Think outside the Box

By Russell Berkeley (Oct. 2020)



A·B·A·C·U·S SOLUTIONS

WE GET IT

cm FIRST
Rethink Modernization

ca technologies
A Broadcom Company

helpsystems

HAWKBRIDGE

SODISA

ptc

AXON iVY
digitalize your business

NGS
NewGeneration Software, Inc.

IBM


CA PLEX/2E MIDRANGE
"Race to the Future"
Deep Learning Confab
Virtual | Thursday and Friday October 22,23, 2020

CA PLEX/2E MIDRANGE

"Race to the Future" Deep Learning Confab

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CA PLEX/2E MIDRANGE

"Race to the Future" Deep Learning Confab

Virtual | Thursday and Friday October 22,23, 2020





ICS Courier

A TransForce Company

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ICS Courier

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ICS Courier

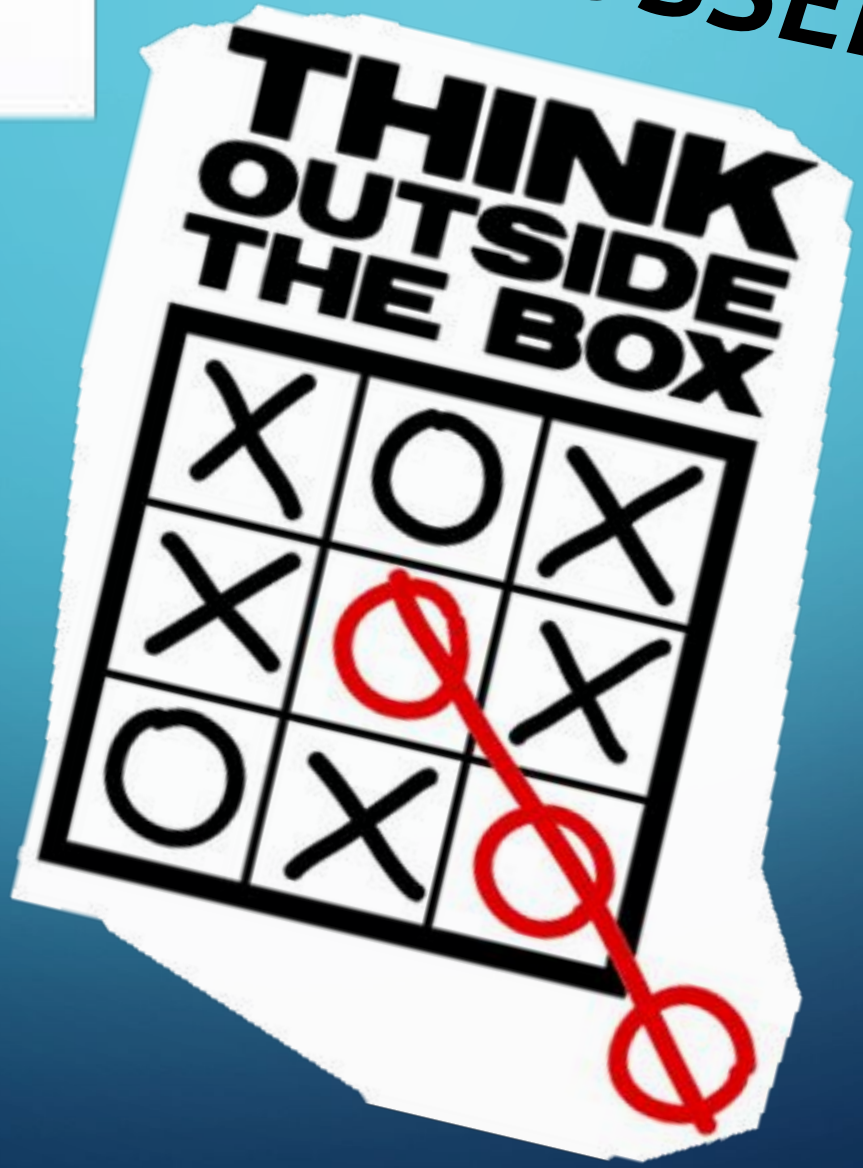
A TransForce Company

BY RUSSELL BERKELEY



ICS Courier
A TransForce Company

BY RUSSELL BERKELEY



A LITTLE BIT ABOUT me . . .



- Working with 2E since the late 80's back on System/38 with Synon/2E Version 2.0?
- Worked for Synon Professional Services
- Was the VP / Treasure of the Toronto Synon User Group in the 90's
- Organizer of the Toronto Synon User conferences
- Speaker at 2E/Plex conferences in San Diego (97), Toronto, Orlando, Paris
- Now working at ICS Courier in Toronto Canada for the past 7 years.
- Email: RussBerkeley@gmail.com (Subject Line



SOFTWARE VERSIONS

- Windows 10
- Powerpoint (Office 365)
- IBMi OS – 7.2 (I know it expires in April 2021)
- Synon 2E version 8.1
    - Generating DDS with RPGIII

THINKING OUTSIDE THE BOX



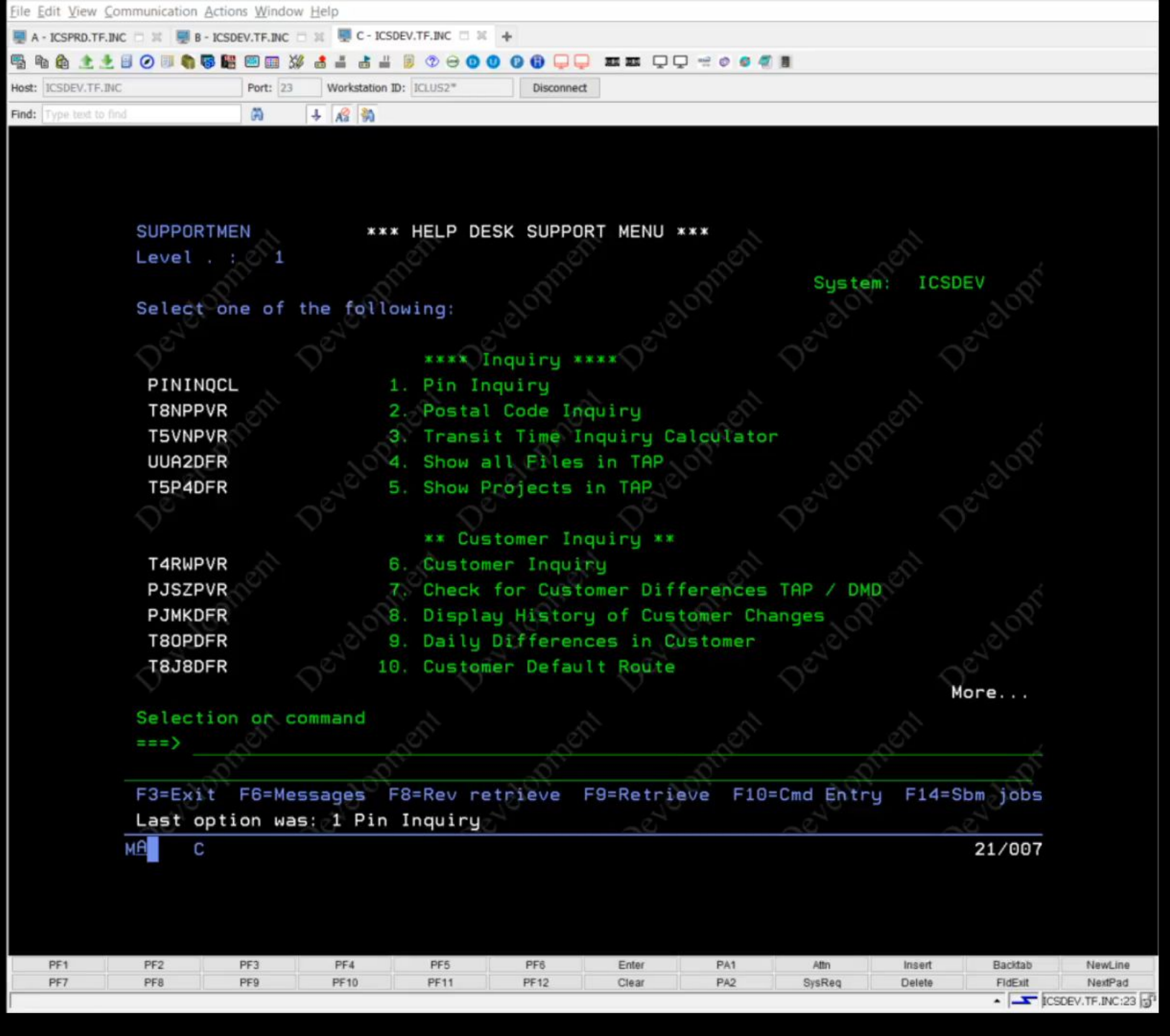




QUICK LAUNCH TO THE MODEL



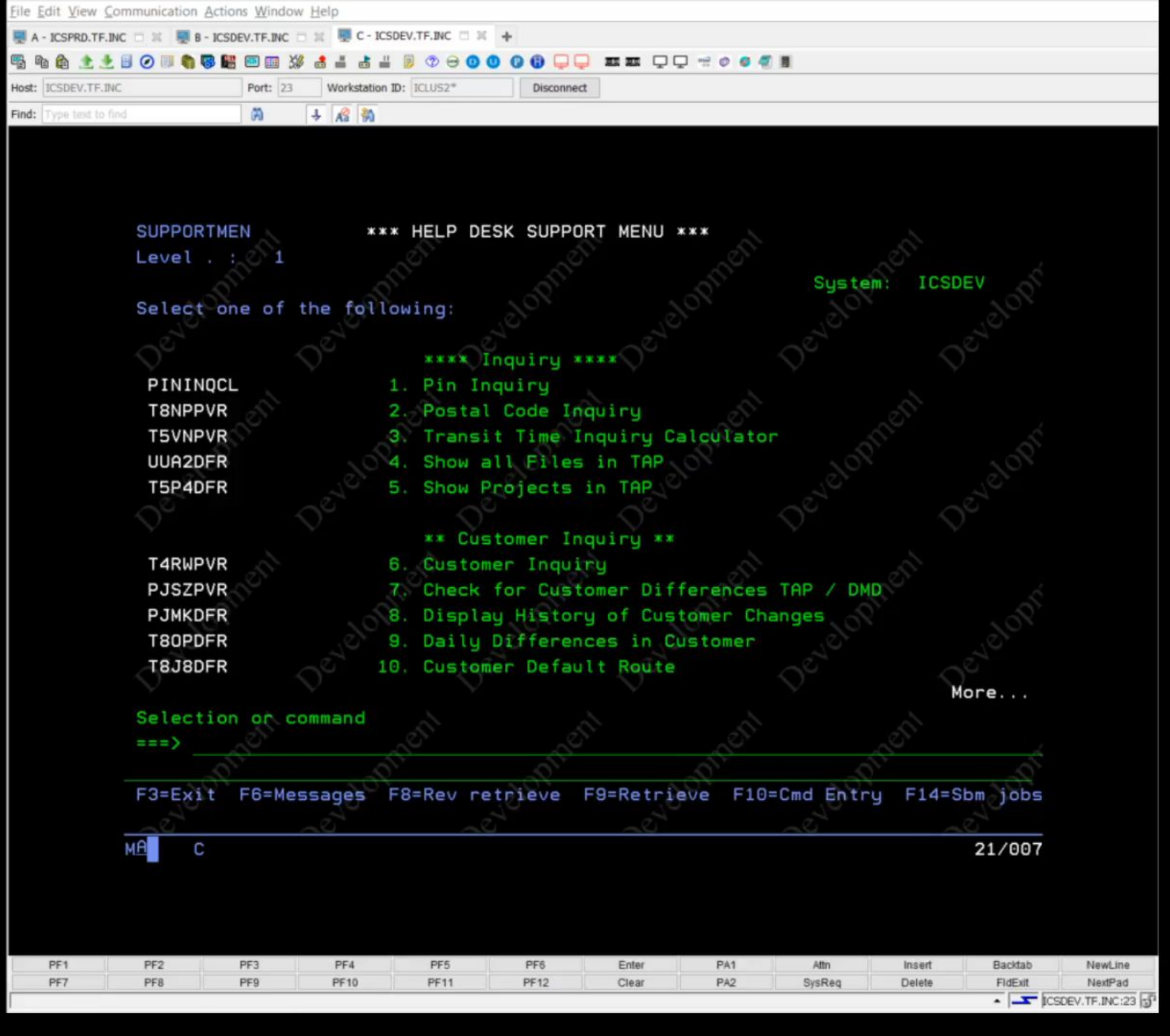
Time: 2:00


File Edit View Communication Actions Window Help
A - ICSPRD.TF.INC
B - ICSDEV.TF.INC
C - ICSDEV.TF.INC
Host: ICSDEV.TF.INC
Port: 23
Workstation ID: ICLUS2*
Disconnect
Find: Type text to find
SUPPORTMEN *** HELP DESK SUPPORT MENU ***
Level . : 1
System: ICSDEV
Select one of the following:
**** Inquiry ****
PININQCL 1. Pin Inquiry
T8NPPVR 2. Postal Code Inquiry
T5VNPVR 3. Transit Time Inquiry Calculator
UUA2DFR 4. Show all Files in TAP
T5P4DFR 5. Show Projects in TAP
** Customer Inquiry **
T4RWPVR 6. Customer Inquiry
PJSZPVR 7. Check for Customer Differences TAP / DMD
PJMKDFR 8. Display History of Customer Changes
T8OPDFR 9. Daily Differences in Customer
T8J8DFR 10. Customer Default Route
More...
Selection or command
===>
F3=Exit F6=Messages F8=Rev retrieve F9=Retrieve F10=Cmd Entry F14=Sbm jobs
Last option was: 1 Pin Inquiry
MA C 21/007
PF1 PF2 PF3 PF4 PF5 PF6 Enter PA1 Attn Insert Backtab NewLine
PF7 PF8 PF9 PF10 PF11 PF12 Clear PA2 SysReq Delete FldExit NextPad
ICSDEV.TF.INC:23

BACKUP YOUR MODEL!!



Time: 4:00


File Edit View Communication Actions Window Help
A - ICSPRD.TF.INC
B - ICSDEV.TF.INC
C - ICSDEV.TF.INC
Host: ICSDEV.TF.INC
Port: 23
Workstation ID: ICLUS2*
Disconnect
Find: Type text to find
SUPPORTMEN *** HELP DESK SUPPORT MENU ***
Level . : 1
System: ICSDEV
Select one of the following:
**** Inquiry ****
PININQCL 1. Pin Inquiry
T8NPPVR 2. Postal Code Inquiry
T5VNPVR 3. Transit Time Inquiry Calculator
UUA2DFR 4. Show all Files in TAP
T5P4DFR 5. Show Projects in TAP
** Customer Inquiry **
T4RWPVR 6. Customer Inquiry
PJSZPVR 7. Check for Customer Differences TAP / DMD
PJMKDFR 8. Display History of Customer Changes
T8OPDFR 9. Daily Differences in Customer
T8J8DFR 10. Customer Default Route
More...
Selection or command
===>
F3=Exit F6=Messages F8=Rev retrieve F9=Retrieve F10=Cmd Entry F14=Sbm jobs
MA C 21/007
PF1 PF2 PF3 PF4 PF5 PF6 Enter PA1 Attn Insert Backtab NewLine
PF7 PF8 PF9 PF10 PF11 PF12 Clear PA2 SysReq Delete FldExit NextPad
ICSDEV.TF.INC:23



CREATING A SAVE FILE (SAVF) FOR BACKUP OF MODEL

YCVTMDLMSG MDLLIB(*MDL) GENLIB(*GENLIB)

YCVTCNDVAL MDLLIB(*MDL) GENLIB(*GENLIB)

YCVTDSPFIL MDLLIB(*MDL) GENLIB(*GENLIB)

Create a name format for your backups. Eg RBMMDDHH

SAVOBJ OBJ(Q*) LIB(GENLIB) into a SAVF in your MDL Library

Consider: Saving your EXECUSRSRC EXECUSRPGM in a Separate Source file.

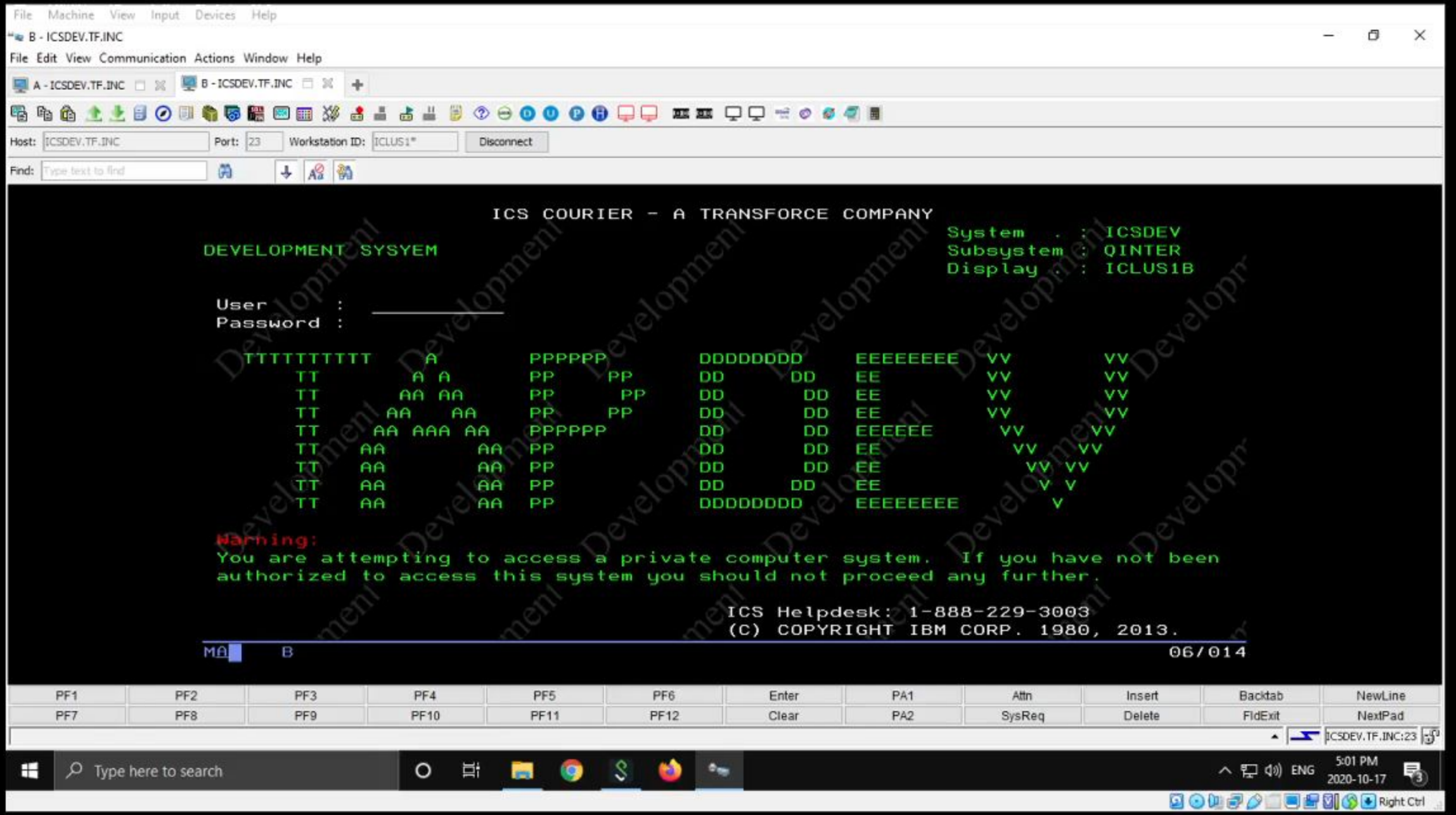
SAVLIB LIB(model) DEV(*SAVF) SAVF(<lib>/<savfname>)

CHANGE SYSREQ 3

FROM DSPJOB
TO WRKJOB



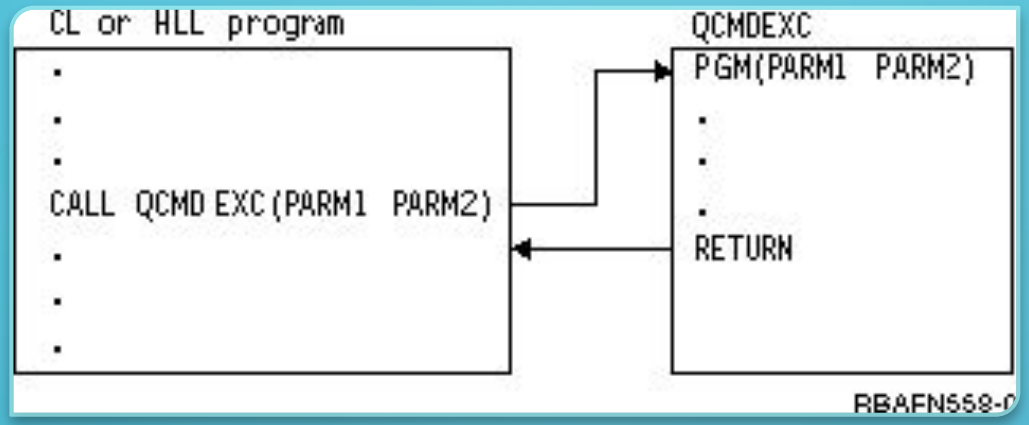
Time: 6:00


File Machine View Input Devices Help
B - ICSDEV.TF.INC
File Edit View Communication Actions Window Help
A - ICSDEV.TF.INC
B - ICSDEV.TF.INC
Host: ICSDEV.TF.INC
Port: 23
Workstation ID: ICLUS1*
Disconnect
Find: Type text to find
ICS COURIER - A TRANSFORCE COMPANY
System . : ICSDEV
Subsystem : QINTER
Display . : ICLUS1B
DEVELOPMENT SYSYEM
User :
Password :
TTTTTTTTTT A PPPPPP DDDDDDDD EEEEEEEE VV VV
TT A A PP PP DD DD EE VV VV
TT AA AA PP PP DD DD EE VV VV
TT AA AA PP PP DD DD EE VV VV
TT AA AAA AA PPPPPP DD DD EEEEEE VV VV
TT AA AA PP DD DD EE VV VV
TT AA AA PP DD DD EE VV VV
TT AA AA PP DD DD EE V V
TT AA AA PP DDDDDDDD EEEEEEEE V
Warning:
You are attempting to access a private computer system. If you have not been authorized to access this system you should not proceed any further.
ICS Helpdesk: 1-888-229-3003
(C) COPYRIGHT IBM CORP. 1980, 2013.
MA B
06/014
PF1 PF2 PF3 PF4 PF5 PF6 Enter PA1 Attn Insert Backtab NewLine
PF7 PF8 PF9 PF10 PF11 PF12 Clear PA2 SysReq Delete FldExit NextPad
ICSDEV.TF.INC:23
Type here to search
ENG
5:01 PM
2020-10-17
Right Ctrl



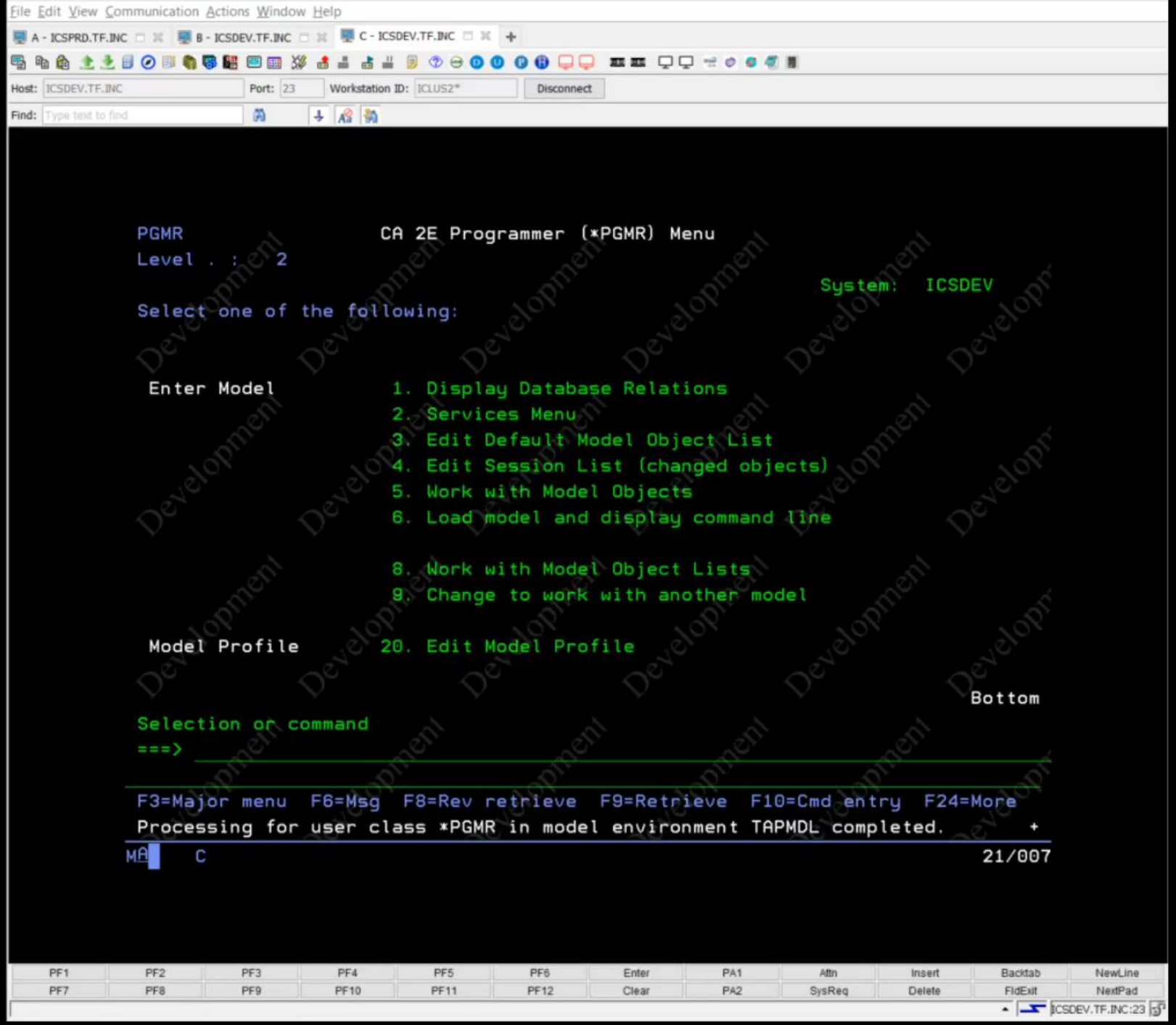
WRKMSGD MSGID(CPX2313) MSGF(QCPFMSG)

- No IPL Required. Change happens immediately
- MSGF is in QSYS – So will need to be changed if you upgrade your OS
- AS400 user security is retained
  - Programmers/Admin will have Command Line Access
  - Users will NOT have command line access (but can change Spool File attributes)



USING QCMDEXC IN 2E FUNCTIONS

Time: 5:00


File Edit View Communication Actions Window Help
A - ICSPRD.TF.INC
B - ICSDEV.TF.INC
C - ICSDEV.TF.INC
Host: ICSDEV.TF.INC
Port: 23
Workstation ID: ICLUS2*
Disconnect
Find: Type text to find
PGMR
CA 2E Programmer (*PGMR) Menu
Level . . : 2
System: ICSDEV
Select one of the following:
Enter Model
1. Display Database Relations
2. Services Menu
3. Edit Default Model Object List
4. Edit Session List (changed objects)
5. Work with Model Objects
6. Load model and display command line
8. Work with Model Object Lists
9. Change to work with another model
Model Profile
20. Edit Model Profile
Bottom
Selection or command
===>
F3=Major menu F6=Msg F8=Rev retrieve F9=Retrieve F10=Cmd entry F24=More
Processing for user class *PGMR in model environment TAPMDL completed.
MA C
21/007
PF1 PF2 PF3 PF4 PF5 PF6 Enter PA1 Attn Insert Backtab NewLine
PF7 PF8 PF9 PF10 PF11 PF12 Clear PA2 SysReq Delete FldExit NextPad
ICSDEV.TF.INC:23



LET'S RECAP



LET'S RECAP



LET'S RECAP

Create

Create Execute User Source in a Common area of your 2E Model



LET'S RECAP

Create	Change
Create Execute User Source in a Common area of your 2E Model	Change the Implementation name to be QCMDEXC



LET'S RECAP

Create	Change	Change
Create Execute User Source in a Common area of your 2E Model	Change the Implementation name to be QCMDEXC	Change the type to CLP



LET'S RECAP

Create	Change	Change	Add
Create Execute User Source in a Common area of your 2E Model	Change the Implementation name to be QCMDEXC	Change the type to CLP	Add two Input parameters • Text of length 256 • Number of size 15.5



LET'S RECAP

Create	Change	Change	Add	DO NOT Compile
Create Execute User Source in a Common area of your 2E Model	Change the Implementation name to be QCMDEXC	Change the type to CLP	Add two Input parameters • Text of length 256 • Number of size 15.5	DO NOT Compile the function!!



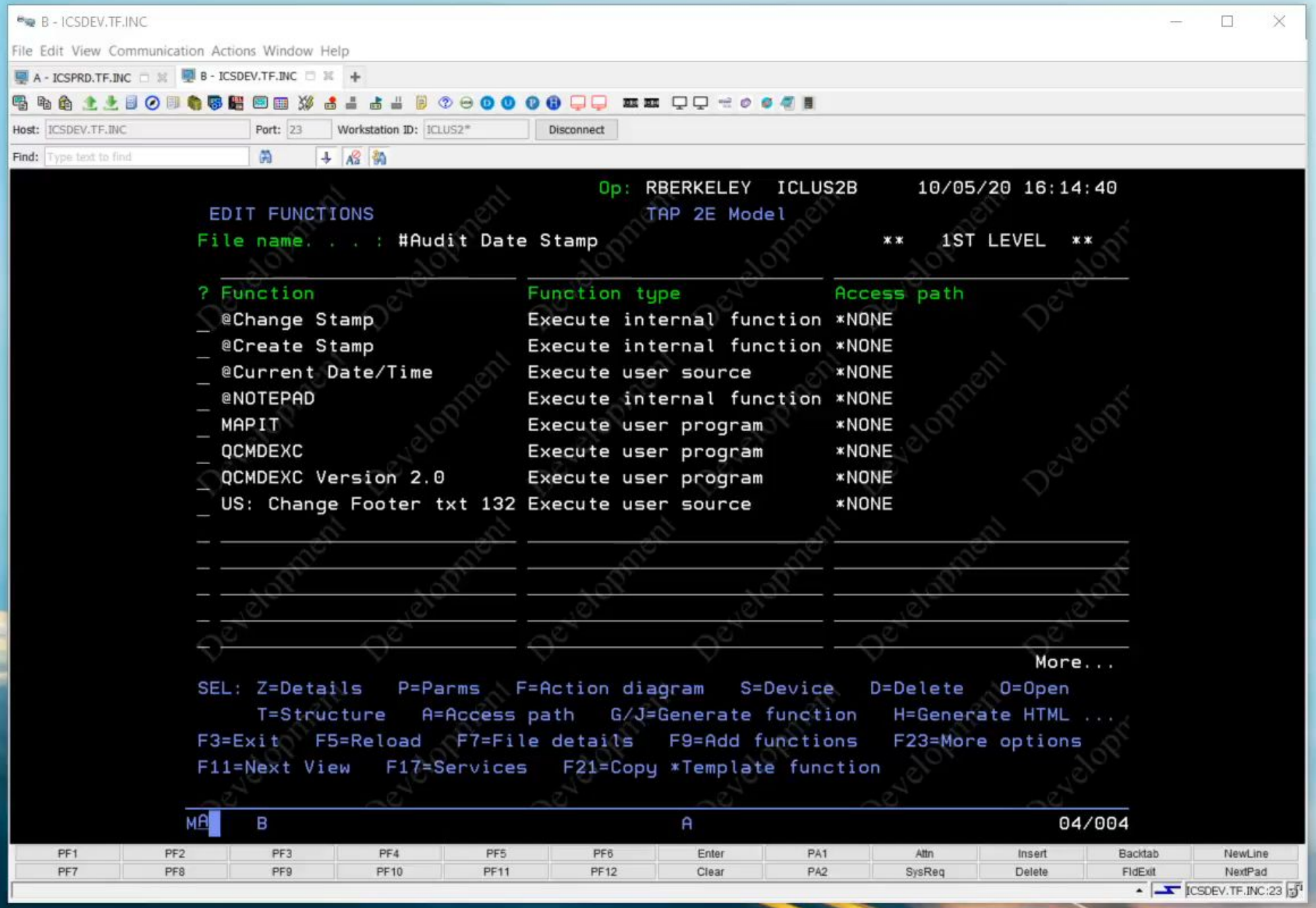
LET'S RECAP

Create	Change	Change	Add	DO NOT Compile	Go
Create Execute User Source in a Common area of your 2E Model	Change the Implementation name to be QCMDEXC	Change the type to CLP	Add two Input parameters • Text of length 256 • Number of size 15.5	DO NOT Compile the function!!	Go into your DSPFIL and call the function passing in your command and 256 for length



BETTER METHOD

Create	Change	Change	Add	DO NOT Compile	Go
Create Execute User Source in a Common area of your 2E Model	Change the Implementation name to be QCMDEXC	Change the type to CLP	Add two Input parameters • Text of length 256 • Number of size 15.5	DO NOT Compile the function!!	Go into your DSPFIL and call the function passing in your command and 256 for length

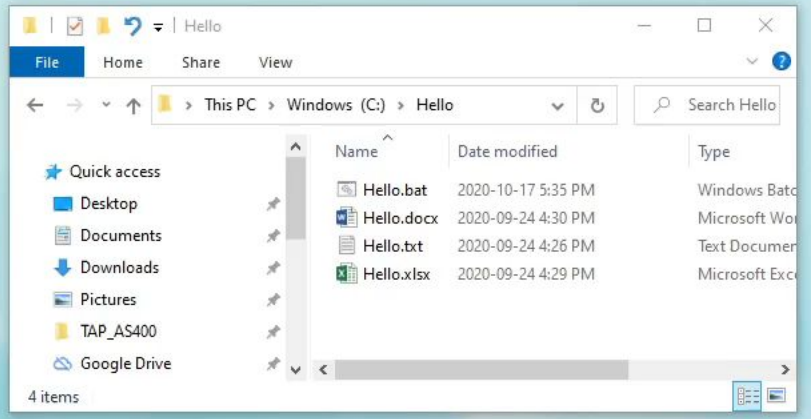

B - ICSDEV.TF.INC
File Edit View Communication Actions Window Help
A - ICSPRD.TF.INC
B - ICSDEV.TF.INC
Host: ICSDEV.TF.INC
Port: 23
Workstation ID: ICLUS2*
Disconnect
Find: Type text to find
Op: RBERKELEY ICLUS2B 10/05/20 16:14:40
EDIT FUNCTIONS
TAP 2E Model
File name. . . : #Audit Date Stamp ** 1ST LEVEL **
? Function Function type Access path
_ @Change Stamp Execute internal function *NONE
_ @Create Stamp Execute internal function *NONE
_ @Current Date/Time Execute user source *NONE
_ @NOTEPAD Execute internal function *NONE
_ MAPIT Execute user program *NONE
_ QCMDEXC Execute user program *NONE
_ QCMDEXC Version 2.0 Execute user program *NONE
_ US: Change Footer txt 132 Execute user source *NONE
More...
SEL: Z=Details P=Parms F=Action diagram S=Device D=Delete O=Open
T=Structure A=Access path G/J=Generate function H=Generate HTML ...
F3=Exit F5=Reload F7=File details F9=Add functions F23=More options
F11=Next View F17=Services F21=Copy *Template function
MA B A 04/004
PF1 PF2 PF3 PF4 PF5 PF6 Enter PA1 Attn Insert Backtab NewLine
PF7 PF8 PF9 PF10 PF11 PF12 Clear PA2 SysReq Delete FldExit NextPad
ICSDEV.TF.INC:23

INVOKING PC COMMANDS FROM A 5250 SCREEN





Time: 12:00


Hello
File
Home
Share
View
This PC
Windows (C:)
Hello
Search Hello
Quick access
Desktop
Documents
Downloads
Pictures
TAP_AS400
Google Drive
Name
Date modified
Type
Hello.bat
2020-10-17 5:35 PM
Hello.docx
2020-09-24 4:30 PM
Hello.txt
2020-09-24 4:26 PM
Hello.xlsx
2020-09-24 4:29 PM
4 items

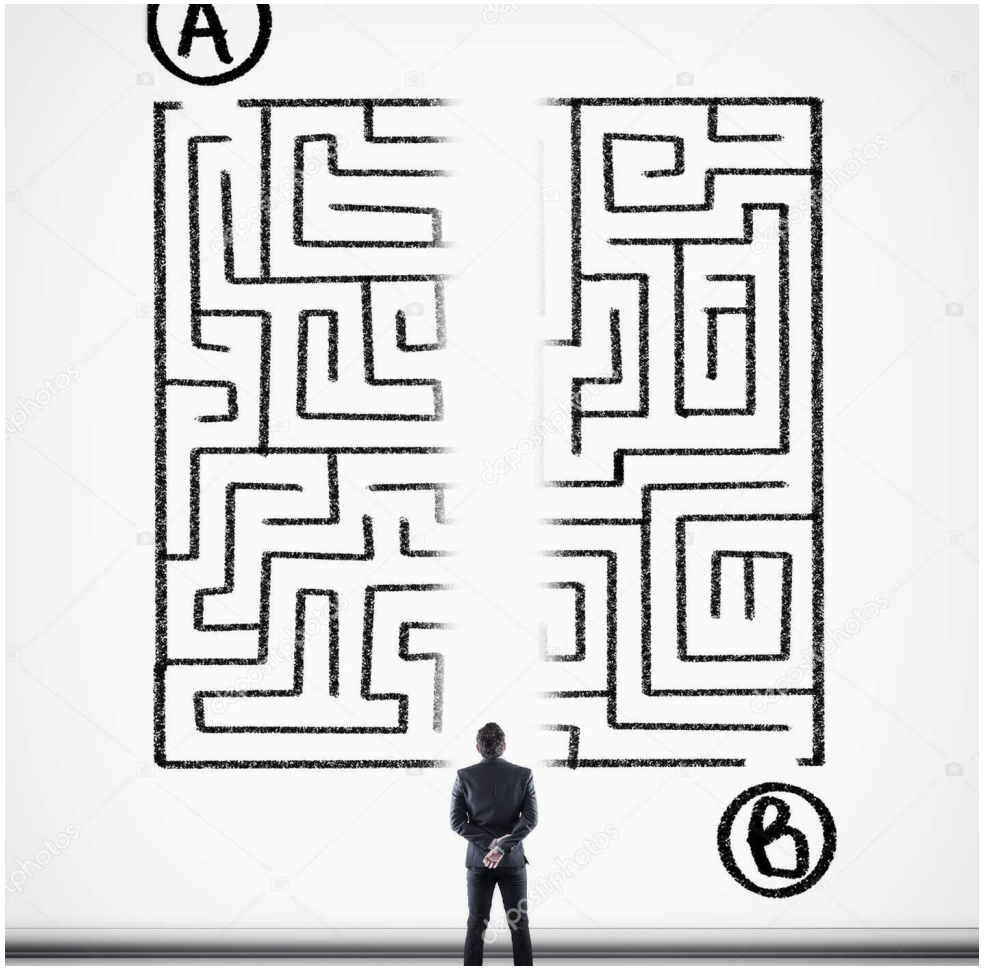
COMMANDS TO USE

- STRPCO PCTA(*NO)
- STRPCCMD PAUSE(*NO) PCCMD('<your pc command>')
- CHGCMDDFT
  - CHGCMDDFT CMD(STRPCCMD) NEWDFT('PAUSE(*NO)')
  - CHGCMDDFT CMD(STRPCO) NEWDFT('PCTA(*NO)')

