



## As Cool as ICE!

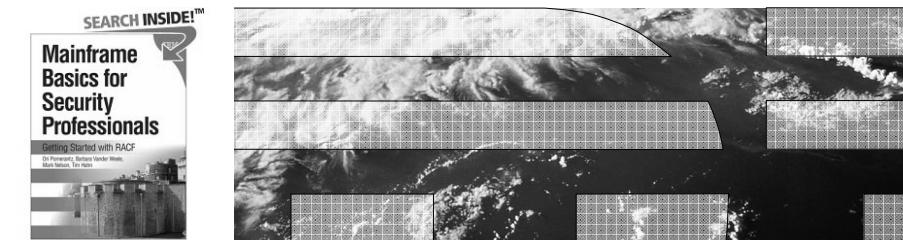
### Lab Instructions

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Session CAR12

z/OS Security Server (RACF) Design and Development. IBM Poughkeepsie

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## Background

- **The “As Cool As ICE” lab demonstrates:**
  - How to unpack the RACFICE package
  - How to execute all of the RACF reports
  - How to add fields to a report
  - How to add selection criteria to a report
  - Changing a threshold
- **Each of you has a user ID of the form SHARBnn**
  - “nn” is a number that I’ve assigned to your workstation
  - All user IDs have the same password (“firstpw”)
- **You will be using read-only SMF Unload and RACF Database Unload Utility output**
  - Note: NOT REAL WORLD!
- **This is a guided tour... please let your tour guide (me) know if you are having any problems.**

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## Step 1: LOGON

- You should be sitting at a IBM Personal Communications Manager (PCCOMM) session that looks like this:

```
Enter Your Userid:          New password:  
Password:  
Application:tso  
Application Required. No Installation Default
```

- When prompted, enter your user ID (SHARBnn)

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## Step 1: LOGON...

- Next, you'll see the traditional TSO/E logon panel. Enter your password.

```
----- TSO/E LOGON -----  
  
Enter LOGON parameters below:           RACF LOGON parameters:  
Userid      ===> SHARB09  
Password    ===> firstpw          New Password ===>  
Procedure   ===> SHARE           Group Ident  ===>  
Acct Nmbr  ===> SHR  
Size        ===>  
Perform     ===>  
Command     ===> ISPF  
  
Enter an 'S' before each option desired below:  
-Nomail       -Nonotice      S -Reconnect      -OIDcard  
PF1/PF13 ==> Help      PF3/PF15 ==> Logoff      PA1 ==> Attention      PA2 ==> Reshow  
You may request specific help information by entering a '?' in any entry field
```

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## Step 2: Getting into your Data Set

- Next, you'll see the ISPF LOGON Panel. Enter option 3.4

```
----- SHARE ISPF 6.1 SCROLLABLE PRIMARY OPTION MENU ----- S1  
OPTION ===> 3.4  
  
D Alternate Dialog ===> CMD(?????)  
D2 Alternate Dialog ===> PANEL(?????)  
More:  
The time is 5:53 p.m. on Friday, February 25, 2011 (2011.056)  
Your uid is SHARB09  dsm prefix is SHARB09  proc is SHARE  sys is S1  
  
0 SETTINGS      - Specify ISPF parameters  
1 VIEW          - View source data or output listing  
1P VIEW-OE      - View/Browse files in the Open Edition file system  
2 EDIT          - Create or change source data  
2P EDIT-OE      - Edit files in the Open Edition file system  
3 UTILITIES     - Perform utility functions  
3P ISHELL-OE    - Open Edition ISPF shell  
4 FOREGROUND    - Invoke language processors in foreground  
5 BATCH          - Submit job for language processing  
6 COMMAND        - Enter TSO command, CLIST, or REXX exec  
7 DIALOG TEST    - Perform dialog testing  
8 LM UTILITIES   - Perform library administrator utility functions  
9 IBM PRODUCTS   - Additional IBM program development products  
F1=HELP          F2=SPLIT      F3=END      F4=RETURN      F5=RFIND      F6=RCHANGE  
F7=UP            F8=DOWN       F9=SWAP       F10=LEFT       F11=RIGHT      F12=RETRIEVE
```

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## Step 2: Getting into your Data Sets...

- Enter “SHAREBnn.RACFICE” as the “Dsname Level”, where nn=your user ID

```
Menu RefList RefMode Utilities Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
Data Set List Utility
Option ===>
blank Display data set list          More: +
V Display VTOC information         P Print data set list
                                     PV Print VTOC information

Enter one or both of the parameters below:
Dsname Level . . . SHARB09.RACFICE
Volume serial . .

Data set list options
Initial View           Enter "/" to select option
1. Volume             / Confirm Data Set Delete
2. Space              / Confirm Member Delete
3. Attrib             / Include Additional Qualifiers
4. Total              / Display Catalog Name
                      / Display Total Tracks
                      Prefix Dsname Level

When the data set list is displayed, enter either:
F1=Help   F2=Split   F3=Exit   F7=Backward   F8=Forward   F9=Swap
F10=Actions   F12=Cancel
```

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## Step 2: Getting into your Data Sets...

- You should see your data set for this project. Put a “e” in the command field

```
Menu Options View Utilities Compilers Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
DSLIST - Data Sets Matching SHARB09.RACFICE                           Row 1 of 1
Command ==>                                                               Scroll ==> PAGE
Command - Enter "/" to select action          Message          Volume
----- -----
e----- SHARB09.RACFICE.CNTL                  SHTS07
***** End of Data Set list *****
```

F1=Help F2=Split F3=Exit F5=Rfind F7=Up F8=Down F9=Swap
F10=Left F11=Right F12=Cancel

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## Step 2: Getting into your Data Sets...

