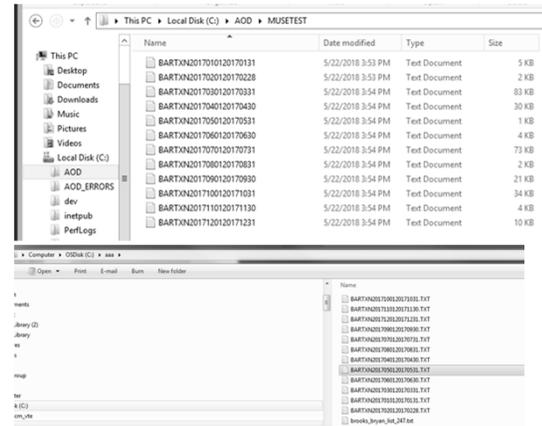
### Example - Monthly

```

MONTHLY
C.xx.from$4>YEAR,
C.xx.from/3$2>MON,
YEAR_MON_01>c.xx.from>DATE,
DO{DATE}'>c.xx.to 1,
    DATE$4>YEAR,
    DATE/3$2>MON,
    MON+1>MON, IF{MON>12 "01">MON, YEAR+1>YEAR},
    IF{L{MON}=1 "0"_"MON">MON},
    YEAR_MON_"01">NDATE,
    %Z.date.add(NDATE,0-1)>END,
    END>/DATE.INDEX[DATE],NDATE>DATE}
    
```

27

### FTP / or Download..to...Local Drive



28

## Magic FTP with APPEND

```

: ARGS
: A = (Remote.host,User,Password,Param.I,Param.S,cmd,Remote.path,Local.path,
:      Recursive.mode,Suppress.crIf,Report),
: remote.host - IP address or domain.name : required
: user - client login username ie. "anonymous" : required
: pw - client login password ie. "guest" : optional
: param.I - character type ie. ascii or binary : optional , default=ascii
: param.S - file structure ie. file or directory : optional , default=file
: cmd - transfer command : required
:      ie. (Put, Append, Get,
:      Directory.info, List directory contents
:      Kill/Delete/Remove)
: remote.path - argument for transfer command, : required for Put/Get/Kill/Append
:      ie pathname on remote host : optional for informational
    
```

One Report - By Interval Append to FTP File

From Discharge/Service Date 01/01/17

Thru Discharge/Service Date 12/31/17

File Interval Monthly

FTP Remote Host to Use IAT.FTPST

File Name ONEBIGONE.TXT

29

## Sends 1 file per interval

File Name	Date	Time	Type	Size
BART\N2017010120170131	5/22/2018	3:53 PM	Text Document	5 KB
BART\N2017020120170228	5/22/2018	3:53 PM	Text Document	2 KB
BART\N2017030120170331	5/22/2018	3:54 PM	Text Document	83 KB
BART\N2017040120170430	5/22/2018	3:54 PM	Text Document	30 KB
BART\N2017050120170531	5/22/2018	3:54 PM	Text Document	1 KB
BART\N2017060120170630	5/22/2018	3:54 PM	Text Document	4 KB
BART\N2017070120170731	5/22/2018	3:54 PM	Text Document	73 KB
BART\N2017080120170831	5/22/2018	3:54 PM	Text Document	2 KB
BART\N2017090120170930	5/22/2018	3:54 PM	Text Document	21 KB
BART\N2017100120171031	5/22/2018	3:54 PM	Text Document	34 KB
BART\N2017110120171130	5/22/2018	3:54 PM	Text Document	4 KB
BART\N2017120120171231	5/22/2018	3:54 PM	Text Document	10 KB
ONEBIGONE	5/22/2018	4:17 PM	Text Document	262 KB

```

IF (LEN>0 IF (FTPDIR#(LEN-1)="\";FTPDIR_"\>FTPDIR}),
FTPDIR_FNAME#FNAME,
%("FTP.GHT")(C(IP,USER,PW,"I", "", "P",FNAME,SHARE, "", ""), 120,0T)>RESULT
    
```

```

IF (LEN>0 IF (FTPDIR#(LEN-1)="\";FTPDIR_"\>FTPDIR}),
FTPDIR_c.xx.path#FNAME,
%("FTP.GHT")(C(IP,USER,PW,"I", "", "A",FNAME,SHARE, "", ""), 120,0T)>RESULT
    
```