Note: You may need help from your QSECOFR to set this up

Remember to use the MONMSG (IWS4010) after STRPCO

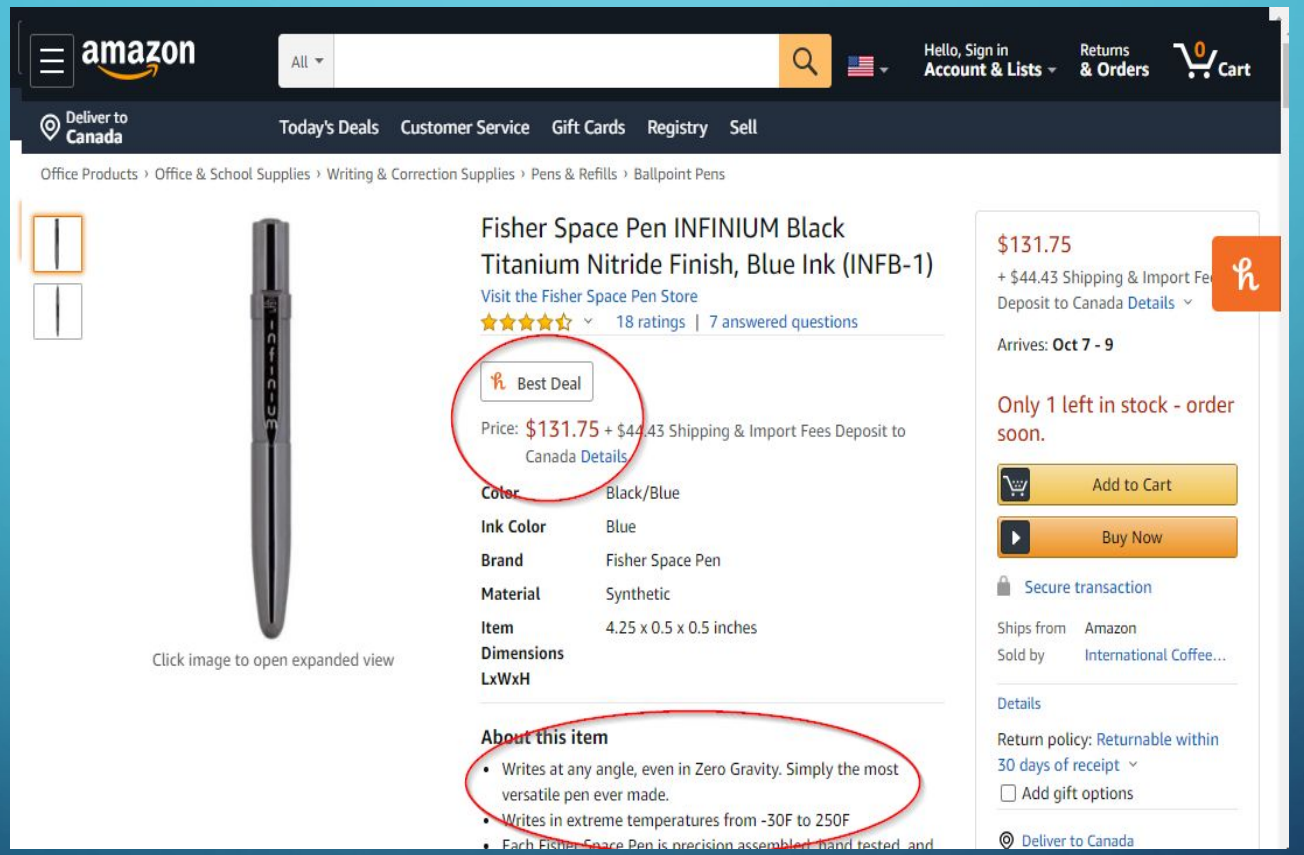
PLAYING AROUND WITH SHORTCUTS



Time: 7:00

NASA

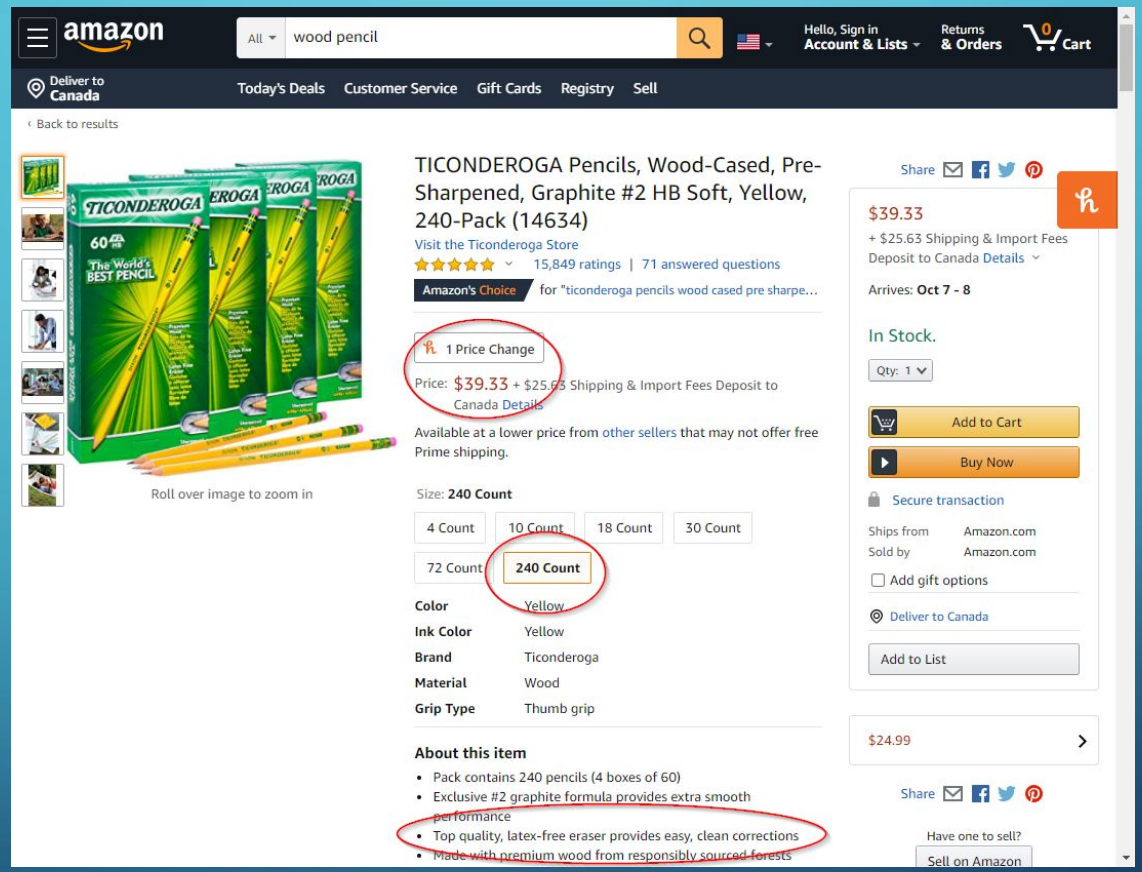
Agency


amazon
All
Hello, Sign in
Account & Lists
Returns
& Orders
0
Cart
Deliver to
Canada
Today's Deals
Customer Service
Gift Cards
Registry
Sell
Office Products › Office & School Supplies › Writing & Correction Supplies › Pens & Refills › Ballpoint Pens
Click image to open expanded view
Fisher Space Pen INFINIUM Black Titanium Nitride Finish, Blue Ink (INFB-1)
Visit the Fisher Space Pen Store
18 ratings | 7 answered questions
Best Deal
Price: $131.75 + $44.43 Shipping & Import Fees Deposit to Canada Details
Color Black/Blue
Ink Color Blue
Brand Fisher Space Pen
Material Synthetic
Item Dimensions LxWxH 4.25 x 0.5 x 0.5 inches
About this item
Writes at any angle, even in Zero Gravity. Simply the most versatile pen ever made.
Writes in extreme temperatures from -30F to 250F
$131.75
+ $44.43 Shipping & Import Fe
Deposit to Canada Details
Arrives: Oct 7 - 9
Only 1 left in stock - order soon.
Add to Cart
Buy Now
Secure transaction
Ships from Amazon
Sold by International Coffee...
Details
Return policy: Returnable within 30 days of receipt
Add gift options
Deliver to Canada

Roscosmos

Corporation

ROSCOSMOS





KEEP
CALM
AND
Keep it
SIMPLE

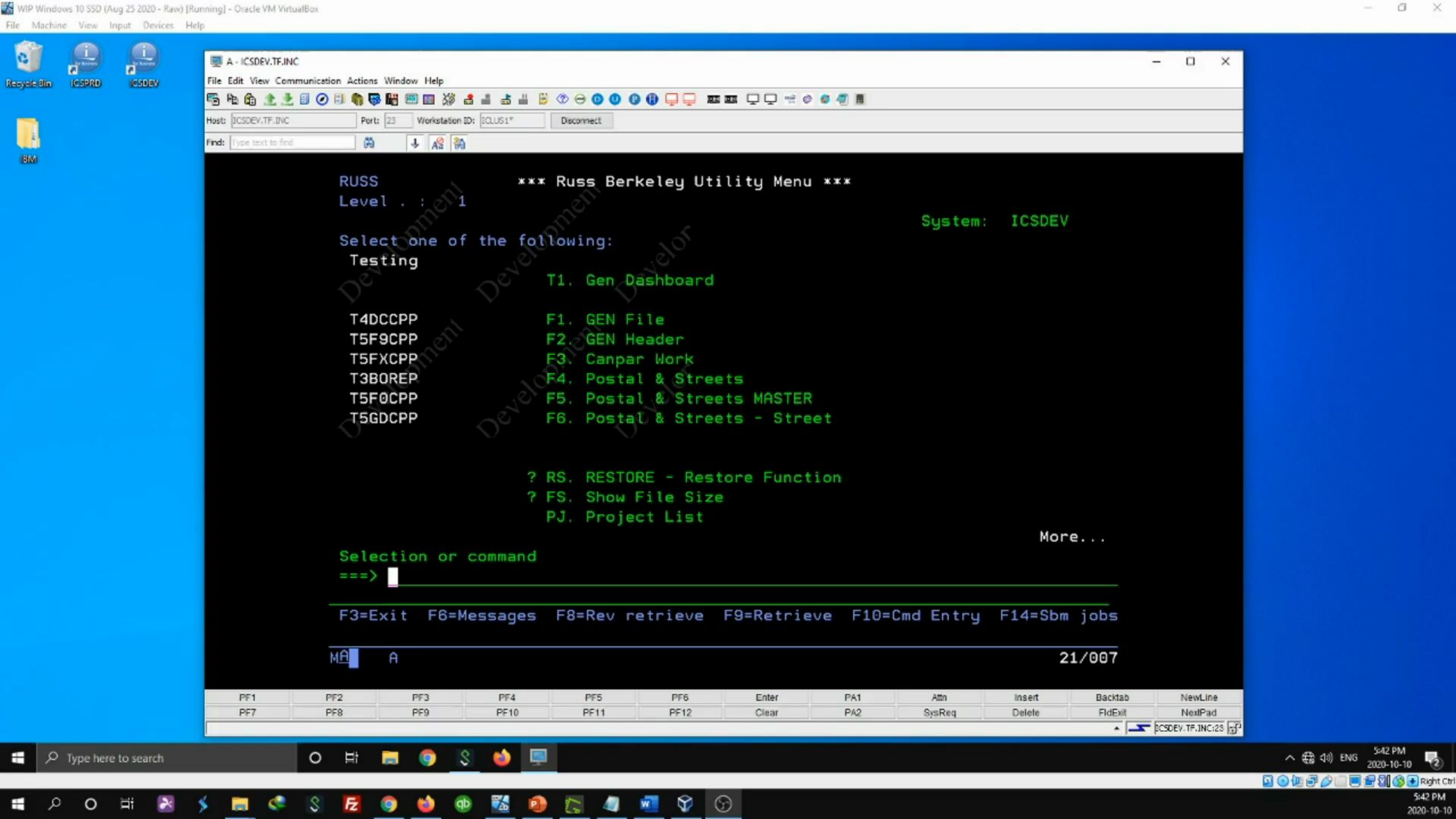
Silly

SHORTCUTS

- Synon = YSTRY2 *SELECT
- Q = RUNQRY *N <filename>
- WA = WRKACTJOB RESET(*YES) SBS(QBATCH QPGMR QCTL QCMN QINTER)
- WUJ = WRKUSRJOB USER(RBERKELEY) STATUS(*ACTIVE) JOBTYPE(*INTERACT)
- FS = DSPFD <filename> Page down to see # of Records

QTEMP: EXAMPLES

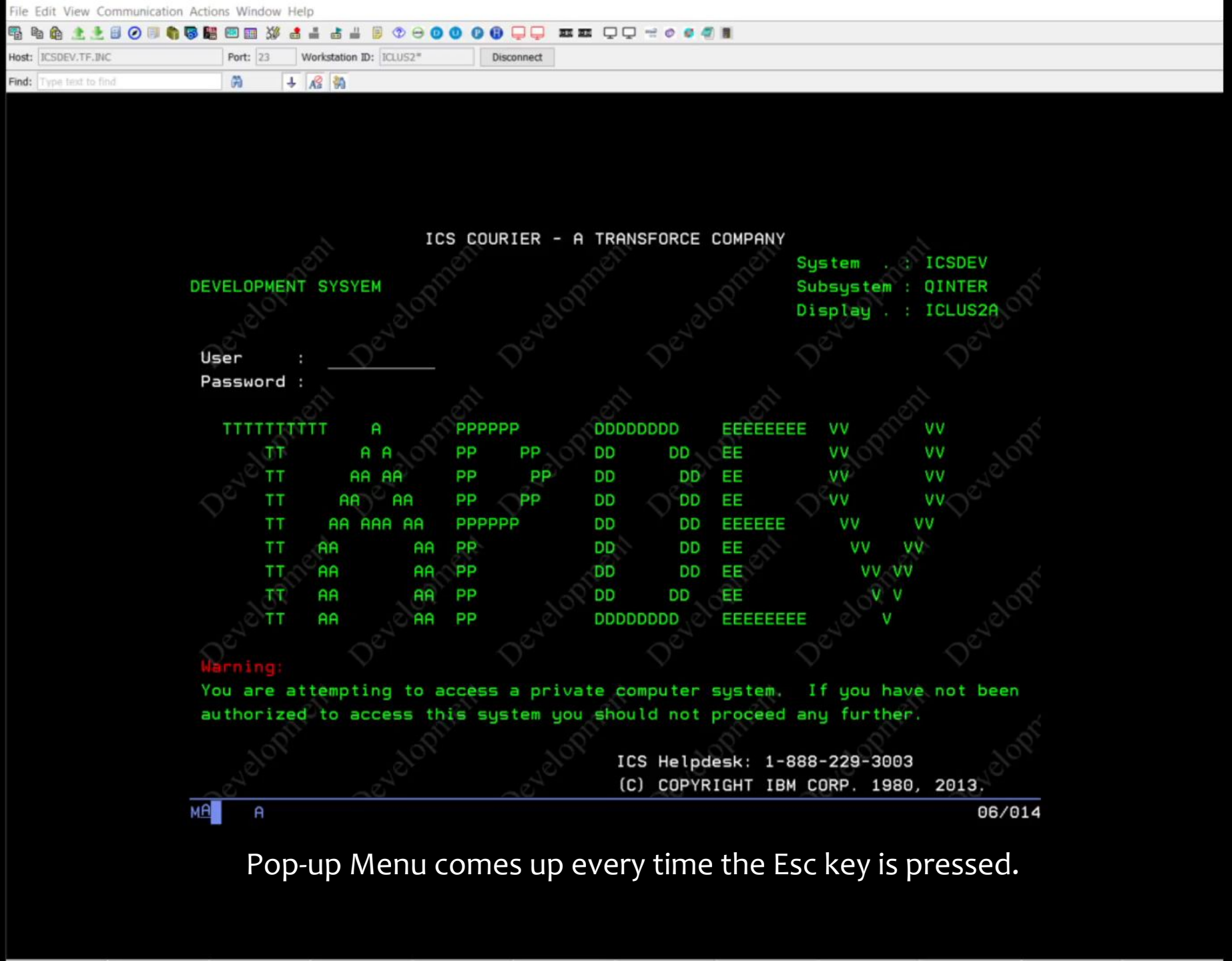
- Copy a large subset of data to QTEMP to improve on Speed
- Copy Programs/Display Files to QTEMP to free up Program Locks
- Temporary Work files put in QTEMP (to avoid mirroring junk)


WIP Windows 10 SSD (Aug 25 2020 - Raw) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Recycle Bin
ICSPRD
ICSDEV
BM
A - ICSDEV.TF.INC
File Edit View Communication Actions Window Help
Host: ICSDEV.TF.INC Port: 23 Workstation ID: ICLUS1* Disconnect
Find: Type text to find
RUSS *** Russ Berkeley Utility Menu ***
Level . : 1
System: ICSDEV
Select one of the following:
Testing
T1. Gen Dashboard
T4DCCPP F1. GEN File
T5F9CPP F2. GEN Header
T5FXCPP F3. Canpar Work
T3BOREP F4. Postal & Streets
T5F0CPP F5. Postal & Streets MASTER
T5GDCPP F6. Postal & Streets - Street
? RS. RESTORE - Restore Function
? FS. Show File Size
PJ. Project List
More...
Selection or command
===>
F3=Exit F6=Messages F8=Rev retrieve F9=Retrieve F10=Cmd Entry F14=Sbm jobs
MA A 21/007
PF1 PF2 PF3 PF4 PF5 PF6 Enter PA1 Attn Insert Backtab NewLine
PF7 PF8 PF9 PF10 PF11 PF12 Clear PA2 SysReq Delete FldExit NextPad
ICSDEV.TF.INC:23
Type here to search
ENG 5:42 PM 2020-10-10
Right Ctrl
5:42 PM 2020-10-10

USING GROUP JOBS



Time: 13:00



Pop-up Menu comes up every time the Esc key is pressed.

GROUP JOB PROGRAMS

GRATTN: Program to run when Attn (ESC) key is pressed

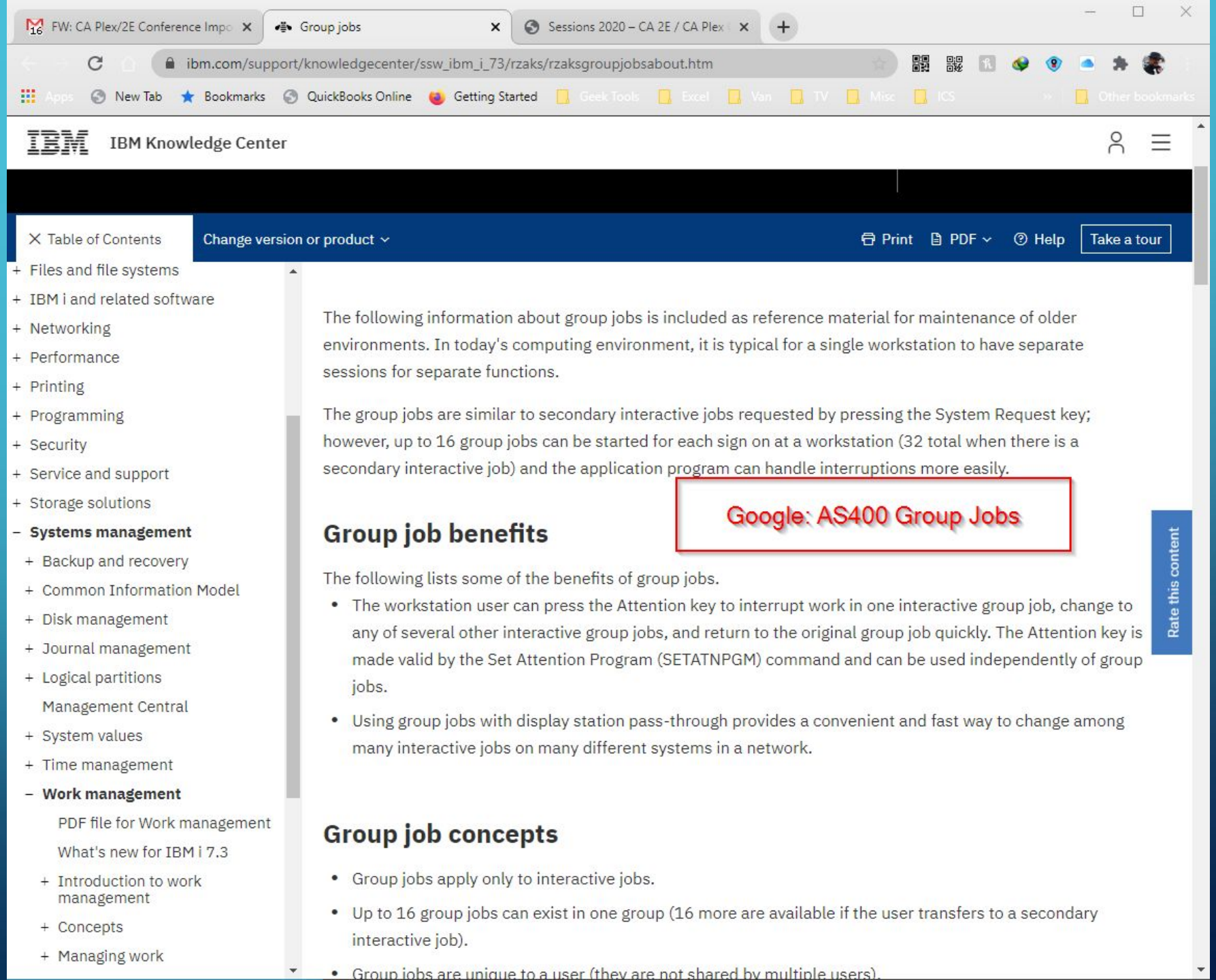
GRMENU: Sets up the initial Group Job as well as performs a program Loop.

GRPJB3CRTJ: Create the next Group Job, Transfer to next group job.

GRPJB4UR: Get YGO Default Menu based on USERID

GRPJB5PD: Popup Menu (Can be a 2E PMTRCD)

DTAARA: *GDA Group Job Data area to pass info between GRP Jobs


FW: CA Plex/2E Conference Impo
Group jobs
Sessions 2020 – CA 2E / CA Plex
ibm.com/support/knowledgecenter/ssw_ibm_i_73/rzaks/rzaksgroupjobsabout.htm
Apps
New Tab
Bookmarks
QuickBooks Online
Getting Started
IBM Knowledge Center
Table of Contents
Change version or product
Print
PDF
Help
Take a tour
+ Files and file systems
+ IBM i and related software
+ Networking
+ Performance
+ Printing
+ Programming
+ Security
+ Service and support
+ Storage solutions
– Systems management
+ Backup and recovery
+ Common Information Model
+ Disk management
+ Journal management
+ Logical partitions
Management Central
+ System values
+ Time management
– Work management
PDF file for Work management
What's new for IBM i 7.3
+ Introduction to work management
+ Concepts
+ Managing work
The following information about group jobs is included as reference material for maintenance of older environments. In today's computing environment, it is typical for a single workstation to have separate sessions for separate functions.
The group jobs are similar to secondary interactive jobs requested by pressing the System Request key; however, up to 16 group jobs can be started for each sign on at a workstation (32 total when there is a secondary interactive job) and the application program can handle interruptions more easily.
Google: AS400 Group Jobs
Group job benefits
The following lists some of the benefits of group jobs.
• The workstation user can press the Attention key to interrupt work in one interactive group job, change to any of several other interactive group jobs, and return to the original group job quickly. The Attention key is made valid by the Set Attention Program (SETATNPGM) command and can be used independently of group jobs.
• Using group jobs with display station pass-through provides a convenient and fast way to change among many interactive jobs on many different systems in a network.
Group job concepts
• Group jobs apply only to interactive jobs.
• Up to 16 group jobs can exist in one group (16 more are available if the user transfers to a secondary interactive job).
• Group jobs are unique to a user (they are not shared by multiple users).
Rate this content

GROUP JOB COMMANDS

RTVGRPA GRPJOB(&GRPJOB) GRPJOBL(&GRPLST)

- Used to retrieve the current group job name and list of group jobs.

CHGGRPA GRPJOB(JOB01) MSGQ(QUSRSYS/&MSGQ) TEXT(JOB01)

- Sets the current job as a group job

SETATNPGM PGM(GRATTN)

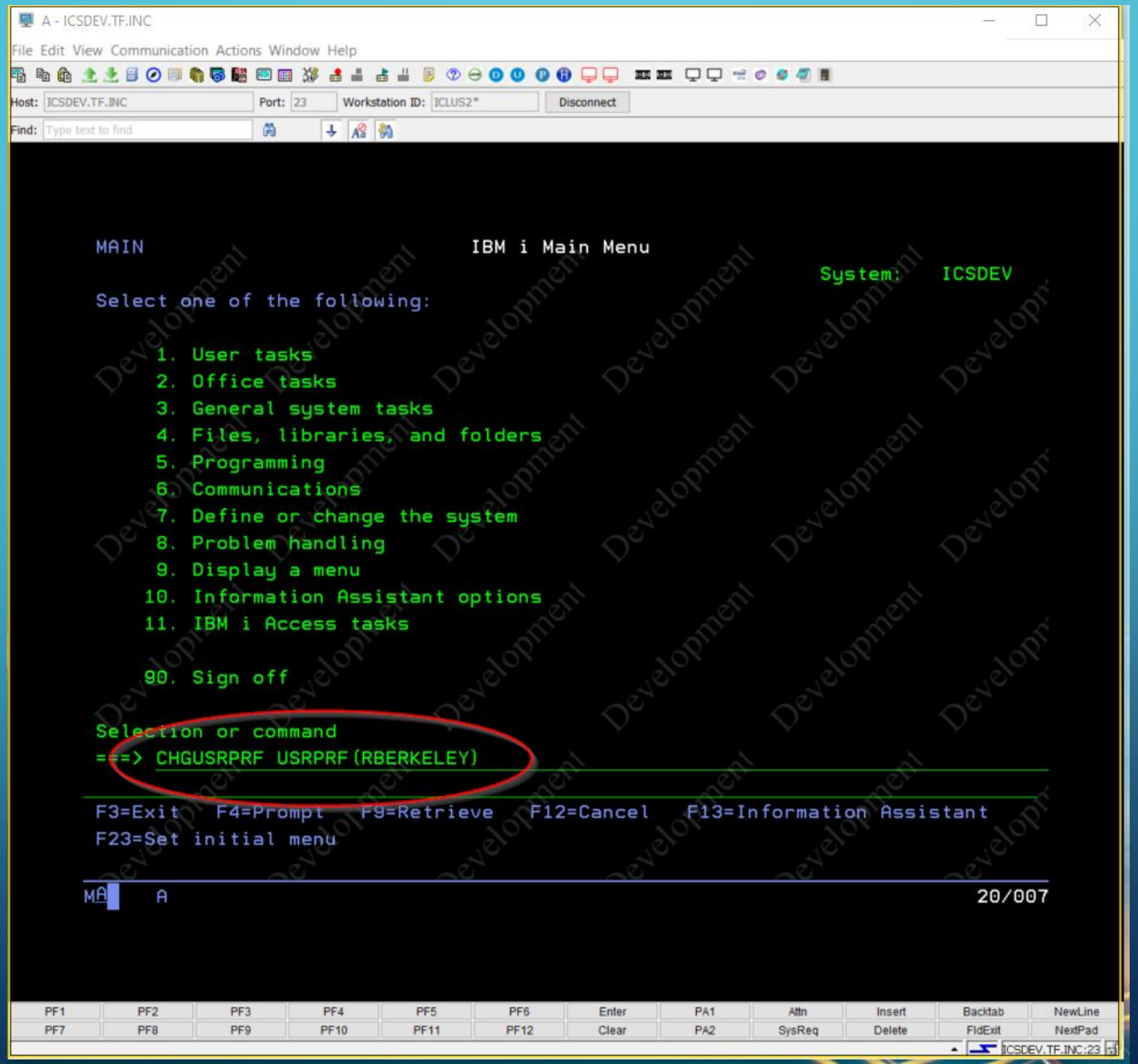
- Program to call when pressing the attention(ESC) key.

TFRGRPJOB GRPJOB(&GRPJOB) INLGRPPGM(GRMENU) TEXT(&GRPJOB)

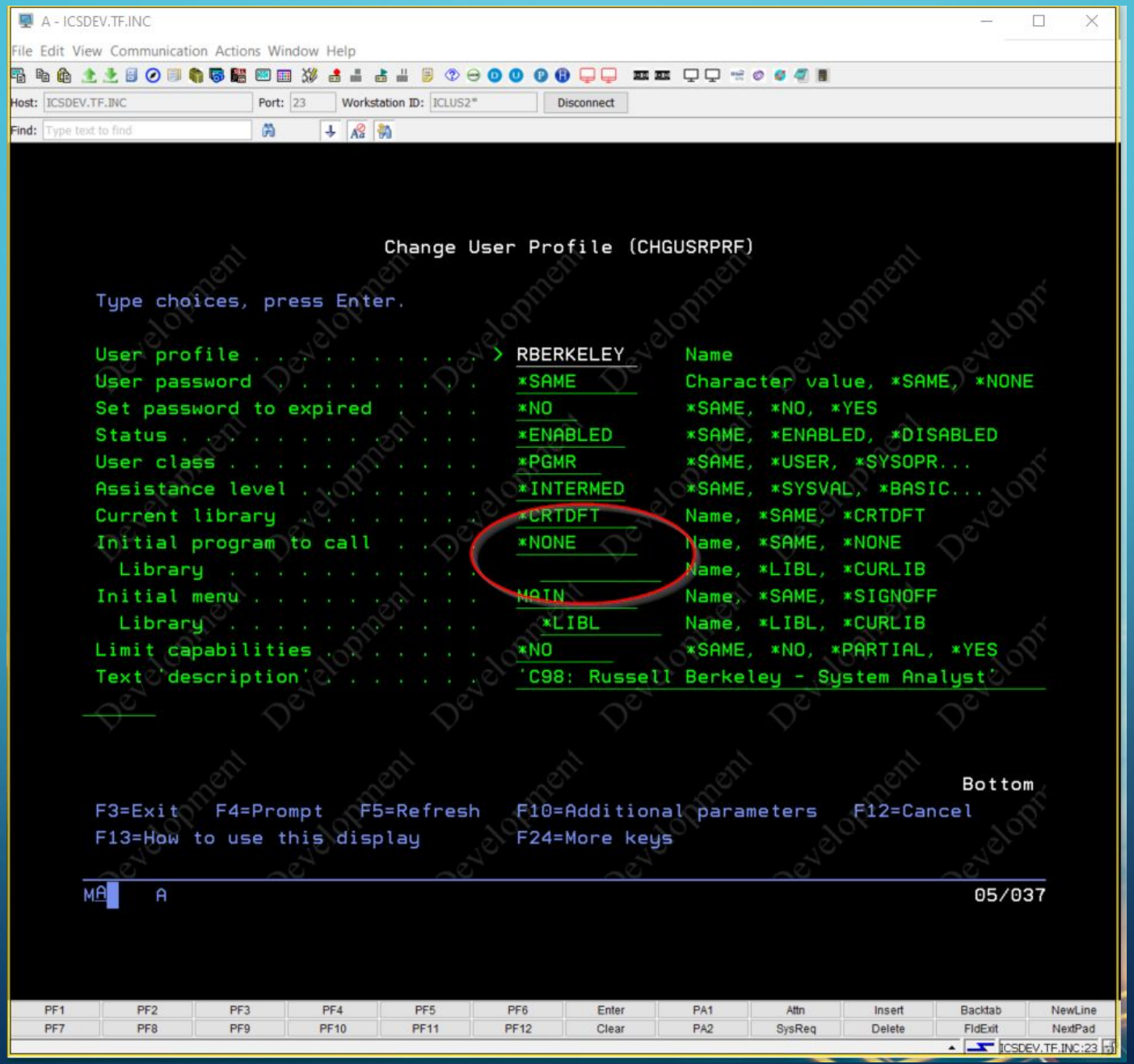
- Transfers to the next group job (if exists) otherwise create a new group job

