



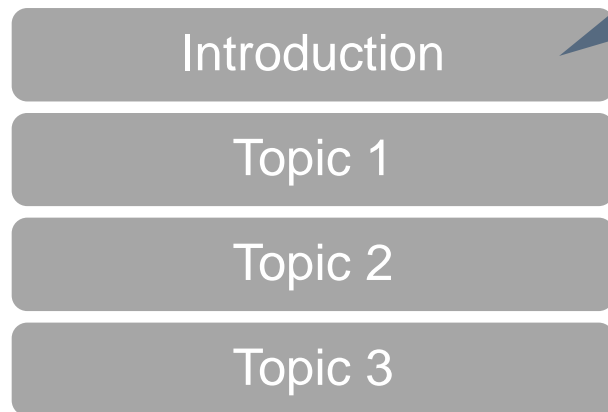
# HORIZONT

## XINFO – Getting Started – Dialog ISPF

How to use XINFO ISPF Dialog

# How to use this presentation

This training should be done in sequential order. It helps you to understand the basic ideas of XINFO. But the best way to learn about XINFO: Just use it!



If you don't like to use this training in sequential order:  
An index before each chapter allows you to navigate ...

Click on this symbol  
to jump to the  
overview slide

# AGENDA

## XINFO – Getting Started – Dialog ISPF

### How to use XINFO

#### Chapter 1

##### What is XINFO

A brief introduction and a technical overview to XINFO

#### Chapter 2

##### PC Client Basics

(via link to HORIZONT homepage)

##### ISPF Dialog Basics

(via link to HORIZONT homepage)

Learn about the XINFO client you prefer to use

#### Chapter 3

##### XINFO Modules

(via link to HORIZONT homepage)

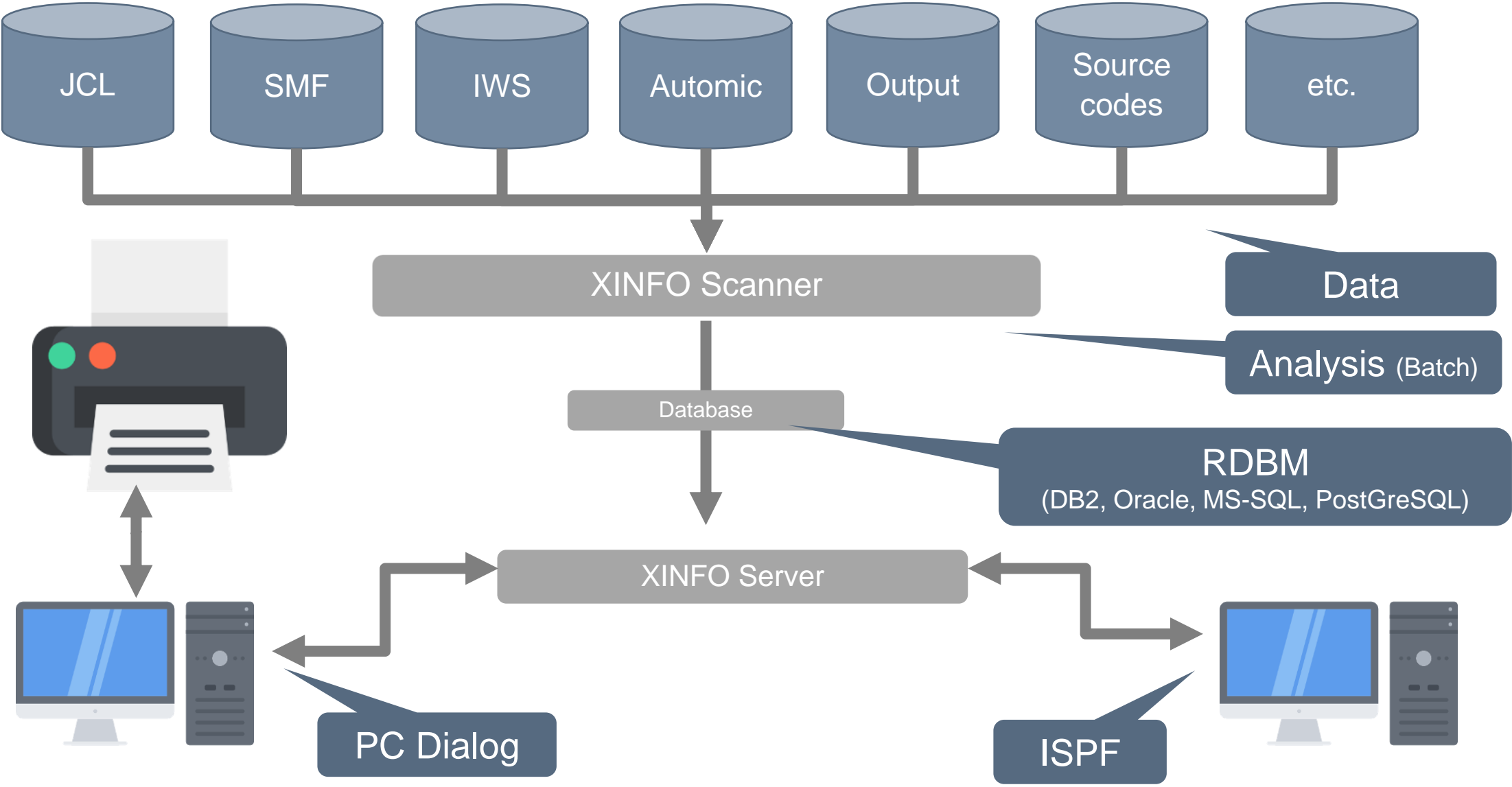
How to access data from different sources like Schedulers, JCL, DB2, SMF etc.