30

## Client Server

Create File @File.create  
 Write Records @File.open, @File.write  
 Close File @File.close

Different syntax for "three tier" vs "two tier"

Since in C/S you write files natively, no need for a "write data in pieces to one big file"

31

Three tier – what do you mean by the path..

```

CREATE FILE
FNAME#File.create

CREATE FILE.THREE
@Execute.3tier(@Z.quote_FILE_@Z.quote_@Quote(@File.create))

OPEN FILE
FNAME#File.open

OPEN FILE.THREE
@Execute.3tier(@Z.quote_FNAME_@Z.quote_@Quote(@File.open))
    
```

32

## C/S File Macros (circa 2003)

### MagicCS NPR File Macros

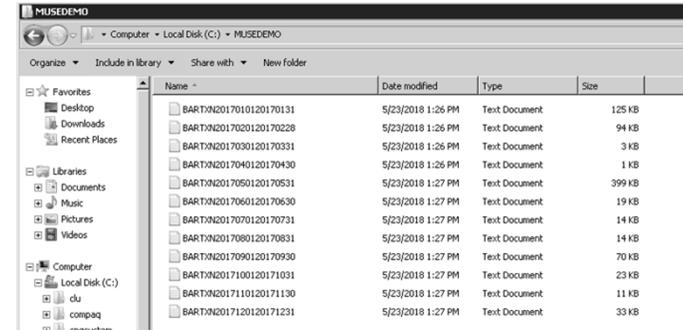
Macro	Code
@Close-search.handle	@ZFC
@File_audit.trail	Call to %Z.file.audit
@File.attributes	@Fa
@File.chmod	@Fc
@File.copy	@FC
@File.create	@FA
@File.date	@Fd
@File.delete	@FD
@File.handle	@Fh
@File.move	@FM
@File.open	@FO
@File.open.dialog	@FO
@File.open.exclusive	@Fx
@File.open.read.only	@Fi
@File.position.hex	@Fb
@File.position.end	@Fe
@File.position.start	@Fs
@File.position.pos	@Fp
@File.read	@Fr
@File.save.dialog	@FS
@File.size	@Fs
@File.truncate	@Ft
@File.utime	@Fu
@File.version	@FV
@File.write	@Fw
@First.file	@ZFF
@Next.file	@ZFN

### For New MagicCS Programmers



33

## From 6.08 Site – Test Ring



34

## Report Designer.



35

## Print Assessments from Template

This article:

<https://www.meditech.com/meditechmagazine/pages/0612NprRw5.htm>

This report from archive: #1385

Issues

Only works with PcsAcctAct.IntActivity

Only does 6 multiples

Does not use nested IF/DO

PcsAcctAct slow for more than 1 pt or short date range

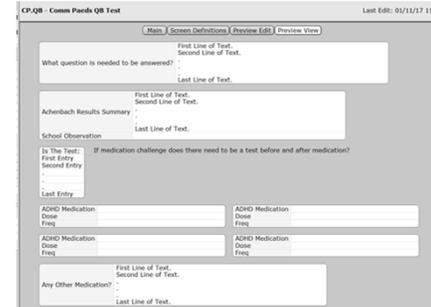
36

### MIS.PRINT.SCREEN but for M/AT

Print an Entire M-AT CDS with query responses, using just one RD custom field and field attributes

37

### Sample screen – need to pull all responses



### Setting up "c\_field"

Add Customer Defined screen attribute  
Specify Data Record  
Either hard-code screen mnemonic or have rule return it