** Maximum of 16 active Group Jobs

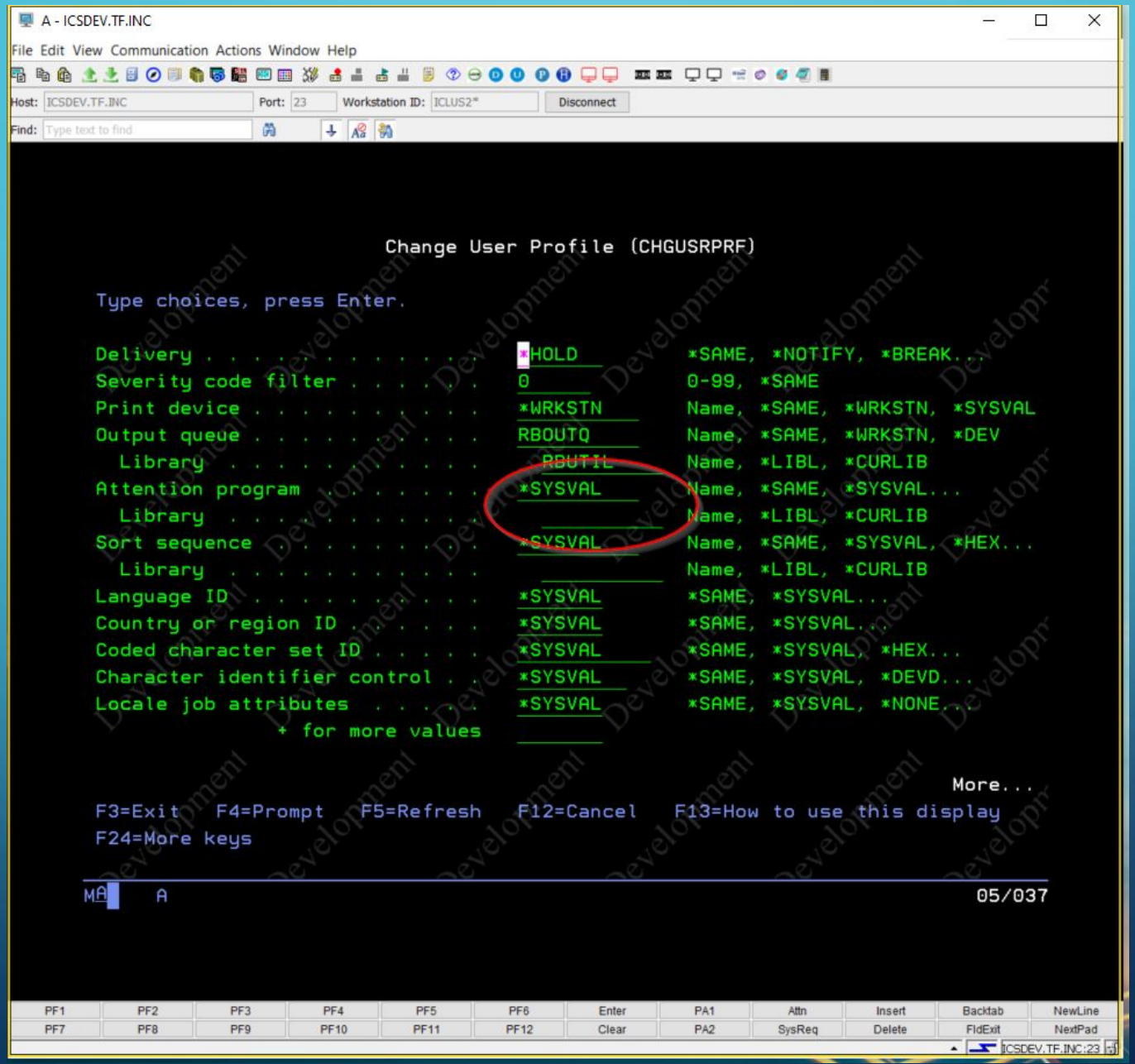
REVIEW USRPRF SETTINGS



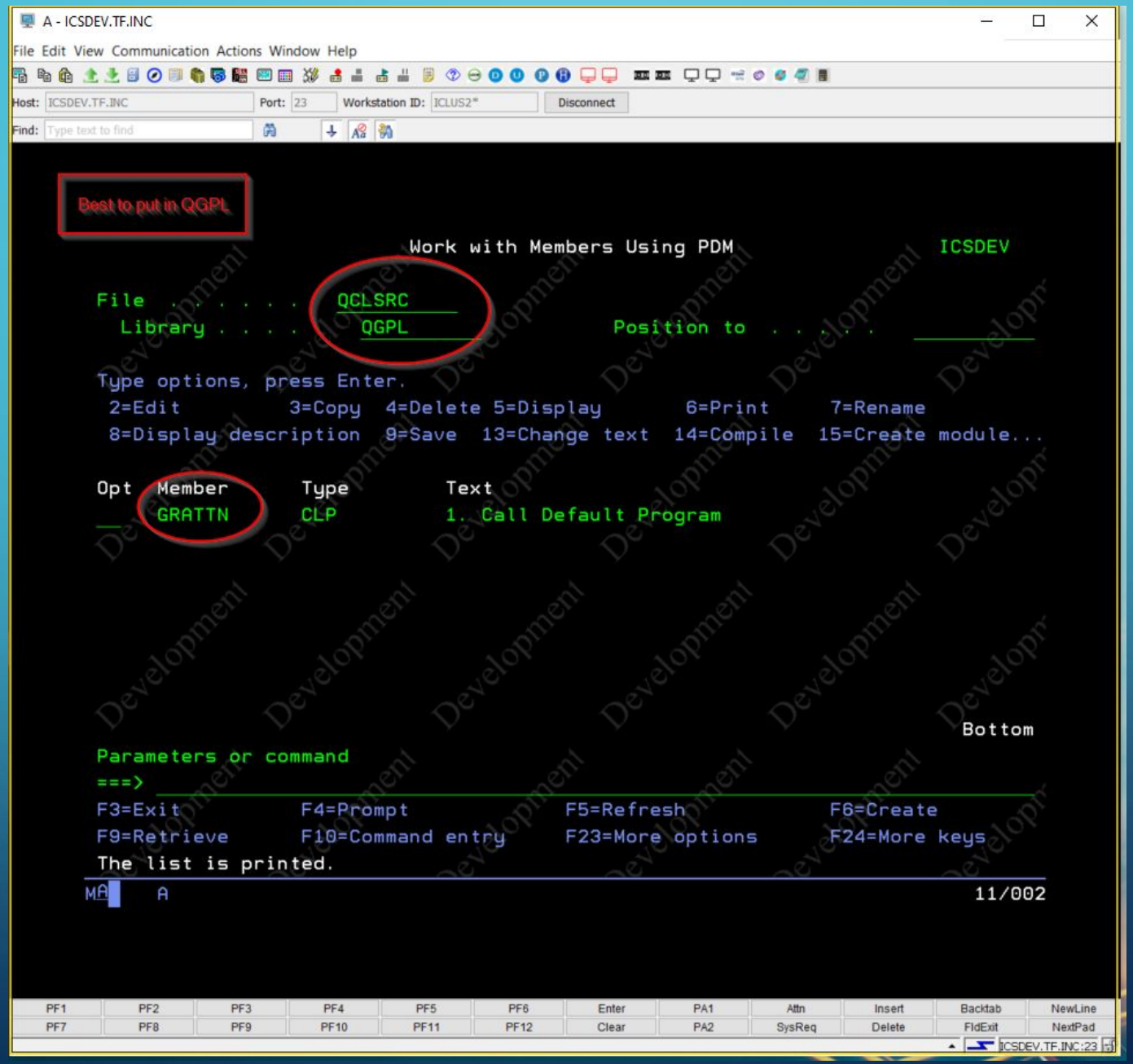
REVIEW USRPRF SETTINGS



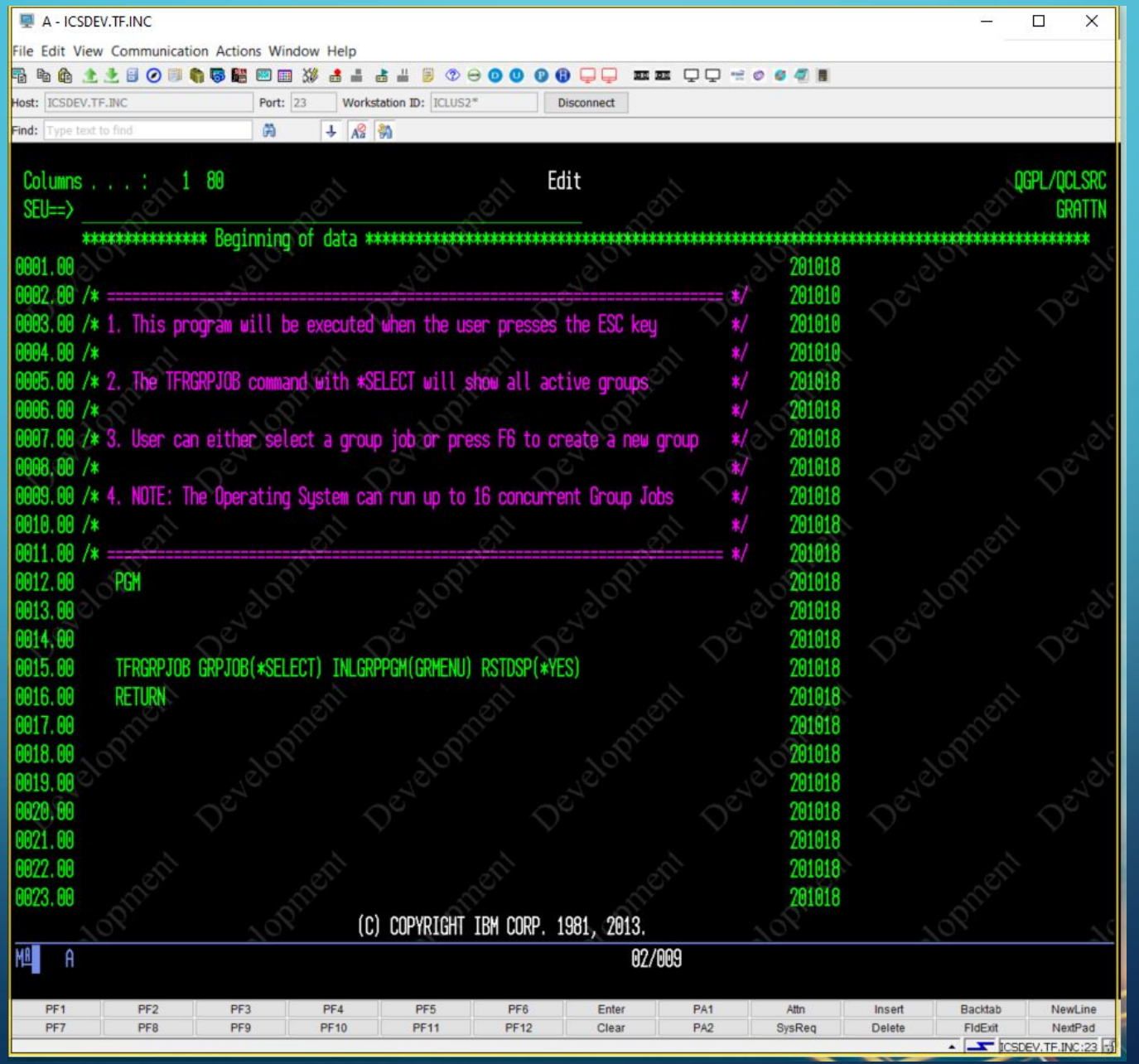
REVIEW USRPRF SETTINGS



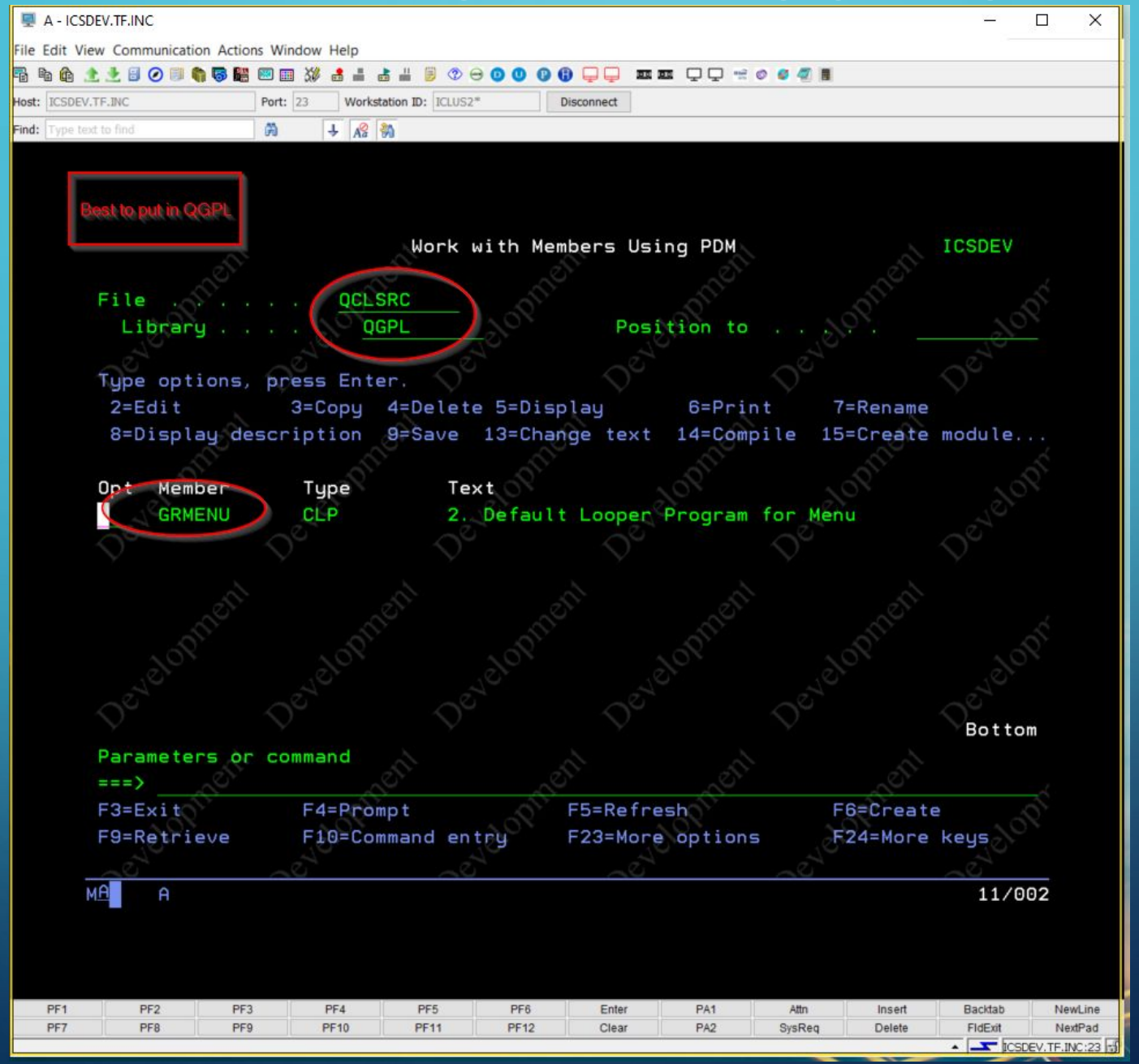
GRATTN PGM – USED WHEN ESC KEY IS PRESSED



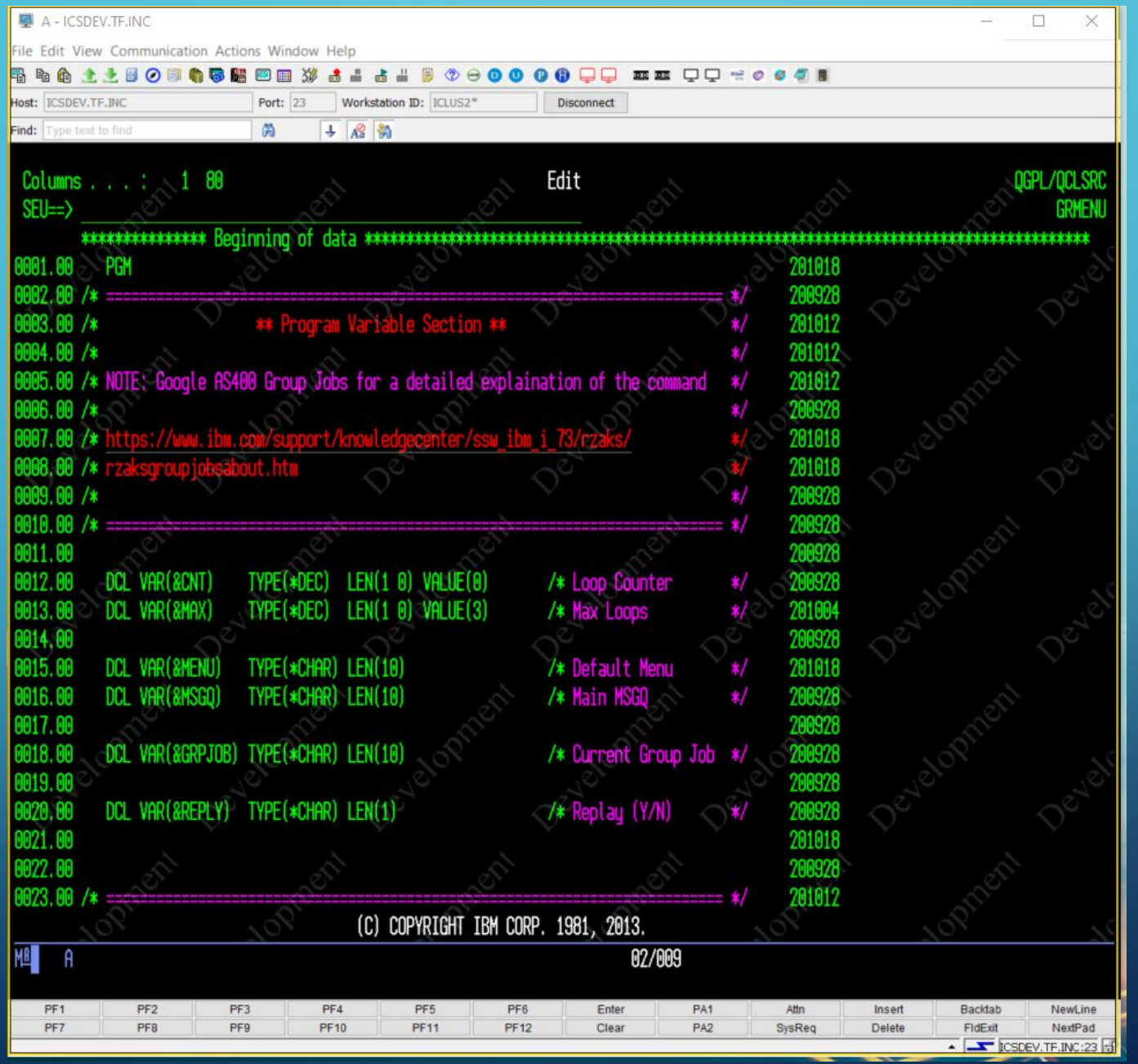
GRATTN PGM – USED WHEN ESC KEY IS PRESSED



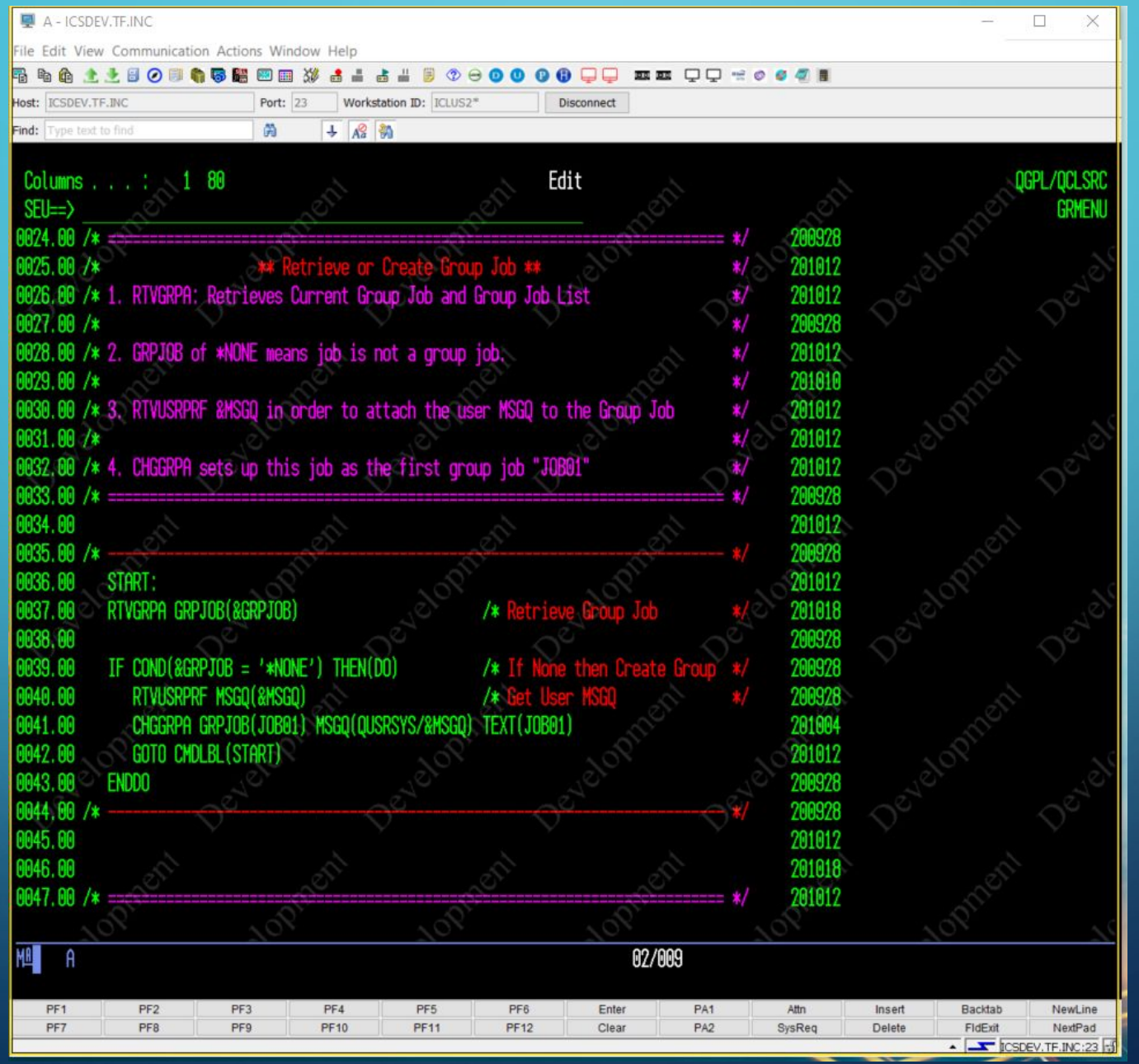
GRMENU PGM – PROGRAM LOOP FOR GRP JOB



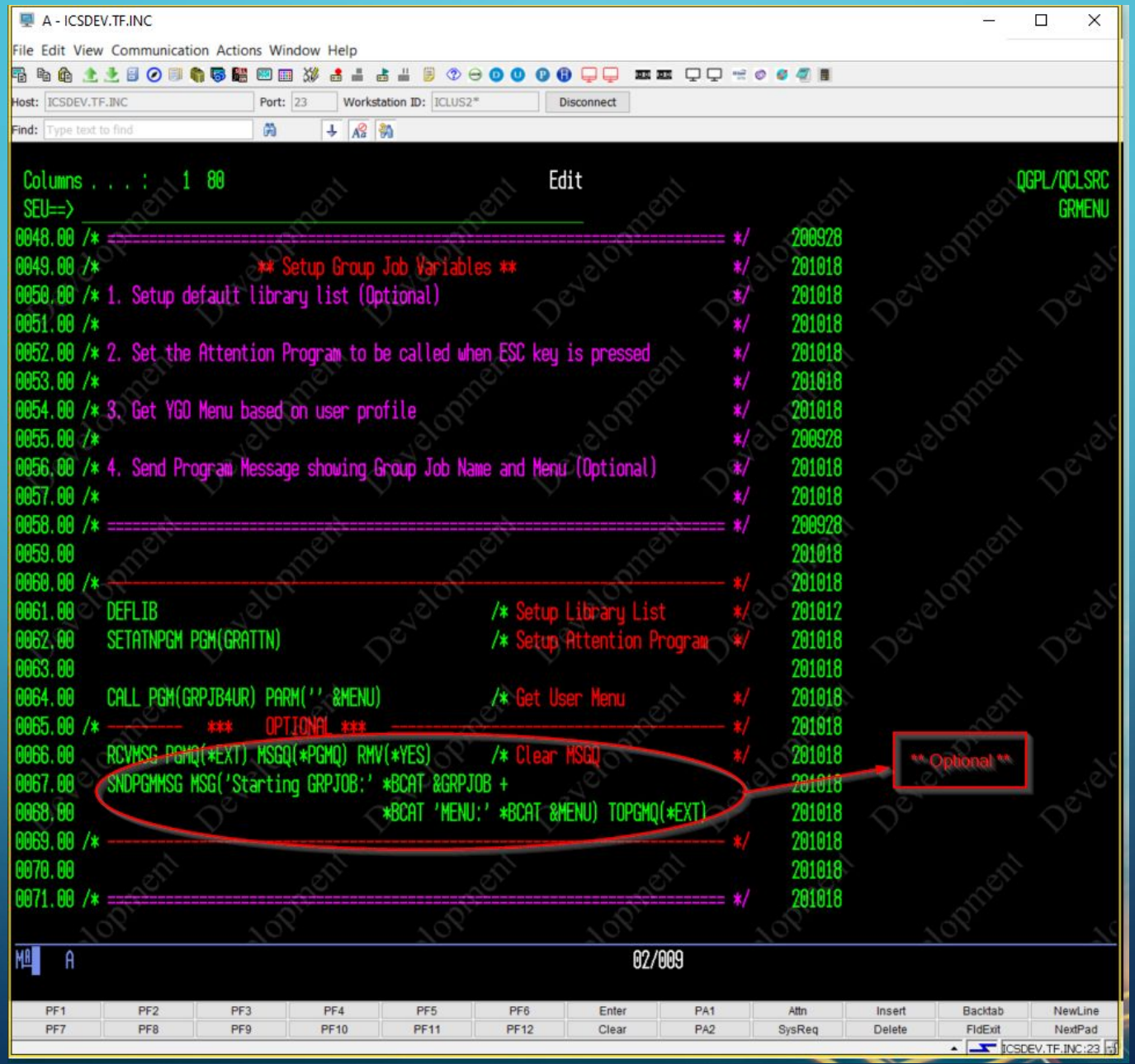
GRMENU PGM – PROGRAM LOOP FOR GRP JOB



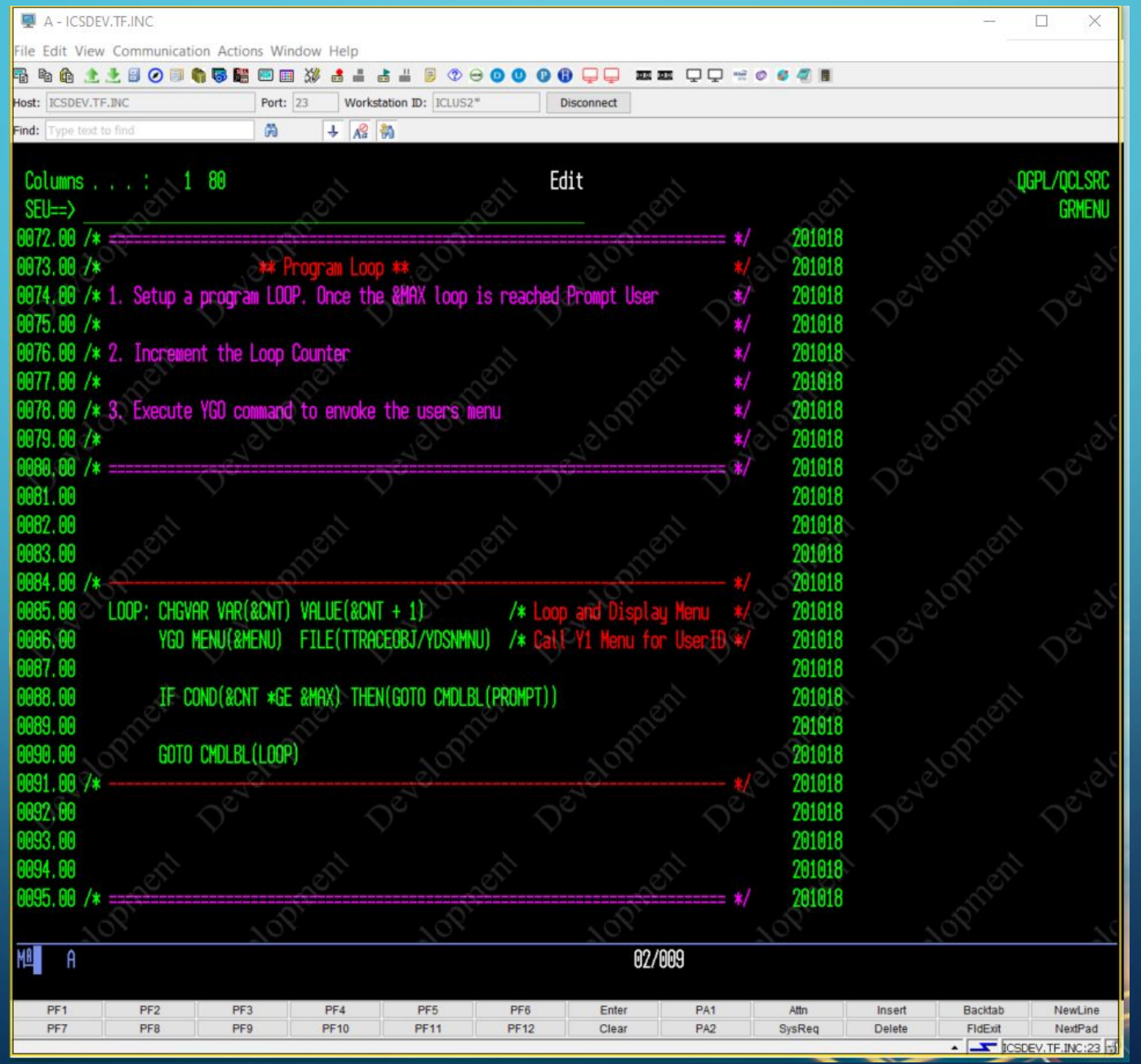
GRMENU PGM – PROGRAM LOOP FOR GRP JOB



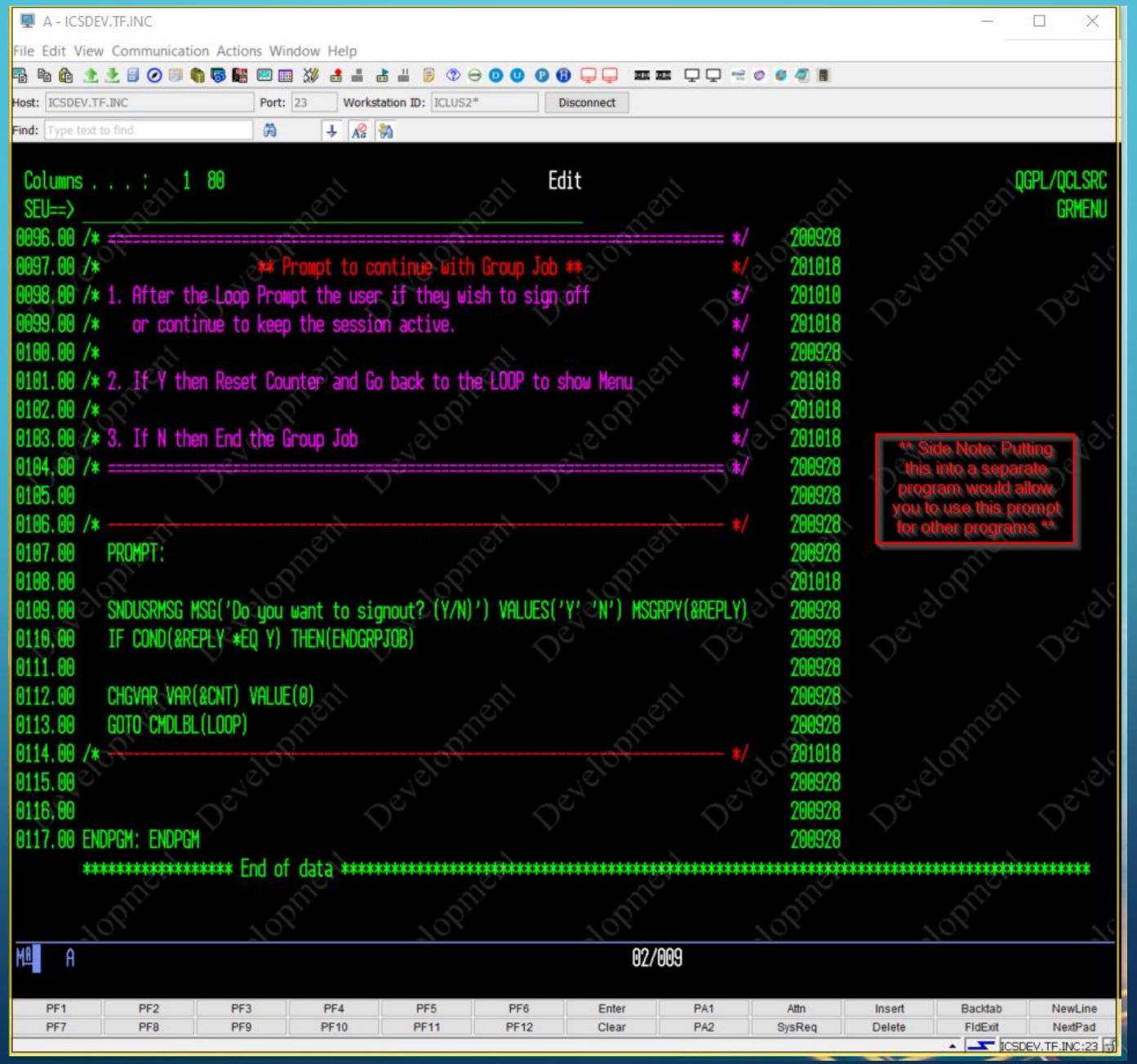
GRMENU PGM – PROGRAM LOOP FOR GRP JOB



GRMENU PGM – PROGRAM LOOP FOR GRP JOB

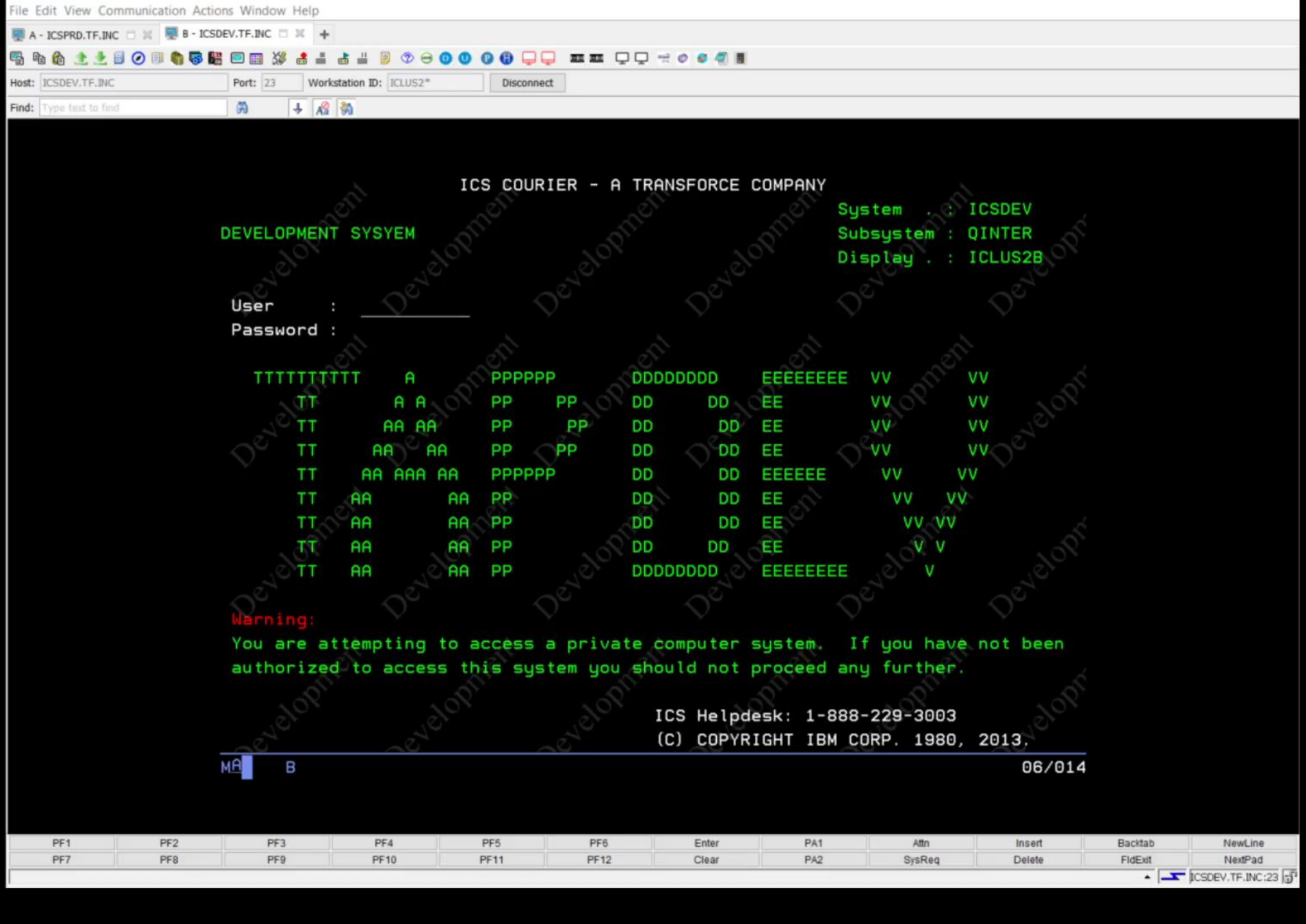


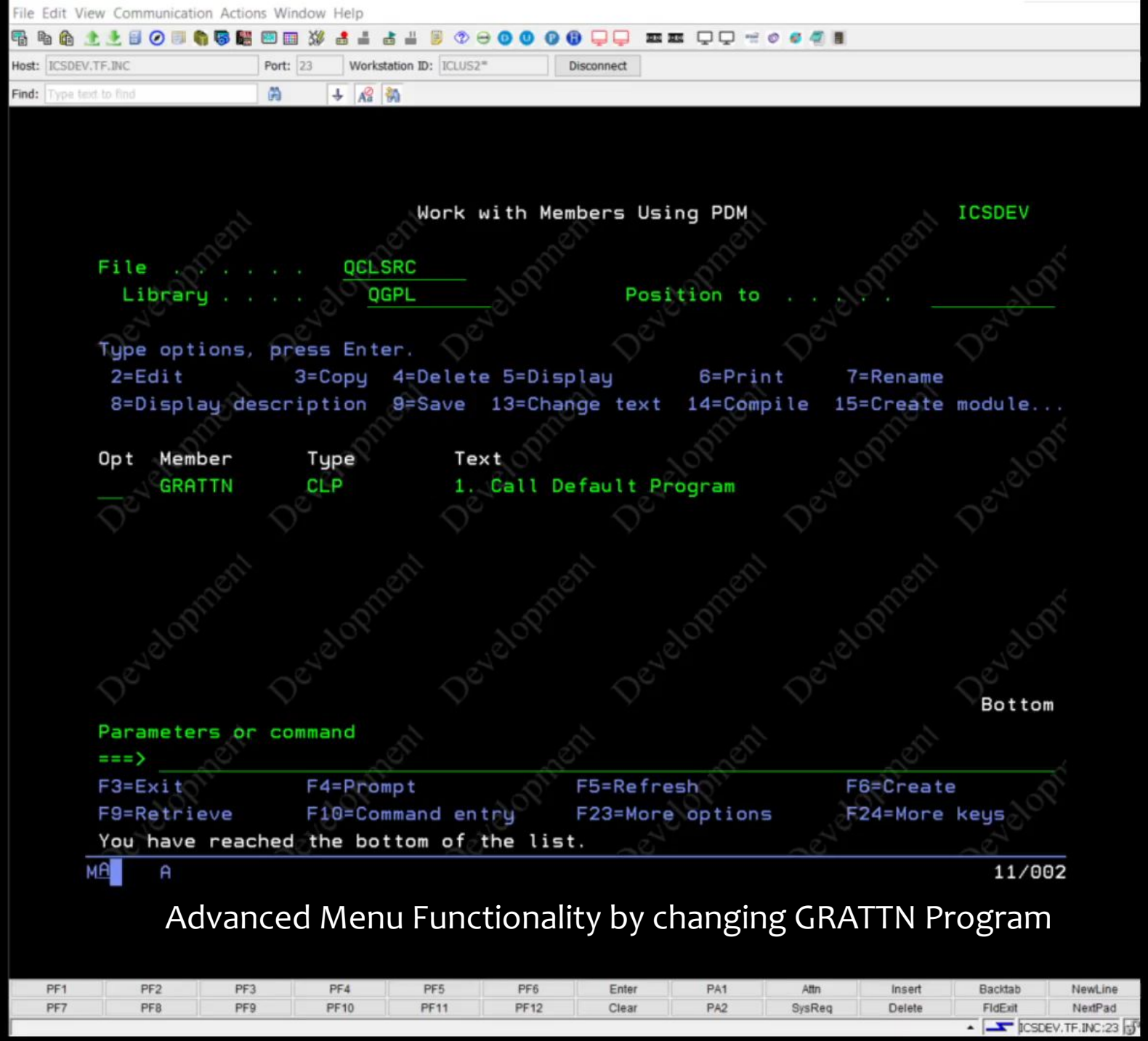
GRMENU PGM – PROGRAM LOOP FOR GRP JOB



Copy / Paste to SEU

```
 PGM
  DCL VAR(&CNT)    TYPE(*DEC)  LEN(1 0) VALUE(0)
  DCL VAR(&MAX)    TYPE(*DEC)  LEN(1 0) VALUE(3)
  DCL VAR(&MENU)   TYPE(*CHAR) LEN(10)
  DCL VAR(&GRPJOB) TYPE(*CHAR) LEN(10)
  DCL VAR(&REPLY)  TYPE(*CHAR) LEN(1)
START:  RTVGRPA GRPJOB(&GRPJOB)
      IF COND(&GRPJOB = '*NONE') THEN(DO)
       CHGGRPA GRPJOB(JOB01) TEXT(JOB01)
       GOTO CMDLBL(START)
      ENDDO
      SETATNPGM PGM(GRATTN)
      CALL PGM(GRPJB4UR) PARM('' &MENU)
      RCVMSG PGMQ(*EXT) MSGQ(*PGMQ) RMV(*YES)
LOOP:   CHGVAR VAR(&CNT) VALUE(&CNT + 1)
      YGO MENU(&MENU)  FILE(TTRACEOBJ/YDSNMNU)
      IF COND(&CNT *GE &MAX) THEN(GOTO
CMDLBL(PROMPT))
      GOTO CMDLBL(LOOP)
PROMPT: SNDUSRMSG MSG('Signoff? (Y/N)') VALUES('Y' 'N')
MSGRPY(&REPLY)
      IF COND(&REPLY *EQ Y) THEN(ENDGRPJOB)
      CHGVAR VAR(&CNT) VALUE(0)
      GOTO CMDLBL(LOOP)
ENDPGM: ENDPGM
```


File Edit View Communication Actions Window Help
A - ICSPRD.TF.INC
B - ICSDEV.TF.INC
Host: ICSDEV.TF.INC
Port: 23
Workstation ID: ICLUS2*
Disconnect
Find: Type text to find
ICS COURIER - A TRANSFORCE COMPANY
System . : ICSDEV
DEVELOPMENT SYSYEM
Subsystem : QINTER
Display . : ICLUS2B
User :
Password :
TTTTTTTTTT A PPPPPP DDDDDDDD EEEEEEEE VV VV
TT A A PP PP DD DD EE VV VV
TT AA AA PP PP DD DD EE VV VV
TT AA AA PP PP DD DD EE VV VV
TT AA AAA AA PPPPPP DD DD EEEEEE VV VV
TT AA AA PP DD DD EE VV VV
TT AA AA PP DD DD EE VV VV
TT AA AA PP DD DD EE V V
TT AA AA PP DDDDDDDD EEEEEEEE V
Warning:
You are attempting to access a private computer system. If you have not been authorized to access this system you should not proceed any further.
ICS Helpdesk: 1-888-229-3003
(C) COPYRIGHT IBM CORP. 1980, 2013.
MA B
06/014
PF1 PF2 PF3 PF4 PF5 PF6 Enter PA1 Attn Insert Backtab NewLine
PF7 PF8 PF9 PF10 PF11 PF12 Clear PA2 SysReq Delete FldExit NextPad
ICSDEV.TF.INC:23



Advanced Menu Functionality by changing GRATTN Program

SENDING HTML EMAILS



Time:14:00

EASY400 MMAIL - Send and rece

Not secure | mmail.easy400.net

Apps | New Tab | Bookmarks | QuickBooks Online | Getting Started | Geek Tools | Excel | Van | TV | Misc | ICS | Other bookmarks

MIME & Mail

Easy400 | IBM System i home | RSS

Public Source | Search | Go

allow translation

10/21/2020 12:13:05

Introduction

Main utilities

5250 utility

Windows utility

Commands

Service program

Sample code

CGI support

FAQ

WEBMail

Bibliography

Index

Display the Change Log

Download



Send an receive mail with IBM i (AS/400, iSeries, System i, ...)

V5R3, V5R4, V5R5, V6R1, V7R1, V7R2, V7R3, V7R4, and ... more to come

A public-source utility authored by Giovanni B. Perotti, Italy.

The contents of these pages are related to the release dated ***October 21, 2020***.

- You may display the MMAIL Change Log.
- If you already installed MMAIL and you want to know its release date, run command
  `MMAIL/RELEASED` .
- If you want you may download the "MMAIL Developer Guide", a PDF containing a subset of these web pages on MMAIL.

1. Prerequisites, installation, contents, distribution, updates
2. Objectives and Restrictions
3. MIME files
4. QtmmSendMail API
5. MIME & Mail 5250 Utility
6. MIME & Mail Windows Utility
7. MIME & Mail Main utilities
8. Spool file to PDF conversion tools
9. SendMail service program
10. Commands
11. Duplicating a MMAIL installation to other systems
12. Multiple MMAIL libraries
13. Development libraries
14. Troubleshooting and FAQs

MMAIL COMMANDS

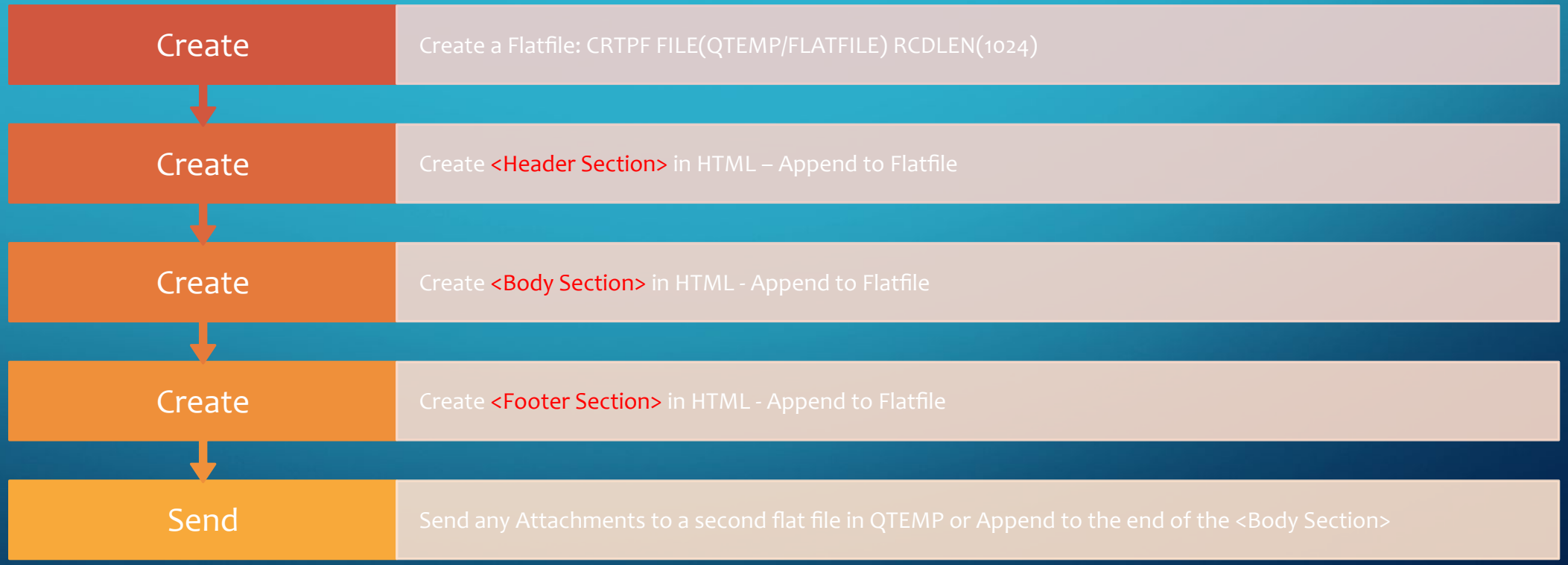
EMLMSG – Sends an Email with Subject Line and the BODY will be the HTML FlatFile – sent to IFS folder

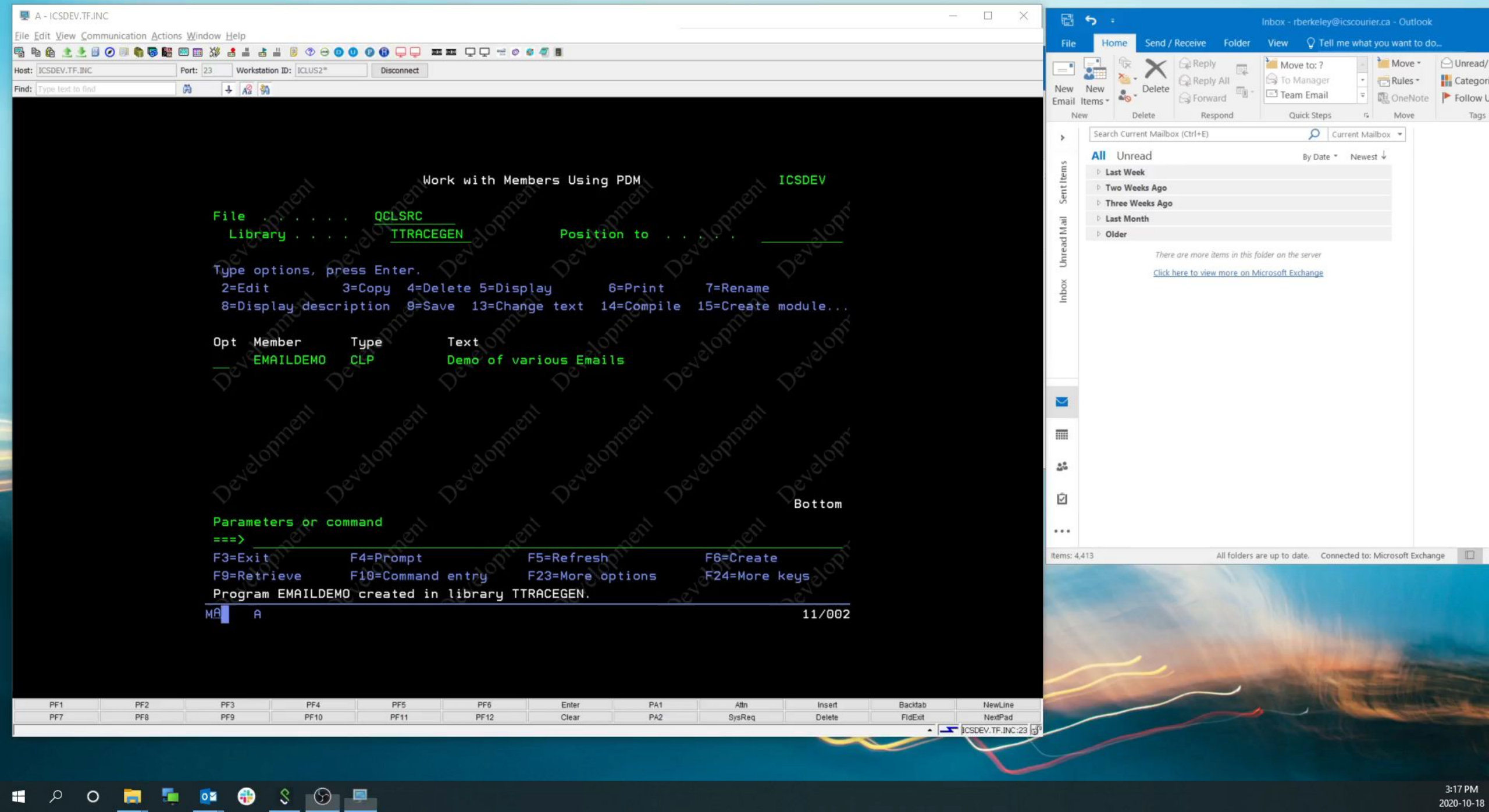
CVTSPLSTMF – Converts a Spool file to a Stream File

EMLHTML2 – Email HTML Body with Attachments

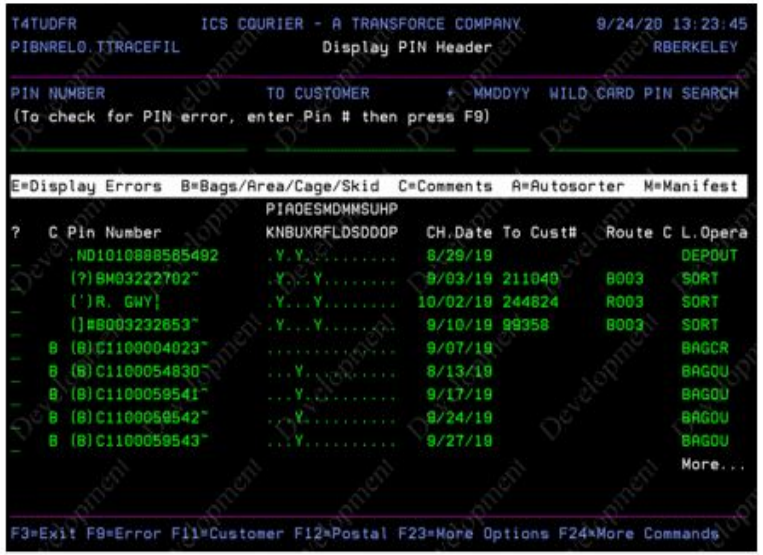
- Attachments are stream files sent temporarily to a designated IFS folder

STRUCTURING YOUR EMAIL

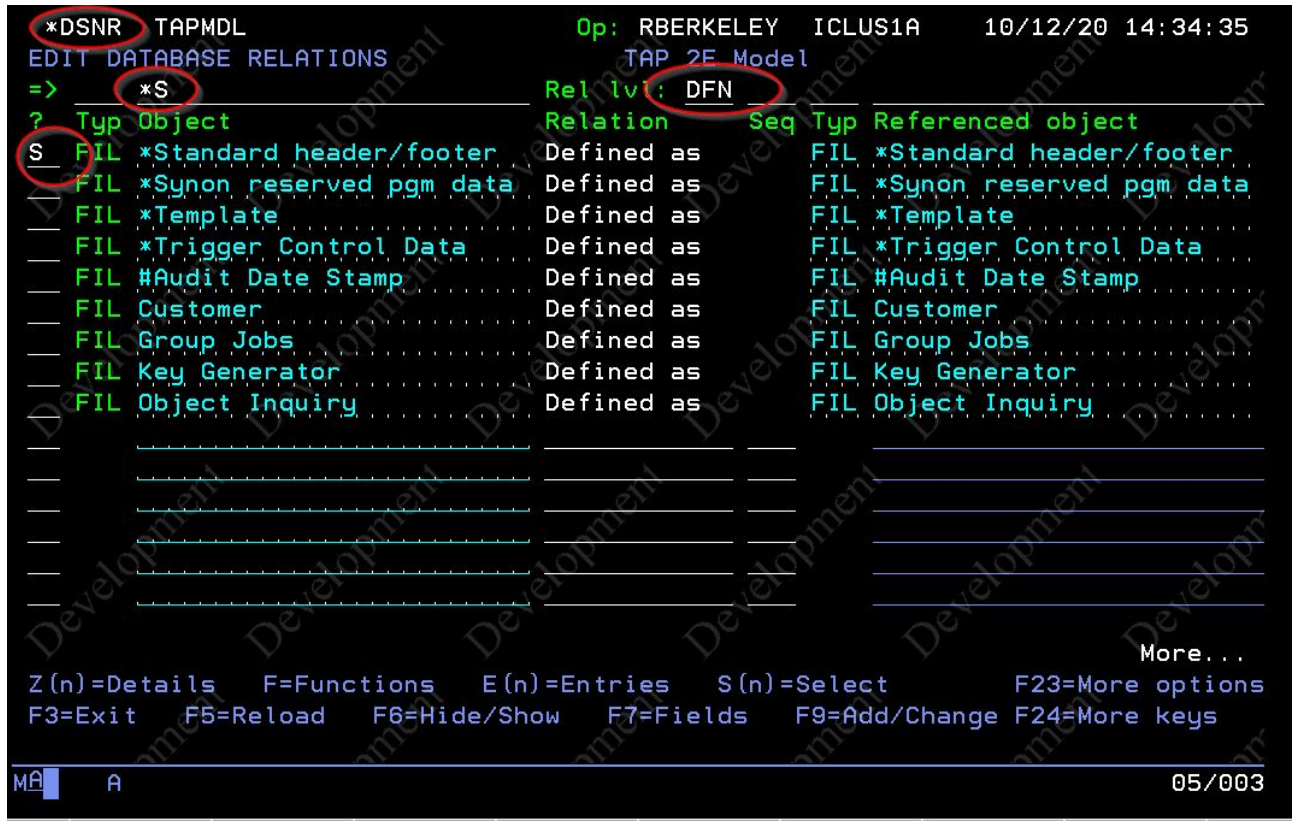



A - ICSDEV.TF.INC
File Edit View Communication Actions Window Help
Host: ICSDEV.TF.INC Port: 23 Workstation ID: ICLUS2* Disconnect
Find: Type text to find
Work with Members Using PDM ICSDEV
File . . . . . QCLSRC
Library . . . . TTRACEGEN Position to . . . . .
Type options, press Enter.
2=Edit 3=Copy 4=Delete 5=Display 6=Print 7=Rename
8=Display description 9=Save 13=Change text 14=Compile 15=Create module...
Opt Member Type Text
EMAILDEMO CLP Demo of various Emails
Bottom
Parameters or command
===>
F3=Exit F4=Prompt F5=Refresh F6=Create
F9=Retrieve F10=Command entry F23=More options F24=More keys
Program EMAILDEMO created in library TTRACEGEN.
MA A 11/002
PF1 PF2 PF3 PF4 PF5 PF6 Enter PA1 Attn Insert Backtab NewLine
PF7 PF8 PF9 PF10 PF11 PF12 Clear PA2 SysReq Delete FldExit NextPad
ICSDEV.TF.INC:23
Inbox - rberkeley@icscourier.ca - Outlook
File Home Send / Receive Folder View Tell me what you want to do...
New Email New Items Delete Reply Reply All Forward Move to: ? To Manager Team Email Move Rules OneNote Unread/ Categori Follow U
New Delete Respond Quick Steps Move Tags
Search Current Mailbox (Ctrl+E) Current Mailbox
All Unread By Date Newest
Last Week
Two Weeks Ago
Three Weeks Ago
Last Month
Older
There are more items in this folder on the server
Click here to view more on Microsoft Exchange
Sent Items
Unread Mail
Inbox
Items: 4,413 All folders are up to date. Connected to: Microsoft Exchange
3:17 PM
2020-10-18