- You have three members populated in the data set:
  - IEBUPDTE, which we will use to create the RACFICE reports in your data set
  - ICETOOL, a standalone sample ICETOOL job
  - JOBCARD, a sample JOBCARD for this system

- Put an "S" next to IEBUPDTE

```

      Menu Functions Confirm Utilities Help
SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
EDIT          SHARB09.RACFICE.CNTL                               Row 00001 of 00003
Command ==>                                         Scroll ==> DATA
      Name     Prompt     Size   Created       Changed      ID
ICETOOL          24 2011/02/25 2011/02/25 17:10:59 MARKAN
S IEBUPDTE        6 2011/02/25 2011/02/25 13:40:39 MARKAN
JOBCARD         3 2010/02/02 2011/02/25 13:28:37 MARKAN
**End**

```

F1=Help F2=Split F3=Exit F5=Rfind F7=Up F8=Down F9=Swap  
 F10=Left F11=Right F12=Cancel

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## Step 3: Creating your RACFICE Members

- Change the two occurrences of "SHARBNN" to your user ID

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT          SHARB09.RACFICE.CNTL(IEBUPDTE) - 01.03           Columns 00001 00072
Command ==>                                         Scroll ==> CSR
***** ***** Top of Data *****
==MSG> -CAUTION- Profile changed to CAPS ON (from CAPS OFF) because the
==MSG> data does not contain any lower case characters.
==MSG> -Warning- The UNDO command is not available until you change
==MSG> your edit profile using the command RECOVERY ON.
000100 //SHARBNNI JOB , 'UNLOAD RACFICE RPTS',CLASS=A,
000200 //          MSGLEVEL=(1,1),NOTIFY=&SYSUT1,MSGCLASS=H
000300 //UNLOAD  EXEC PGM=IEBUPDTE,PARM=NEW
000400 //SYSPRINT DD  SYSOUT=*
000500 //SYSUT2  DD  DSN=SHARBNN.ACFCICE.CNTL,DISP=SHR
000600 //SYSIN   DD  DSN=SYSL1.SAMPLIB(IRRICE),DISP=SHR
***** Bottom of Data *****

```

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## Step 3: Creating your RACFICE Members...

- Use the SUB command to submit the job.

```
File Edit Edit_Settings Menu Utilities Compilers Test Help
SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
EDIT      SHARB09.RACFICE.CNTL(IEBUPDTE) - 01.03          Columns 00001 00072
Command ==> SUB                                         Scroll ==> CSR
***** ***** Top of Data *****
==MSG> -CAUTION- Profile changed to CAPS ON (from CAPS OFF) because the
==MSG>      data does not contain any lower case characters.
==MSG> -Warning- The UNDO command is not available until you change
==MSG>      your edit profile using the command RECOVERY ON.
000100 //SHARB09I JOB  , 'UNLOAD RACFICE RPTS', CLASS=A,
000200 //          MSGLEVEL=(1,1), NOTIFY=&SYSUID, MSGCLASS=H
000300 //UNLOAD    EXEC PGM=IEBUPDTE, PARM=NEW
000400 //SYSPRINT DD   SYSOUT=*
000500 //SYSUT2   DD   DSN=SHARB09.RACFICE.CNTL, DISP=SHR
000600 //SYSIN    DD   DSN=SYS1.SAMPLIB(IRRICE), DISP=SHR
***** Bottom of Data *****
```

F1=Help F2=Split F3=Exit F5=Rfind F6=Rchange F7=Up  
F8=Down F9=Swap F10=Left F11=Right F12=Cancel

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## Step 3: Creating your RACFICE Members...

- Wait for the job completion message. MAXCC=0 is what you want. If you get something else, we'll have to go into SDSF to figure out what happened.

```
18.13.53 JOB16649 $HASP165 SHARB09I ENDED AT N1 MAXCC=0 CN(INTERNAL)
***
```

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### Step 3: Creating your RACFICE Members...

- Press “END” (PF3) twice to get back to this panel. Put an “e” in the command field.

```
Menu Options View Utilities Compilers Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
DSLIST - Data Sets Matching SHARB09.RACFICE
Command ===>                                     Row 1 of 1
                                                     Scroll ==> PAGE
Command - Enter "/" to select action           Message           Volume
-----                                         -----
e          SHARB09.RACFICE.CNTL                 SHTS07
***** End of Data Set list *****

F1=Help   F2=Split   F3=Exit   F5=Rfind   F7=Up       F8=Down   F9=Swap
F10=Left  F11=Right  F12=Cancel
```

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### Step 3: Creating your RACFICE Members...

- Whoa! Look at all the members! These were extracted from ‘SYS1.SAMPLIB’ by the IEBUPDTE job that you just submitted. This is the RACFICE report package.
- Select the \$\$CNTL\$\$ member by putting an “s” in the command column

```
Menu Functions Confirm Utilities Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT           SHARB09.RACFICE.CNTL             Row 00001 of 00091
Command ===>                                     Scroll ==> DATA
Name          Prompt      Size     Created      Changed    ID
-----        -----      ----      -----      -----      -----
$$_COPYR
s_          $$CNTL$$
$$_COPQ
$$_CHLQ
$$_ULAST90
ACDS
ACDS$CNTRL
ALDS
ALDS$CNTRL
ASOC
ASOC$CNTRL
BGGR
BGGR$CNTRL
CADU
CADU$CNTRL
CMD
CMD$CNTRL
F1=Help   F2=Split   F3=Exit   F5=Rfind   F7=Up       F8=Down   F9=Swap
F10=Left  F11=Right  F12=Cancel
```

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## Step 4: Preparing your first RACFICE Job

- Delete the first two lines of the file by putting a “d” at the front of the line number. Put a “b” on the third line, and put COPY JOBCARD on the command line.

```
File Edit Edit_Settings Menu Utilities Compilers Test Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT      SHARB09.RACFICE.CNTL($$CNTL$$) - 01.00          Columns 00001 00072
Command ==> COPY JOBCARD                                Scroll ==> CSR
***** ***** Top of Data *****
==MSG> -CAUTION- Profile changed to CAPS OFF (from CAPS ON) because data
==MSG> contains lower case characters.
==MSG> -Warning- The UNDO command is not available until you change
==MSG> your edit profile using the command RECOVERY ON.
==MSG> -CAUTION- Profile is set to STATS ON. Statistics did not exist for
==MSG> this member, but will be generated if data is saved.
d36800 //USER01I JOB MSGLEVEL=(0,0),CLASS=5,NOTIFY=&SYSUID,MSGCLASS=H
d36900 /*JOBPARM S=ANY,LINE=99
b37000 //*
137100 /**
137200 /* RACFICE - Create reports from RACF database unload utility
137300 /* (IRRDBU00) and RACF SMF unload utility (IRRADU00)
137400 /**
137500 /**
137600 /* RACF Database Reports
137700 /**
137800 /* Name Description
```

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## Step 4: Preparing your first RACFICE Job...

- The old job card will be deleted and one for this system inserted. Change the SHARBNN to your user ID