### Rule to return OM procedure screen

Subscript field "FacilityCustomDataScreen" from the OmOrdDict dictionary with the order procedure and order facility, using the current detail order

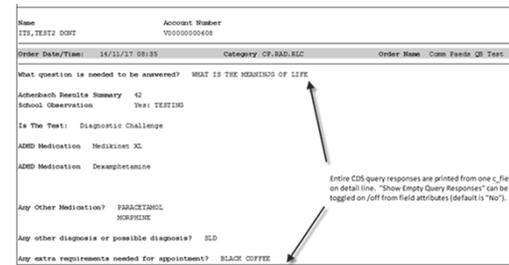


### C\_field is placed in a detail region on layout



c\_screen field is placed on layout at detail level - it is a plain text field and width can be set from within attribute on field setup page.

### All query responses returned



Entire CSR query responses are printed from one c\_field on detail line. "Show Empty Query Responses" can be toggled on/off from field attributes (default is "No").

### Quicker input of date/time values

How to prompt user for just a date range and add default values for the time to provide automatic 00:00 and 23:59.

Now users can use T-7 and T just like in the good old days

### Problem with just getting date range

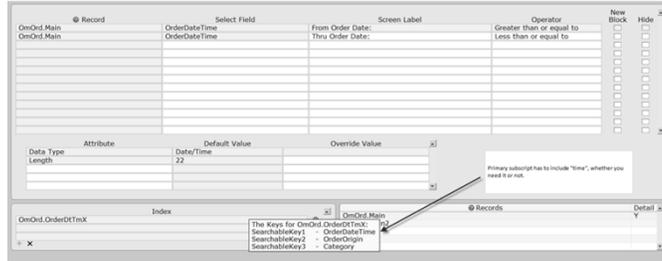
There are times when we really just want to enter a date range when running a Report Designer report, but to have the report run quickly, the only index available to us is using a DateTime field than just Date

If we select on the DateTime field, then we are forced to enter the time range also, or risk missing the final 24 hours of the "thru" date etc.

If we select on the DATE version of the field, then the index does not use this and the report will not run any quicker than using no, or just as index-irrelevant, data fields as selection criteria.

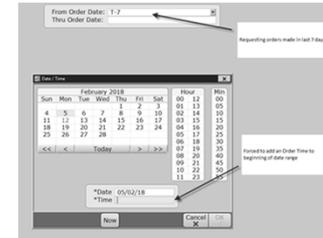
Eg. I want all orders over a certain date range

I use the OmOrd.OrderDtTmX index and select on OrderDateTime



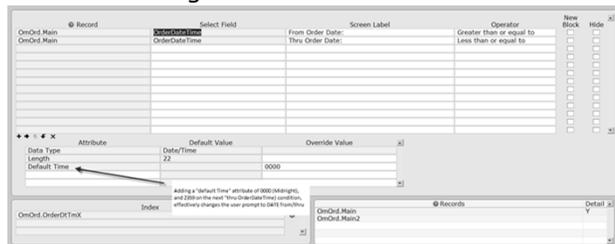
Pesky "Time" prompt is nagging me...

I entered T-7 for last 7 days, but then would have to enter a time as well, 0000 if I want to start at the very start of 7 days ago.



Default Time attribute to the rescue

I can actually default a time (in this case 0000 and 2359) using the attributes on each of my DateTime range selections



New user prompt – only need to enter dates

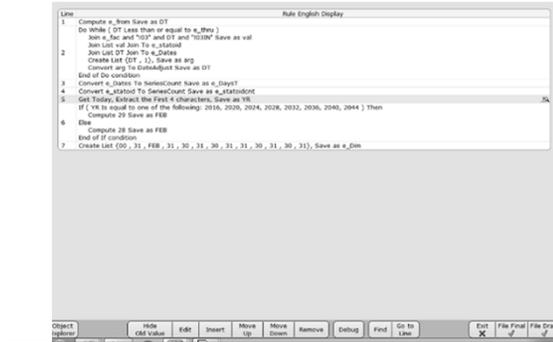
Now, just entering "T-7" thru "T" will default these times in for me