CHANGING DSPFIL TO 132-COLUMN

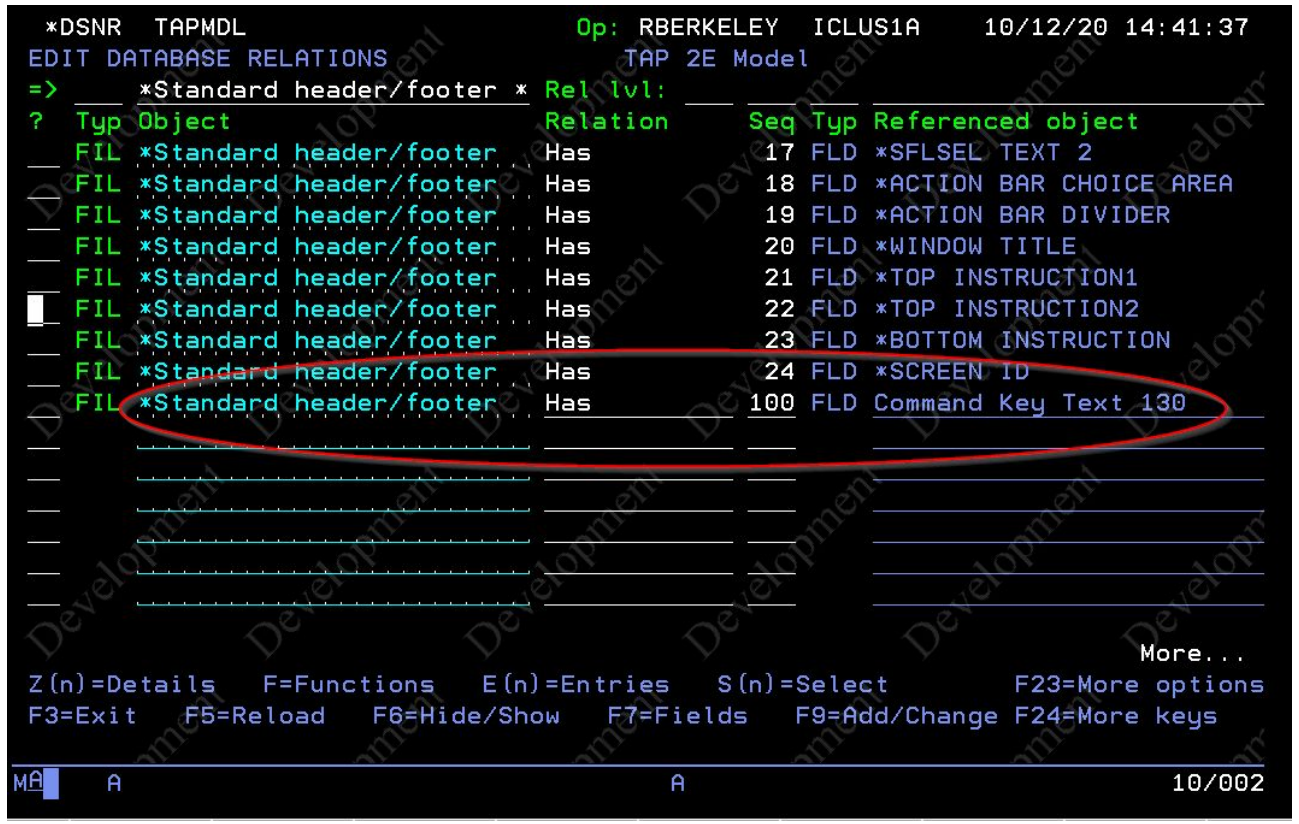


Time: 9:00



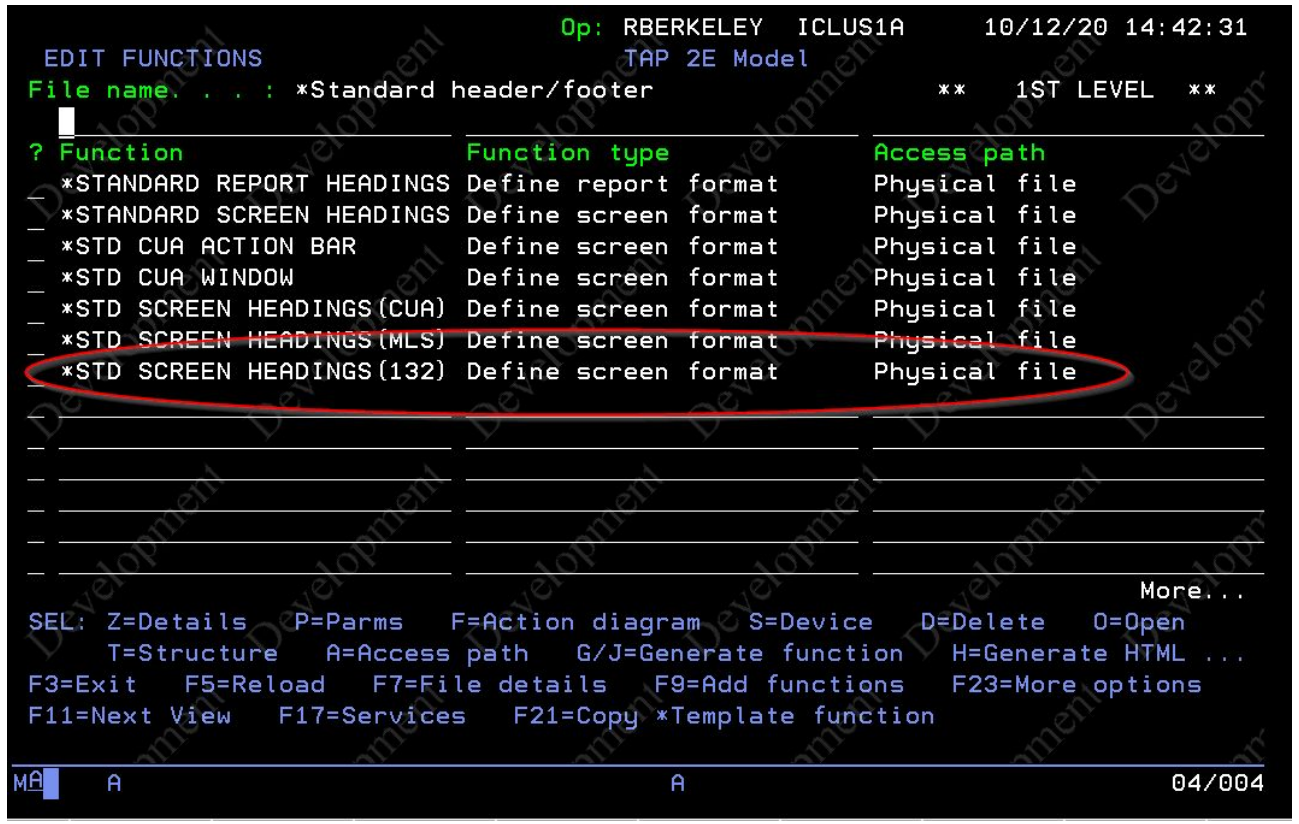
CREATING 132-COLUMN DSPFIL

1. Enter Model as *DSNR
2. Navigate to Functions for *Standard header/footer



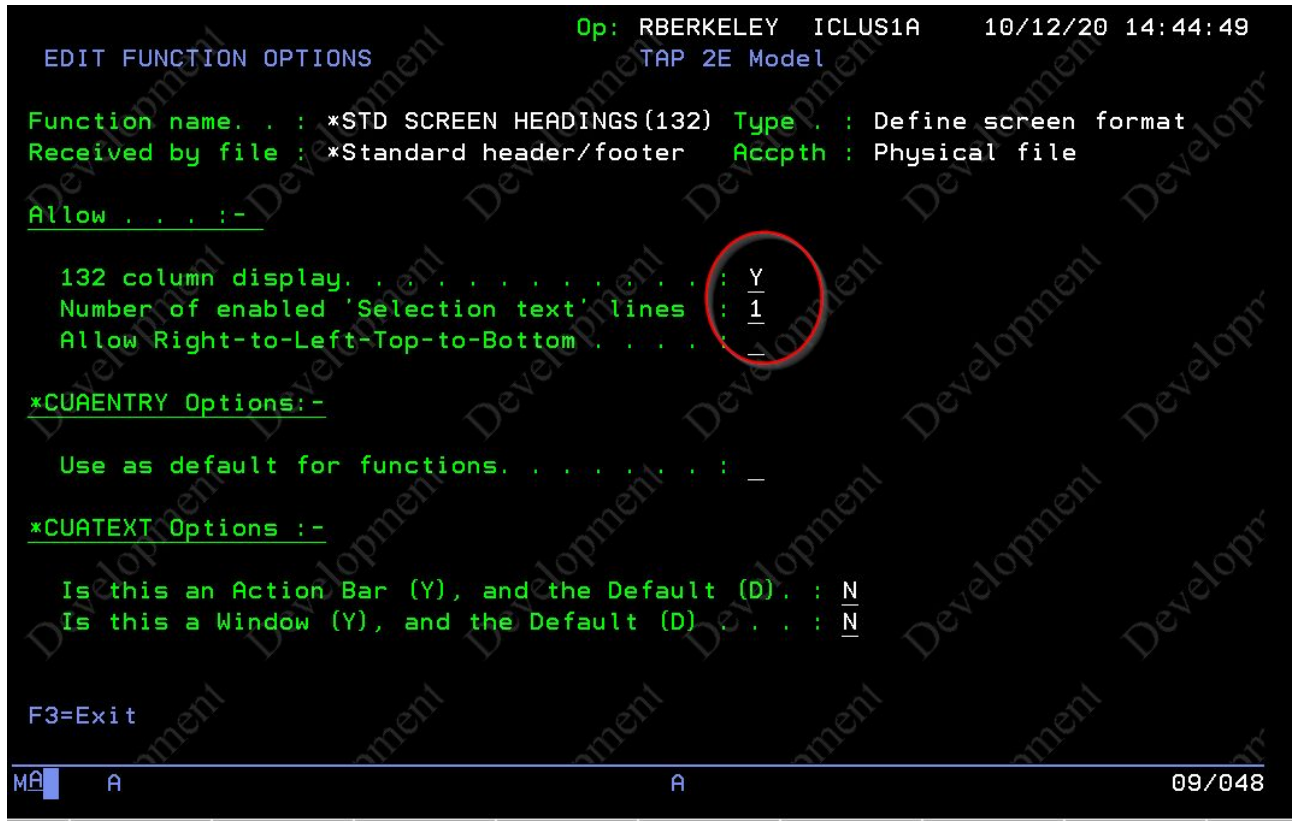
CREATING 132-COLUMN DSPFIL

1. Added another field
2. Command Key Text 130
3. Create at TXT Length 130
   use upper/lowercase



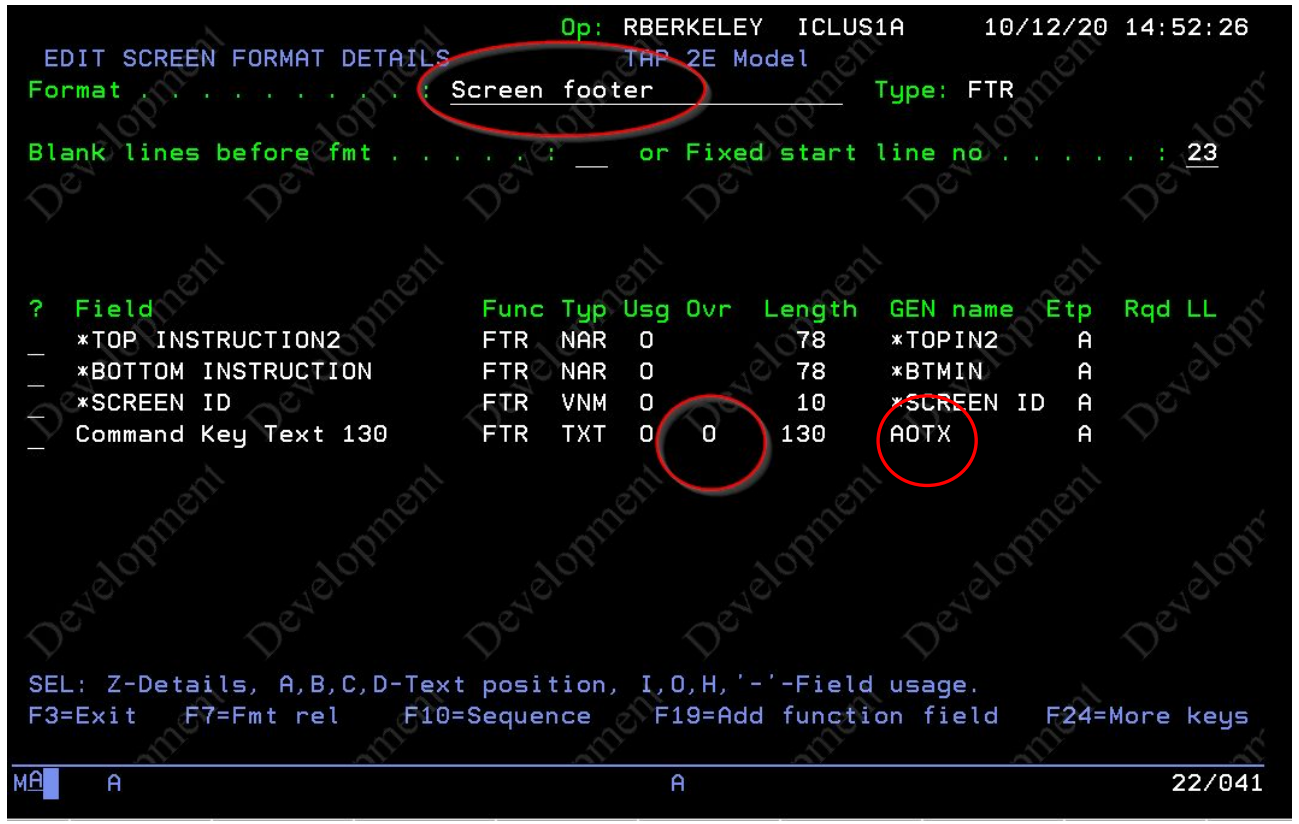
CREATING 132-COLUMN DSPFIL

1. Go into the functions (F)
2. Create Function called
3. *STD SCREEN HEADINGS(132)
4. As Define screen format
5. Physical file



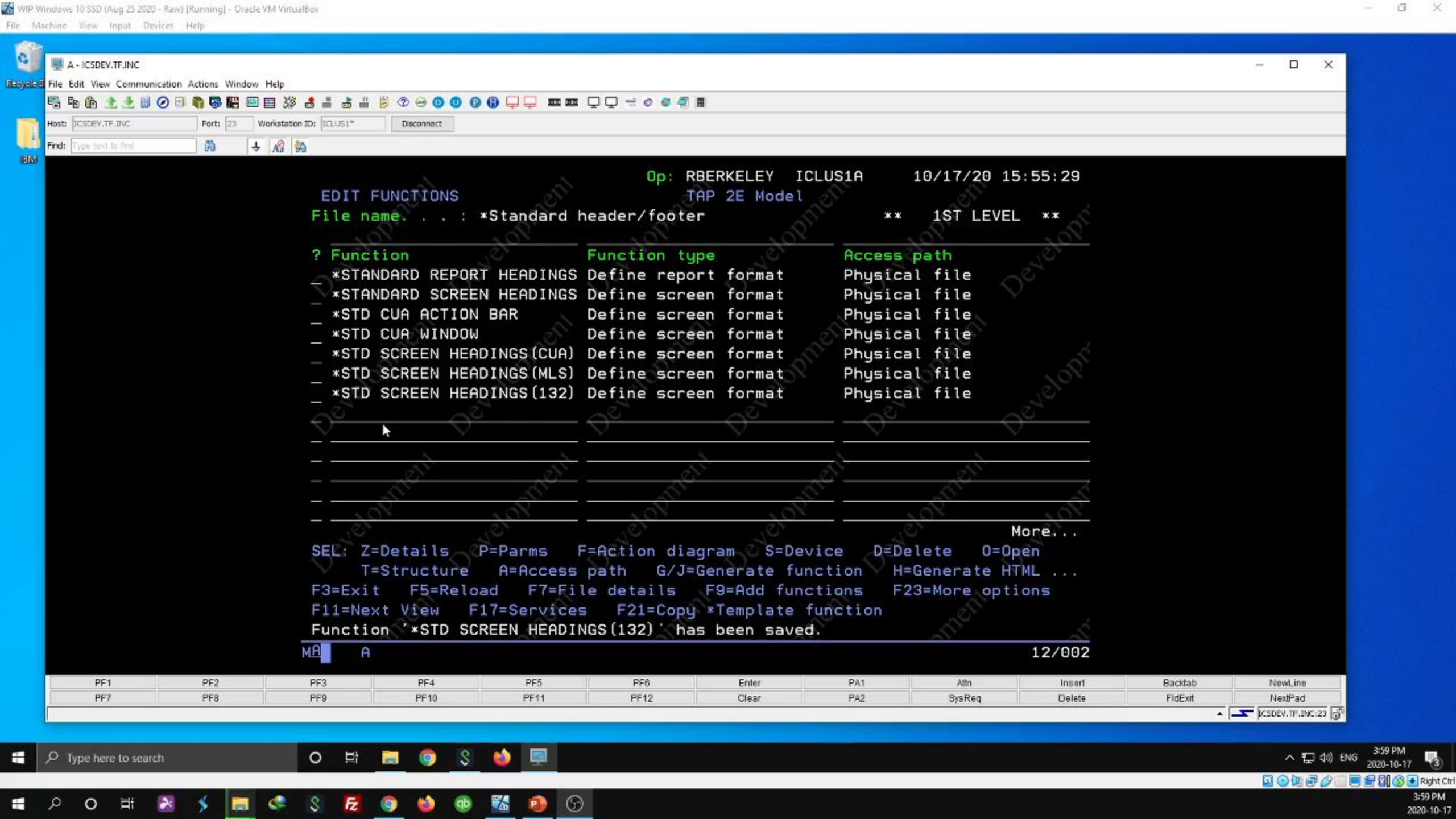
CREATING 132-COLUMN DSPFIL

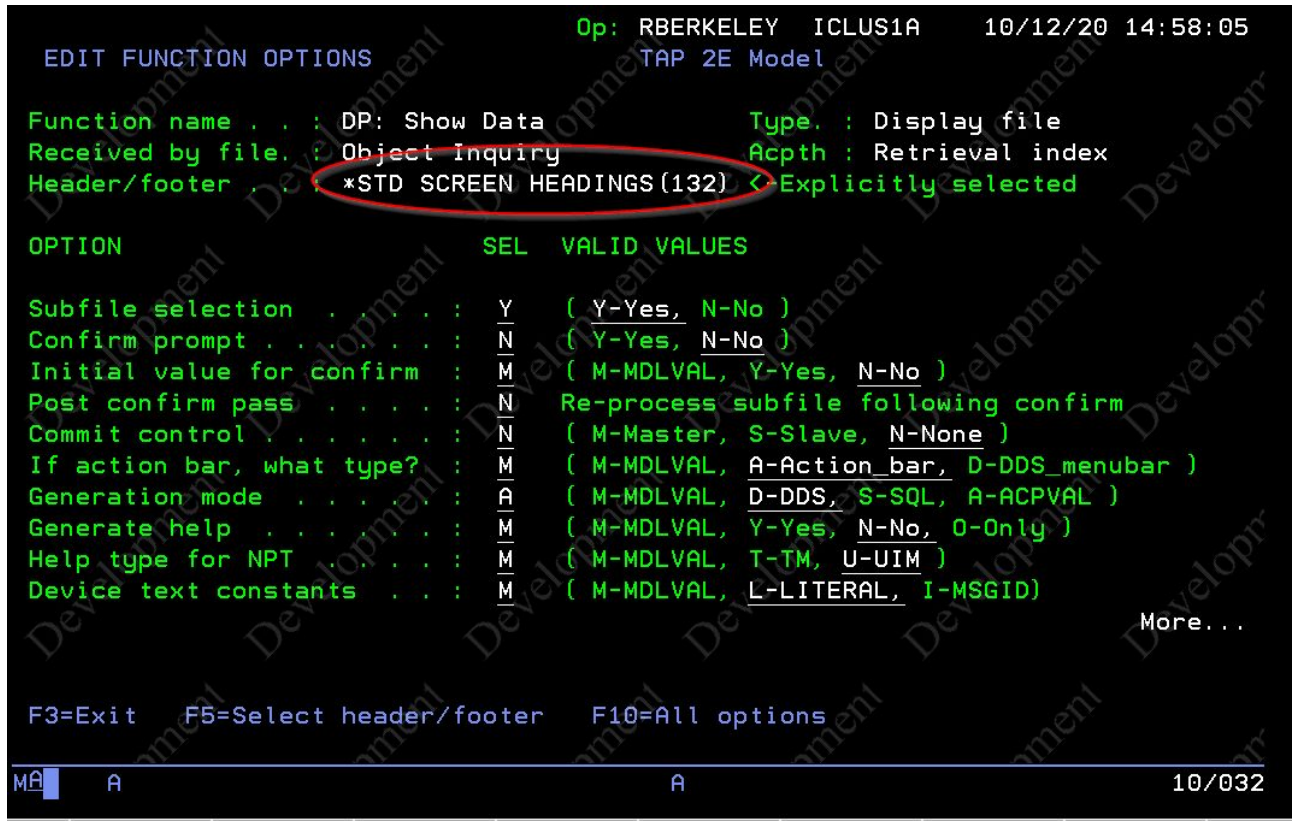
1. Select with option Z=Details
2. Then F7=Options
3. Change 132 Column Display to Y
4. Then F3 (twice) back to Edit Functions



CREATING 132-COLUMN DSPFIL

1. Use option S to go into Screen Design
2. Shift F5 to look at Header format/Screen footer
3. Use Option Z to cleanup the Header format
4. Use Option Z to cleanup the screen footer
5. Note: Screen Footer should ONLY have the new field Command Key Text 130 as O
6. Save Results
7. Exist / Resynchronize the model and enter as *PGMR
8. Take Note of the GEN Name (AOTX)


WIP Windows 10 SSD (Aug 25 2020 - Raw) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
A - ICSDEV.TF.INC
File Edit View Communication Actions Window Help
Host: ICSDEV.TF.INC Port: 23 Workstation ID: ICLUS1* Disconnect
Find: Type text to find
Op: RBERKELEY ICLUS1A 10/17/20 15:55:29
EDIT FUNCTIONS
TAP 2E Model
File name. . . : *Standard header/footer ** 1ST LEVEL **
? Function Function type Access path
_ *STANDARD REPORT HEADINGS Define report format Physical file
_ *STANDARD SCREEN HEADINGS Define screen format Physical file
_ *STD CUA ACTION BAR Define screen format Physical file
_ *STD CUA WINDOW Define screen format Physical file
_ *STD SCREEN HEADINGS(CUA) Define screen format Physical file
_ *STD SCREEN HEADINGS(MLS) Define screen format Physical file
_ *STD SCREEN HEADINGS(132) Define screen format Physical file
More...
SEL: Z=Details P=Parms F=Action diagram S=Device D=Delete O=Open
T=Structure A=Access path G/J=Generate function H=Generate HTML ...
F3=Exit F5=Reload F7=File details F9=Add functions F23=More options
F11=Next View F17=Services F21=Copy *Template function
Function '*STD SCREEN HEADINGS(132)' has been saved.
MA A 12/002
PF1 PF2 PF3 PF4 PF5 PF6 Enter PA1 Attn Insert Backtab NewLine
PF7 PF8 PF9 PF10 PF11 PF12 Clear PA2 SysReq Delete FldExit NextPad
ICSDEV.TF.INC:23
Type here to search
ENG 3:59 PM 2020-10-17
Right Ctrl
3:59 PM 2020-10-17



CREATING 132-COLUMN DSPFIL

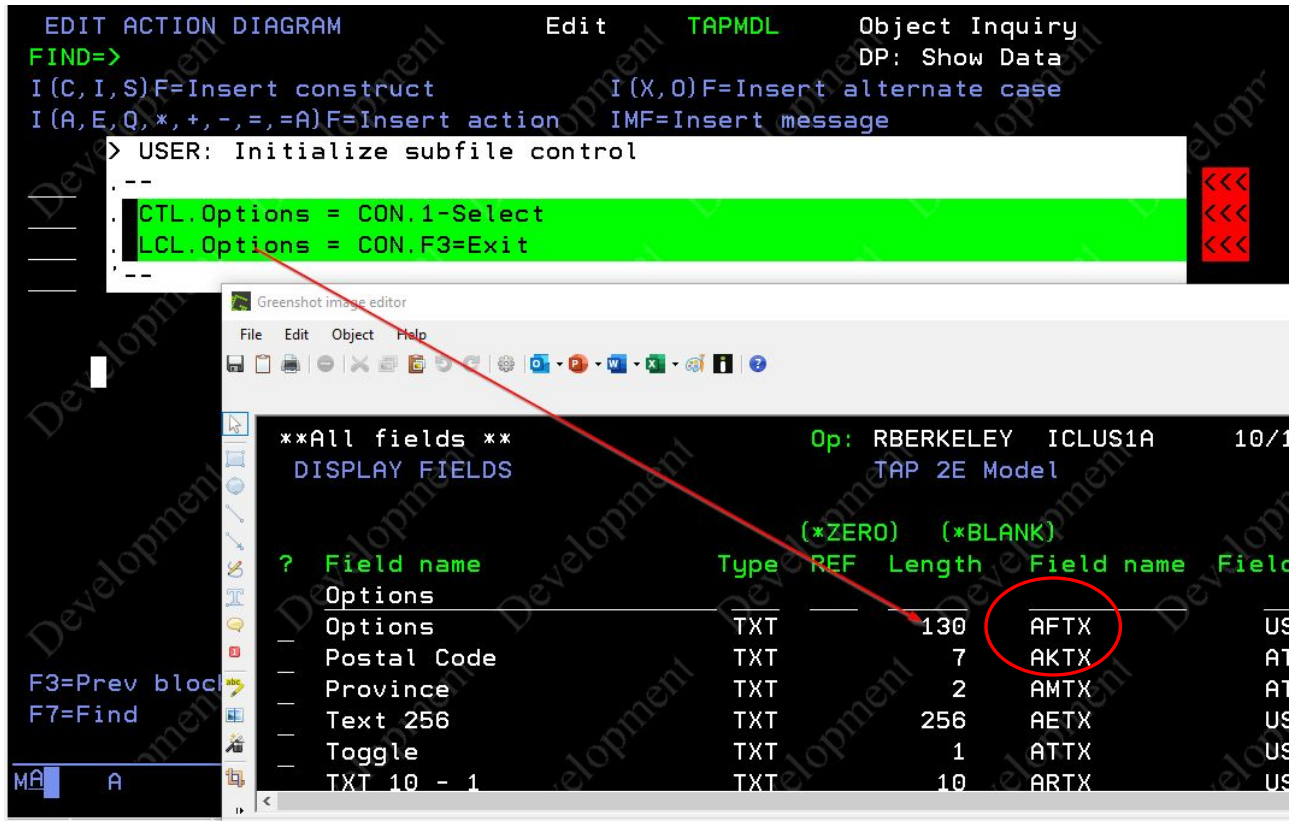
1. Select a 2E file and create a DSPFIL
2. Select the new DSPFIL with Z=Details then press F7=Options
3. Press F5=Select Header/Footer
4. Use X-Select to Select the newly created *STD SCREEN HEADINGS(132)



CREATING 132-COLUMN DSPFIL

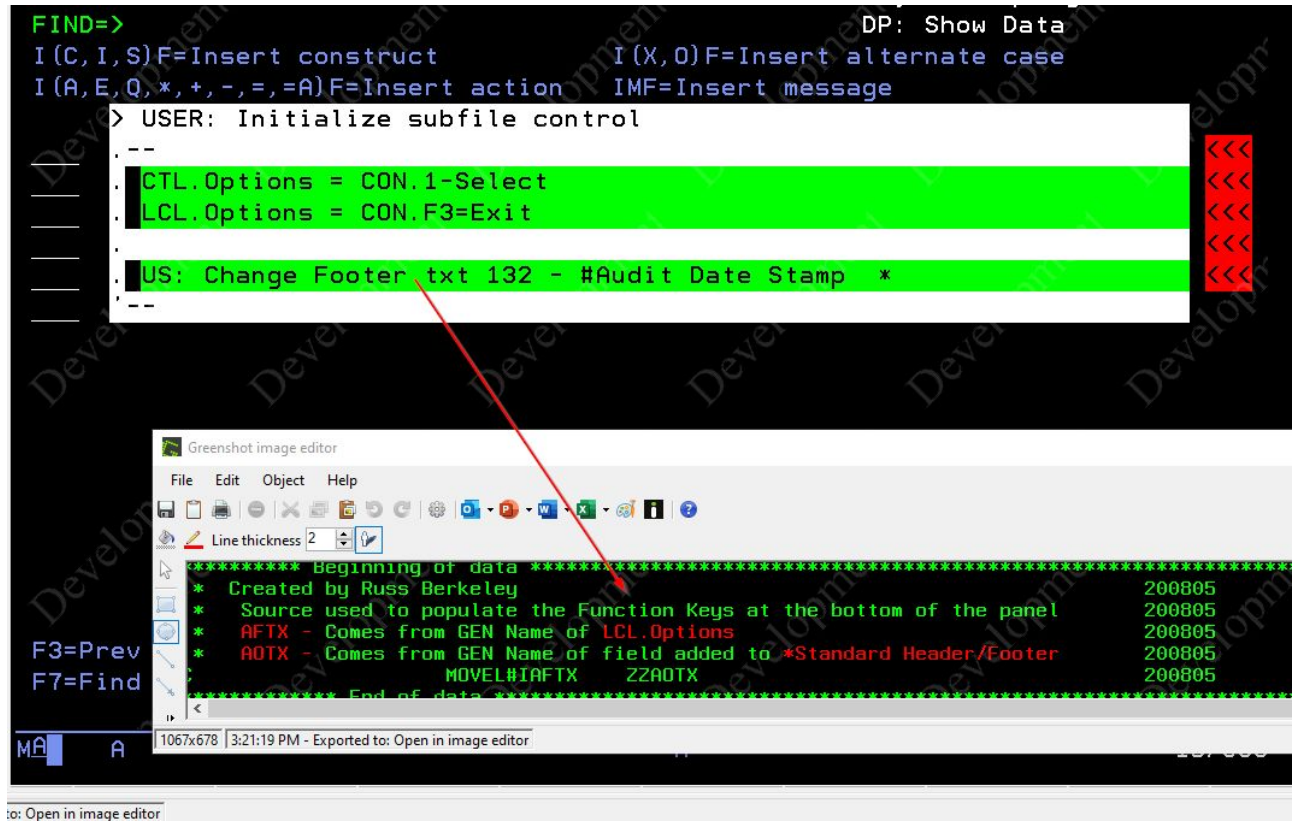
1. Back on the Functions use option S to format your DSPFIL (knowing you can go to 132 display)
2. Create a variable TXT field at the top of the subfil to be used to display subfile optios
3. Notice the footer is now a variable.

CREATING 132-COLUMN DSPFIL

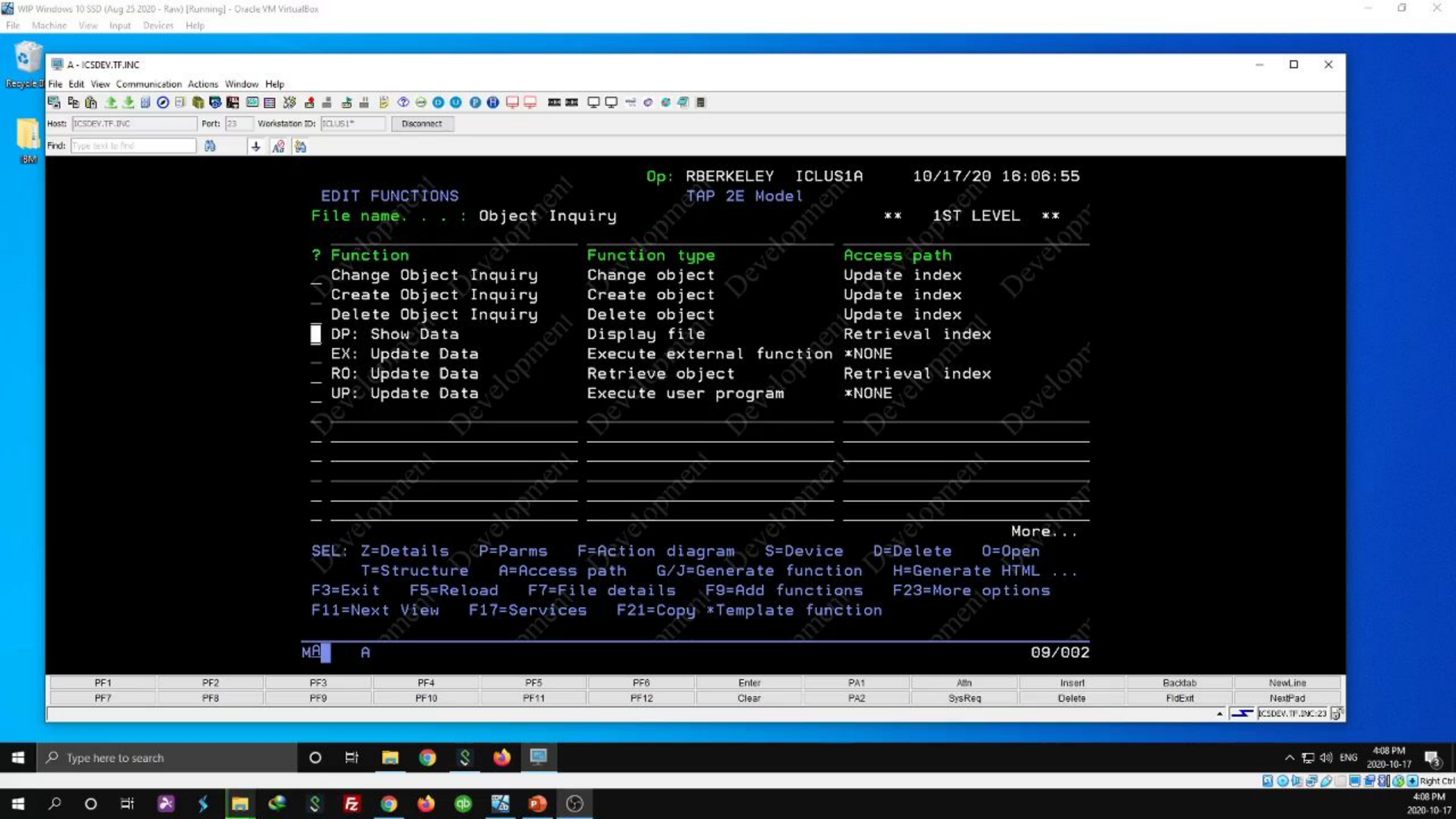


1. F3 out of Screen Design
2. F5 into action diagram
3. At USER: Initialize subfile control Initialize:
    1. CTL.Options with your subfile options
    2. LCL.Options with your function key options
4. Take note of Field name (AFTX)

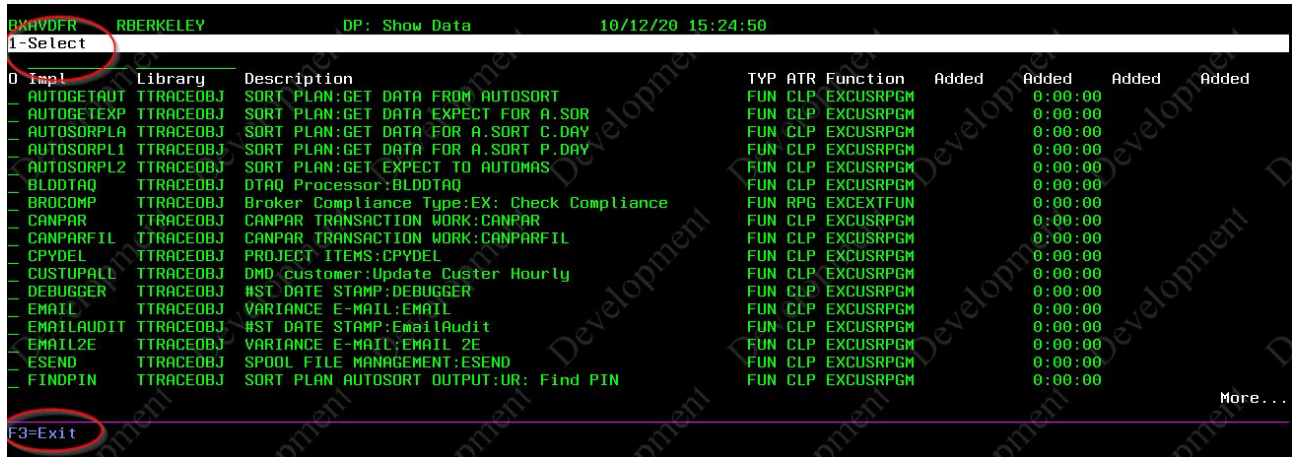
CREATING 132-COLUMN DSPFIL



1. Create an Execute user source function with an INPUT Parameter of Options
2. Pass in the LCL.Options
3. (Take note of the field name for Options (AFTX)
4. This is how the footer will be initialized.


WIP Windows 10 SSD (Aug 25 2020 - Raw) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
A - ICSDEV.TF.INC
File Edit View Communication Actions Window Help
Host: ICSDEV.TF.INC Port: 23 Workstation ID: ICLUS1* Disconnect
Find: Type text to find
Op: RBERKELEY ICLUS1A 10/17/20 16:06:55
EDIT FUNCTIONS
TAP 2E Model
File name. . . : Object Inquiry ** 1ST LEVEL **
? Function Function type Access path
_ Change Object Inquiry Change object Update index
_ Create Object Inquiry Create object Update index
_ Delete Object Inquiry Delete object Update index
_ DP: Show Data Display file Retrieval index
_ EX: Update Data Execute external function *NONE
_ RO: Update Data Retrieve object Retrieval index
_ UP: Update Data Execute user program *NONE
More...
SEL: Z=Details P=Parms F=Action diagram S=Device D=Delete O=Open
T=Structure A=Access path G/J=Generate function H=Generate HTML ...
F3=Exit F5=Reload F7=File details F9=Add functions F23=More options
F11=Next View F17=Services F21=Copy *Template function
MA A 09/002
PF1 PF2 PF3 PF4 PF5 PF6 Enter PA1 Attn Insert Backtab NewLine
PF7 PF8 PF9 PF10 PF11 PF12 Clear PA2 SysReq Delete FldExit NextPad
ICSDEV.TF.INC:23
Type here to search
ENG 4:08 PM 2020-10-17
Right Ctrl
4:08 PM 2020-10-17

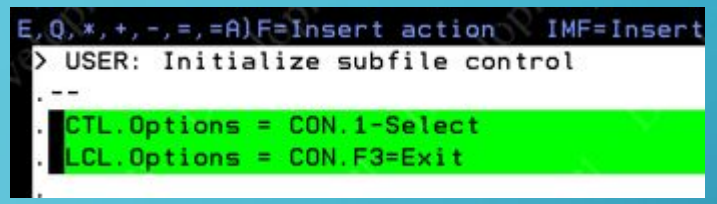
CREATING 132-COLUMN DSPFIL



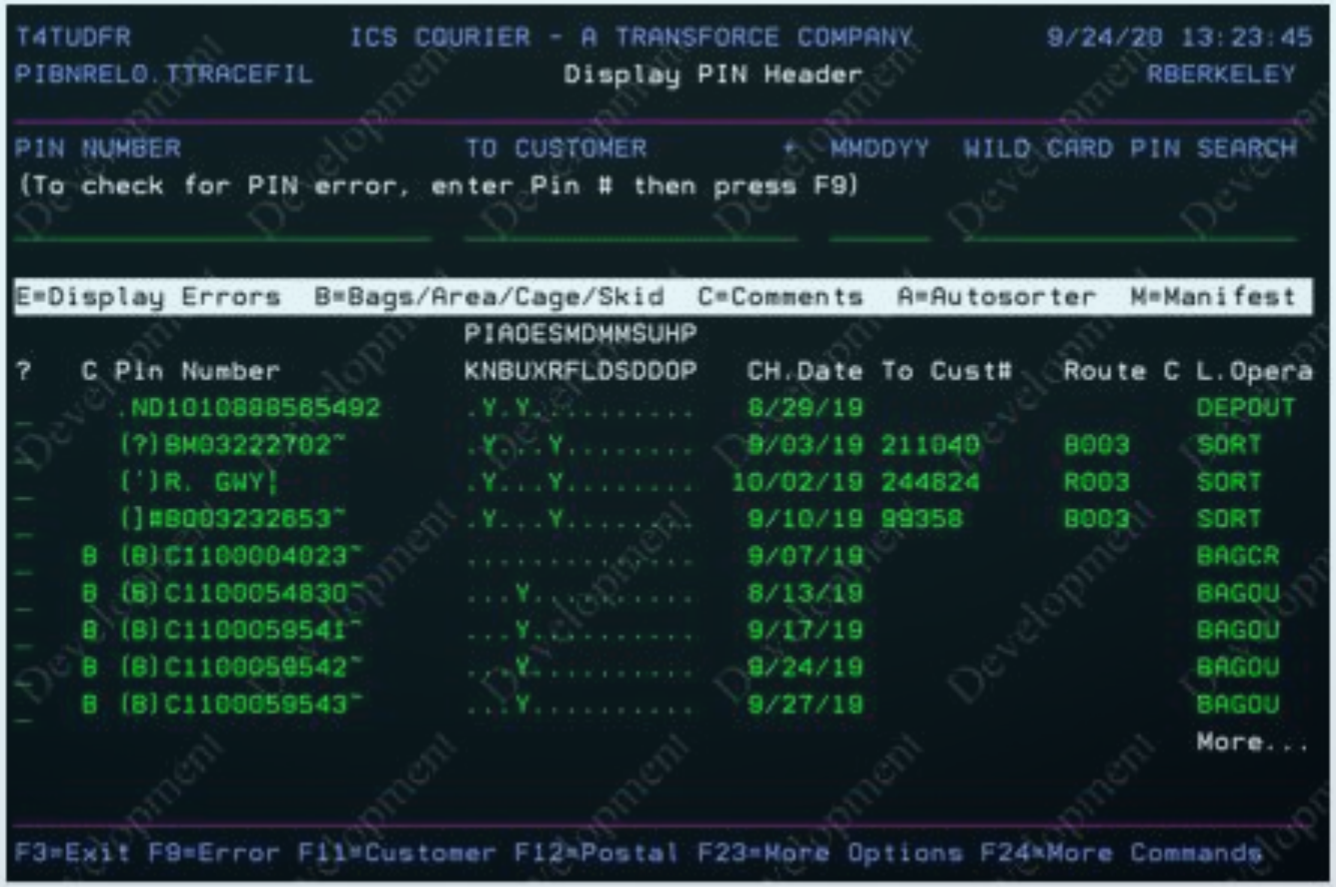
1. Generate / Compile your new DSPFIL
2. Run the DSPFIL it will be a 132 Column Display

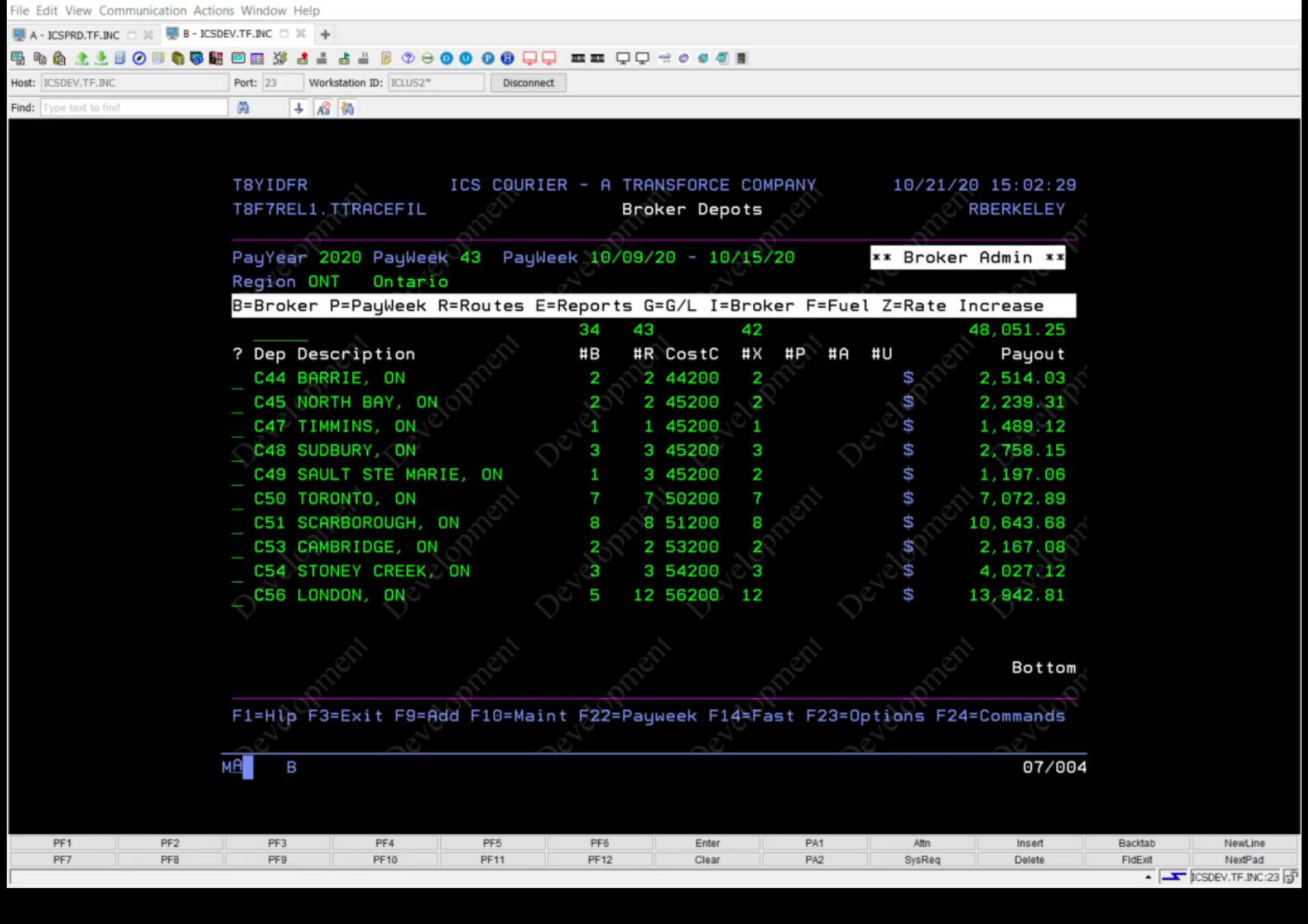
ADVANCED DISPLAY FUNCTIONALITY

THINKING …



- Since we now have 2 variables on a DSPFIL
  - Subfile Options (Header)
  - Subfile Functions (Footer)
- We can write programs around how these fields are populated
- E.g. F23 = Show more Options / F24=Show more functions
- Add security around Functions/Options based on USER Profile
- Imagine the possibilities.