```
File Edit Edit_Settings Menu Utilities Compilers Test Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT      SHARB09.RACFICE.CNTL($$CNTL$$) - 01.00          Member JOBCARD copied
Command ==> COPY JOBCARD                                Scroll ==> CSR
***** ***** Top of Data *****
==MSG> -CAUTION- Profile changed to CAPS OFF (from CAPS ON) because data
==MSG> contains lower case characters.
==MSG> -Warning- The UNDO command is not available until you change
==MSG> your edit profile using the command RECOVERY ON.
==MSG> -CAUTION- Profile is set to STATS ON. Statistics did not exist for
==MSG> this member, but will be generated if data is saved.
000100 //SHARB09I JOB CLASS=A,MSGLEVEL=(1,1),MSGCLASS=H,NOTIFY=&SYSUID,
000200 /**
000300 /**
137000 /**
137100 /**
137200 /* RACFICE - Create reports from RACF database unload utility
137300 /* (IRRDBU00) and RACF SMF unload utility (IRRADU00)
137400 /**
137500 /**
137600 /* RACF Database Reports
137700 /**
F1=Help      F2=Split      F3=Exit      F5=Rfind      F6=Rchange    F7=Up
F8=Down     F9=Swap       F10=Left     F11=Right    F12=Cancel
```

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## Step 4: Preparing your first RACFICE Job...

- Press “scroll down” (PF8) approximately four (4) times until you see the data below.

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT SHARB09.RACFICE.CNTL($$CNTL$$) - 01.00 Columns 00001 0007
Command ==> sub
143200 /* VIOL Access violations
143300 /* WARN Accesses allowed due to WARNING mode profiles
143400 /*-----
143500 // JCLLIB ORDER=USER01.RACFICE.CNTL
143600 // SET ADUDATA=USER01.RACFICE.IRRADU00 IRRADU00 dat
143700 // SET DBUDATA=USER01.RACFICE.IRRDBU00 IRRDBU00 dat
143800 // SET ICECNTL=USER01.RACFICE.CNTL ICETOOL dat
143900 /*-----
144000 /*----- IRRDBU00-Based Reports -----
144100 /*-----
144200 //ALDS EXEC RACFICE,REPORT=ALDS
144300 //ASOC EXEC RACFICE,REPORT=ASOC
144400 //BGGR EXEC RACFICE,REPORT=BGGR
144500 //CCON EXEC RACFICE,REPORT=CCON
144600 //CGEN EXEC RACFICE,REPORT=CGEN
144700 //CPRO EXEC RACFICE,REPORT=CPRO
144800 //CONN EXEC RACFICE,REPORT=CONN
144900 //GRPM EXEC RACFICE,REPORT=GRPM
F1=Help F2=Split F3=Exit F5=Rfind F6=Rchange F7=Up
F8=Down F9=Swap F10=Left F11=Right F12=Cancel

```

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## Step 4: Preparing your first RACFICE Job...

- Change
  - the JCLLIB statement to 'SHARBnn.RACFICE.CNTL', where nn=you
  - ADUDATA to MARKAN.SAMPLE.IRRADU00
  - DBYDATA to MARKAN.SAMPLE.IRRDBU00
  - ICECNTL to SHARBnn.RACFICE.CNTL, where nn = you
- Type SUB on the command line to submit the job
- Wait for the job completion message. MAXCC=0 is what we want. If you don't get it, we'll need to go into SDSF to figure out what happened.

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT SHARB09.RACFICE.CNTL($$CNTL$$) - 01.00 Columns 00001 0007
Command ==> sub
143200 /* VIOL Access violations
143300 /* WARN Accesses allowed due to WARNING mode profiles
143400 /*-----
143500 // JCLLIB ORDER=SHARB09.RACFICE.CNTL
143600 // SET ADUDATA=MARKAN SAMPLE.IRRADU00 IRRADU00 data
143700 // SET DBUDATA=MARKAN SAMPLE.IRRDBU00 IRRDBU00 data
143800 // SET ICECNTL=SHARB09.RACFICE.CNTL ICETOOL data
143900 /*-----
144000 /*----- IRRDBU00-Based Reports -----
144100 /*-----
144200 //ALDS EXEC RACFICE,REPORT=ALDS
144300 //ASOC EXEC RACFICE,REPORT=ASOC
144400 //BGGR EXEC RACFICE,REPORT=BGGR
144500 //CCON EXEC RACFICE,REPORT=CCON
144600 //CGEN EXEC RACFICE,REPORT=CGEN
144700 //CPRO EXEC RACFICE,REPORT=CPRO
144800 //CONN EXEC RACFICE,REPORT=CONN
144900 //GRPM EXEC RACFICE,REPORT=GRPM

```

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## Step 5: Looking at the RACFICE Output

- Press PF2 to start a second ISPF session and enter S.H on the command line to start SDSF to look at the output

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT      SHARB09.RACFICE.CNTL($$CNTL$$) - 01.00          Columns 00001 00072
----- SHARE ISPF 6.1 SCROLLABLE PRIMARY OPTION MENU ----- SI
OPTION ==> s.h

D Alternate Dialog ==> CMD(?????)           More: +
D2 Alternate Dialog ==> PANEL(?????)

The time is 6:39 p.m. on Friday, February 25, 2011 (2011.056)
Your uid is SHARB09 dsn prefix is SHARB09 proc is SHARE sys is SI

0   SETTINGS   - Specify ISPF parameters
1   VIEW        - View source data or output listing
1P  VIEW-OE    - View/Browse files in the Open Edition file system
2   EDIT         - Create or change source data
2P  EDIT-OE    - Edit files in the Open Edition file system
3   UTILITIES   - Perform utility functions
3P  ISHELL-OE   - Open Edition ISPF shell
4   FOREGROUND  - Invoke language processors in foreground
5   BATCH        - Submit job for language processing
F1=HELP     F2=SPLIT    F3=END      F4=RETURN   F5=RFINDD   F6=RCHANGE
F7=UP       F8=DOWN     F9=SWAP     F10=LEFT    F11=RIGHT   F12=RETRIEVE

```

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## Step 5: Looking at the RACFICE Output...