### RD Debugger

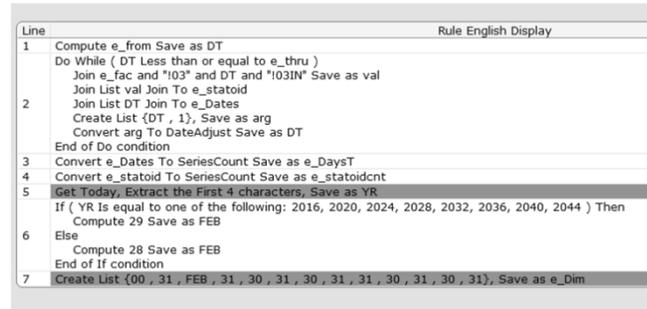
Save Rule as Draft

Then go into rule – highlight line for break and click debug – symbol will appear to right



49

Then click on line again so it turns red. You can then add break on multiple lines



50

### A few (Ugh) more steps..

File rule as draft

File report as draft

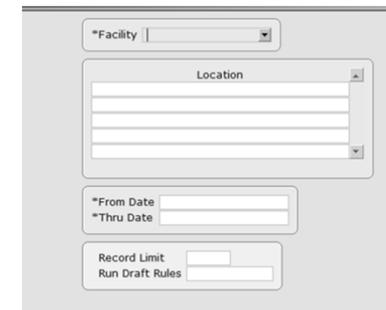
On general page – add attribute Diagnostic Mode Yes



File report as draft again

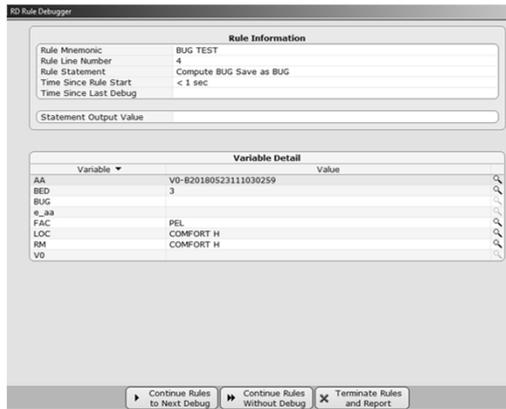
51

Finally – when you run draft rule you have extra options:



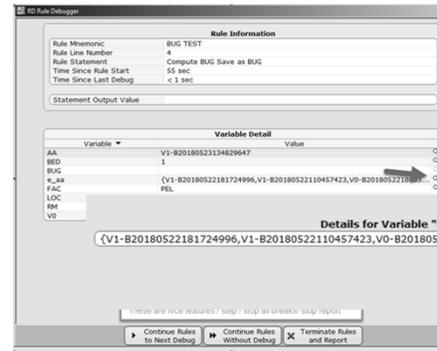
52

### Rule debug window



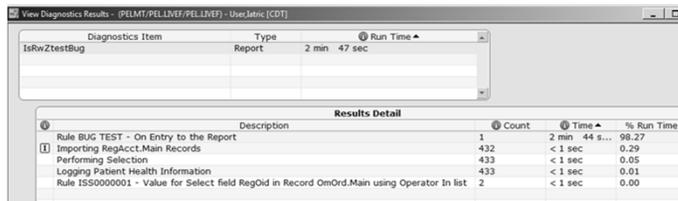
53

You can click magnifier and see what is building in lists..



54

When report finishes you get performance information



55

RD Print or Download in SAME REPORT

In NPR it is easy to copy and modify an print style report and make it a download or visa-vera.

In RD – once you elect export or standard you cannot convert.

56

### Instead

Use print rules to control whether a print line or a download line prints

Use some math on printable characters to get a quote and tab into a download string

Now you have an "all in one" report that can be delimited download or print version.