T4TUDFR ICS COURIER - A TRANSFORCE COMPANY 9/24/20 13:23:45
PIBNRELO.TTRACEFIL Display PIN Header RBERKELEY
PIN NUMBER TO CUSTOMER * MMDDYY WILD CARD PIN SEARCH
(To check for PIN error, enter Pin # then press F9)
E=Display Errors B=Bags/Area/Cage/Skid C=Comments A=Autosorter M=Manifest
? C Pin Number KNBUXRFLDSDDOP CH.Date To Cust# Route C L.Opera
.ND1010888585492 .Y.Y..... 8/20/19 DEPOUT
(?)BM03222702~ .Y..Y..... 9/03/19 211040 B003 SORT
(')R. GWY¦ .Y...Y..... 10/02/19 244824 R003 SORT
[]#B003232653~ .Y...Y..... 9/10/19 99358 B003 SORT
B (B)C1100004023~ ..... 9/07/19 BAGCR
B (B)C1100054830~ ...Y..... 8/13/19 BAGOU
B (B)C1100059541~ ...Y..... 9/17/19 BAGOU
B (B)C1100050542~ ...Y..... 8/24/19 BAGOU
B (B)C1100059543~ ...Y..... 9/27/19 BAGOU
More...
F3=Exit F9=Error F11=Customer F12=Postal F23=More Options F24=More Commands

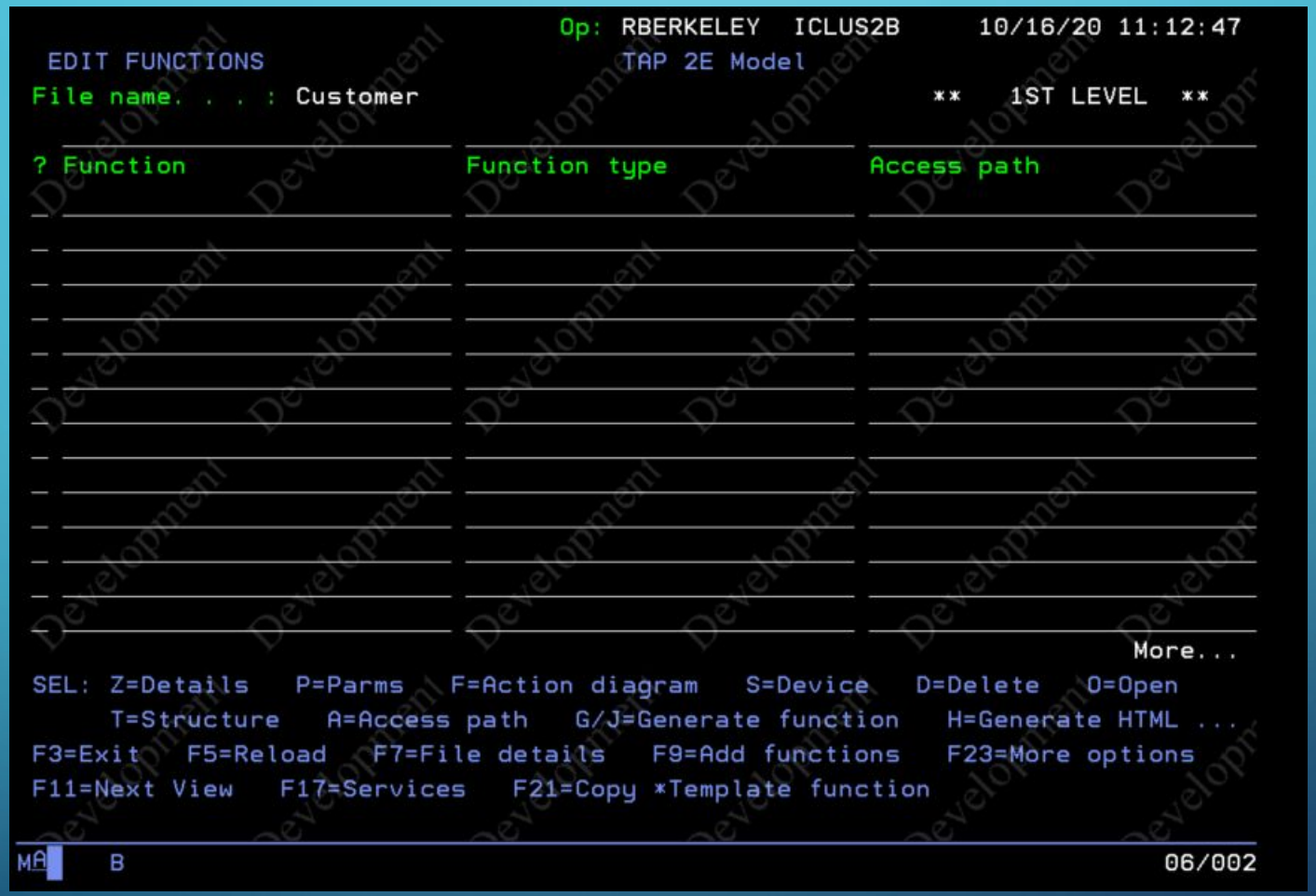

File Edit View Communication Actions Window Help
A - ICSPRD.TF.INC
B - ICSDEV.TF.INC
Host: ICSDEV.TF.INC
Port: 23
Workstation ID: ICLUS2*
Disconnect
Find: Type text to find
T8YIDFR ICS COURIER - A TRANSFORCE COMPANY 10/21/20 15:02:29
T8F7REL1.TTRACEFIL Broker Depots RBERKELEY
PayYear 2020 PayWeek 43 PayWeek 10/09/20 - 10/15/20
** Broker Admin **
Region ONT Ontario
B=Broker P=PayWeek R=Routes E=Reports G=G/L I=Broker F=Fuel Z=Rate Increase
34 43 42 48,051.25
? Dep Description #B #R CostC #X #P #A #U Payout
_ C44 BARRIE, ON 2 2 44200 2 $ 2,514.03
_ C45 NORTH BAY, ON 2 2 45200 2 $ 2,239.31
_ C47 TIMMINS, ON 1 1 45200 1 $ 1,489.12
_ C48 SUDBURY, ON 3 3 45200 3 $ 2,758.15
_ C49 SAULT STE MARIE, ON 1 3 45200 2 $ 1,197.06
_ C50 TORONTO, ON 7 7 50200 7 $ 7,072.89
_ C51 SCARBOROUGH, ON 8 8 51200 8 $ 10,643.68
_ C53 CAMBRIDGE, ON 2 2 53200 2 $ 2,167.08
_ C54 STONEY CREEK, ON 3 3 54200 3 $ 4,027.12
_ C56 LONDON, ON 5 12 56200 12 $ 13,942.81
Bottom
F1=Hlp F3=Exit F9=Add F10=Maint F22=Payweek F14=Fast F23=Options F24=Commands
MA B 07/004
PF1 PF2 PF3 PF4 PF5 PF6 Enter PA1 Attn Insert Backtab NewLine
PF7 PF8 PF9 PF10 PF11 PF12 Clear PA2 SysReq Delete FldExit NextPad
ICSDEV.TF.INC:23

EDTFIL

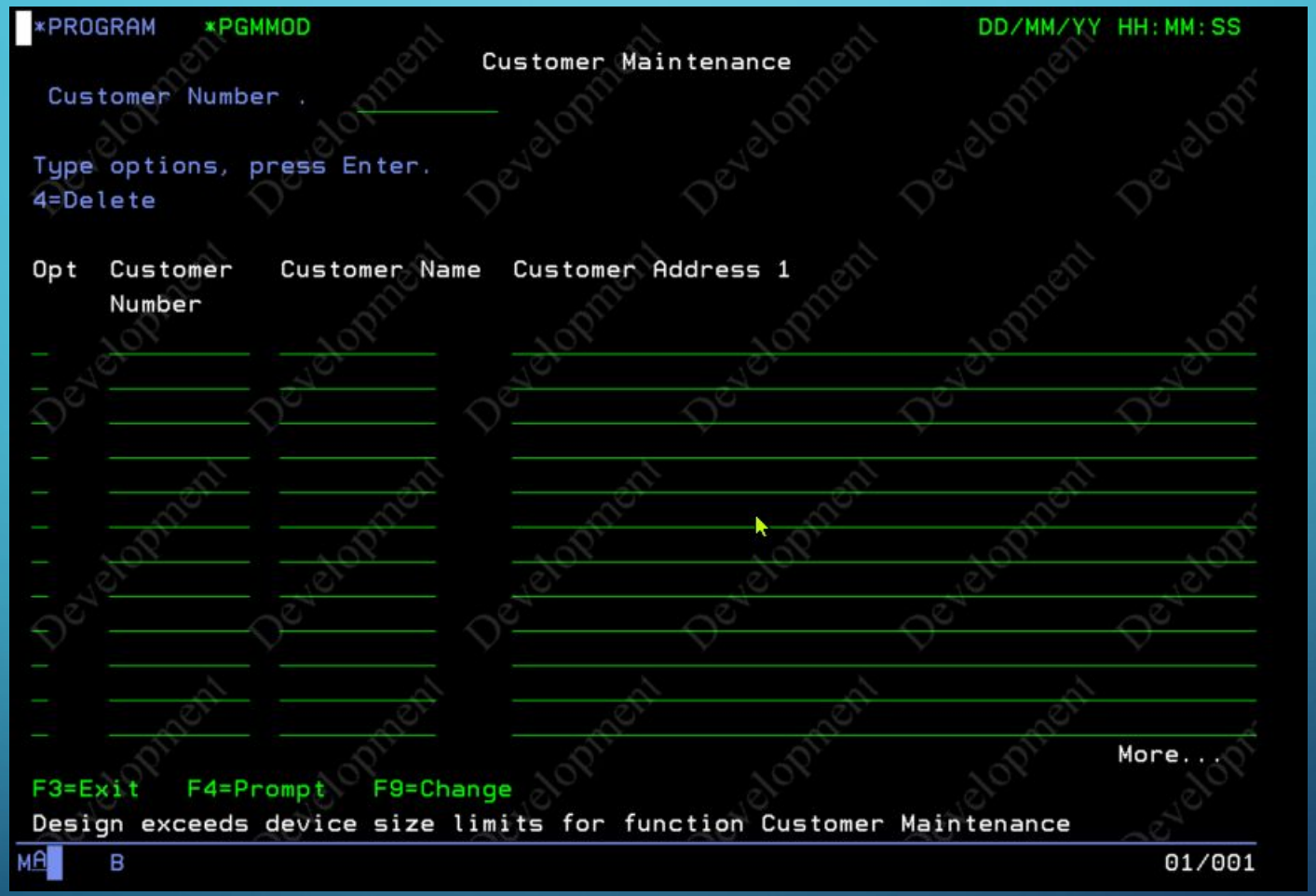
-ADD
-CHANGE
-DELETE

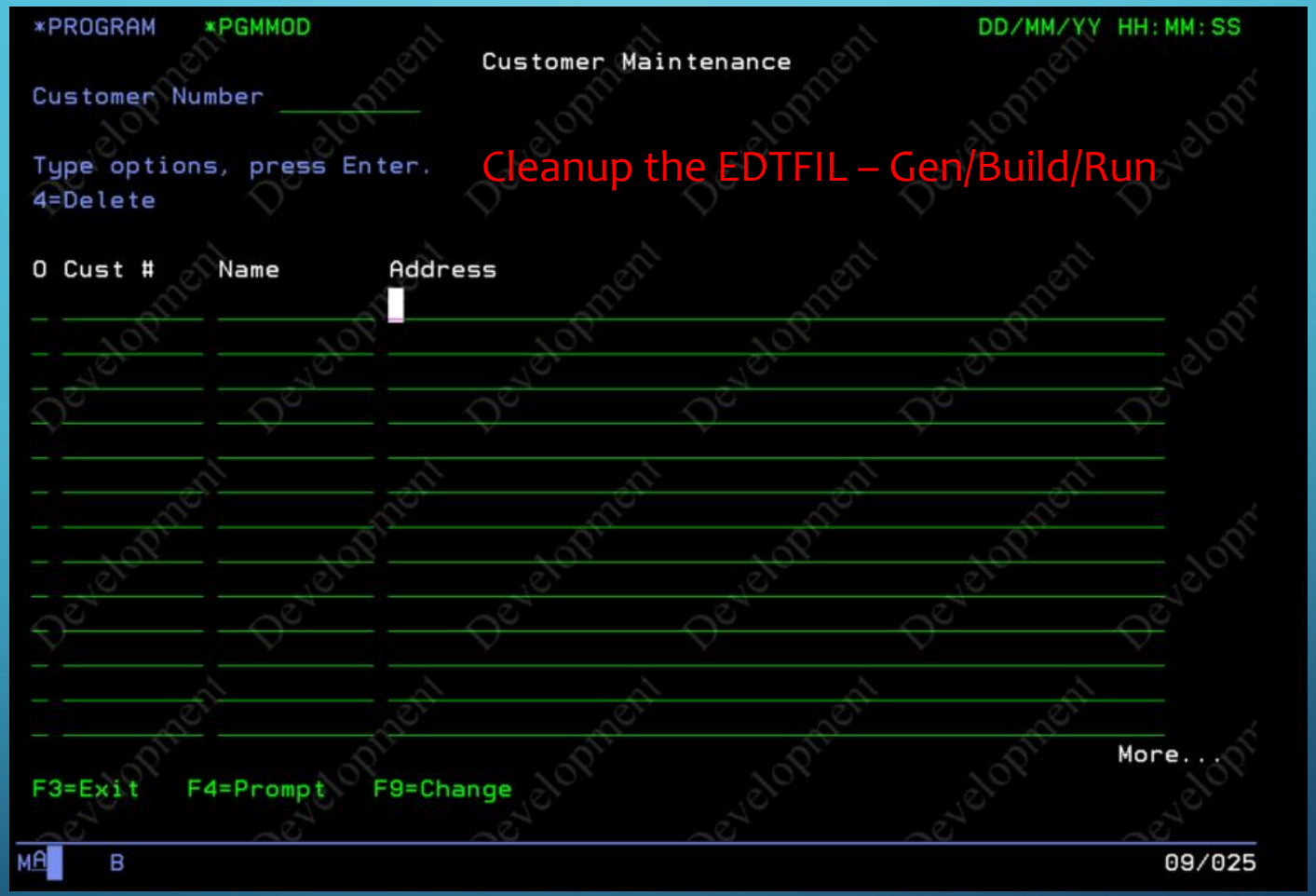


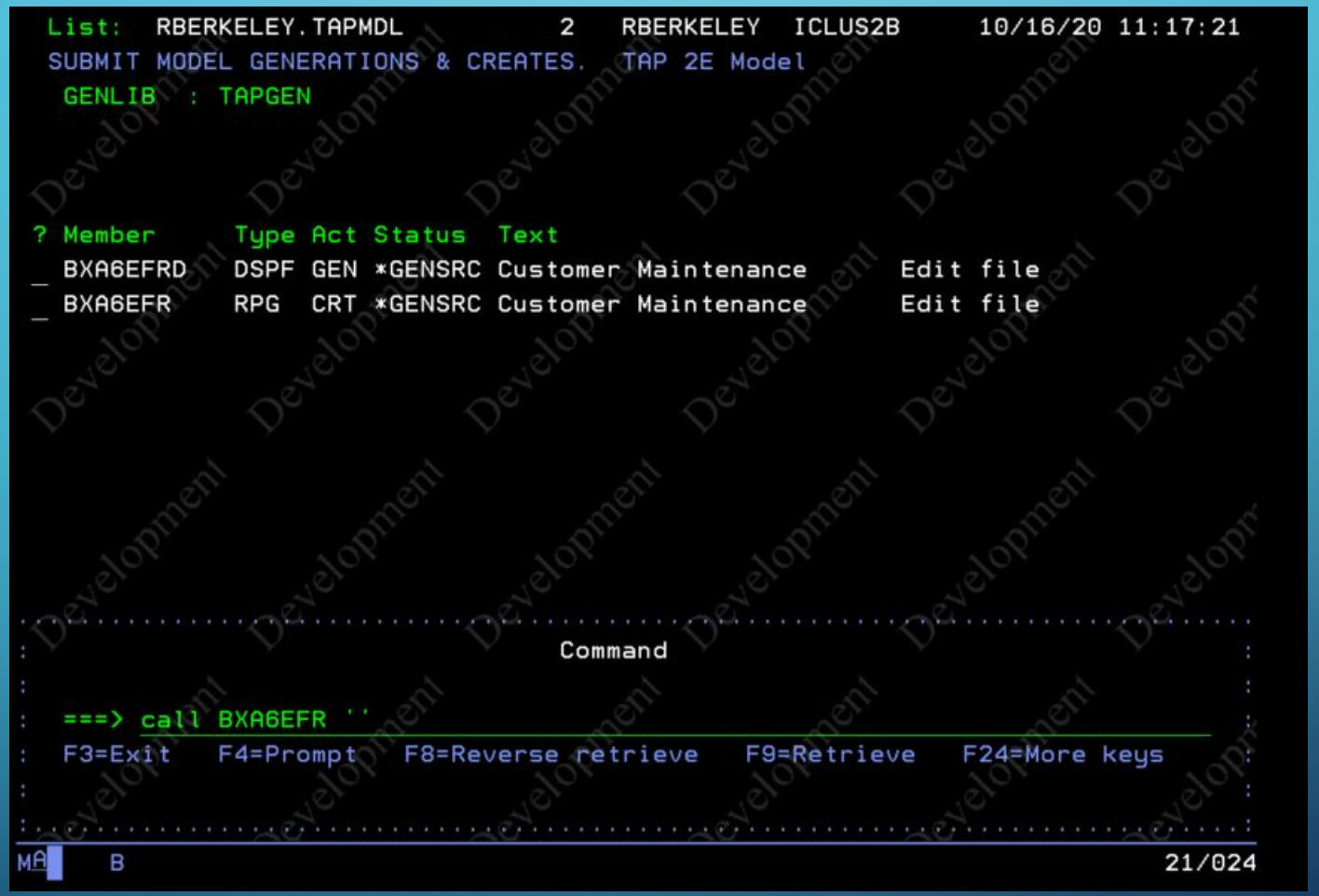
Time: 13:00

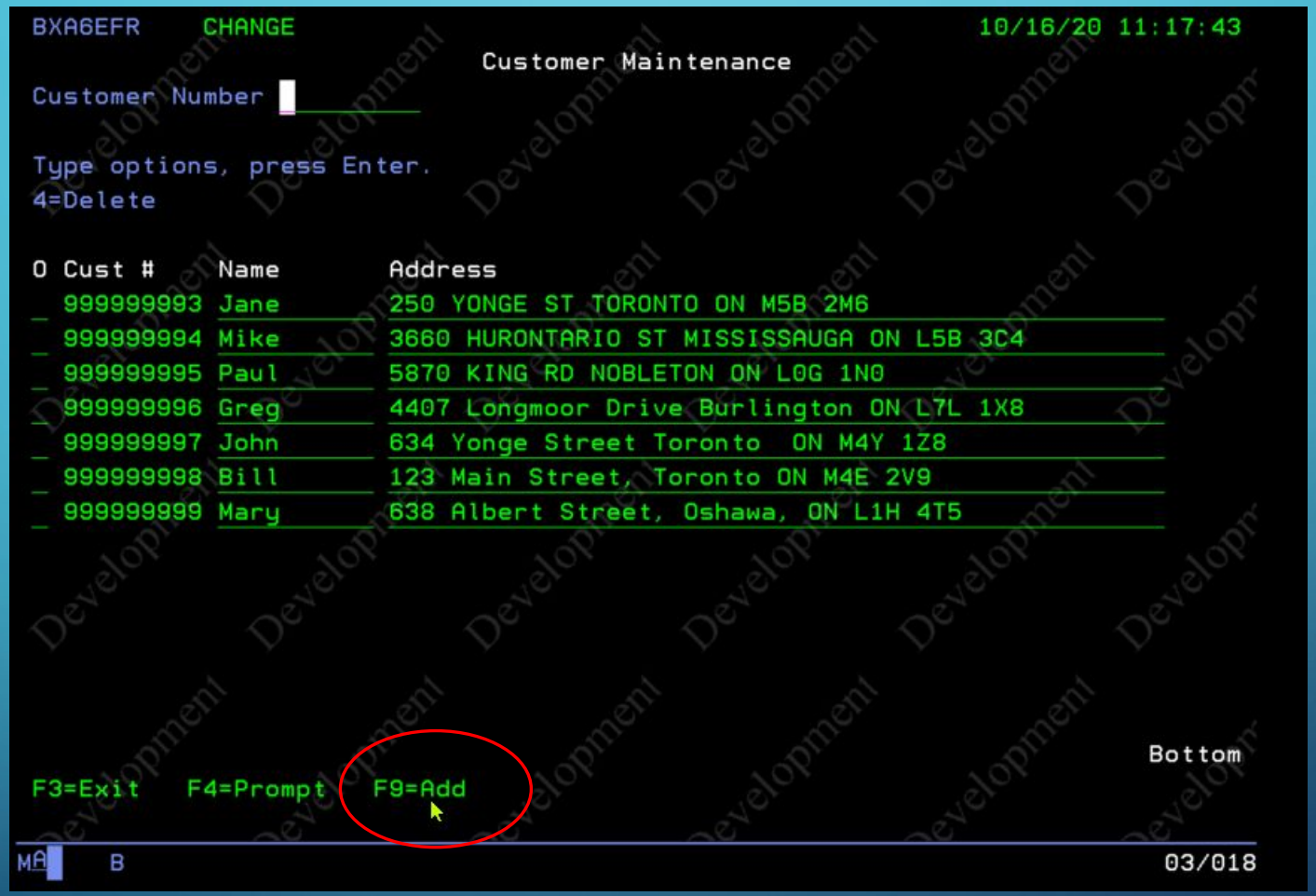

Op: RBERKELEY ICLUS2B 10/16/20 11:12:47
EDIT FUNCTIONS
TAP 2E Model
File name. . . : Customer
** 1ST LEVEL **
? Function
Function type
Access path
More...
SEL: Z=Details P=Parms F=Action diagram S=Device D=Delete O=Open
T=Structure A=Access path G/J=Generate function H=Generate HTML ...
F3=Exit F5=Reload F7=File details F9=Add functions F23=More options
F11=Next View F17=Services F21=Copy *Template function
MA B
06/002

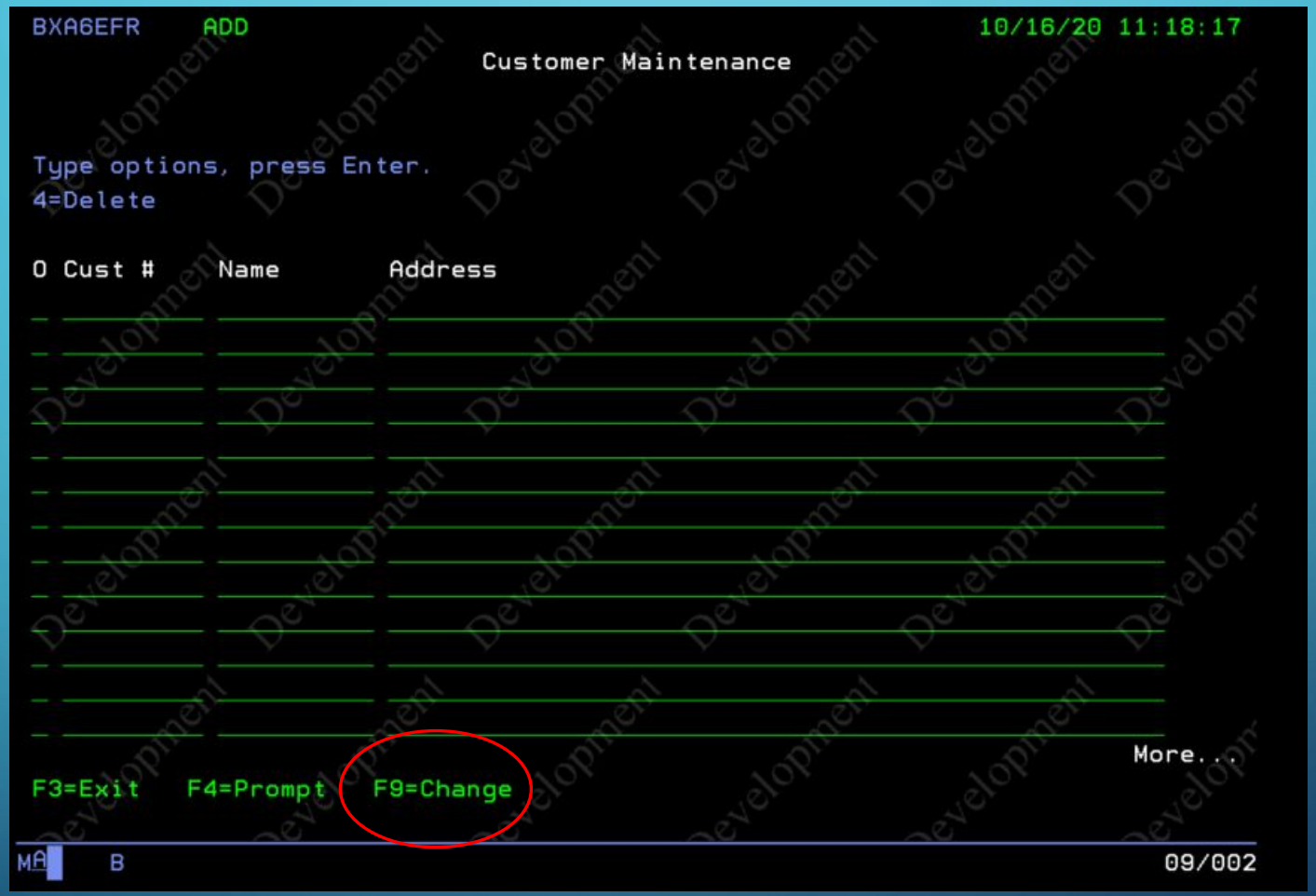

Op: RBERKELEY ICLUS2B 10/16/20 11:15:13
EDIT FUNCTIONS
TAP 2E Model
File name. . . : Customer
** 1ST LEVEL **
? Function
Function type
Access path
Customer Maintenance
Edit file
Retrieval index
More...
SEL: Z=Details P=Parms F=Action diagram S=Device D=Delete O=Open
T=Structure A=Access path G/J=Generate function H=Generate HTML ...
F3=Exit F5=Reload F7=File details F9=Add functions F23=More options
F11=Next View F17=Services F21=Copy *Template function
MA B
06/002


*PROGRAM *PGMMOD
DD/MM/YY HH:MM:SS
Customer Maintenance
Customer Number .
Type options, press Enter.
4=Delete
Opt Customer Number
Customer Name
Customer Address 1
More...
F3=Exit F4=Prompt F9=Change
Design exceeds device size limits for function Customer Maintenance
MA B
01/001

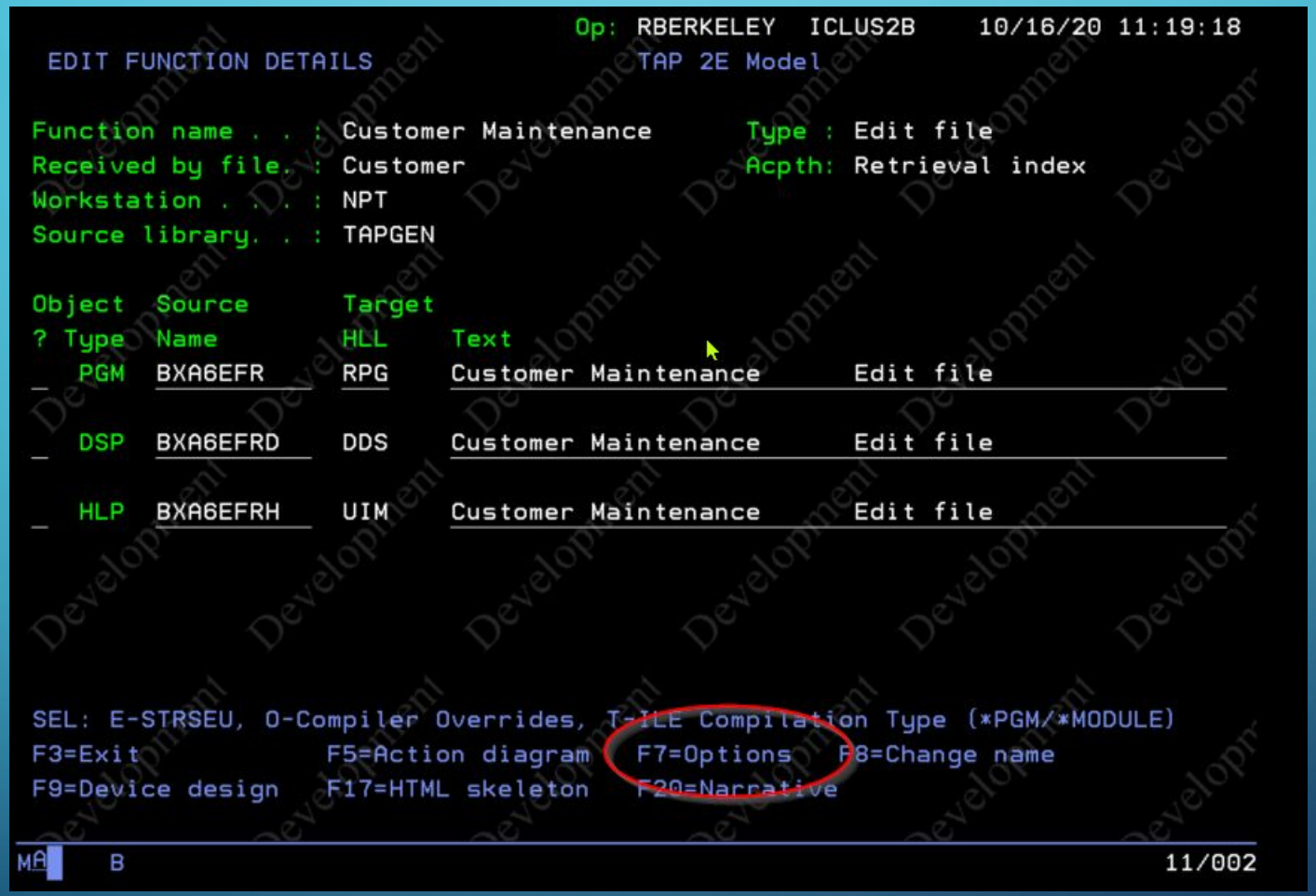

*PROGRAM *PGMMOD
DD/MM/YY HH:MM:SS
Customer Maintenance
Customer Number
Type options, press Enter.
4=Delete
Cleanup the EDTFIL – Gen/Build/Run
O Cust # Name Address
More...
F3=Exit F4=Prompt F9=Change
MA B
09/025


List: RBERKELEY.TAPMDL 2 RBERKELEY ICLUS2B 10/16/20 11:17:21
SUBMIT MODEL GENERATIONS & CREATES. TAP 2E Model
GENLIB : TAPGEN
? Member Type Act Status Text
_ BXA6EFRD DSPF GEN *GENSRC Customer Maintenance Edit file
_ BXA6EFR RPG CRT *GENSRC Customer Maintenance Edit file
Command
===> call BXA6EFR ''
F3=Exit F4=Prompt F8=Reverse retrieve F9=Retrieve F24=More keys
MA B 21/024

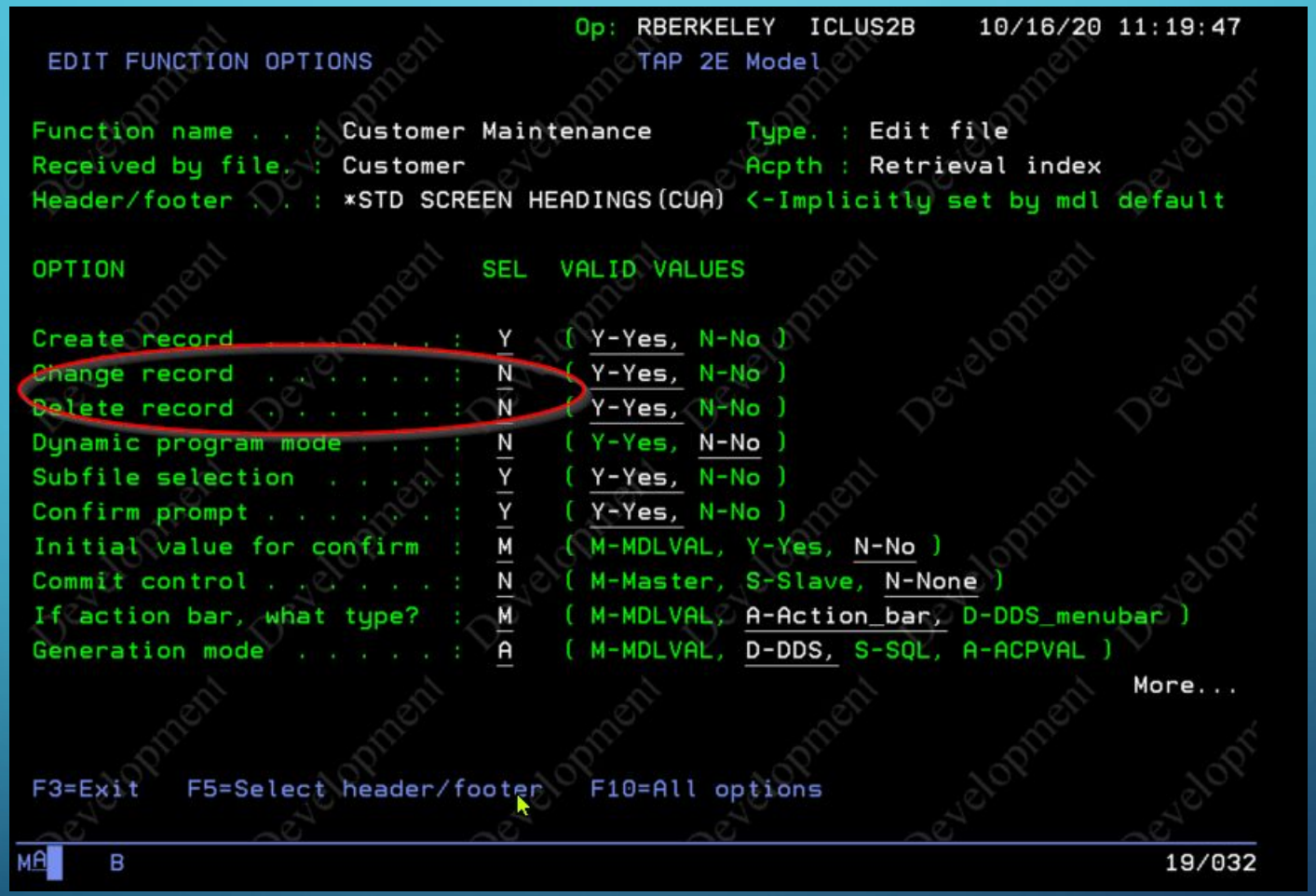

BXA6EFR CHANGE 10/16/20 11:17:43
Customer Maintenance
Customer Number
Type options, press Enter.
4=Delete
O Cust # Name Address
999999993 Jane 250 YONGE ST TORONTO ON M5B 2M6
999999994 Mike 3660 HURONTARIO ST MISSISSAUGA ON L5B 3C4
999999995 Paul 5870 KING RD NOBLETON ON L0G 1N0
999999996 Greg 4407 Longmoor Drive Burlington ON L7L 1X8
999999997 John 634 Yonge Street Toronto ON M4Y 1Z8
999999998 Bill 123 Main Street, Toronto ON M4E 2V9
999999999 Mary 638 Albert Street, Oshawa, ON L1H 4T5
Bottom
F3=Exit F4=Prompt F9=Add
MA B 03/018


BXA6EFR ADD
10/16/20 11:18:17
Customer Maintenance
Type options, press Enter.
4=Delete
O Cust # Name Address
More...
F3=Exit F4=Prompt F9=Change
MA B
09/002

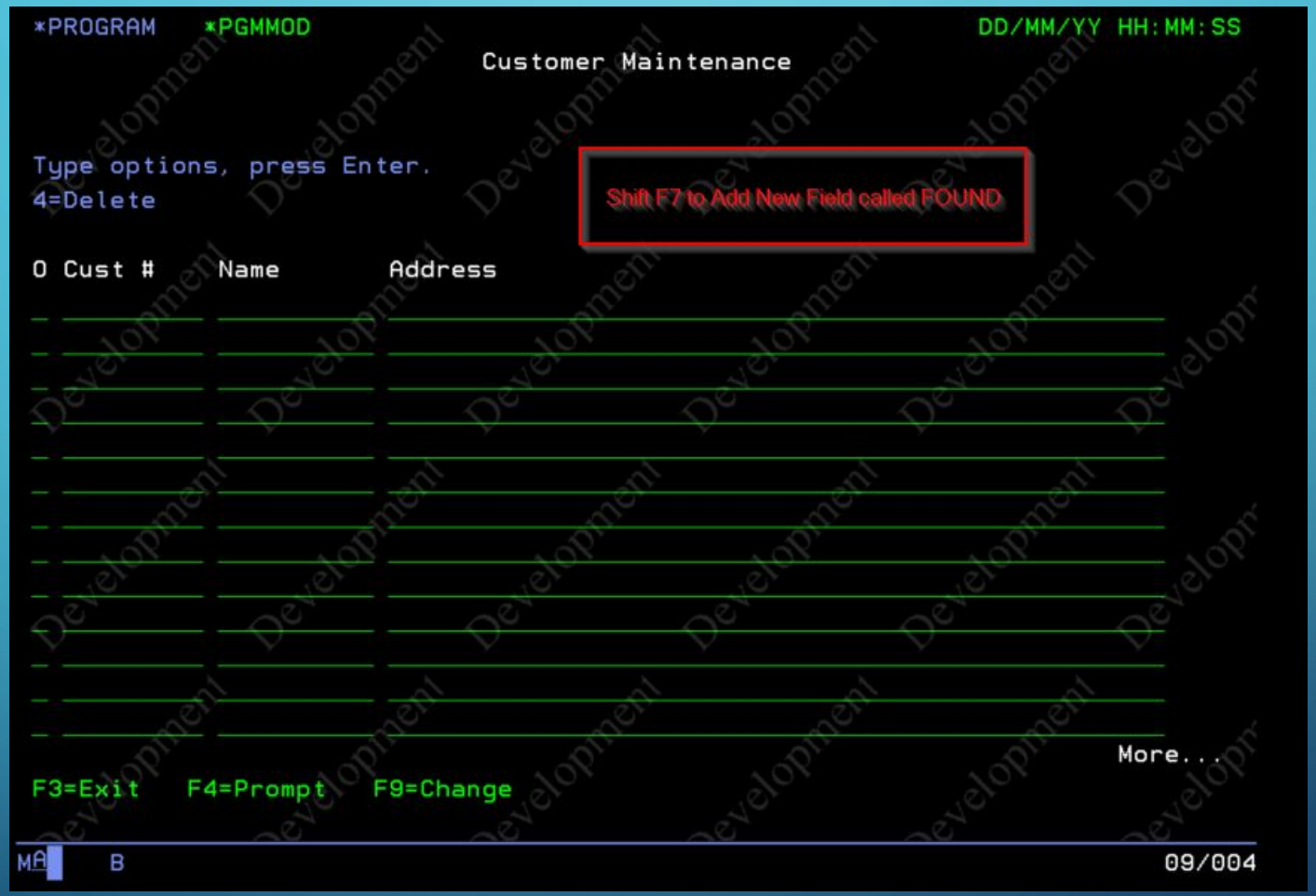

Op: RBERKELEY ICLUS2B 10/16/20 11:18:36
EDIT FUNCTIONS
TAP 2E Model
File name. . . : Customer
** 1ST LEVEL **
? Function
Function type
Access path
Z Customer Maintenance
Edit file
Retrieval index
More...
SEL: Z=Details P=Parms F=Action diagram S=Device D=Delete O=Open
T=Structure A=Access path G/J=Generate function H=Generate HTML ...
F3=Exit F5=Reload F7=File details F9=Add functions F23=More options
F11=Next View F17=Services F21=Copy *Template function
MA B
07/002