- You will see a couple of jobs. The last one (SHARBnnJ) is the one that you just submitted. Put an s in the NP and press enter to review your job

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT      SHARB09.RACFICE.CNTL($$CNTL$$) - 01.00          Columns 00001 00072
----- SDSF HELD OUTPUT DISPLAY ALL CLASSES LINES 6,501      LINE 1-2 (2)
COMMAND INPUT ==>                                         SCROLL ==> CSR
NP  JOBNAM JobID   Owner   Prty C ODisp Dest   Tot-Rec Tot-
    SHARB091 JOB16649 SHARB09  144 H HOLD LOCAL      1,753
s  SHARB091 JOB16654 SHARB09  128 H HOLD LOCAL      4,748

```

```

F1=HELP     F2=SPLIT    F3=END      F4=RETURN   F5=IFIND    F6=BOOK
F7=UP       F8=DOWN     F9=SWAP     F10=LEFT    F11=RIGHT   F12=RETRIEVE

```

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## Step 5: Looking at the RACFICE Output...

- Scroll up and down and look at some of the reports that have been created. Note that many will be empty as there isn't data relevant to all of the reports.
- Next, we'll run a short report that you will tailor. To do that, swap back to your member edit screen (PF9) and END out of that member with PF3

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## Step 6: Running your own ICETOOL Report

- Select the member ICETOOL by typing “s icetool” on the command line

```

      Menu Functions Confirm Utilities Help
      sssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
      EDIT          SHARB09.RACFICE.CNTL           Member $$CNTL$$ saved
      Command ---> s ICETOOL                      Scroll ---> DATA
      Name        Prompt      Size   Created       Changed      ID
      $$CNTL$$ *Edited     118  2011/02/25 2011/02/25 18:48:26 SHARB09
      $CFQG
      $CHLQ
      $ULAST90
      ACD$
      ACD$CNTL
      ALDS
      ALDSCNTL
      ASCC
      ASCCCNTL
      BGGR
      BGGRCNTL
      F1=Help    F2=Split   F3=Exit    F5=Rfind   F7=Up      F8=Down    F9=Swap
      F10=Left   F11=Right  F12=Cancel
      Display   Filter View Print Options Search Help
      SDSF OUTPUT DISPLAY SHARB09J JOB16654 DSID      2 LINE 0      COLUMNS 02- 81
      COMMAND INPUT ===> SCROLL ===> CSR
  
```

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## Step 6: Running your own ICETOOL Report...

- Change the jobname to SHARBnn where “nn” is you
- This report shows all of the users whose user ID starts with ‘TEST’. How?

```
File Edit Edit_Settings Menu Utilities Compilers Test Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT      SHARB09.RACFICE.CNTL(ICETOOL) - 01.01          Columns 00001 00072
Command ==>                                         Scroll ==> CSR
***** ***** Top of Data *****
==MSG> -CAUTION- Profile changed to CAPS OFF (from CAPS ON) because data
==MSG> contains lower case characters.
==MSG> -Warning- The UNDO command is not available until you change
==MSG> your edit profile using the command RECOVERY ON.
000010 //SHARBNNI JOB CLASS=A,MSGLEVEL=(1,1),MSGCLASS=H,NOTIFY=&SYSUID,
000020 //           REGION=0M
000030 /* -----
000040 //RACFICE  EXEC PGM=ICETOOL,PARM='MSGPRT=ALL'
000050 //TOOLMSG  DD SYSOUT=*
000060 //PRINT    DD SYSOUT=*
000070 //DFSMSG   DD SYSOUT=*
000080 //DBUDATA  DD DISP=SHR,DSN=MARKAN.SAMPLE.IRRDBU00
```

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## Step 6: Running your own ICETOOL Report...

- Scroll down to the TITLE line and change the title to something else. Don't go too long, though.....
- The INCLUDE statement selects the records that are in the report. We're only looking for TEST user IDs in this example
- Submit the job by typing "sub" on the command line
- Swap your session (PF9), which takes you back into SDSF, and select your job

```
File Edit Edit_Settings Menu Utilities Compilers Test Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT      SHARB09.RACFICE.CNTL(ICETOOL) - 01.02          Columns 00001 00072
Command ==> sub                                         Scroll ==> CSR
000500 PAGE      -
000600 TITLE('My report title')  -
000700 DATE(YMD/)   -
000800 TIME(12:)   -
000900 BLANK      -
001000 ON(10,8,CH) HEADER('User ID')
001100 /*
001200 //TSTUCNTL DD *
001300 SORT    FIELDS=COPY
001400 INCLUDE COND=(5,4,CH,EQ,C'0200',AND,10,4,CH,EQ,C'TEST')
001500 /*
```

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## Step 6: Running your own ICETOOL Report...

- To see the output of your job, PF3 to end stop looking at the prior job. Then, select your last job from the SDSF job list. The output of your ICETOOL job is show below.
- Once you're done looking at it, PF9 (SWAP) to get to the report JCL

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT      SHARB09.RACFICE.CNTL(ICETOOL) - 01.02      Columns 00001 00072
Command ==>                                         Scroll ==> CSR
Display Filter View Print Options Search Help
----- SDSF OUTPUT DISPLAY SHARB09I JOB16655 DSID 104 LINE 1      COLUMNS 02- 81
COMMAND INPUT ==>                               SCROLL ==> CSR
- 1 -           My report title       11/02/25      06:54:10 pm

User ID
-----
TESTUSER
TEST0001
TEST0002
TEST0003
TEST0004
TEST0005
TEST0006
TEST0007

```

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## Step 7: Adding Fields to your own ICETOOL Report

- Let's add a few fields to your report. Using the information from the USER BASIC DATA record in RACF Macros and Interfaces. Pick a few fields and add them to the report as ON(fieldname) statements. A copy of things to remember
  - Always add 4 to the starting position document in Macros and Interfaces to account for the record descriptor word
  - Remember to add the DFSORT character ("") to each record (except the last)
- Type 'sub' on the command line to submit the job.

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT      SHARB09.RACFICE.CNTL(ICETOOL) - 01.02      Columns 00001 00072
Command ==>                                         Scroll ==> CSR
000200 //TOOLIN DD *
000300 SORT FROM(DBUDATA) TO(TEMP01) USING(TSTU)
000400 DISPLAY FROM(TEMP01) LIST(PRINT) -
000500 PAGE -
000600 TITLE('My Report Title') -
000700 DATE(YMD) -
000800 TIME(12:) -
000900 BLANK -
001000 ON(10,8,CH) HEADER('User ID') -
001010 ON(44,4,CH) HEADER('Special') -
001011 ON(49,4,CH) HEADER('Operations') -
001012 ON(390,4,CH) HEADER('Auditor') -
001020 ON(10,8,CH) HEADER('Last Job Date')
001100 /*
F1=Help   F2=Split   F3=Exit   F5=Rfind   F6=Rchange   F7=Up
F8=Down   F9=Swap    F10=Left   F11=Right  F12=Cancel
Display Filter View Print Options Search Help
----- SDSF OUTPUT DISPLAY SHARB09I JOB16656 DSID 103 LINE 20      COLUMNS 02- 81

```

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## Step 7: Adding Fields to your own ICETOOL Report...

- PF9 to swap back to SDSF to look at your report. Since you are still looking at the last report, PF3 to end looking at it and then select your last job.