57

### Build delimited header in rule

ISRWzmuseQuotesAndTabs - IS RW Z MUSE Quotes And Tabs  
Last Edit: 02/09/18 16:16

Fields General Selects Sorts Regions Layout Rules Notes

Rule Name Used on Pages  
ISRW.MUSE.AddressLine Fields (Edu)  
ISRW.MUSE.DelimitedS... Layout (Row-level) (Edu)  
ISRW.MUSE.DelimitedN... Layout (Row-level) (Edu)  
ISRW.MUSE.HeaderLine Fields (Edu)  
ISRW.MUSE.PrintHeader Regions (Edu)

Hide Rule Logic

Line Rule English Display

- 1 Compute "" Save as SPACE
- 2 Compute "" Save as TEMP
- 3 Compute TEMP + 1 Save as QUOTE
- 4 Compute "" Save as TEMP
- 5 Compute TEMP + SPACE + SPACE Save as TAB
- 6 Join QUOTE and "NAME" and QUOTE Save as NAME
- 7 Join QUOTE and "ADDR1" and QUOTE Save as ADDR1
- 8 Join QUOTE and "ADDR2" and QUOTE Save as ADDR2
- 9 Join QUOTE and "CITY" and QUOTE Save as CITY
- 10 Join QUOTE and "STATE" and QUOTE Save as STATE
- 11 Join QUOTE and "ZIP" and QUOTE Save as ZIP
- 12 Join NAME and TAB and ADDR1 and TAB and ADDR2 and TAB and CITY and TAB and STATE and TAB and ZIP Save as TEMP

### Similar technique to make delimited detail line (record)

ISRWzmuseQuotesAndTabs - IS RW Z MUSE Quotes And Tabs  
Report Last Edit: 02/09/18 16:16  
Rule Last Edit: 01/18/18 10:03

Main Fields Rule

New Undo Back Space Cancel Line Accept

Line Rule English Display

- 1 Compute "" Save as SPACE
- 2 Compute "" Save as TEMP
- 3 Compute TEMP + 1 Save as QUOTE
- 4 Compute "" Save as TEMP
- 5 Compute TEMP + SPACE + SPACE Save as TAB
- 6 Compute RegAct.Patient(V0) Save as PAT
- 7 Join QUOTE and RegAct.NameFull(V0) and QUOTE Save as NAME
- 8 Join QUOTE and HimRec.Address1(PAT) and QUOTE Save as ADDR1
- 9 Join QUOTE and HimRec.Address2(PAT) and QUOTE Save as ADDR2
- 10 Join QUOTE and HimRec.City(PAT) and QUOTE Save as CITY
- 11 Join QUOTE and HimRec.StateMnemonic(PAT) and QUOTE Save as STATE
- 12 Join QUOTE and HimRec.Zip(PAT) and QUOTE Save as ZIP
- 13 Join NAME and TAB and ADDR1 and TAB and ADDR2 and TAB and CITY and TAB and STATE and TAB and ZIP Save as TEMP

### Two ignore fields Delimited Output / Include Headers

ISRWzmuseQuotesAndTabs - IS RW Z MUSE Quotes And Tabs  
Temporary Sort Last Edit: 03/27/18 11:56

Fields General Selects Sorts Regions Layout Rules Notes

Record	Select Field	Screen Label	Operator	New Block	Hide
RegAct.Main	RegistrationDate	From Registration Date	Greater than or ...	<input type="checkbox"/>	<input type="checkbox"/>
RegAct.Main	RegistrationDate	Thru Registration Date	Less than or equ...	<input type="checkbox"/>	<input type="checkbox"/>
Temp.Temp	c_printheader	Print column headers?	Ignore	<input type="checkbox"/>	<input type="checkbox"/>