Op: RBERKELEY ICLUS2B 10/16/20 11:19:18
EDIT FUNCTION DETAILS
TAP 2E Model
Function name . . : Customer Maintenance
Type : Edit file
Received by file. : Customer
Acpth: Retrieval index
Workstation . . . : NPT
Source library. . : TAPGEN
Object Source Target
? Type Name HLL Text
_ PGM BXA6EFR RPG Customer Maintenance Edit file
_ DSP BXA6EFRD DDS Customer Maintenance Edit file
_ HLP BXA6EFRH UIM Customer Maintenance Edit file
SEL: E-STRSEU, O-Compiler Overrides, T-ILE Compilation Type (*PGM/*MODULE)
F3=Exit F5=Action diagram F7=Options F8=Change name
F9=Device design F17=HTML skeleton F20=Narrative
MA B 11/002

Set Change/Delete Record to N



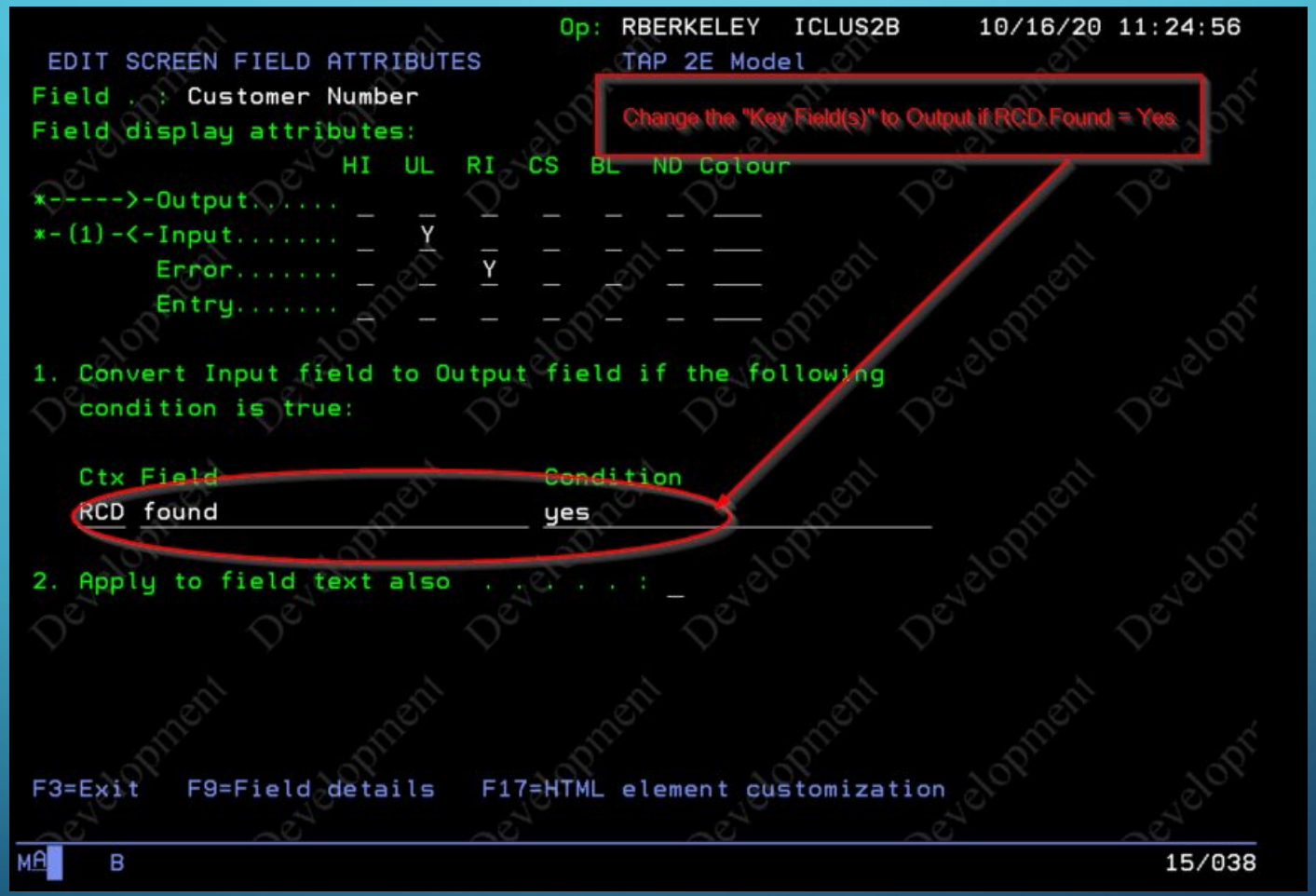

Op: RBERKELEY ICLUS2B 10/16/20 11:20:16
EDIT FUNCTIONS
TAP 2E Model
File name. . . : Customer
** 1ST LEVEL **
? Function
Function type
Access path
S Customer Maintenance
Edit file
Retrieval index
More...
SEL: Z=Details P=Parms F=Action diagram S=Device D=Delete O=Open
T=Structure A=Access path G/J=Generate function H=Generate HTML ...
F3=Exit F5=Reload F7=File details F9=Add functions F23=More options
F11=Next View F17=Services F21=Copy *Template function
MA B
07/002

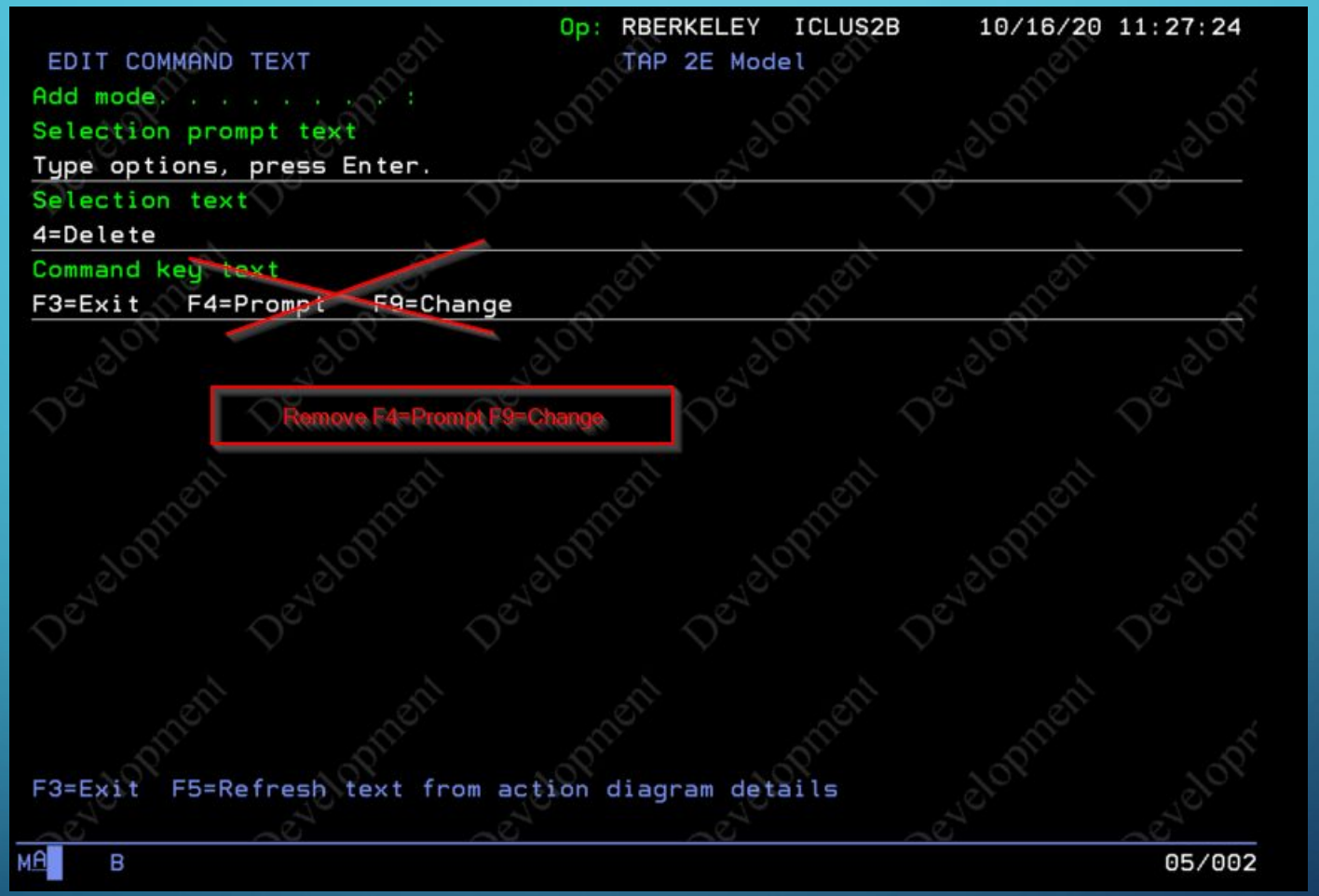

*PROGRAM *PGMMOD
DD/MM/YY HH:MM:SS
Customer Maintenance
Type options, press Enter.
4=Delete
Shift F7 to Add New Field called FOUND
O Cust # Name Address
More...
F3=Exit F4=Prompt F9=Change
MA B
09/004

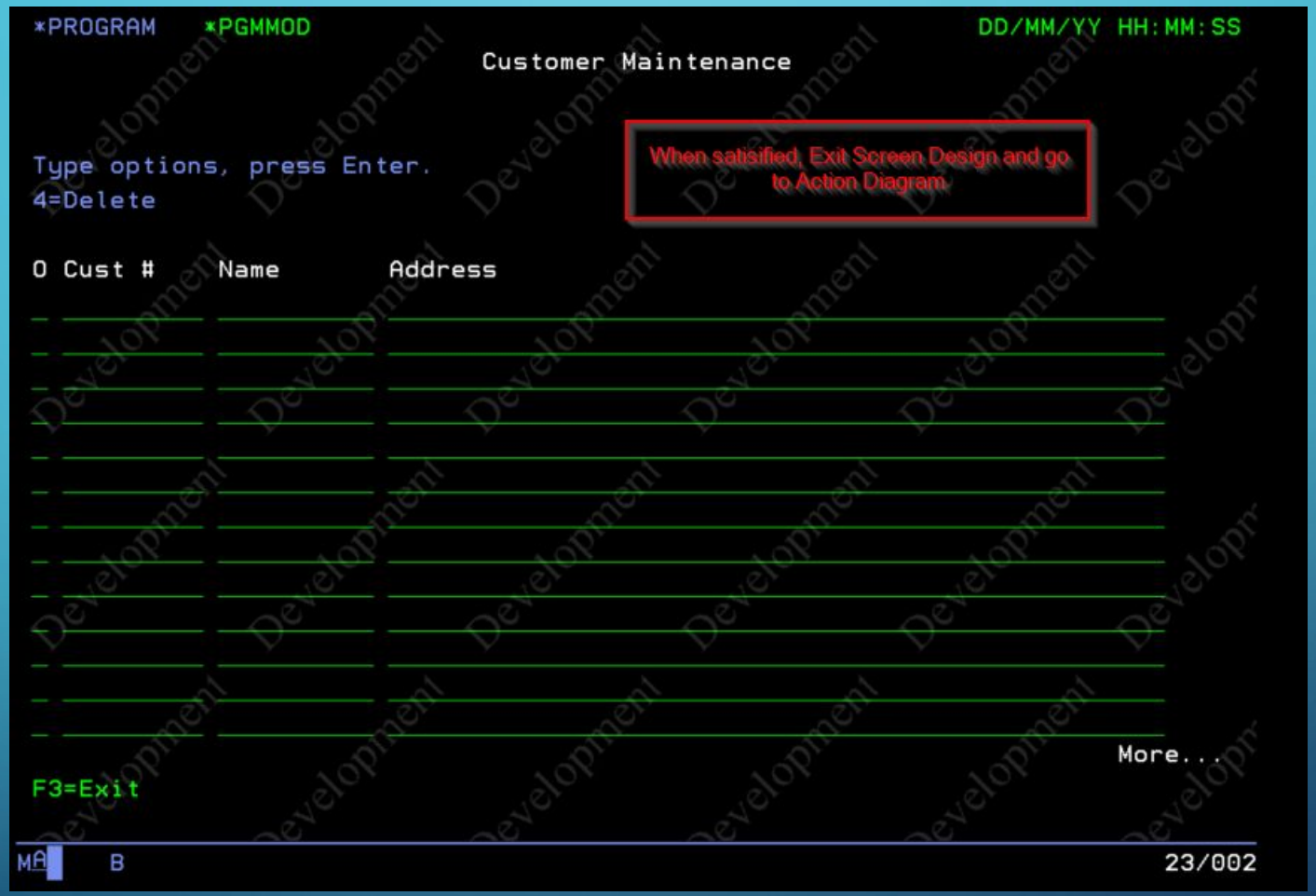

*ADD
Op: RBERKELEY ICLUS2B 10/16/20 11:22:51
EDIT DEVICE FUNCTION FIELD
TAP 2E Model
Format. . . . . : Subfile record.
Field name . . . . : FOUND
('?' to select)
F3=Exit F5=Parameters
MA B
06/028

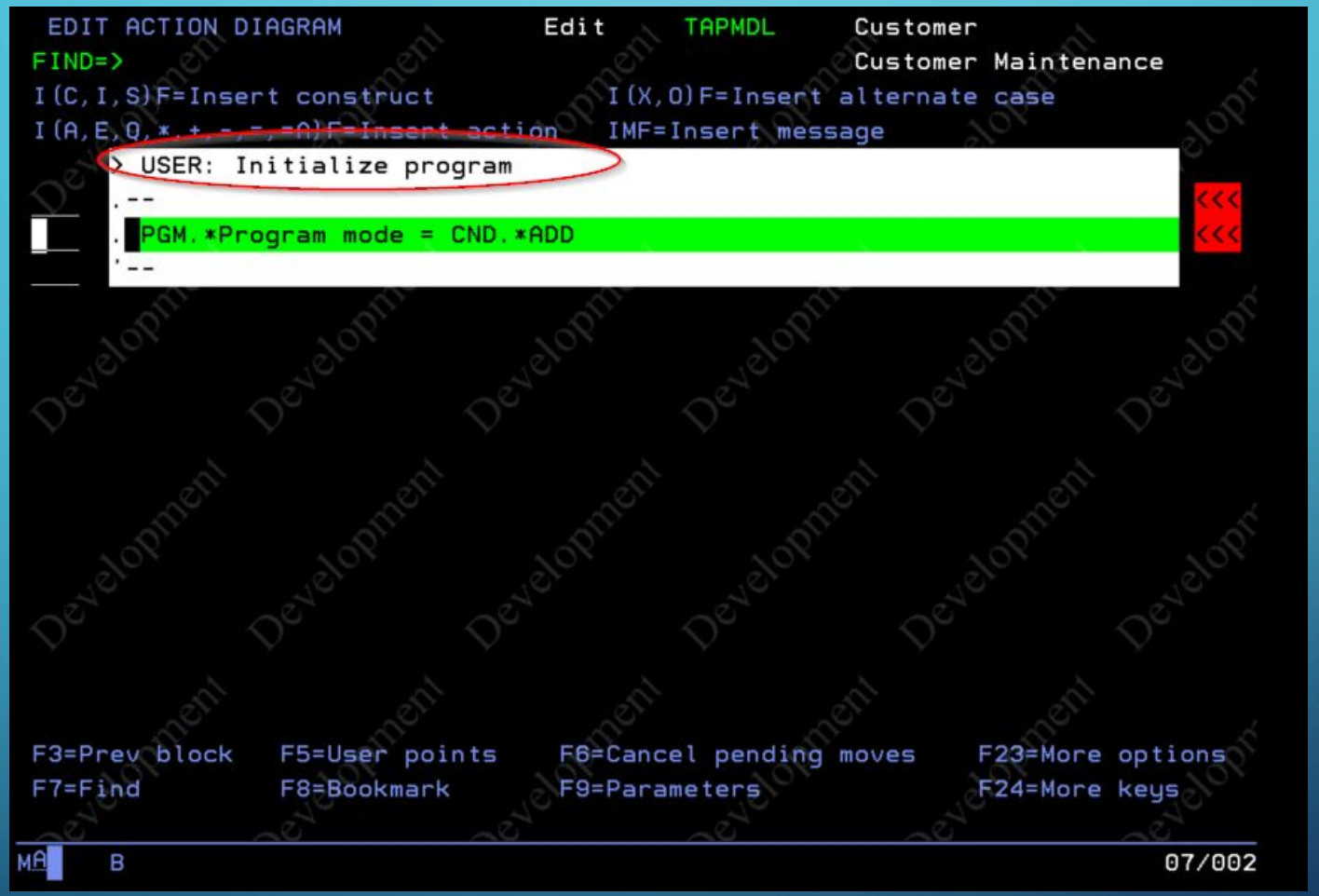

Op: RBERKELEY ICLUS2B 10/16/20 11:23:39
EDIT SCREEN ENTRY DETAILS
TAP 2E Model
Field name . . . . . : Found
Display length . . : 1
GEN name . . . . . : AICD
Hide the FOUND field
Label location . . . : C (Above,Before,Column,blank)
Label spacing. : __
Lines before . . . . : __
Spaces before. . . . : 2
Screen text. . . . : F (M, L, F)
Column Headings. . . : Found
Left hand side text. : Found
Right hand side text : Code
Display RHS text . . : _
RHS spaces . . . . : ___
Fill LHS text. . . . : Y
I/O Usage. . . . . : H
Check condition . : *NONE
Allow blank. . . . . : _
Check numeric. . : _
Field exit option. . : Y
F3=Exit, no update
F7=Relations
F24=More keys
MA B
07/027

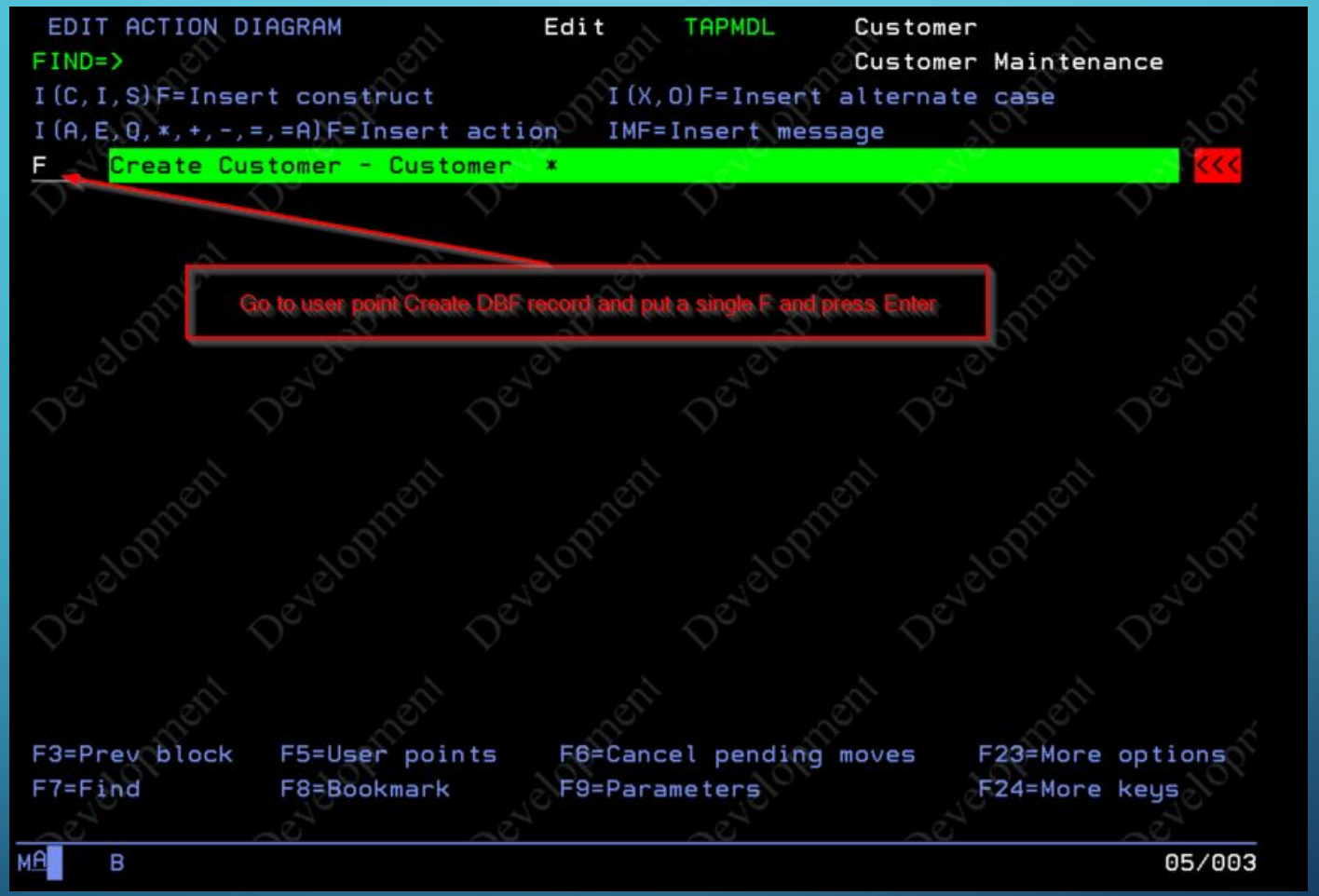

Op: RBERKELEY ICLUS2B 10/16/20 11:24:37
EDIT SCREEN ENTRY DETAILS
TAP 2E Model
On the Key field (eg. Customer Number) Press Shift F6
Field name . . . . . : Customer Number
Display length . . . : 9
GEN name . . . . . : AENB
Label location . . . : C (Above,Before,Column,blank)
Label spacing. : __
Lines before . . . . : ___
Spaces before. . . . : ___
Screen text. . . . : F (M, L, F)
Column Headings. . . : Cust #
Left hand side text. : Customer Number
Right hand side text : Number
Display RHS text . . : _
RHS spaces . . . . : 1
Fill LHS text. . . . : Y
I/O Usage. . . . . : I
Edit codes Output. . : 3
Input: 4
Mask input edit code : N
Check condition . . : *NONE
Allow zero . . . . . :
Field exit option. . : Z
F3=Exit, no update
F7=Relations
F24=More keys
MA B
07/027

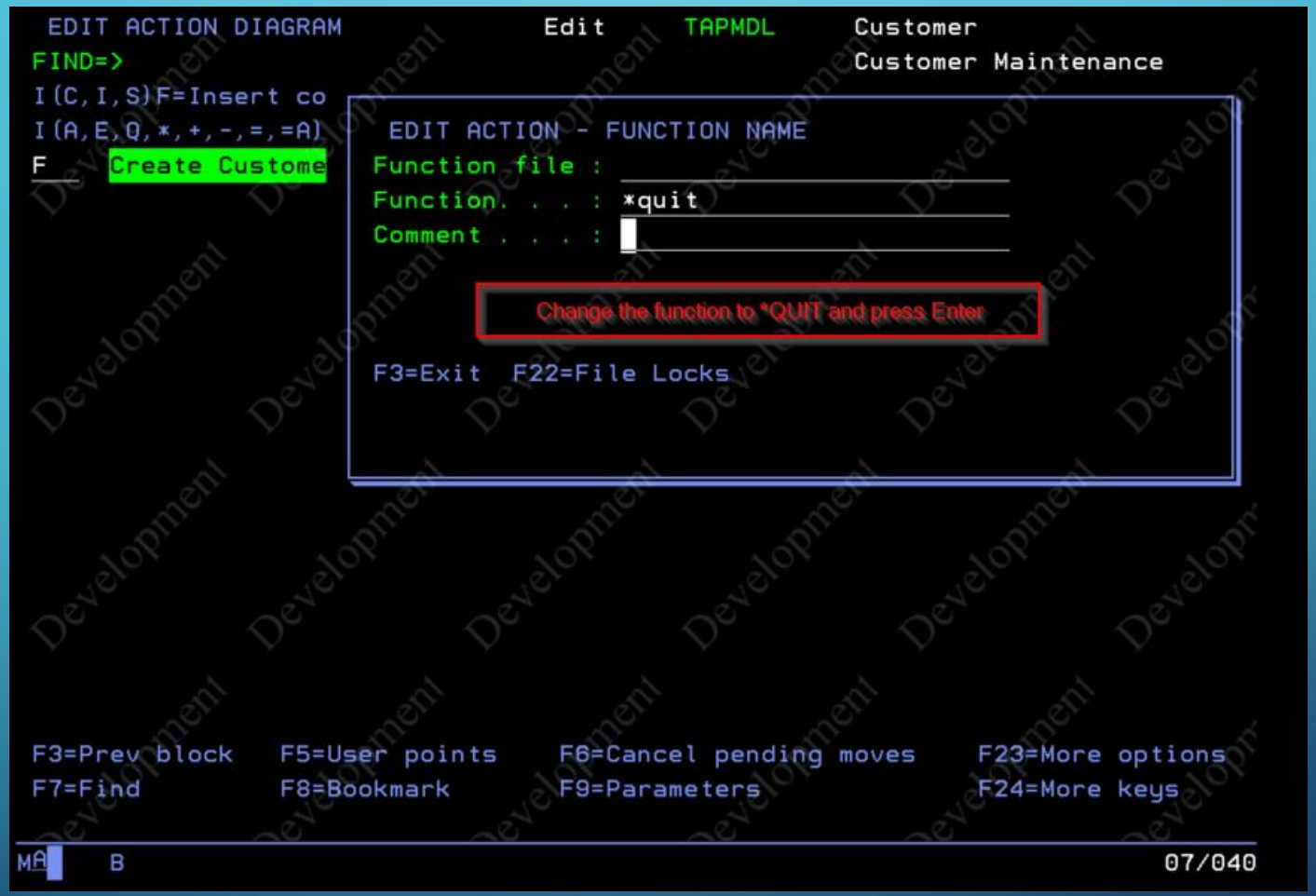

Op: RBERKELEY ICLUS2B 10/16/20 11:24:56
EDIT SCREEN FIELD ATTRIBUTES
TAP 2E Model
Field . : Customer Number
Change the "Key Field(s)" to Output if RCD Found = Yes
Field display attributes:
HI UL RI CS BL ND Colour
*----->-Output..... _ _ _ _ _ _ ___
*-(1)-<-Input..... _ Y _ _ _ _ ___
Error..... _ _ Y _ _ _ ___
Entry..... _ _ _ _ _ _ ___
1. Convert Input field to Output field if the following
condition is true:
Ctx Field Condition
RCD found yes
2. Apply to field text also . . . . . : _
F3=Exit F9=Field details F17=HTML element customization
MA B 15/038

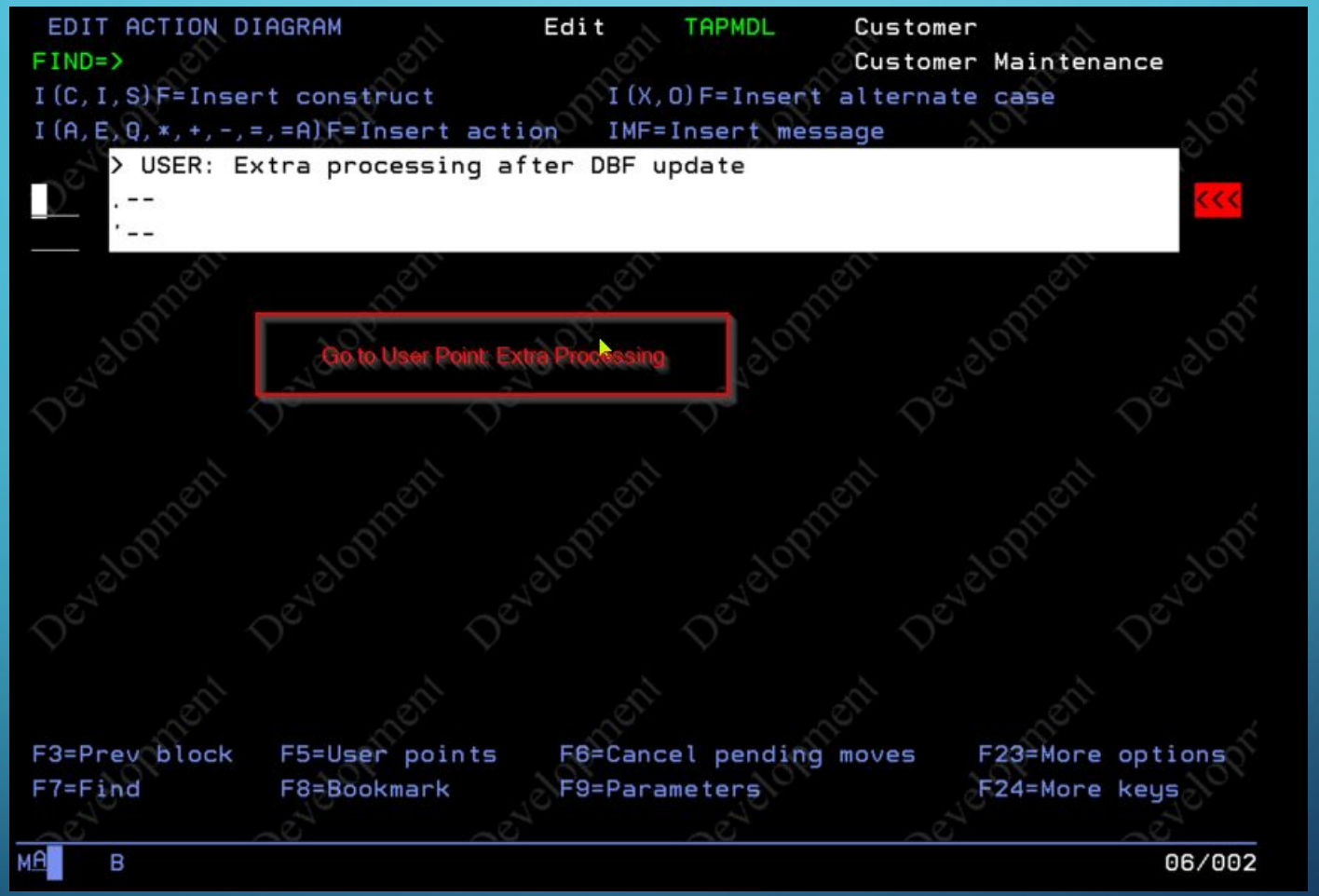

Op: RBERKELEY ICLUS2B 10/16/20 11:27:24
EDIT COMMAND TEXT
TAP 2E Model
Add mode . . . . . :
Selection prompt text
Type options, press Enter.
Selection text
4=Delete
Command key text
F3=Exit F4=Prompt F9=Change
Remove F4=Prompt F9=Change
F3=Exit F5=Refresh text from action diagram details
MA B
05/002

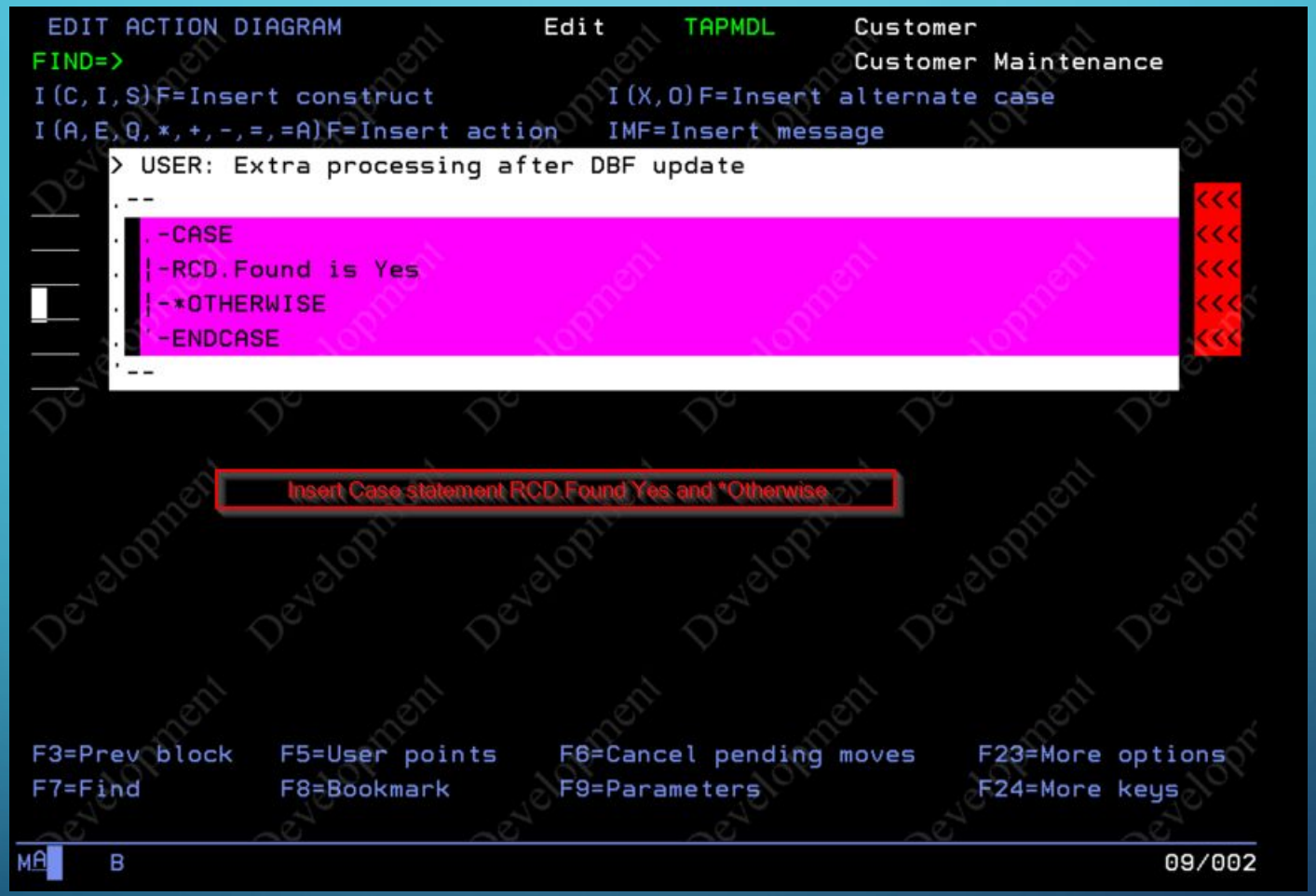

*PROGRAM *PGMMOD
DD/MM/YY HH:MM:SS
Customer Maintenance
When satisified, Exit Screen Design and go to Action Diagram
Type options, press Enter.
4=Delete
O Cust # Name Address
More...
F3=Exit
MA B
23/002

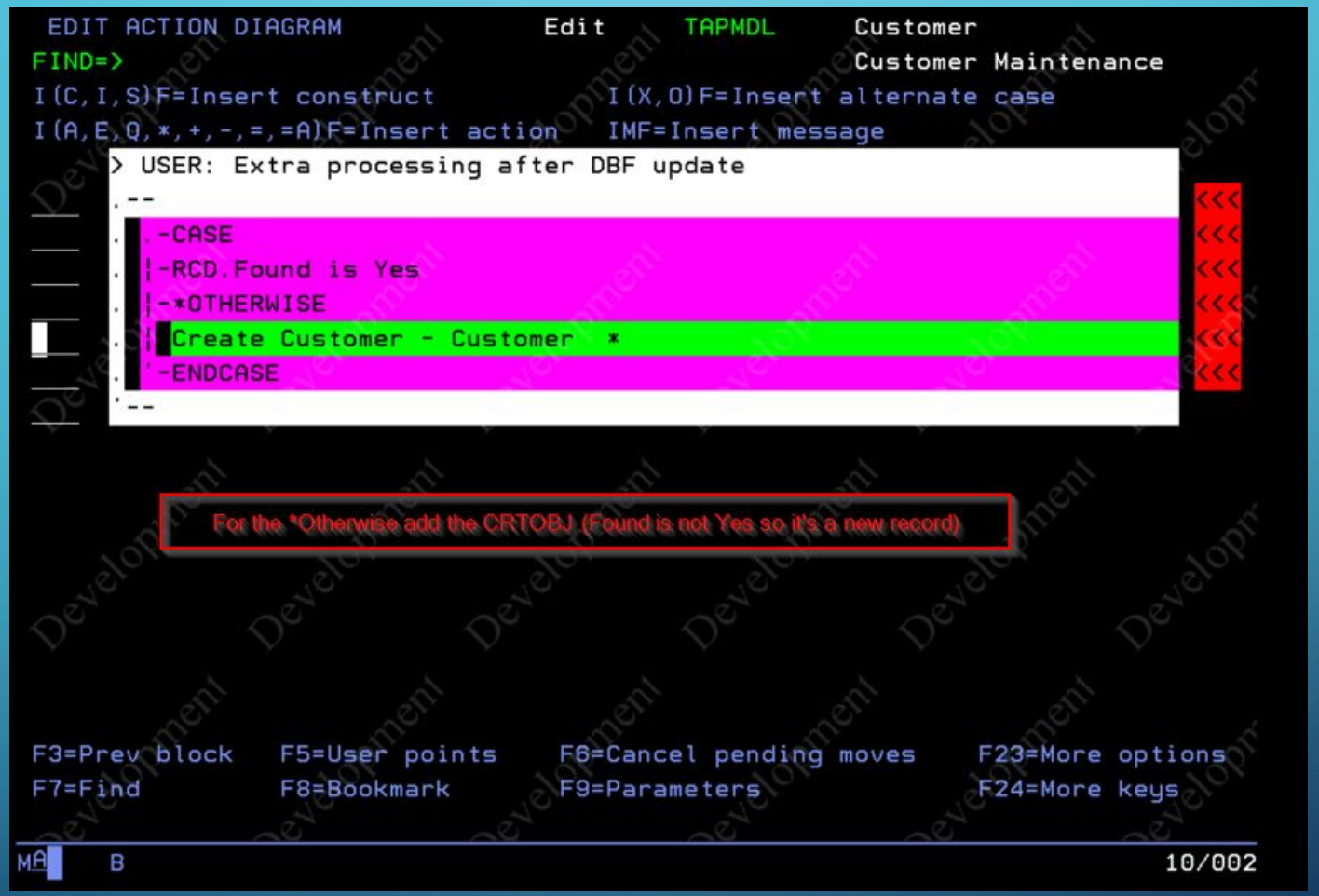

EDIT ACTION DIAGRAM
Edit
TAPMDL
Customer
Customer Maintenance
FIND=>
I(C,I,S)F=Insert construct
I(X,O)F=Insert alternate case
I(A,E,Q,*,+,-,=,=A)F=Insert action
IMF=Insert message
> USER: Initialize program
.--
.PGM.*Program mode = CND.*ADD
'--
<<<
<<<
F3=Prev block
F5=User points
F6=Cancel pending moves
F23=More options
F7=Find
F8=Bookmark
F9=Parameters
F24=More keys
MA
B
07/002

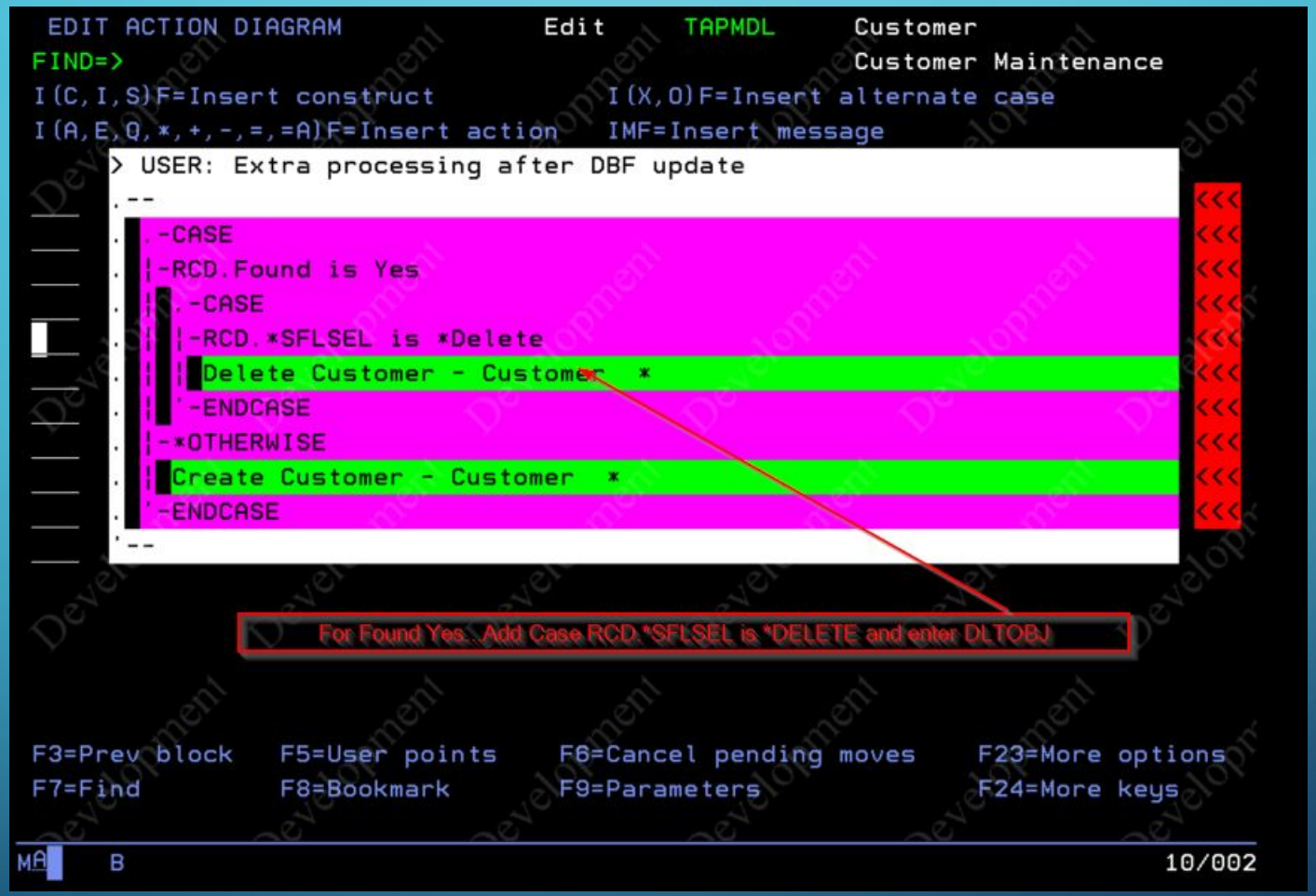

EDIT ACTION DIAGRAM
Edit
TAPMDL
Customer
FIND=>
Customer Maintenance
I(C,I,S)F=Insert construct
I(X,O)F=Insert alternate case
I(A,E,Q,*,+,-,=,=A)F=Insert action
IMF=Insert message
F
Create Customer - Customer *
<<<
Go to user point Create DBF record and put a single F and press Enter
F3=Prev block
F5=User points
F6=Cancel pending moves
F23=More options
F7=Find
F8=Bookmark
F9=Parameters
F24=More keys
MA
B
05/003