```
File Edit Edit_Settings Menu Utilities Compilers Test Help
SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
EDIT      SHARB09.RACFICE.CNTL(ICETOOL) - 01.02          Columns 00001 00072
Display Filter View Print Options Search Help
-----
SDSF OUTPUT DISPLAY SHARB09I JOB16678  DSID  104 LINE 0      COLUMNS 02- 81
COMMAND INPUT ==>                               SCROLL ==> CSR
***** TOP OF DATA *****
- 1 -      My Report Title      11/02/26      12:11:18 am
User ID   Special   Operations   Auditor   Last Job Date
-----
TESTUSER  NO       NO           NO        TESTUSER
TEST001   NO       NO           NO        TEST001
TEST002   NO       NO           NO        TEST002
TEST003   NO       NO           NO        TEST003
TEST004   NO       NO           NO        TEST004
TEST005   NO       NO           NO        TEST005
TEST006   NO       NO           NO        TEST006
TEST007   NO       NO           NO        TEST007
TEST008   NO       NO           NO        TEST008
F1=HELP   F2=SPLIT   F3=END     F4=RETURN   F5=IFIND   F6=BOOK
F7=UP    F8=DOWN    F9=SWAP    F10=LEFT    F11=RIGHT  F12=RETRIEVE
```

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## Step 8: Running a Single RACFICE Report

- It's easy to run a single RACFICE report by commenting out all of the reports that we don't want.
- Press PF9 to swap back to the 'SHARBnn.RACFICE.CNTL(ICETOOL)'
- Press PF3 to exit this member
- Scroll to the top and select the \$\$CNTL\$\$ member by placing an "s" in the "Command" line

```
Menu Functions Confirm Utilities Help
SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
EDIT      SHARB09.RACFICE.CNTL      Row 00002 of 00091
Command ==>                               Scroll ==> DATA
          Name   Prompt      Size   Created   Changed   ID
s_____ $$CNTL$$          119  2011/06/14  2011/06/14 22:32:25  SHARB09
_____
$CFQG
_____
$CHLO
_____
$ULAST90
_____
ACDS
_____
ACD$CNTL
_____
ALDS
_____
ALDSCNTL
_____
ASOC
_____
ASOCCNTL
_____
BGGR
_____
BGRGCNTL
_____
CADU
F1=Help   F2=Split   F3=Exit     F5=Rfind   F7=Up      F8=Down   F9=Swap
F10=Left  F11=Right  F12=Cancel
Display Filter View Print Options Search Help
-----
SDSF OUTPUT DISPLAY SHARB09I JOB20835  DSID  104 LINE 4      COLUMNS 02- 81
```

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## Step 8: Running a Single RACFICE Report...

- Comment out all of the job steps except the UGLB job step by making the first three characters of the job step “//”
- Be sure to comment all of the other job steps!

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT      SHARB09.RACFICE.CNTL($$CNTL$$) - 01.01          Columns 00001 00072
Command ===>
146000 //**UADS    EXEC RACFICE,REPORT=UADS
146100 //**UAGR    EXEC RACFICE,REPORT=UAGR
146200 //**UGLB    EXEC RACFICE,REPORT=UGLB
146300 //**UGRP    EXEC RACFICE,REPORT=UGRP
146400 //**UIDS    EXEC RACFICE,REPORT=UIDS
146500 //**URVK    EXEC RACFICE,REPORT=URVK
146600 //**WNDS    EXEC RACFICE,REPORT=WNDS
146700 //**WNGR    EXEC RACFICE,REPORT=WNGR
146800 //*----- IRRADU00-Based Reports -----
146900 //*-----
147000 //**ACD$    EXEC RACFICE,REPORT=ACDS
147200 //**CADU    EXEC RACFICE,REPORT=CADU
147300 //**CMD     EXEC RACFICE,REPORT=CMD
F1=Help   F2=Split   F3=Exit    F5=Rfind   F6=Rchange  F7=Up
F8=Down   F9=Swap    F10=Left   F11=Right  F12=Cancel
Display  Filter  View  Print  Options  Search  Help
----- SDSF OUTPUT DISPLAY SHARB09I JOB20835 DSID  104 LINE 4      COLUMNS 02- 81

```

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## Step 8: Running a Single RACFICE Report...

- Submit the job by typing “sub” on the command line

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT      SHARB09.RACFICE.CNTL($$CNTL$$) - 01.01          Columns 00001 00072
Command ===> sub
145800 //**PCAM    EXEC RACFICE,REPORT=PCAM
145900 //**SUPU    EXEC RACFICE,REPORT=SUPU
146000 //**UADS    EXEC RACFICE,REPORT=UADS
146100 //**UAGR    EXEC RACFICE,REPORT=UAGR
146200 //**UGLB    EXEC RACFICE,REPORT=UGLB
146300 //**UGRP    EXEC RACFICE,REPORT=UGRP
146400 //**UIDS    EXEC RACFICE,REPORT=UIDS
146500 //**URVK    EXEC RACFICE,REPORT=URVK
146600 //**WNDS    EXEC RACFICE,REPORT=WNDS
146700 //**WNGR    EXEC RACFICE,REPORT=WNGR
146800 //*----- IRRADU00-Based Reports -----
146900 //*-----
147000 //**ACD$    EXEC RACFICE,REPORT=ACDS
F1=Help   F2=Split   F3=Exit    F5=Rfind   F6=Rchange  F7=Up
F8=Down   F9=Swap    F10=Left   F11=Right  F12=Cancel
Display  Filter  View  Print  Options  Search  Help
----- SDSF OUTPUT DISPLAY SHARB09I JOB20835 DSID  104 LINE 4      COLUMNS 02- 81

```

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## Step 8: Running a Single RACFICE Report...

- Press PF9 to swap to the SDSF session and select your job
- PF3 (from the SDSF screen) to return back to the selection list
- Select your job by putting an "s" in the "NP" column
- Scroll down to the bottom of the job. This is the "Users with Extraordinary Authorities" report

```

File Edit Settings Menu Utilities Compilers Test Help
SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
EDIT      SHARB09.RACFICE.CNTL($$CNTL$) - 01.01          Columns 00001 00072
Display Filter View Print Options Search Help
-----
SDSF OUTPUT DISPLAY SHARB09J JOB20836 DSID 101 LINE 1      COLUMNS 02- 81
COMMAND INPUT ==>                                         SCROLL ==> CSR
- 1 -           UGLB: Users with Extraordinary Authorities   11/06/14   1