prompt similarly whether to print column headers

Attribute Default Value Override Value Rule

Default Value Y

Length 4

Value none

With RegAct.Main

External Variable c\_printheader

60





### Detail rule – load the grid per record

ISRW Muse Disch Time Grid by Attending - IS RW Z MUSE Discharge Time Grid by Attending Report Last Edit: 03/07/18 10:29 Rule Last Edit: 03/07/18 10:19

```

1 Convert e_Slots To SeriesCount Save as COUNT
2 Create List (Repeat AttendingProvider(V0)) Save as SEARCH set up Provider as SEARCH (a list)
3 From e_PhysList Locate the starting position of SEARCH, Save as FOUNd locate SEARCH in ePhysList (FOUNd)
4 Compute "Provider has to be saved as a list, to search within e_PhysList, CONTAINING lists that have Providers
as first elements" Save as A_COMMENT
5 Convert e_PhysList To SeriesCount Save as PHYSLISTCOUNT count elements in e_PhysList
6 Compute "create entry for PHYS if not already in e_PhysList" Save as A_COMMENT
7 Compute "insert as many zeroes as there are time slots in e_Slots" Save as A_COMMENT
8 Compute Nil Save as LIST1
9 Compute 0 Save as I
10 Do While ( I Less than COUNT And ( ( e_PhysList Does not exist ) Or ( FOUNd Is equal to PHYSLISTCOUNT ) ) )
11 Join List 0 Join To LIST1
12 Compute I + 1 Save as I
13 End of Do condition
14 If ( e_PhysList Does not exist ) Or ( FOUNd Is equal to PHYSLISTCOUNT ) Then
15 Insert List Repeat AttendingProvider(V0) Insert To LIST1
16 Join List LIST1 Join To e_PhysList
17 End of If condition
18 Compute Nil Save as SLOT
19 Compute 0 Save as I
20 Compute "Find correct slot for discharge time" Save as A_COMMENT
21 Compute Repeat DischargeTime(V0) Save as DISTM
22 Do While ( I Less than COUNT And ( SLOT Does not exist )
23 Compute e_Slots Offset I Save as END
24 Compute LIST1 Offset 0 Save as BEG
25 If ( BEG Less than END ) And ( DISTM Greater than or equal to BEG ) And ( DISTM Less than or equal to END )
26 Then
27 Compute I Save as SLOT
28 End of If condition
29 If ( BEG Greater than END ) And ( ( DISTM Greater than or equal to BEG ) Or ( DISTM Less than or equal to
END ) ) Then
30 Compute I Save as SLOT
31 End of If condition
32 Compute I + 1 Save as I
33 End of Do condition
34 Convert e_PhysList To SeriesCount Save as PHYSLISTCOUNT
35 From e_PhysList Locate the starting position of SEARCH, Save as FOUNd
36 Compute "guaranteed to be found, because if it wasn't found before, we added it to e_PhysList" Save as
A_COMMENT
37 Compute e_PhysList Offset FOUNd Save as LIST1
38 Compute SLOT + 1 Save as DISPOS
39 Compute LIST1 Offset DISPOS Save as DISCHARGES
40 Compute LIST1 Offset DISPOS Save as DISCHARGES

```

Object Explorer Hide Doc Value Edit Insert Move New Refresh

69

### Detail rule continued..

```

22 Compute LIST1 Offset DISPOS Save as DISCHARGES add 1 to extracted DISCHARGES
23 Compute DISCHARGES + 1 Save as DISCHARGES
24 Compute "next, rebuild first this Provider's entry (LIST1) with updated DISCHARGES number" Save as A_COMMENT
25 Convert LIST1 To SeriesCount Save as COUNT
26 Compute Nil Save as LIST2
27 Compute 0 Save as I
28 Do While ( I Less than COUNT )
29 If ( I Is equal to DISPOS ) Then
30 Join List DISCHARGES Join To LIST2
31 Else
32 Compute LIST1 Offset I Save as TEMP
33 Join List TEMP Join To LIST2
34 End of If condition
35 Compute I + 1 Save as I
36 End of Do condition
37 Compute "then rewrite e_PhysList save for 'FOUNd' position -- rewrite new LIST2 in its place" Save as
A_COMMENT
38 Compute Nil Save as NEWPHYSLIST
39 Compute 0 Save as I
40 Do While ( I Less than PHYSLISTCOUNT )
41 If ( I Is not equal to FOUNd ) Then
42 Compute e_PhysList Offset I Save as TEMP
43 Join List TEMP Join To NEWPHYSLIST
44 Else
45 Join List LIST2 Join To NEWPHYSLIST
46 End of If condition
47 Compute I + 1 Save as I
48 End of Do condition
49 Compute NEWPHYSLIST Save as e_PhysList