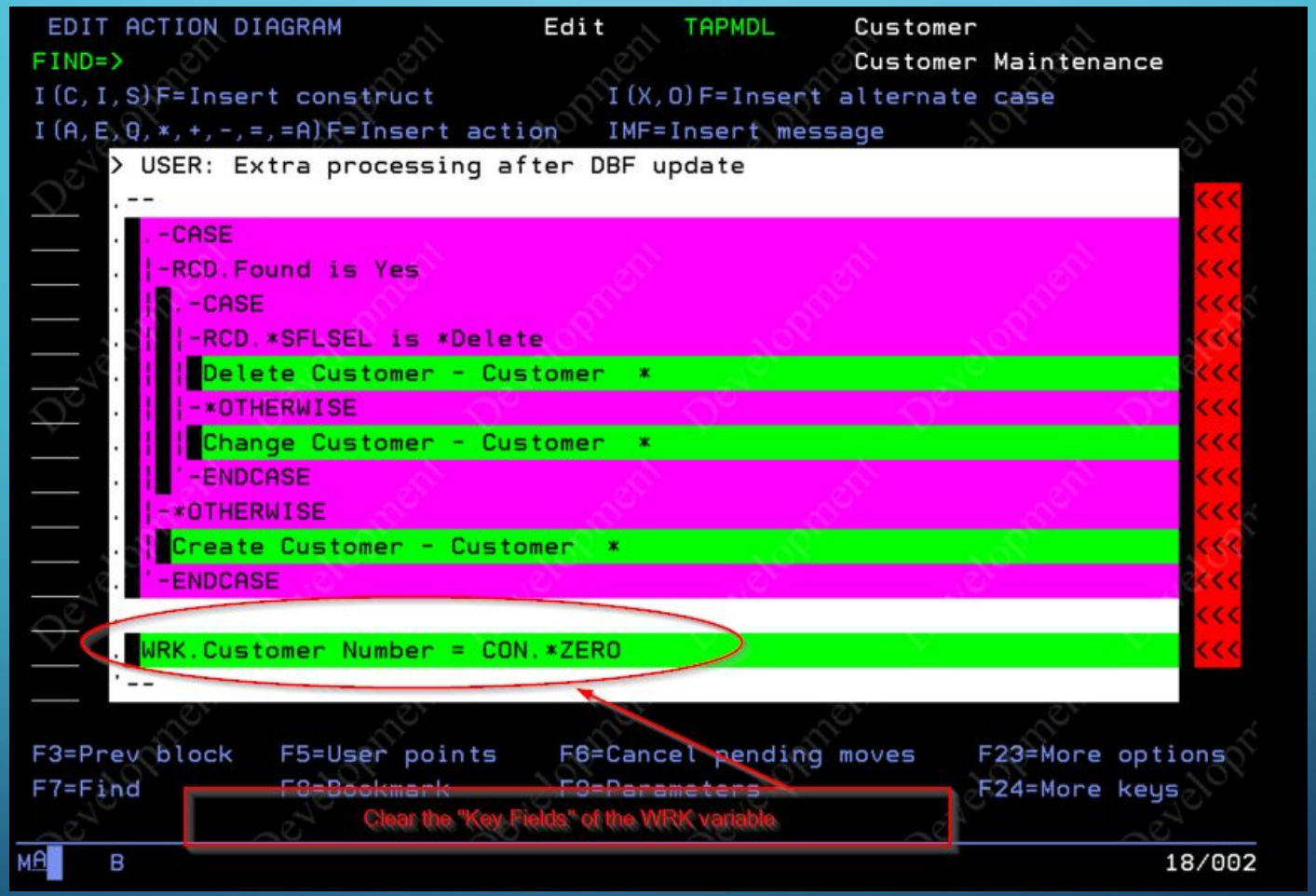

EDIT ACTION DIAGRAM
Edit
TAPMDL
Customer
Customer Maintenance
FIND=>
I(C,I,S)F=Insert co
I(A,E,Q,*,+,-,=,=A)
F
Create Custome
EDIT ACTION - FUNCTION NAME
Function file :
Function. . . :
*quit
Comment . . . :
Change the function to *QUIT and press Enter
F3=Exit
F22=File Locks
F3=Prev block
F5=User points
F6=Cancel pending moves
F23=More options
F7=Find
F8=Bookmark
F9=Parameters
F24=More keys
MA
B
07/040

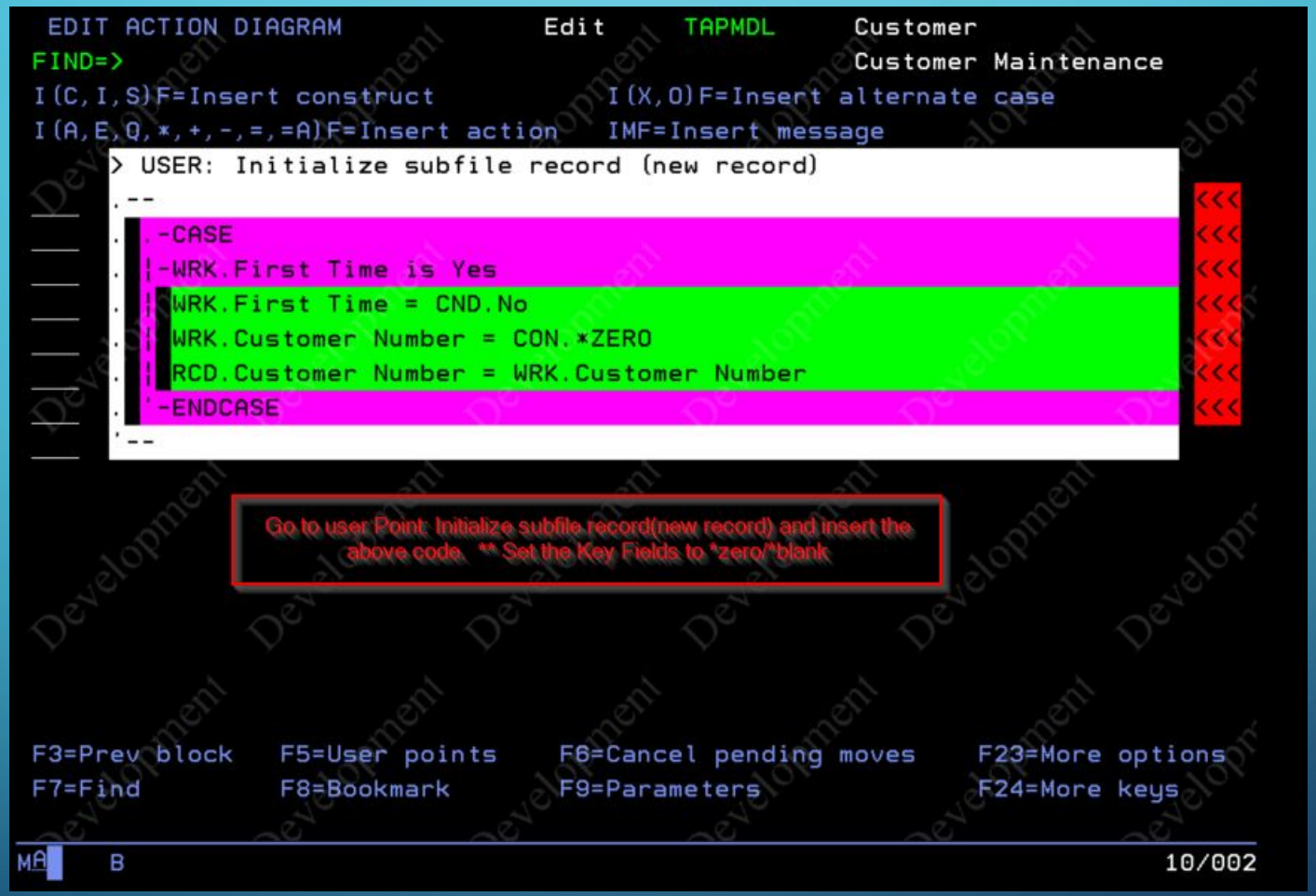

EDIT ACTION DIAGRAM
Edit
TAPMDL
Customer
Customer Maintenance
FIND=>
I(C,I,S)F=Insert construct
I(X,O)F=Insert alternate case
I(A,E,Q,*,+,-,=,=A)F=Insert action
IMF=Insert message
> USER: Extra processing after DBF update
.--
'--
<<<
Go to User Point: Extra Processing
F3=Prev block
F5=User points
F6=Cancel pending moves
F23=More options
F7=Find
F8=Bookmark
F9=Parameters
F24=More keys
MA
B
06/002

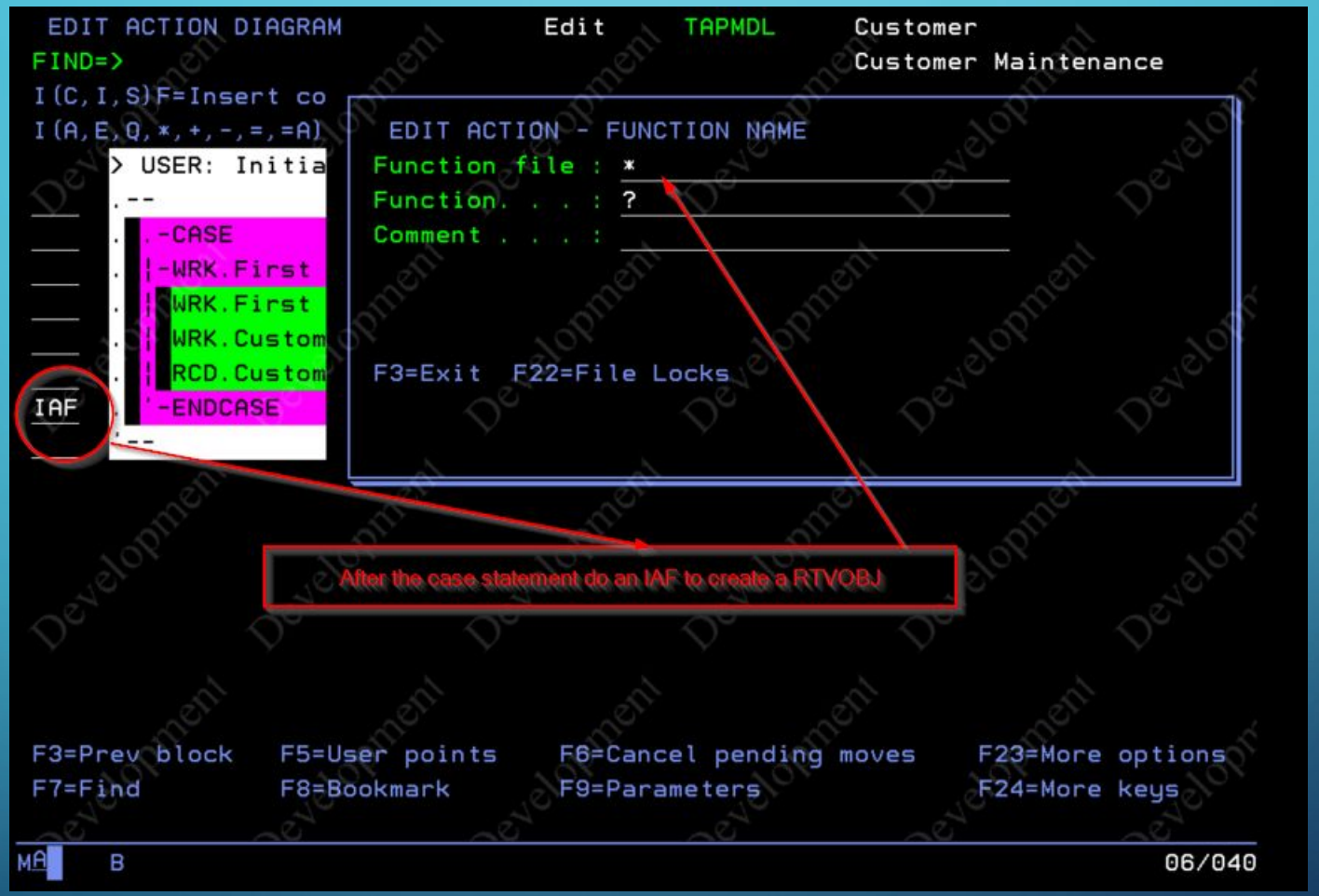

EDIT ACTION DIAGRAM
Edit
TAPMDL
Customer
FIND=>
Customer Maintenance
I(C,I,S)F=Insert construct
I(X,O)F=Insert alternate case
I(A,E,Q,*,+,-,=,=A)F=Insert action
IMF=Insert message
> USER: Extra processing after DBF update
.--
.-CASE
.|-RCD.Found is Yes
.|-*OTHERWISE
.'-ENDCASE
'--
<<<
<<<
<<<
<<<
<<<
Insert Case statement RCD.Found Yes and *Otherwise
F3=Prev block
F5=User points
F6=Cancel pending moves
F23=More options
F7=Find
F8=Bookmark
F9=Parameters
F24=More keys
MA
B
09/002


EDIT ACTION DIAGRAM
Edit
TAPMDL
Customer
FIND=>
Customer Maintenance
I(C,I,S)F=Insert construct
I(X,O)F=Insert alternate case
I(A,E,Q,*,+,-,=,=A)F=Insert action
IMF=Insert message
> USER: Extra processing after DBF update
.--
.-CASE
.|-RCD.Found is Yes
.|-*OTHERWISE
.|Create Customer - Customer *
.'-ENDCASE
'--
<<<
<<<
<<<
<<<
<<<
<<<
For the *Otherwise add the CRTOBJ (Found is not Yes so it's a new record)
F3=Prev block
F5=User points
F6=Cancel pending moves
F23=More options
F7=Find
F8=Bookmark
F9=Parameters
F24=More keys
MA
B
10/002

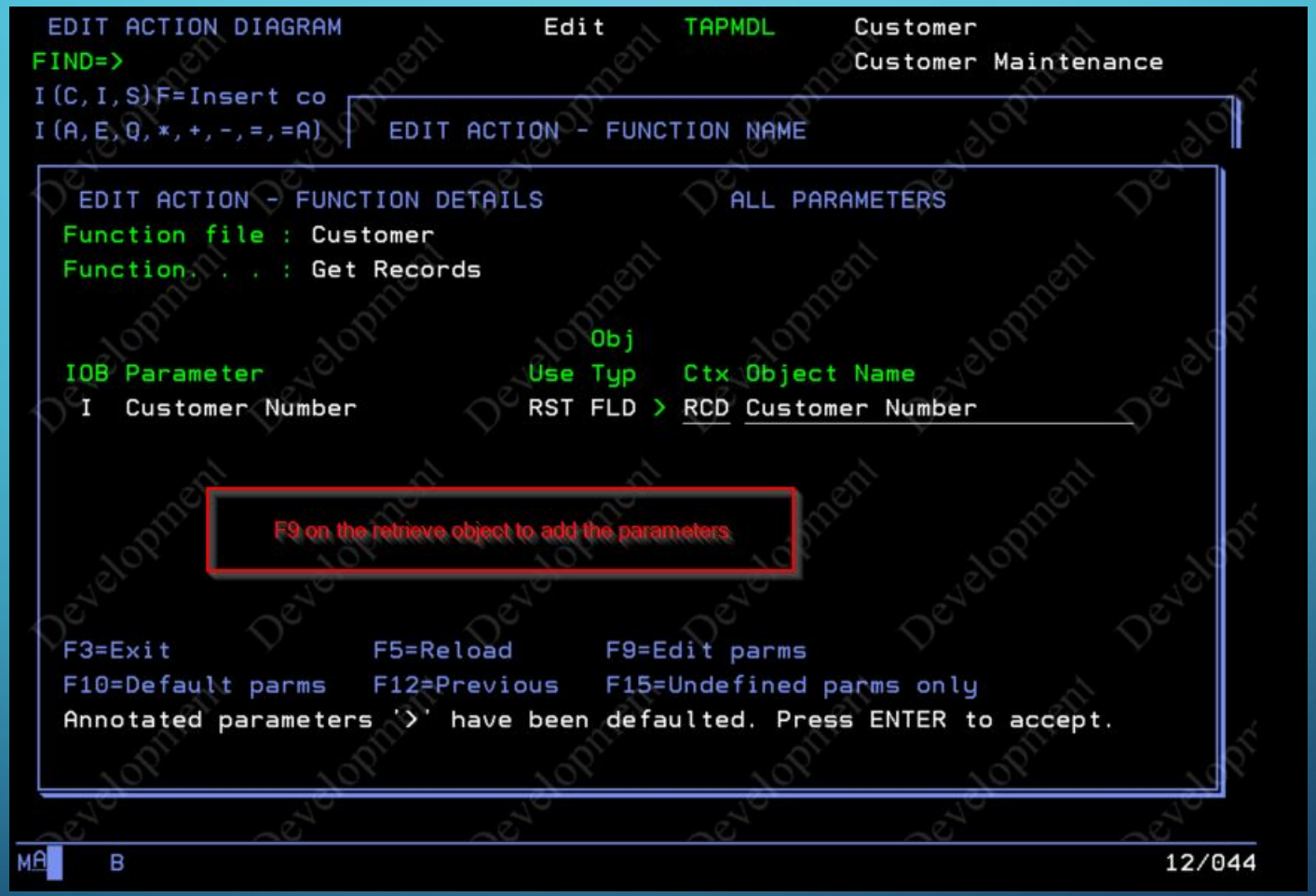

EDIT ACTION DIAGRAM
Edit
TAPMDL
Customer
FIND=>
Customer Maintenance
I(C,I,S)F=Insert construct
I(X,O)F=Insert alternate case
I(A,E,Q,*,+,-,=,=A)F=Insert action
IMF=Insert message
> USER: Extra processing after DBF update
.--
.-CASE
.|-RCD.Found is Yes
.|.-CASE
.||-RCD.*SFLSEL is *Delete
.||Delete Customer - Customer *
.|'-ENDCASE
.|-*OTHERWISE
.|Create Customer - Customer *
.'-ENDCASE
'--
For Found Yes, Add Case RCD.*SFLSEL is *DELETE and enter DLTOBJ
F3=Prev block
F5=User points
F6=Cancel pending moves
F23=More options
F7=Find
F8=Bookmark
F9=Parameters
F24=More keys
MA
B
10/002

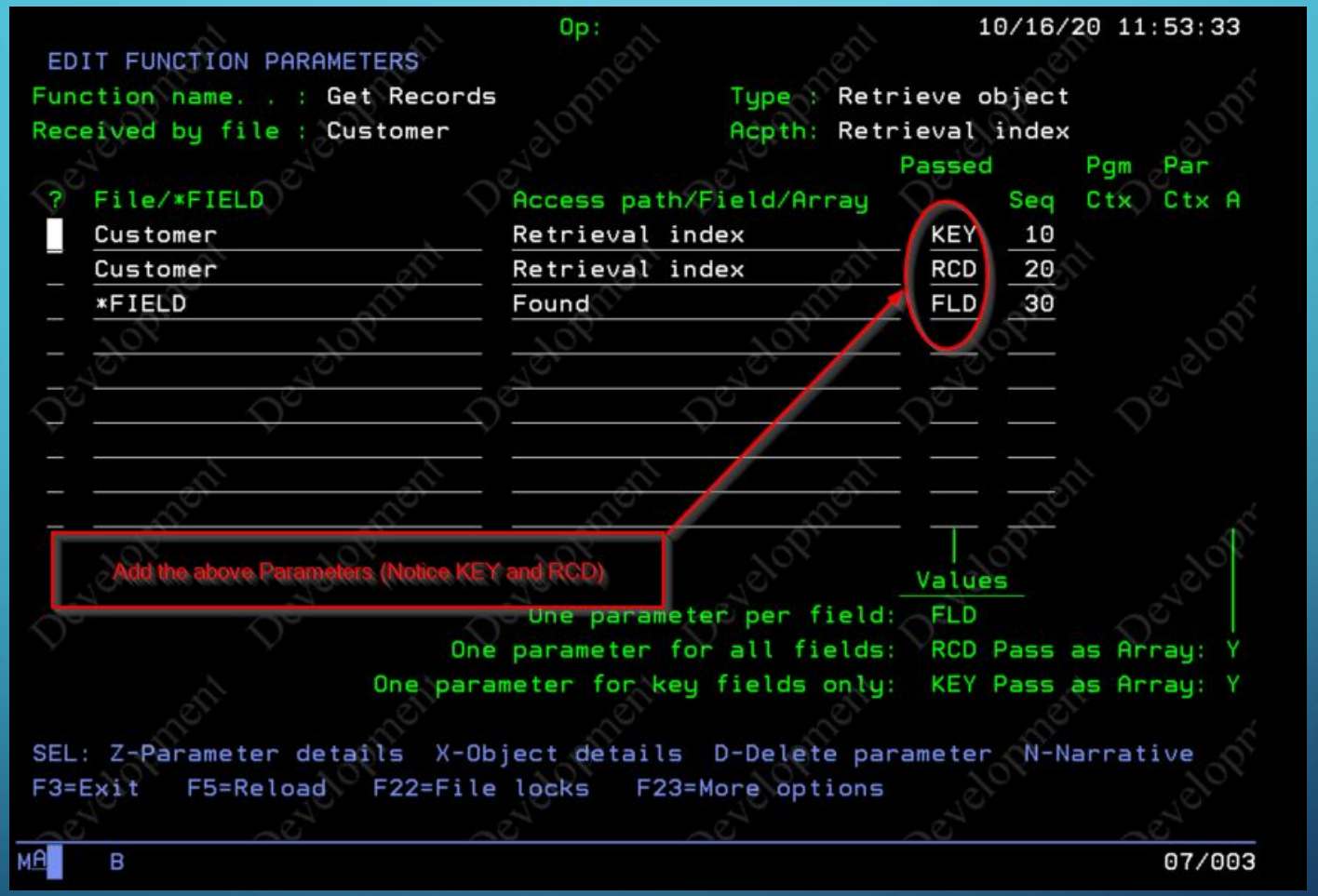

EDIT ACTION DIAGRAM
Edit
TAPMDL
Customer
FIND=>
Customer Maintenance
I(C,I,S)F=Insert construct
I(X,O)F=Insert alternate case
I(A,E,Q,*,+,-,=,=A)F=Insert action
IMF=Insert message
> USER: Extra processing after DBF update
--
-CASE
-RCD.Found is Yes
-CASE
-RCD.*SFLSEL is *Delete
Delete Customer - Customer *
-*OTHERWISE
Change Customer - Customer *
-ENDCASE
-*OTHERWISE
Create Customer - Customer *
-ENDCASE
WRK.Customer Number = CON.*ZERO
--
F3=Prev block
F5=User points
F6=Cancel pending moves
F23=More options
F7=Find
F8=Bookmark
F9=Parameters
F24=More keys
Clear the "Key Fields" of the WRK variable
MA
B
18/002

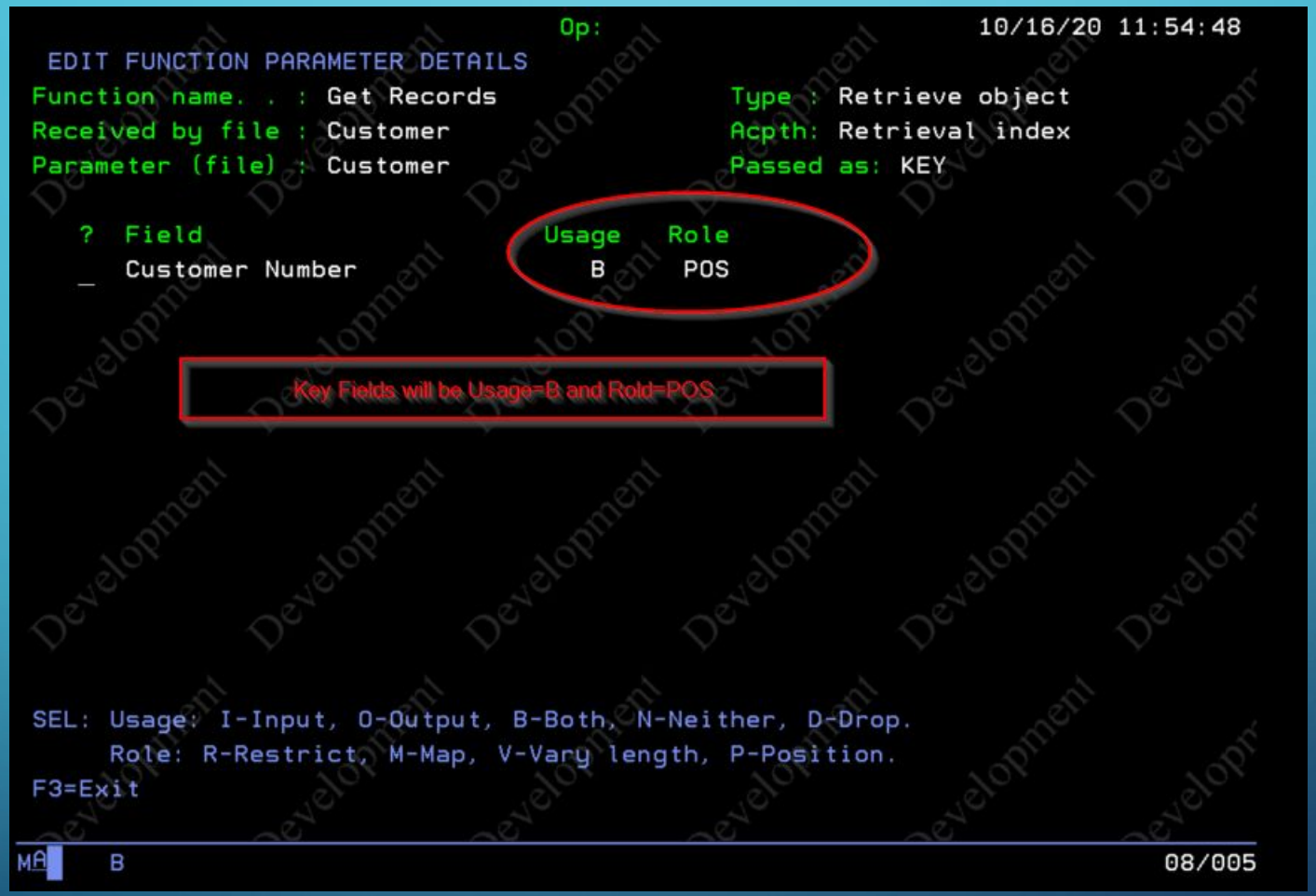

EDIT ACTION DIAGRAM
Edit
TAPMDL
Customer
FIND=>
Customer Maintenance
I(C,I,S)F=Insert construct
I(X,O)F=Insert alternate case
I(A,E,Q,*,+,-,=,=A)F=Insert action
IMF=Insert message
> USER: Initialize subfile record (new record)
--
-CASE
-WRK.First Time is Yes
WRK.First Time = CND.No
WRK.Customer Number = CON.*ZERO
RCD.Customer Number = WRK.Customer Number
-ENDCASE
--
Go to user Point: Initialize subfile record(new record) and insert the above code. ** Set the Key Fields to *zero/*blank
F3=Prev block
F5=User points
F6=Cancel pending moves
F23=More options
F7=Find
F8=Bookmark
F9=Parameters
F24=More keys
MA
B
10/002


EDIT ACTION DIAGRAM
Edit
TAPMDL
Customer
Customer Maintenance
FIND=>
I(C,I,S)F=Insert co
I(A,E,Q,*,+,-,=,=A)
> USER: Initia
.--
.-CASE
.-WRK.First
.WRK.First
.WRK.Custom
.RCD.Custom
'-ENDCASE
.--
IAF
EDIT ACTION - FUNCTION NAME
Function file : *
Function. . . : ?
Comment . . . :
F3=Exit F22=File Locks
After the case statement do an IAF to create a RTVOBJ
F3=Prev block
F5=User points
F6=Cancel pending moves
F23=More options
F7=Find
F8=Bookmark
F9=Parameters
F24=More keys
MA
B
06/040


Op: RBERKELEY ICLUS2B 10/16/20 11:50:30
EDIT FUNCTIONS
TAP 2E Model
File name. . . : Customer
** 2ND LEVEL **
? Function
Function type
Access path
X Get Records
rtvobj
rtv
More...
SEL: X=Select P=Parameters
C=Copy L=Locks U=Usages R=References N=Narrative Y=Y2CALL ...
F3=Exit F5=Reload F9=Add function F21=Copy *Template function
MA B
06/004

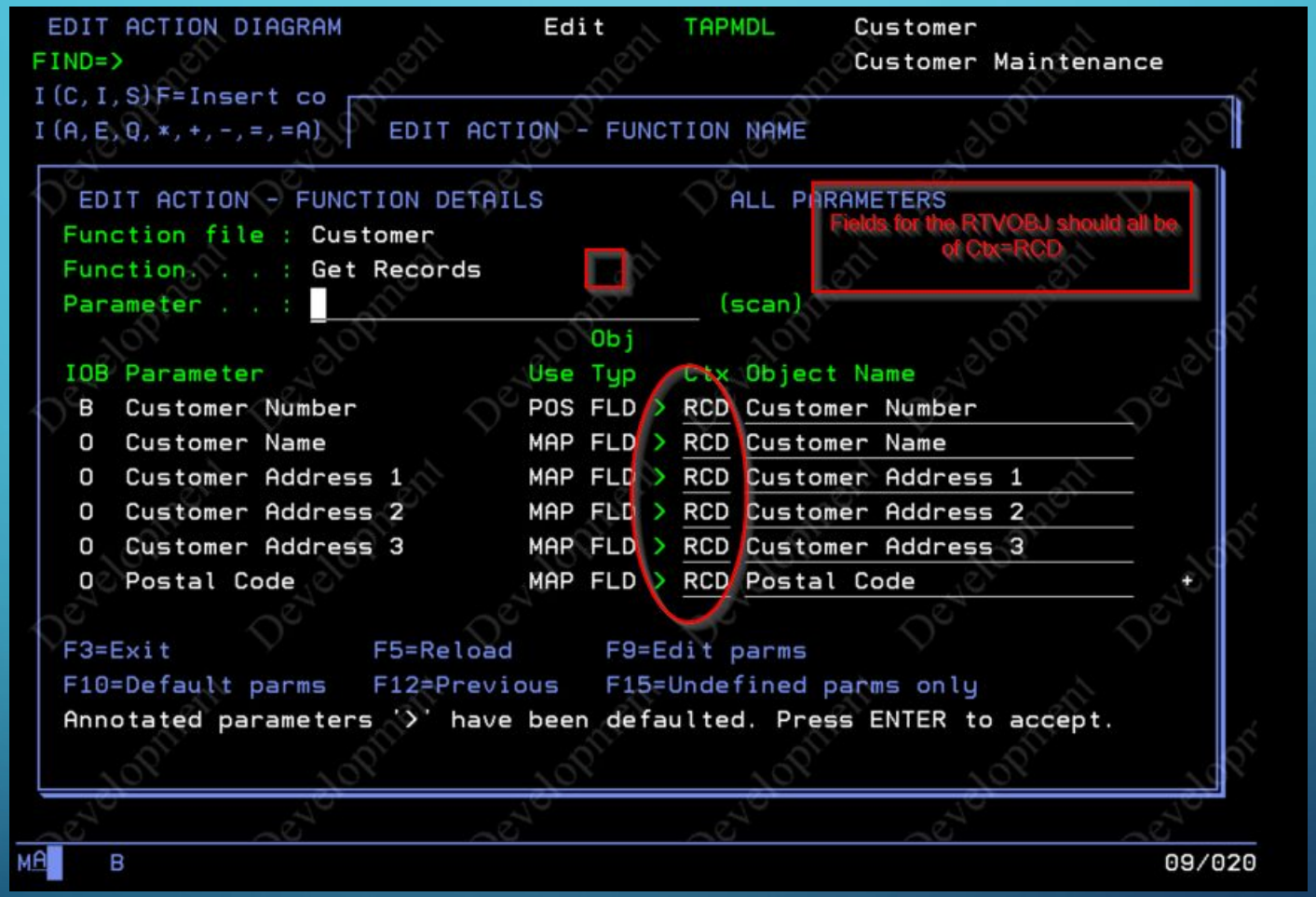

EDIT ACTION DIAGRAM
Edit
TAPMDL
Customer
FIND=>
Customer Maintenance
I(C,I,S)F=Insert co
I(A,E,Q,*,+,-,=,=A)
EDIT ACTION - FUNCTION NAME
EDIT ACTION - FUNCTION DETAILS
ALL PARAMETERS
Function file : Customer
Function. . . : Get Records
Obj
IOB Parameter
Use Typ
Ctx Object Name
I Customer Number
RST FLD > RCD Customer Number
F9 on the retrieve object to add the parameters
F3=Exit
F5=Reload
F9=Edit parms
F10=Default parms
F12=Previous
F15=Undefined parms only
Annotated parameters '>' have been defaulted. Press ENTER to accept.
MA
B
12/044

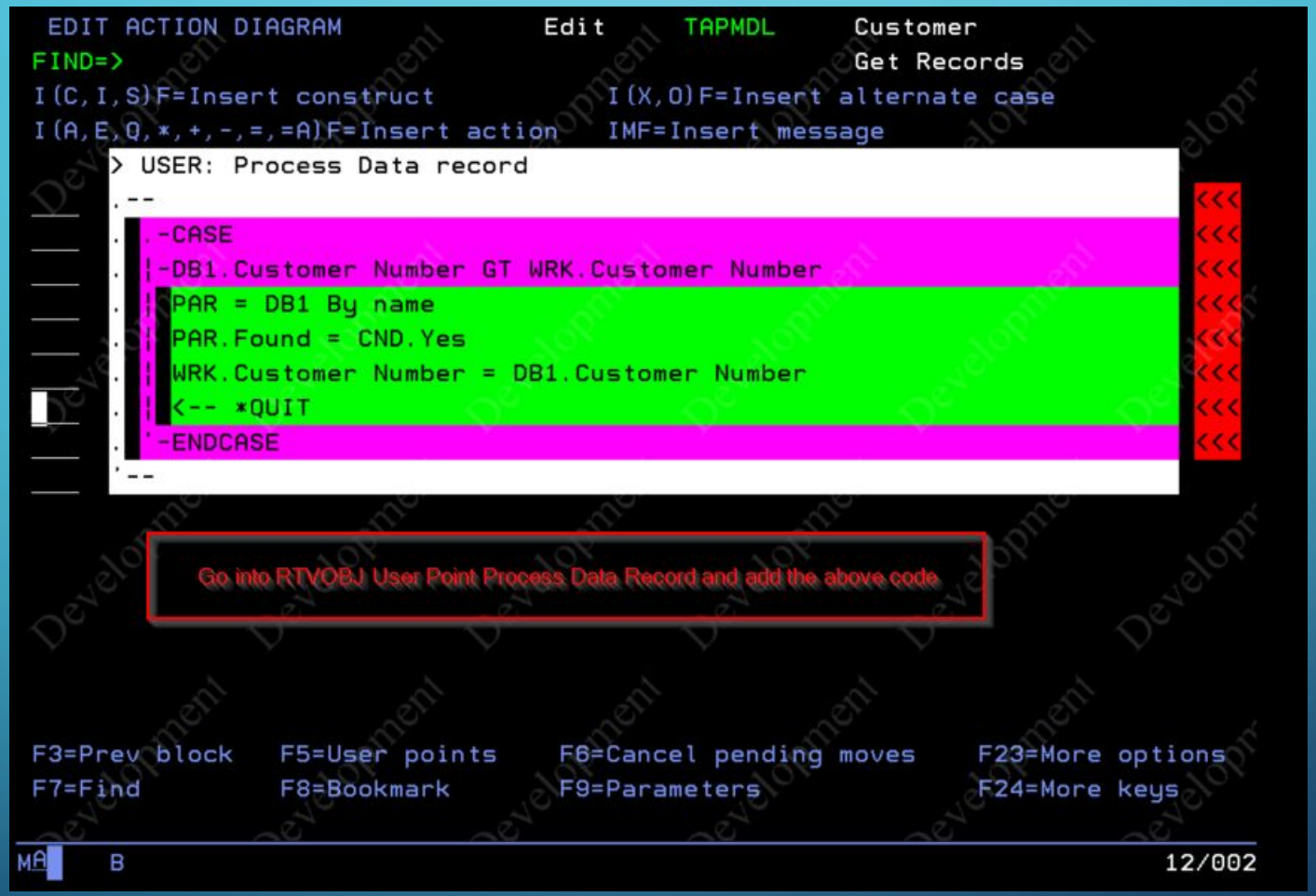

Op:
10/16/20 11:53:33
EDIT FUNCTION PARAMETERS
Function name. . : Get Records
Type : Retrieve object
Received by file : Customer
Acpth: Retrieval index
Passed
Pgm Par
? File/*FIELD
Access path/Field/Array
Seq
Ctx Ctx A
Customer
Retrieval index
KEY
10
Customer
Retrieval index
RCD
20
*FIELD
Found
FLD
30
Add the above Parameters (Notice KEY and RCD)
Values
One parameter per field:
FLD
One parameter for all fields:
RCD Pass as Array: Y
One parameter for key fields only:
KEY Pass as Array: Y
SEL: Z-Parameter details X-Object details D-Delete parameter N-Narrative
F3=Exit F5=Reload F22=File locks F23=More options
MA
B
07/003

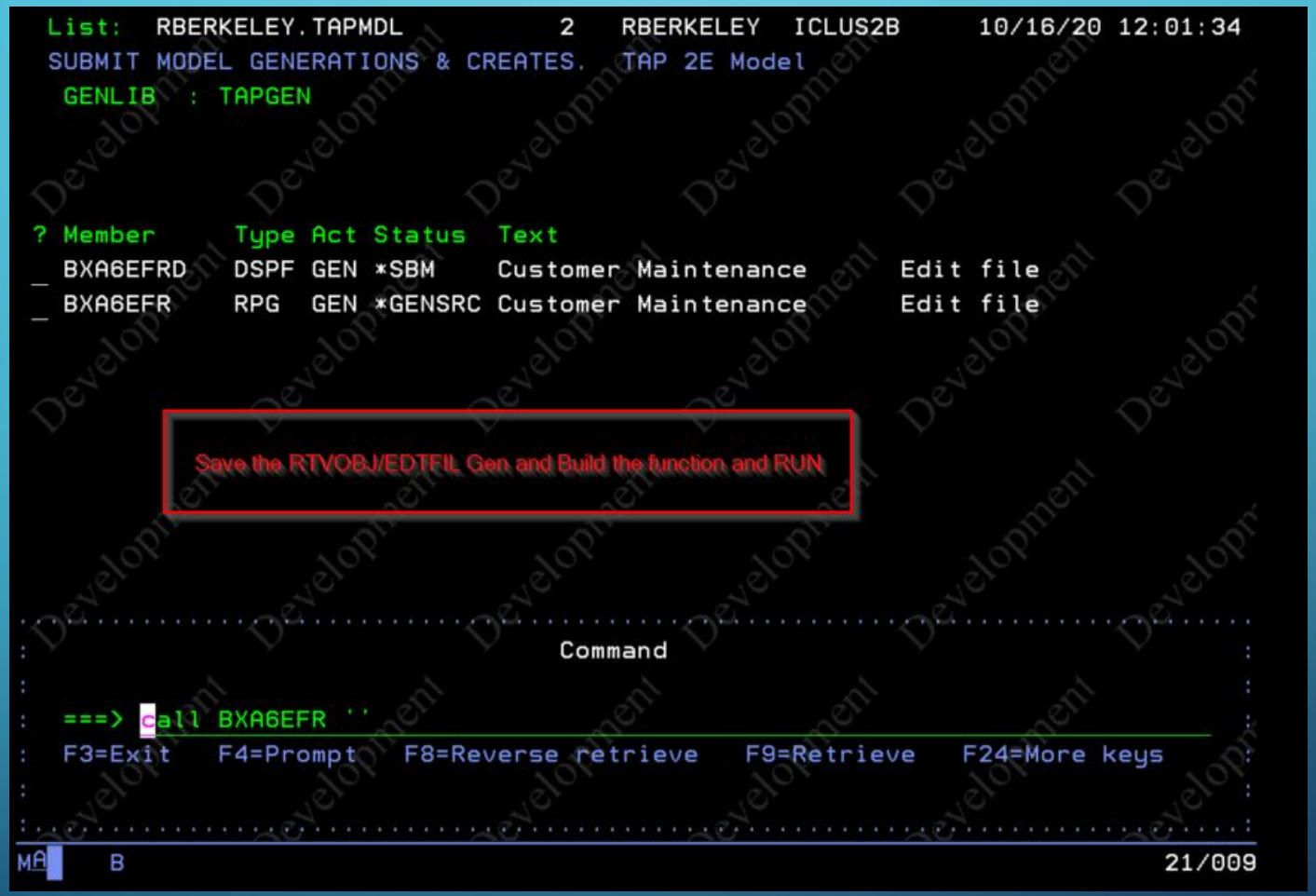

Op:
10/16/20 11:54:48
EDIT FUNCTION PARAMETER DETAILS
Function name. . : Get Records
Type : Retrieve object
Received by file : Customer
Acpth: Retrieval index
Parameter (file) : Customer
Passed as: KEY
? Field
Usage Role
_ Customer Number
B POS
Key Fields will be Usage=B and Rold=POS
SEL: Usage: I-Input, O-Output, B-Both, N-Neither, D-Drop.
Role: R-Restrict, M-Map, V-Vary length, P-Position.
F3=Exit
MA
B
08/005