User ID      User Name      Special     Operations    Auditor
-----
ADRIAN      #####      YES        YES        YES
IBMUSER     #####      YES        YES        YES
MARKN       #####      YES        YES        YES
ORIP        #####      YES        YES        YES
USAUDT      #####      NO         NO         YES
USOPER      #####      NO         YES        NO
USSPEC      #####      YES        NO         NO
USSPEC$Y    SPECIAL    YES        NO         NO
F1=HELP     F2=SPLIT   F3=END    F4=RETURN   F5=IFIND   F6=BOOK
F7=UP       F8=DOWN    F9=SWAP   F10=LEFT    F11=RIGHT  F12=RETRIEVE

```

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## Step 8: Running a Single RACFICE Report...

- Let's change this to find only those user IDs who have SPECIAL, OPERATIONS and AUDITOR
- Press PF9 to swap back to 'SHARBnn.RACFICE.CNTL'
- Press PF3 to end editing the \$\$CNTL\$\$ member.
- Scroll down to the members that start with UGLB
- Select the UGLBCNTL member by placing an "s" in the "Command" line

```

Menu Functions Confirm Utilities Help
SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
EDIT      SHARB09.RACFICE.CNTL      Row 00069 of 00091
Command ==>                                         Scroll ==> DATA
          Name      Prompt      Size      Created      Changed      ID
_____
SUPUCNTL
_____
TRMF
_____
TRMPCNTL
_____
UADS
_____
UADSCNTL
_____
UAGR
_____
UAGRCNTL
_____
UGLB
_____
UGLP
_____
UGRPCNTL
_____
UIDS
_____
UIDSCNTL
F1=Help   F2=Split   F3=Exit   F5=Rfind   F7=Up      F8=Down   F9=Swap
F10=Left  F11=Right  F12=Cancel
Display Filter View Print Options Search Help
-----
SDSF OUTPUT DISPLAY SHARB09J JOB20836 DSID 101 LINE 1      COLUMNS 02- 81

```

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## Step 8: Running a Single RACFICE Report...

- This member contains the selection criteria for the report. This is done by examining the fields (columns) which have a 'YES' if the user ID has the attribute. These fields are in columns 44 (SPECIAL), 49 (OPERATIONS) and 390 (AUDITOR).
- To select only those users who have the SPECIAL, OPERATIONS, and AUDITOR attribute, change the "OR" that joins these tests to an "AND" on the third and fourth line in the member.

```
File Edit Edit_Settings Menu Utilities Compilers Test Help
SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
EDIT      SHARB09.RACFICE.CNTL(UGLBCNTL) - 01.00          Columns 00001 00072
Command ==>                                         Scroll ==> CSR
***** ***** Top of Data *****
==MSG> -CAUTION- Profile is set to STATS ON. Statistics did not exist for
this member, but will be generated if data is saved.
=MSG>
115400 SORT   FIELDS=(10,8,CH,A)
115500 INCLUDE COND=(5,4,CH,EQ,C'0200',AND,
                   (44,3,CH,EQ,C'YES',AND,
                   49,3,CH,EQ,C'YES',AND,
                   390,3,CH,EQ,C'YES'))
115600
115700
115800
115900 OPTION VLSHRT
***** Bottom of Data *****

F1=Help      F2=Split      F3=Exit      F5=Rfind      F6=Rchange    F7=Up
F8=Down      F9=Swap       F10=Left     F11=Right     F12=Cancel
Display  Filter View Print Options Search Help
----- SDSF OUTPUT DISPLAY SHARB09J JOB20836 DSID 101 LINE 1      COLUMNS 02- 81
```

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## Step 8: Running a Single RACFICE Report...

- PF3 to save the UGLBCNTL member.
- Scroll to the top and select the \$\$CNTL\$\$ member and submit the job.
- PF9 to swap to SDSF.
- PF3 to back out of the last job's output and then select the most recently submitted job by placing an 's' in the 'NP' column
- Note that we only see the users who have all of the authorities!

```
File Edit Edit_Settings Menu Utilities Compilers Test Help
SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
EDIT      SHARB09.RACFICE.CNTL($$CNTL$$) - 01.01          Columns 00001 00072
Display  Filter View Print Options Search Help
----- SDSF OUTPUT DISPLAY SHARB09J JOB20837 DSID 101 LINE 1      COLUMNS 02- 81
COMMAND INPUT ==>                                         SCROLL ==> CSR
- 1 -          UGLB: Users with Extraordinary Authorities   11/06/14      1
User ID      User Name      Special      Operations      Auditor
----- #####
ADRIAN      #####      YES      YES      YES
IBMUSER     #####      YES      YES      YES
MARKN       #####      YES      YES      YES
ORIP        #####      YES      YES      YES
***** BOTTOM OF DATA *****

F1=HELP      F2=SPLIT      F3=END      F4=RETURN      F5=IFIND      F6=BOOK
F7=UP      F8=DOWN      F9=SWAP      F10=LEFT     F11=RIGHT     F12=RETRIEVE
```

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## Step 9: Finding Users Connected to More than “x” Groups

- Let's make a different type of change to a report. The CONN report shows the users who have more than 100 connections to groups. Let's change that limit from 100 connections to two.
- Press PF9 to swap back to the 'SHARB09.RACFICE.CNTL(ICETOOL)'
- Press PF3 to exit the \$\$CNTL\$\$ member.
- Scroll to the top and select the CCON member by placing an "s" in the "Command" line