```

Rebuild Provider List (LIST1) as LIST2, updating current position (DISPOS) with updated DISCHARGES, all other positions with correspondingly-positioned elements from LIST1

Rebuild e\_PhysList similarly as NEWPHYSLIST: update current Physician position (FOUNd) with rewritten LIST2, all other positions with the correspondingly-positioned element from e\_PhysList. Overwrite e\_PhysList with final result

70

### Now build output in trailer rule

ISRW Muse Disch Time Grid by Attending - IS RW Z MUSE Discharge Time Grid by Attending Report Last Edit: 03/07/18 10:29 Rule Last Edit: 02/13/18 12:22

```

1 Line
2 Convert e_Slots To SeriesCount Save as COUNT Rule English Display COUNT number of entries in e_Slots;
3 Compute "Count how many time slots we have set up" Save as A_COMMENT PHYSLIST count entries in e_PhysList
4 Convert e_PhysList To SeriesCount Save as PHYSLISTCOUNT
5 Compute "reserve 30 spaces for physician names" Save as A_COMMENT
6 Compute SPACES Save as e_Header begin e_Header external variable with SPACES
7 Compute 0 Save as I
8 Do While ( I Less than COUNT )
9 Compute "set up column headers for each time slot" Save as A_COMMENT
10 Compute e_Slots Offset I Save as LIST1
11 Compute LIST1 Offset 0 Save as BEG add time slots to header; loop through e_Slots,
12 Compute LIST1 Offset 1 Save as END extract each time pair, format and add to
13 Join "" and BEG and "" and END Save as e_Header
14 Join e_Header and TEMP Save as e_Header
15 Compute I + 1 Save as I
16 End of Do condition
17 Compute 0 Save as I
18 Do While ( I Less than PHYSLISTCOUNT )
19 Compute "For each sublist, format the accumulated counts per time slot." Save as A_COMMENT
20 Compute e_PhysList Offset I Save as LIST1
21 Compute LIST1 Offset 0 Save as PROV
22 If ( ( MisPerson.Name( PROV ) Exists ) Then
23 Compute MisPerson.Name( PROV ) Save as PROV loop through entries in e_PhysList; for each
24 End of If condition entry, extract and format Physician (name) as
25 Join PROV and SPACES Save as TEMP
26 Get TEMP Extract the First 30 characters, Save as TEMP
27 Join TEMP and "" Save as TEMP
28 Compute 0 Save as J
29 Do While ( J Less than COUNT )
30 Compute J + 1 Save as SLOT use a nested DO loop here, to loop through as many
31 Compute LIST1 Offset SLOT Save as DISCHARGES entries per physician as there are time slots, and
32 Join SPACES and DISCHARGES Save as DISCHARGES
33 Get DISCHARGES Extract the Last 11 characters, Save as DISCHARGES
34 Join TEMP and "" and DISCHARGES and "" Save as TEMP
35 Compute J + 1 Save as J
36 End of Do condition
37 Join List TEMP Join To e_Detail
38 Compute I + 1 Save as I
39 End of Do condition

```

Join the formatted TEMP line to the e\_Detail list variable

71

Tips for lists and loops in RD  
See Word Document on our web site  
with this presentation..



72

## Thank You!

This Powerpoint, all report files (NPR/RD), and the Word document with information on RD loops and lists all on our web site here..

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