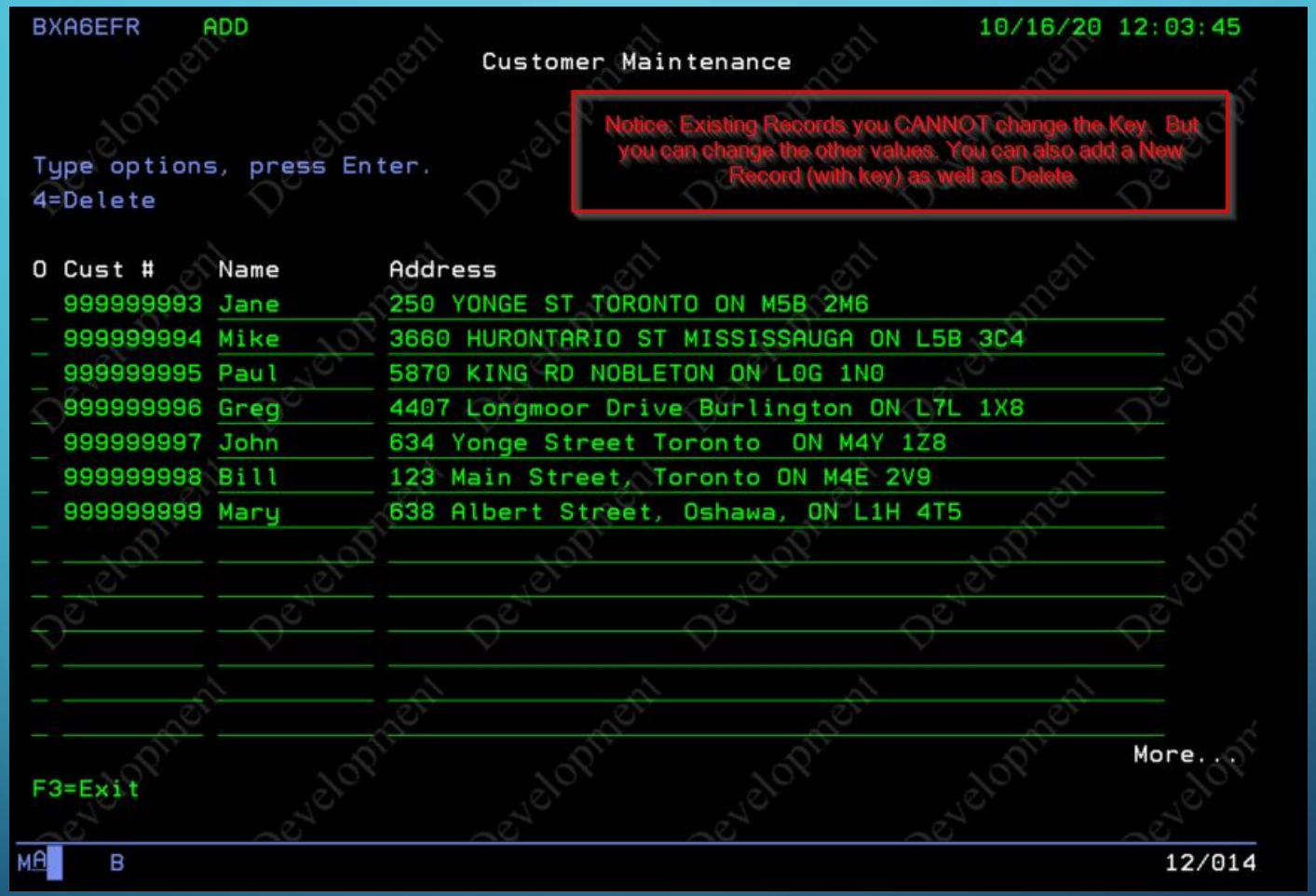

Op:
10/16/20 11:55:56
EDIT FUNCTION PARAMETER DETAILS
Function name. . : Get Records
Type : Retrieve object
Received by file : Customer
Acpth: Retrieval index
Parameter (file) : Customer
Passed as: RCD
Field name : (scan)
? Field Usage Role
_ Customer Number
_ Customer Name O MAP
_ Customer Address 1 O MAP
_ Customer Address 2 O MAP
_ Customer Address 3 O MAP
_ Postal Code O MAP
_ City O MAP
_ Province O MAP
_ Audit # of Changes O MAP
_ Audit Record Status O MAP
_ Audit Date Added O MAP
_ Audit Time Added O MAP
_ Audit User Added O MAP
RCD Fields (all but the KEY) will be OUTPUT MAP
SEL: Usage: I-Input, O-Output, B-Both, N-Neither, D-Drop.
Role: R-Restrict, M-Map, V-Vary length, P-Position.
F3=Exit
MA B
08/005

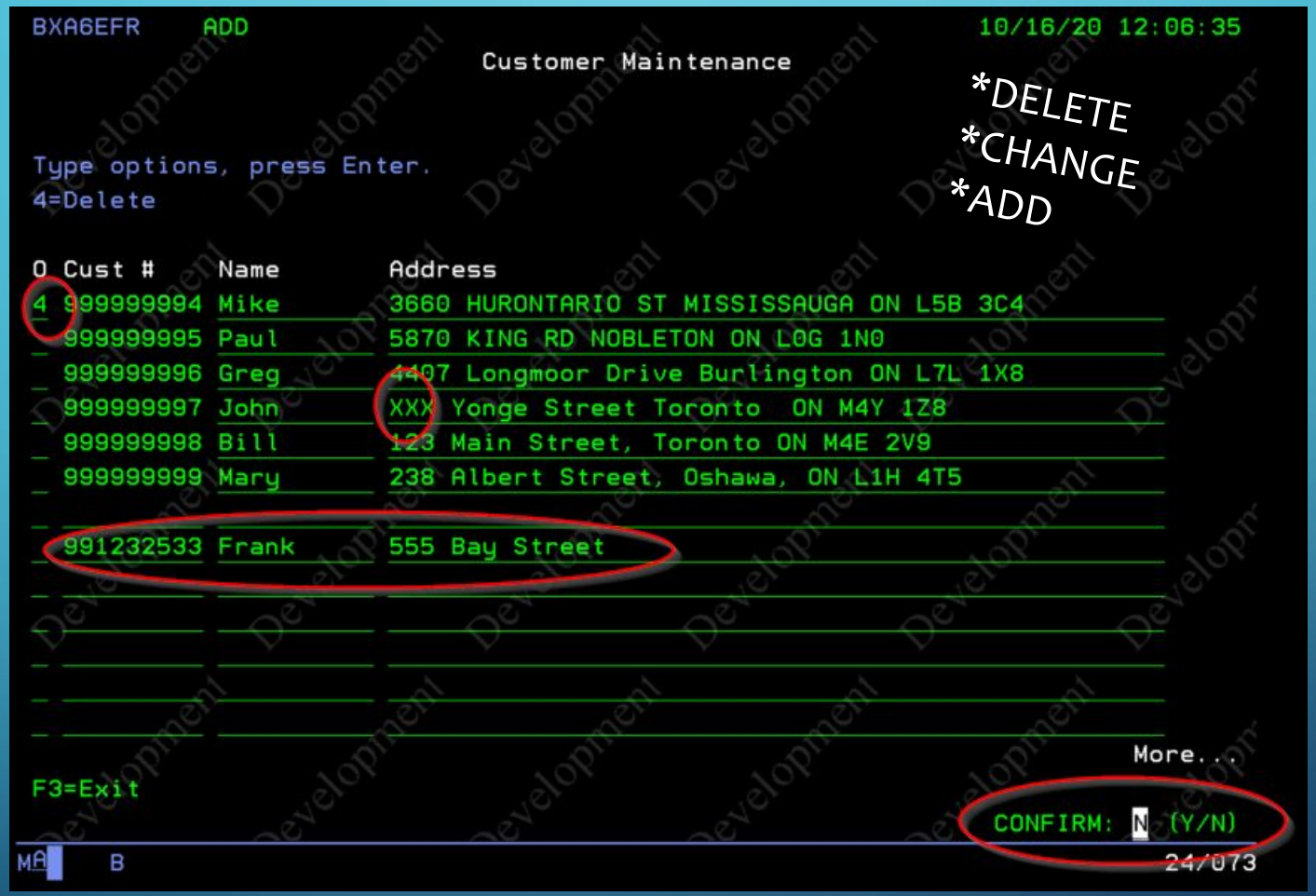

Op:
10/16/20 11:57:46
EDIT FUNCTION PARAMETER DETAILS
Function name. . : Get Records
Type : Retrieve object
Received by file : Customer
Acpth: Found
Parameter (file) : *FIELD
Passed as: FLD
? Field
Usage
Role
Found
O
MAP
The Field Found will be Usage=O Role=Map
SEL: Usage: I-Input, O-Output, B-Both, N-Neither, D-Drop.
Role: R-Restrict, M-Map, V-Vary length, P-Position.
F3=Exit
MA
B
08/005


EDIT ACTION DIAGRAM
Edit
TAPMDL
Customer
Customer Maintenance
FIND=>
I(C,I,S)F=Insert co
I(A,E,Q,*,+,-,=,=A)
EDIT ACTION - FUNCTION NAME
EDIT ACTION - FUNCTION DETAILS
ALL PARAMETERS
Fields for the RTVOBJ should all be of Ctx=RCD
Function file : Customer
Function . . . : Get Records
Parameter . . . :
(scan)
IOB Parameter
Obj Use Typ
Ctx Object Name
B Customer Number
POS FLD > RCD Customer Number
O Customer Name
MAP FLD > RCD Customer Name
O Customer Address 1
MAP FLD > RCD Customer Address 1
O Customer Address 2
MAP FLD > RCD Customer Address 2
O Customer Address 3
MAP FLD > RCD Customer Address 3
O Postal Code
MAP FLD > RCD Postal Code
F3=Exit
F5=Reload
F9=Edit parms
F10=Default parms
F12=Previous
F15=Undefined parms only
Annotated parameters '>' have been defaulted. Press ENTER to accept.
MA
B
09/020

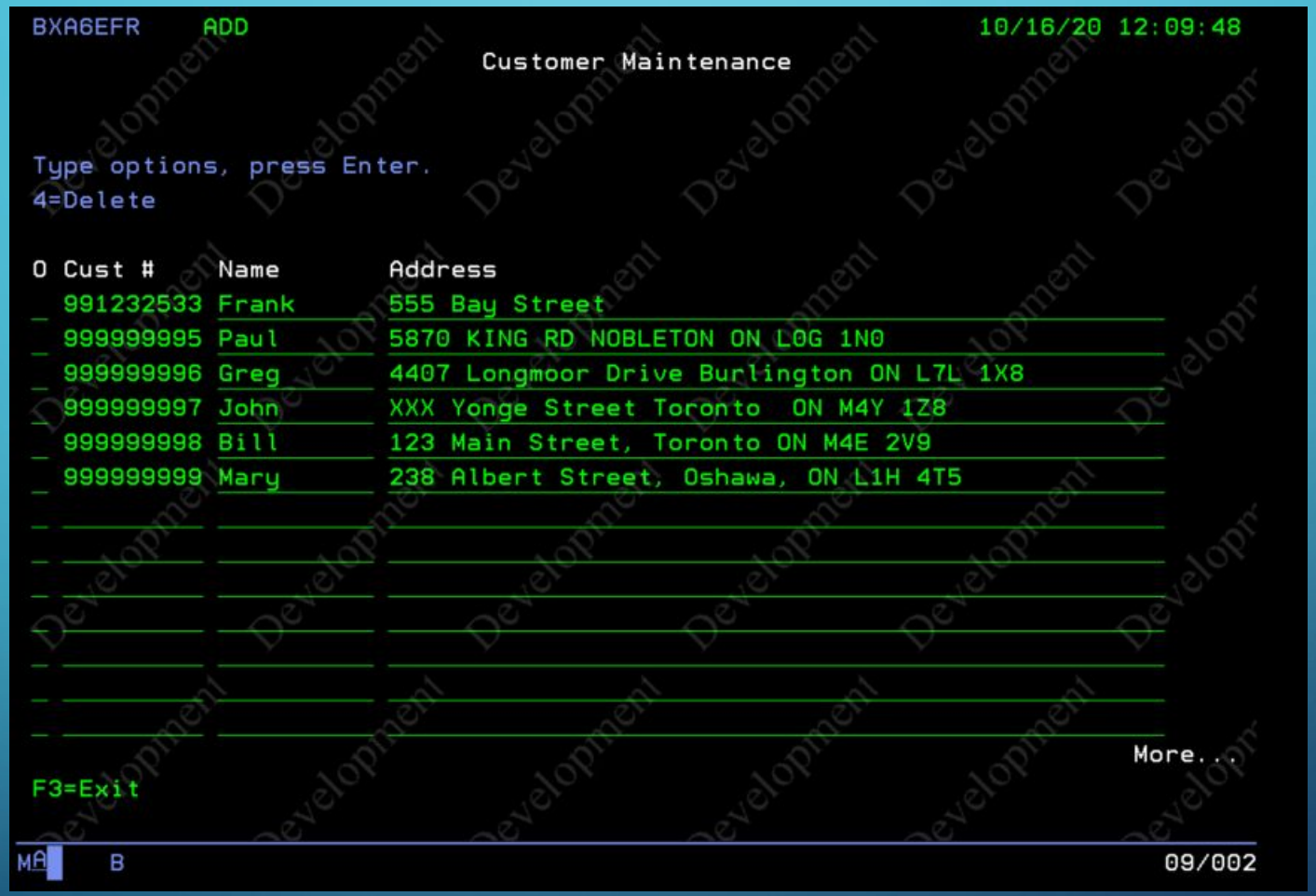

EDIT ACTION DIAGRAM Edit TAPMDL Customer
FIND=>
Get Records
I(C,I,S)F=Insert construct
I(X,O)F=Insert alternate case
I(A,E,Q,*,+,-,=,=A)F=Insert action
IMF=Insert message
> USER: Process Data record
.--
.-CASE
¦-DB1.Customer Number GT WRK.Customer Number
¦ PAR = DB1 By name
¦ PAR.Found = CND.Yes
¦ WRK.Customer Number = DB1.Customer Number
¦ <-- *QUIT
'-ENDCASE
'--
<<<
Go into RTVOBJ User Point Process Data Record and add the above code
F3=Prev block
F5=User points
F6=Cancel pending moves
F23=More options
F7=Find
F8=Bookmark
F9=Parameters
F24=More keys
MA
B
12/002

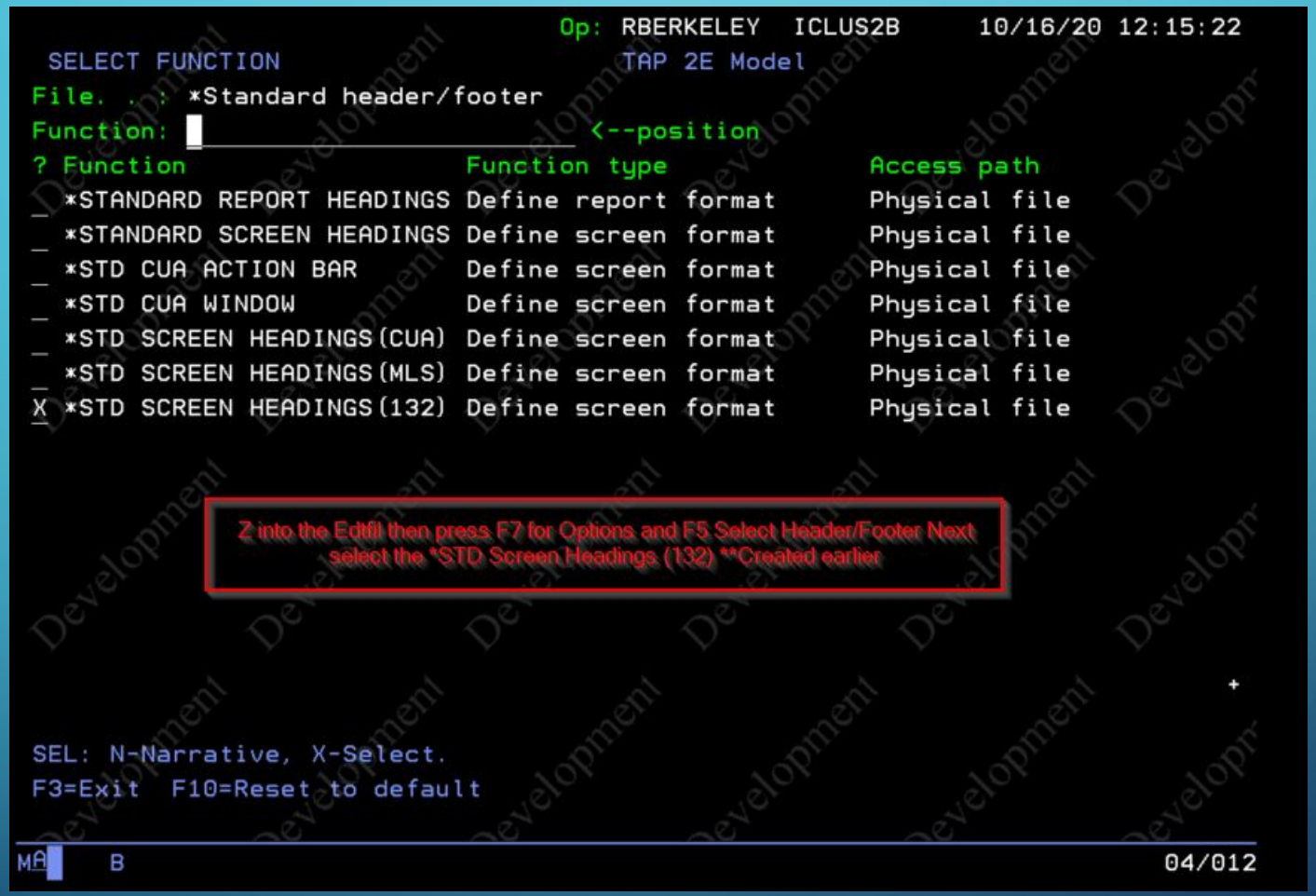

List: RBERKELEY.TAPMDL 2 RBERKELEY ICLUS2B 10/16/20 12:01:34
SUBMIT MODEL GENERATIONS & CREATES. TAP 2E Model
GENLIB : TAPGEN
? Member Type Act Status Text
_ BXA6EFRD DSPF GEN *SBM Customer Maintenance Edit file
_ BXA6EFR RPG GEN *GENSRC Customer Maintenance Edit file
Save the RTVOBJ/EDTFIL Gen and Build the function and RUN
Command
===> call BXA6EFR ''
F3=Exit F4=Prompt F8=Reverse retrieve F9=Retrieve F24=More keys
MA B 21/009

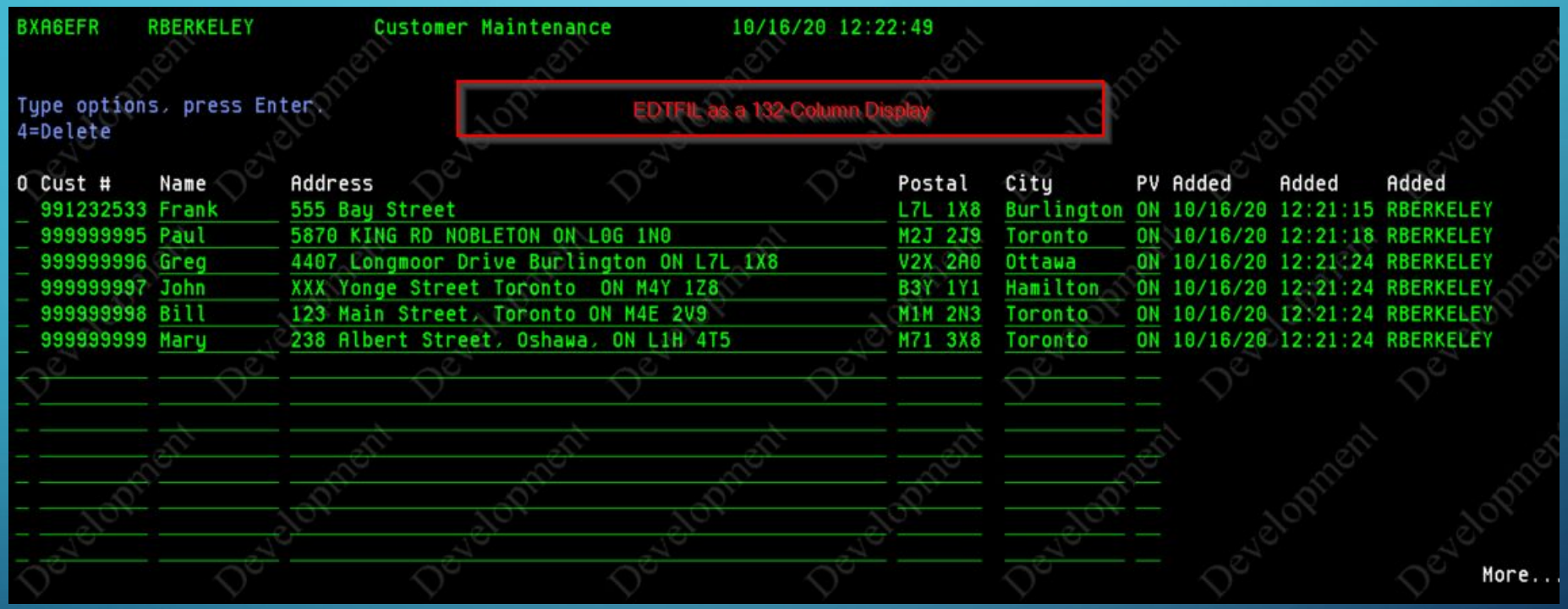

BXA6EFR ADD
10/16/20 12:03:45
Customer Maintenance
Notice: Existing Records you CANNOT change the Key. But you can change the other values. You can also add a New Record (with key) as well as Delete
Type options, press Enter.
4=Delete
O Cust # Name Address
999999993 Jane 250 YONGE ST TORONTO ON M5B 2M6
999999994 Mike 3660 HURONTARIO ST MISSISSAUGA ON L5B 3C4
999999995 Paul 5870 KING RD NOBLETON ON L0G 1N0
999999996 Greg 4407 Longmoor Drive Burlington ON L7L 1X8
999999997 John 634 Yonge Street Toronto ON M4Y 1Z8
999999998 Bill 123 Main Street, Toronto ON M4E 2V9
999999999 Mary 638 Albert Street, Oshawa, ON L1H 4T5
More...
F3=Exit
MA B
12/014



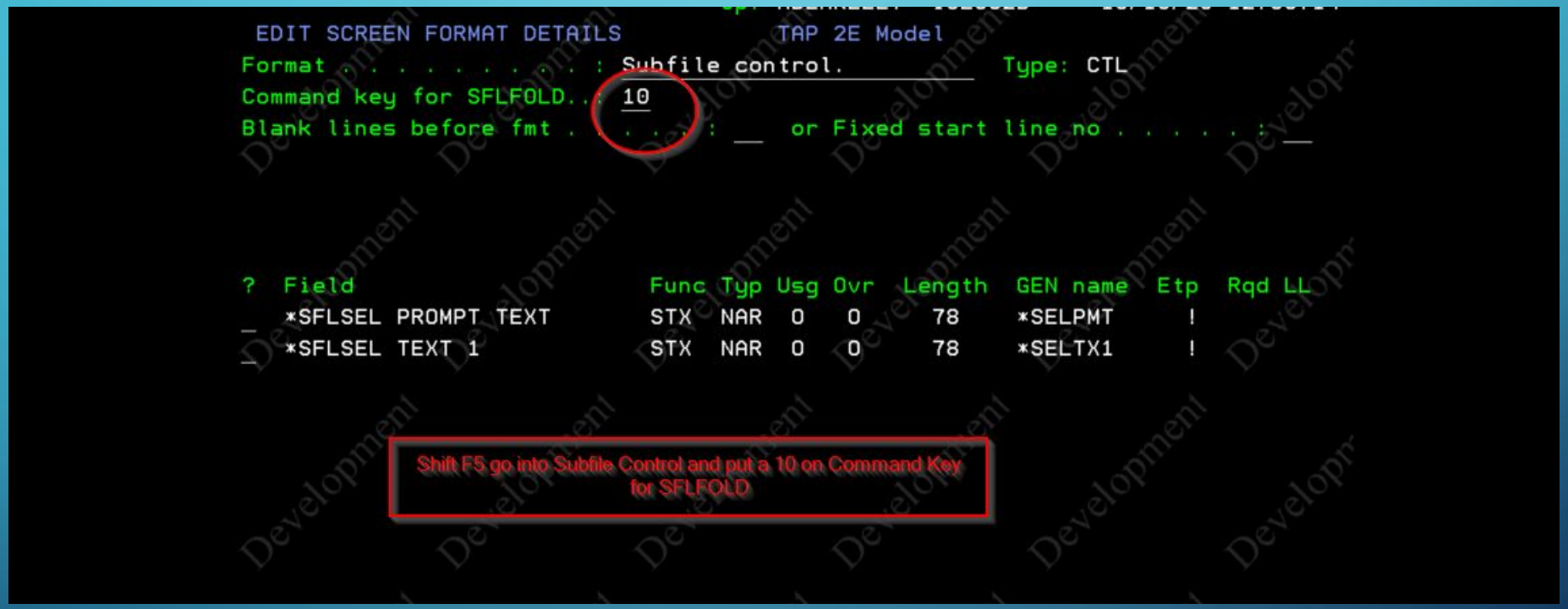
Note: This method is good for TABLEs but NOT for Large Files

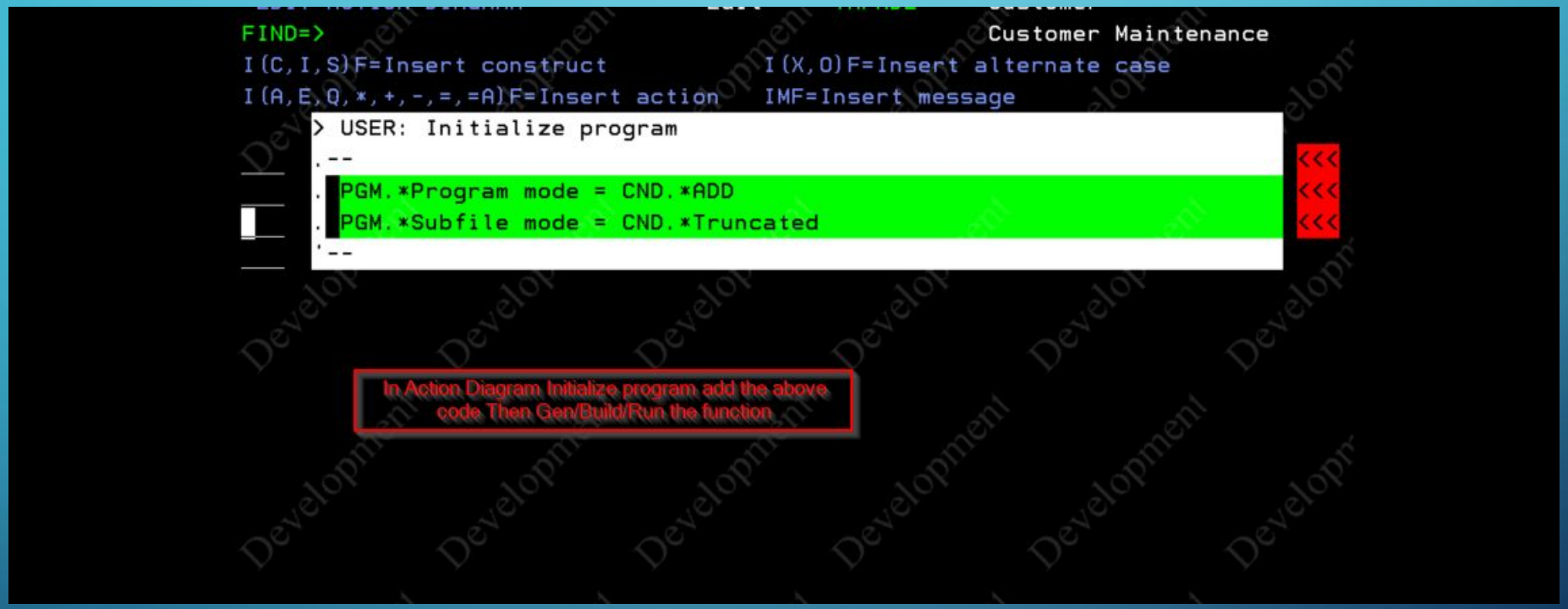

BXA6EFR ADD 10/16/20 12:09:48
Customer Maintenance
Type options, press Enter.
4=Delete
O Cust # Name Address
_ 991232533 Frank 555 Bay Street
_ 999999995 Paul 5870 KING RD NOBLETON ON L0G 1N0
_ 999999996 Greg 4407 Longmoor Drive Burlington ON L7L 1X8
_ 999999997 John XXX Yonge Street Toronto ON M4Y 1Z8
_ 999999998 Bill 123 Main Street, Toronto ON M4E 2V9
_ 999999999 Mary 238 Albert Street, Oshawa, ON L1H 4T5
More...
F3=Exit
MA B 09/002

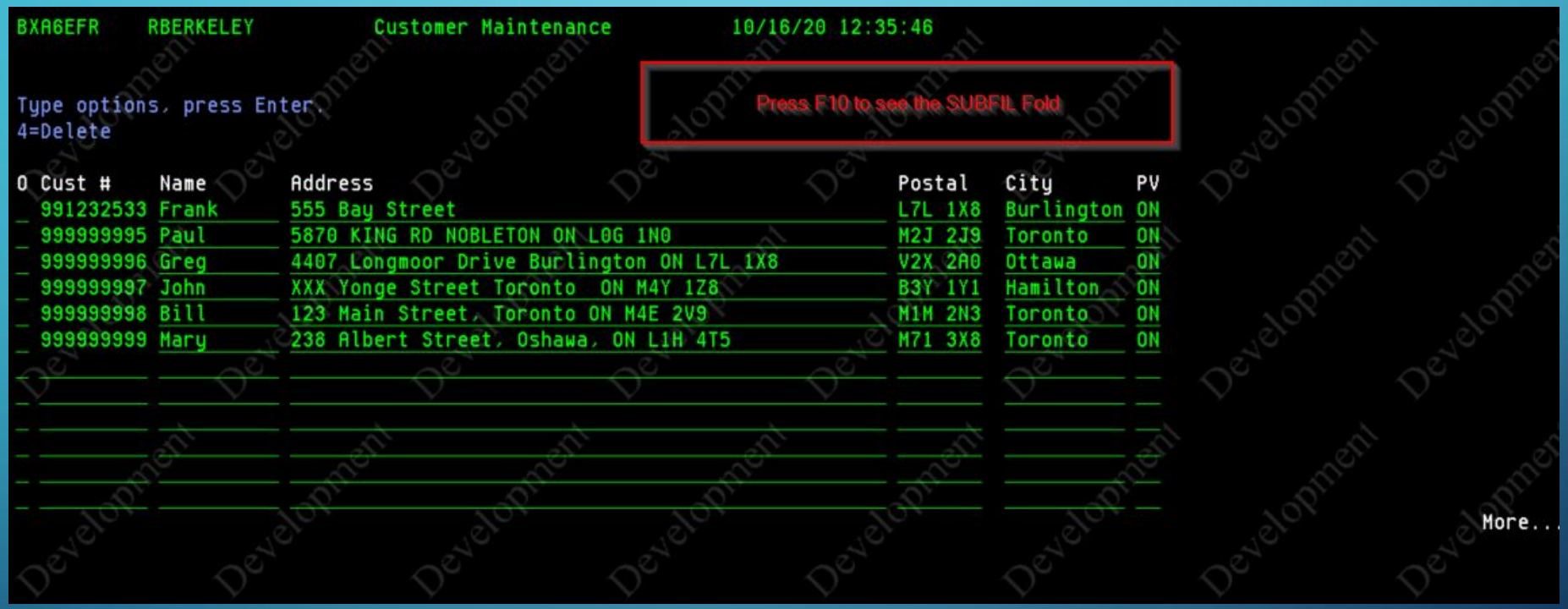

Op: RBERKELEY ICLUS2B 10/16/20 12:15:22
SELECT FUNCTION TAP 2E Model
File. . : *Standard header/footer
Function: <--position
? Function Function type Access path
_ *STANDARD REPORT HEADINGS Define report format Physical file
_ *STANDARD SCREEN HEADINGS Define screen format Physical file
_ *STD CUA ACTION BAR Define screen format Physical file
_ *STD CUA WINDOW Define screen format Physical file
_ *STD SCREEN HEADINGS(CUA) Define screen format Physical file
_ *STD SCREEN HEADINGS(MLS) Define screen format Physical file
X *STD SCREEN HEADINGS(132) Define screen format Physical file
Z into the Edtfil then press F7 for Options and F5 Select Header/Footer Next select the *STD Screen Headings (132) **Created earlier
SEL: N-Narrative, X-Select.
F3=Exit F10=Reset to default
MA B 04/012

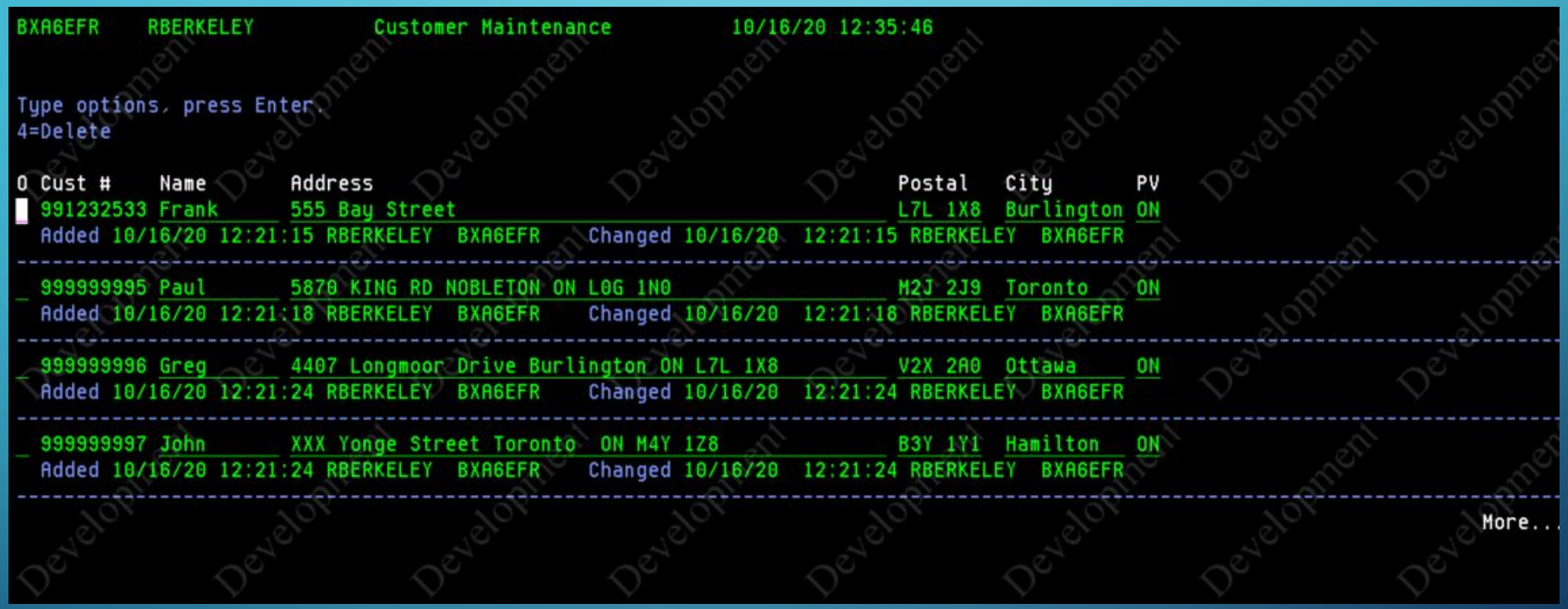

BXA6EFR RBERKELEY Customer Maintenance 10/16/20 12:22:49
Type options, press Enter.
4=Delete
EDTFIL as a 132-Column Display
O Cust # Name Address Postal City PV Added Added Added
_ 991232533 Frank 555 Bay Street L7L 1X8 Burlington ON 10/16/20 12:21:15 RBERKELEY
_ 999999995 Paul 5870 KING RD NOBLETON ON L0G 1N0 M2J 2J9 Toronto ON 10/16/20 12:21:18 RBERKELEY
_ 999999996 Greg 4407 Longmoor Drive Burlington ON L7L 1X8 V2X 2A0 Ottawa ON 10/16/20 12:21:24 RBERKELEY
_ 999999997 John XXX Yonge Street Toronto ON M4Y 1Z8 B3Y 1Y1 Hamilton ON 10/16/20 12:21:24 RBERKELEY
_ 999999998 Bill 123 Main Street, Toronto ON M4E 2V9 M1M 2N3 Toronto ON 10/16/20 12:21:24 RBERKELEY
_ 999999999 Mary 238 Albert Street, Oshawa, ON L1H 4T5 M71 3X8 Toronto ON 10/16/20 12:21:24 RBERKELEY
More...

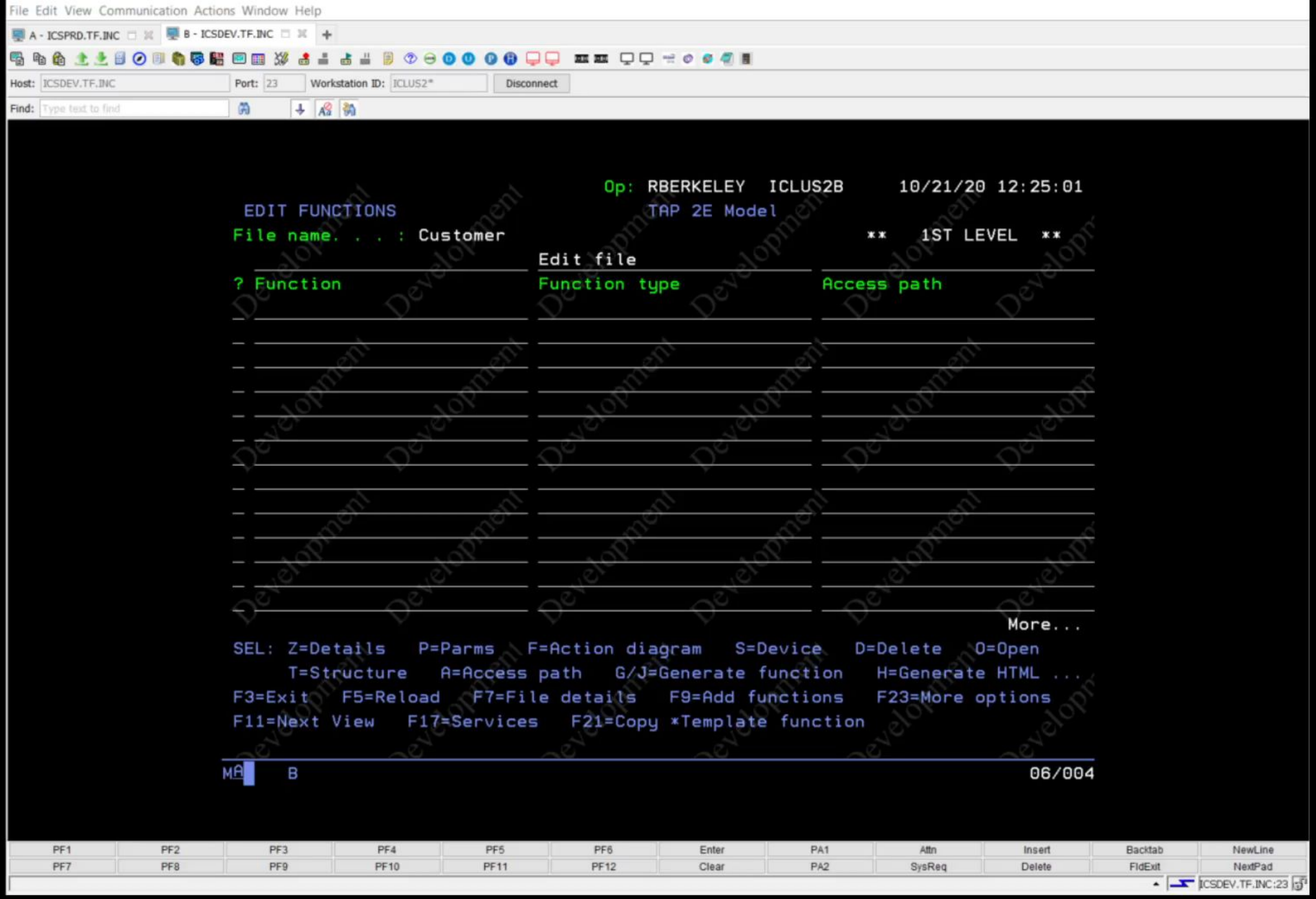

Type options, press Enter.
4=Delete
Add a SECOND line to each subfile Record with a divider line
O Cust # Name Address Posta
Added 66/66/66 0000000000 0000000000 Changed 66/66/66 66:66:66 0000
Added 66/66/66 0000000000 0000000000 Changed 66/66/66 66:66:66 0000
Added 66/66/66 0000000000 0000000000 Changed 66/66/66 66:66:66 0000
Added 66/66/66 0000000000 0000000000 Changed 66/66/66 66:66:66 0000


EDIT SCREEN FORMAT DETAILS
TAP 2E Model
Format . . . . . : Subfile control.
Type: CTL
Command key for SFLFOLD. . 10
Blank lines before fmt . . . . : __ or Fixed start line no . . . . . : __
? Field Func Typ Usg Ovr Length GEN name Etp Rqd LL
_ *SFLSEL PROMPT TEXT STX NAR 0 0 78 *SELPMT !
_ *SFLSEL TEXT 1 STX NAR 0 0 78 *SELTX1 !
Shift F5 go into Subfile Control and put a 10 on Command Key for SFLFOLD


FIND=>
Customer Maintenance
I(C,I,S)F=Insert construct
I(X,O)F=Insert alternate case
I(A,E,Q,*,+,-,=,=A)F=Insert action
IMF=Insert message
> USER: Initialize program
.--
. PGM.*Program mode = CND.*ADD
. PGM.*Subfile mode = CND.*Truncated
'--
<<<
<<<
<<<
In Action Diagram Initialize program add the above code Then Gen/Build/Run the function


BXA6EFR RBERKELEY Customer Maintenance 10/16/20 12:35:46
Press F10 to see the SUBFIL Fold
Type options, press Enter.
4=Delete
O Cust # Name Address Postal City PV
_ 991232533 Frank 555 Bay Street L7L 1X8 Burlington ON
_ 999999995 Paul 5870 KING RD NOBLETON ON L0G 1N0 M2J 2J9 Toronto ON
_ 999999996 Greg 4407 Longmoor Drive Burlington ON L7L 1X8 V2X 2A0 Ottawa ON
_ 999999997 John XXX Yonge Street Toronto ON M4Y 1Z8 B3Y 1Y1 Hamilton ON
_ 999999998 Bill 123 Main Street, Toronto ON M4E 2V9 M1M 2N3 Toronto ON
_ 999999999 Mary 238 Albert Street, Oshawa, ON L1H 4T5 M71 3X8 Toronto ON
More...


BXA6EFR RBERKELEY Customer Maintenance 10/16/20 12:35:46
Type options, press Enter.
4=Delete
O Cust # Name Address Postal City PV
991232533 Frank 555 Bay Street L7L 1X8 Burlington ON
Added 10/16/20 12:21:15 RBERKELEY BXA6EFR Changed 10/16/20 12:21:15 RBERKELEY BXA6EFR
999999995 Paul 5870 KING RD NOBLETON ON L0G 1N0 M2J 2J9 Toronto ON
Added 10/16/20 12:21:18 RBERKELEY BXA6EFR Changed 10/16/20 12:21:18 RBERKELEY BXA6EFR
999999996 Greg 4407 Longmoor Drive Burlington ON L7L 1X8 V2X 2A0 Ottawa ON
Added 10/16/20 12:21:24 RBERKELEY BXA6EFR Changed 10/16/20 12:21:24 RBERKELEY BXA6EFR
999999997 John XXX Yonge Street Toronto ON M4Y 1Z8 B3Y 1Y1 Hamilton ON
Added 10/16/20 12:21:24 RBERKELEY BXA6EFR Changed 10/16/20 12:21:24 RBERKELEY BXA6EFR
More...


File Edit View Communication Actions Window Help
A - ICSPRD.TF.INC
B - ICSDEV.TF.INC
Host: ICSDEV.TF.INC
Port: 23
Workstation ID: ICLUS2*
Disconnect
Find: Type text to find
Op: RBERKELEY ICLUS2B 10/21/20 12:25:01
EDIT FUNCTIONS
TAP 2E Model
File name. . . : Customer
** 1ST LEVEL **
Edit file
? Function
Function type
Access path
More...
SEL: Z=Details P=Parms F=Action diagram S=Device D=Delete O=Open
T=Structure A=Access path G/J=Generate function H=Generate HTML ...
F3=Exit F5=Reload F7=File details F9=Add functions F23=More options
F11=Next View F17=Services F21=Copy *Template function
MA B
06/004
PF1 PF2 PF3 PF4 PF5 PF6 Enter PA1 Attn Insert Backtab NewLine
PF7 PF8 PF9 PF10 PF11 PF12 Clear PA2 SysReq Delete FldExit NextPad
ICSDEV.TF.INC:23


THANK
YOU




THANK
YOU




STAY SAFE!


THANK
YOU



JUST ONE MORE THING…

- TAA Tools
  - https://www.taatool.com/
- New Generation Software (NGS) – Report writing.
  - http://www.ngsi.com/company/index.html
- Oracle Virtual Box
  - https://www.virtualbox.org/wiki/Downloads
- OBS Studio
  - https://obsproject.com/
- QR Generator
  - https://www.qrcode-monkey.com/
- HTML Editor
  - https://html5-editor.net/
- MMail
  - http://mmail.easy400.net/

Link to Presentation and Videos