```

Menu Functions Confirm Utilities Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT           SHARB09.RACFICE.CNTL          Row 00014 of 00091
Command ==>                               Scroll ==> DATA
      Name   Prompt    Size   Created   Changed   ID
_____
  CADU
  CADUCNTL
  CCMD
  CCMDCNTL
s  CCON
  CCONCNTL
  CGEN
  CGENCNTL
  CONN
  CONNCNTL
  CPRO
  CPROCNTL
  CUGS
F1=Help   F2=Split   F3=Exit   F5=Rfind   F7=Up     F8=Down   F9=Swap
F10=Left  F11=Right  F12=Cancel
Display  Filter  View  Print  Options  Search  Help
----- SDSF HEHD OUTPUT DISPLAY ALL CLASSES LINES 7,459 COMMAND ISSUED

```

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## Step 9: Finding Users Connected to More than “x” Groups...

- Scroll down and change the "HIGHER(100)" statement to "HIGHER(2)".

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT           SHARB09.RACFICE.CNTL(CCON) - 01.01          Columns 00001 00072
Command ==>                               Scroll ==> CSR
050000 * The ICETOOL "HIGHER(x)" keyword is used to set the failure *
050100 * threshold.
050200 ****
050300 COPY   FROM(DBUDATA) TO(TEMP0001) USING(RACF)
050400 OCCURS  FROM(TEMP0001) LIST(PRINT) -
050500 PAGE -
050600 TITLE('CCON: Users With More Than 100 Group Connections') -
050700 DATE(YMD/) -
050800 TIME(12:) -
050900 BLANK -
051000 ON(10,8,CH) HEADER('User ID') -
051100 ON(VALCNT) HEADER('Number of Group Connections') -
051200 HIGHER(2)
***** Bottom of Data *****
F1=Help   F2=Split   F3=Exit   F5=Rfind   F6=Rchange   F7=Up
F8=Down  F9=Swap   F10=Left  F11=Right  F12=Cancel
Display  Filter  View  Print  Options  Search  Help
----- SDSF HEHD OUTPUT DISPLAY ALL CLASSES LINES 7,459 COMMAND ISSUED

```

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## Step 9: Finding Users Connected to More than “x” Groups...

- PF3 to exit the CCON member and scroll up and select the \$\$\$CNTL\$\$ member. Comment out all of the job steps except the CCON step.
- Submit the job by placing “sub” on the command line

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT      SHARB09.RACFICE.CNTL($$CNTL$$) - 01.03          Columns 00001 00072
Command ==> sub                                         Scroll ==> CSR
143500 //          JCLLIB ORDER=SHARB09.RACFICE.CNTL
143600 //          SET ADUDATA=MARKAN.SAMPLE.IRRADU00        IRRADU00 data
143700 //          SET DBUDATA=MARKAN.SAMPLE.IRRDBU00        IRRDBU00 data
143800 //          SET ICECNTL=SHARB09.RACFICE.CNTL         ICETOOL data
143900 //-----*
144000 //-----* IRRDBU00-Based Reports -----
144100 //-----*
144200 //**ALDS   EXEC RACFICE,REPORT=ALDS
144300 //**ASOC   EXEC RACFICE,REPORT=ASOC
144400 //**BGGR   EXEC RACFICE,REPORT=BGGR
144500 //**CCON   EXEC RACFICE,REPORT=CCON
144600 //**CGEN   EXEC RACFICE,REPORT=CGEN
144700 //**CPRO   EXEC RACFICE,REPORT=CPRO
144800 //**CONN   EXEC RACFICE,REPORT=CONN
F1=Help      F2=Split     F3=Exit      F5=Rfind      F6=Rchange    F7=Up
F8=Down      F9=Swap      F10=Left     F11=Right     F12=Cancel
Display Filter View Print Options Search Help
-----*
SDSF HEHD OUTPUT DISPLAY ALL CLASSES LINES 7,459           COMMAND ISSUED

```

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## Step 9: Finding Users Connected to More than “x” Groups...

- PF9 to swap to SDSF
- PF3 to exit the current job output and select the most recently submitted job by placing a “s” in the “NP” column
- Note the new groups which match the new threshold.
- Why is the number of groups to which a user is connected an issue? Users with “large” numbers of connects can be an indication of an organization which has not cleaned up its group memberships.

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT      SHARB09.RACFICE.CNTL($$CNTL$$) - 01.03          Columns 00001 00072
Display Filter View Print Options Search Help
-----*
SDSF OUTPUT DISPLAY SHARB09J JOB20844 DSID 101 LINE 1      COLUMNS 02-- 81
COMMAND INPUT ==>                                          SCROLL ==> CSR
- 1 -          CCON: Users With More Than 100 Group Connections  11/06/15

User ID      Number of Group Connections
-----
UAUTH$CO          3
UAUTH$CR          3
UAUTH$JO          3
UAUTH$US          3
***** BOTTOM OF DATA *****

F1=HELP      F2=SPLIT     F3=END      F4=RETURN     F5=IFIND      F6=BOOK
F7=UP       F8=DOWN      F9=SWAP     F10=LEFT     F11=RIGHT     F12=RETRIEVE

```

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## Step 10: Adding Selection Criteria

- Let's see how to add selection criteria to a report. In this example, we have a report has too much information. The report that we are altering is the URVK report, which lists the user IDs which have been revoked. First, let's run this report as it is shipped in 'SYS1.SAMPLIB(IRRICE)'.
- Press PF9 to swap back to the 'SHARBnn.RACFICE.CNTL(\$\$CNTL\$\$)'.
- Comment out all of the job steps except the URVK job step and submit the job.

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT      SHARB09.RACFICE.CNTL($$CNTL$$) - 01.04          Columns 00001 00072
Command ==> sub                                Scroll ==> CSR
146100 /*UAGR     EXEC RACFICE,REPORT=UAGR
146200 /*UGLB     EXEC RACFICE,REPORT=UGLB
146300 /*UGRP     EXEC RACFICE,REPORT=UGRP
146400 /*UIDS     EXEC RACFICE,REPORT=UIDS
146500 /*URVK     EXEC RACFICE,REPORT=URVK
146600 /*WNDS     EXEC RACFICE,REPORT=WNDS
146700 /*WNGR     EXEC RACFICE,REPORT=WNGR
146800 /*-----
146900 /*----- IRRADU00-Based Reports -----
147000 /*-----
147100 /*ACD$     EXEC RACFICE,REPORT=ACD$
147200 /*CADU     EXEC RACFICE,REPORT=CADU
147300 /*CCMD     EXEC RACFICE,REPORT=CCMD
147400 /*ECD$     EXEC RACFICE,REPORT=ECD$
F1=Help   F2=Split  F3=Exit    F5=Rfind    F6=Rchange  F7=Up
F8=Down  F9=Swap   F10=Left   F11=Right  F12=Cancel
Display  Filter  View  Print  Options  Search  Help
----- SDSF OUTPUT DISPLAY SHARB09J JOB20834 DSID  124 LINE 2        COLUMNS 01- 80

```

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## Step 10: Adding Selection Criteria...

- PF9 to swap to SDSF
- PF3 to exit the current job output and select the most recently submitted job by placing a "s" in the "NP" column
- Note that the users which are revoked. Note that the list includes some user IDs which are shipped by IBM and are "anchor" user IDs and can't be used as real users.

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT      SHARB09.RACFICE.CNTL($$CNTL$$) - 01.04          Columns 00001 00072
COMMAND INPUT ==>
Display  Filter  View  Print  Options  Search  Help
----- SDSF OUTPUT DISPLAY SHARB09J JOB20834 DSID  123 LINE 4        COLUMNS 01- 80
SCROLL ==> CSR
1- 1 -      URVK: User IDs Which are Currently Revoked       11/06/14
User ID    User Name
-----
irrcerta  CERTAUTH Anchor
irmulti   Criteria Anchor
irrsited  SITE Anchor
URVK$Y    REVOKED
1- 1 -      WNDS: DS Profiles with in WARNING Mode           11/06/14      10:3
Data Set Name           Volume   Owner    UACC
-----
DTEST.WARNING.YES,*          DTEST      NONE
F1=HELP    F2=SPLIT    F3=END    F4=RETURN   F5=IFIND    F6=BOOK
F7=UP     F8=DOWN     F9=SWAP   F10=LEFT   F11=RIGHT  F12=RETRIEVE

```

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## Step 10: Adding Selection Criteria...

- Let's add the code to delete these user IDs from the list.
- PF9 to swap back to 'SHARBnn.RACFICE.CNTL'
- PF3 to exit the \$\$CNTL\$\$ member
- Select the "URVKCNTL" member
- Note the selection criteria: If this is a "User Basic Data" record (0200) and the revoked flag (column 54) is set to "YES"

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT      SHARB09.RACFICE.CNTL(URVKCNTL) - 01.00          Columns 00001 00072
Command ==>                                         Scroll ==> CSR
***** ***** Top of Data *****
==MSG> -CAUTION- Profile is set to STATS ON. Statistics did not exist for
==MSG>           this member, but will be generated if data is saved.
122000  SORT    FIELDS=(10,8,CH,A)
122100  INCLUDE COND=(5,4,CH,EQ,C'0200',AND,
122200                           54,3,CH,EQ,C'YES')
122300  OPTION  VLSHRT
***** Bottom of Data *****

```

F1=Help F2=Split F3=Exit F5=Rfind F6=Rchange F7=Up  
 F8=Down F9=Swap F10=Left F11=Right F12=Cancel

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## Step 10: Adding Selection Criteria...

- The logic that we want to add is to remove the user IDs which start with "irr" from the report
- To ensure that ISPF doesn't fold our lower case data to upper case, enter the command "caps off" on the command line

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT      SHARB09.RACFICE.CNTL(URVKCNTL) - 01.01          Columns 00001 00072
Command ==> caps off                                         Scroll ==> CSR
***** ***** Top of Data *****
==MSG> -Warning- The UNDO command is not available until you change
==MSG>           your edit profile using the command RECOVERY ON.
122000  SORT    FIELDS=(10,8,CH,A)
122100  INCLUDE COND=(5,4,CH,EQ,C'0200',AND,
122200                           54,3,CH,EQ,C'YES')
122300  OPTION  VLSHRT
***** Bottom of Data *****

```

F1=Help F2=Split F3=Exit F5=Rfind F6=Rchange F7=Up  
 F8=Down F9=Swap F10=Left F11=Right F12=Cancel  
 Display Filter View Print Options Search Help  
 SDSF OUTPUT DISPLAY SHARB09J JOB20834 DSID 123 LINE 4 COLUMNS 01- 80

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## Step 10: Adding Selection Criteria...

- Now, let's add the selection criteria to eliminate the user IDs which start with "irr" from the report.
- Since the report already contains all of the user IDs that we want and only a few that we don't, the simplest solution is to exclude the records that we don't want. The logic that we want to add is to remove the user IDs which start with "irr" from the report
- The line that we add is "10,3,CH,NE,C'irr'" which is "include only those records where in column 10 (the profile name field) the value is not "irr"."
- PF3 to exit the URVKCNT member.

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT      SHARB09.RACFICE.CNTL(URVKCNTL) - 01.01          Columns 00001 00072
Command ==>                                         Scroll ==> CSR
***** ***** Top of Data *****
=MSG> -Warning- The UNDO command is not available until you change
=MSG> your edit profile using the command RECOVERY ON.
122000  SORT   FIELDS=(10,8,CH,A)
122100  INCLUDE COND=(5,4,CH,EQ,C'0200',AND,
122110           10,3,CH,NE,C'irr',AND,
122200           54,3,CH,EQ,C'YES')
122300  OPTION VLSHRT
***** Bottom of Data *****

F1=Help     F2=Split     F3=Exit      F5=Rfind     F6=Rchange   F7=Up
F8=Down     F9=Swap      F10=Left     F11=Right    F12=Cancel
Display   Filter View Print Options Search Help
----- SDSF OUTPUT DISPLAY SHARB09J JOB20834 DSID 123 LINE 4      COLUMNS 01- 80

```

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## Step 10: Adding Selection Criteria...

- Scroll up and select the \$\$CNTL\$\$ member.
- Submit the job by entering "sub" on the command line.
- PF9 to swap to SDSF
- PF3 to exit the last report
- Select the most recent job output by placing a "s" in the "NP" column
- Examine the report output. Note that the "irr" user IDs are no longer shown!

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
EDIT      SHARB09.RACFICE.CNTL($$CNTL$$) - 01.04          Columns 00001 00072
Display   Filter View Print Options Search Help
----- SDSF OUTPUT DISPLAY SHARB09J JOB20846 DSID 101 LINE 1      COLUMNS 02- 81
COMMAND INPUT ==>                                         SCROLL ==> CSR
1 -          URVK: User IDs Which are Currently Revoked      11/06/15      1
ser ID     User Name
-----
REVKSY     REVOKED
***** BOTTOM OF DATA *****

F1=HELP     F2=SPLIT     F3=END      F4=RETURN     F5=IFIND     F6=BOOK
F7=UP      F8=DOWN      F9=SWAP     F10=LEFT     F11=RIGHT    F12=RETRIEVE

```

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## Summary

- We've just scratched the surface... there are so many reports that you can create....
- In the remaining time in the lab, try a few more report modifications.
- Look at the 'SYS1.SAMPLIB(IRRICE)' reports... there are a lot of interesting techniques used there
- Look at the RACF Downloads section of the RACF web page  
–[www.ibm.com/racf](http://www.ibm.com/racf) resources->downloads
- The "Introduction to DFSORT" manual is \*outstanding\* and
- ...and if you have any questions, please e-mail me!

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