# What is XINFO?

XINFO is a complete cross reference for various IT systems.

- XINFO analyses JCL, DB2, IMS, SMF, IWS z/OS, RMM, Cobol, PL1, DLI, Control-M, Control-D, CA-7, CA-1, CA-Delivery, CA-Scheduler, Zeke, Beta93
- XINFO loads result of analysis into DB2, Oracle, MS-SQL or PostgreSQL
- XINFO has an integrated PC Client or ISPF dialog
- XINFO has powerful graphic functions

# A Technical Overview



# What is XINFO good for?

XINFO enables you to answer questions like:

- Which jobs use file A.B.C?
- Which jobs use program PGM1?
- When was file A.B.C used in which jobs?
- Which DB2 tables are used in which jobs?
- Which jobs were active last Monday at 3.30?
- Which programs are calling sub program XYZ?
- and much more ...

# The ISPF Dialog

```

----- JCL - DSN ----- ROW 001 TO 014 OF 039
Command ==> _
----- SCROLL ==> PAGE

Top : Legend SAVE SORT Find STAT LIBS BATCH Arrange Exit
      ALL FIX SHOW EditSQL Info Tables Group REFresh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job
        JU JCL+Proc BD Browse DSN C Listcat J Job PJ PGM/PROC DS Dataset
        PC ProcParm SM SMF US SMF/DSN JT Job/Table JB Job/DBD O Oper ...

Jobname  SNr  Program  DD-Name  CNr  DSN
-----
DB2C     0      JOBLIB   DSNB10.DBBG.SDSNEXIT
DB2C     0      JOBLIB   DSNB10.SDSNLOAD
DB2C     1  IDCAMS   SYSIN     0 *
DB2C     1  IDCAMS   SYSIN     0 SYSH.XINFO.V4R0.DATA.DB2C.REPORT
DB2C     2  DSN8BD3  REPORT    0 SYSH.XINFO.V4R0.DATA.DB2C.REPORT
DB2C     2  DSN8BD3  SYSTSIN   0 *
DB2C     2  DSN8BD3  CARDIN    0 *
DB2COB2  0      JOBLIB   DSNB10.DBBG.SDSNEXIT
DB2COB2  0      JOBLIB   DSNB10.SDSNLOAD
DB2COB2  1  IDCAMS   SYSIN     0 *
DB2COB2  1  IDCAMS   SYSIN     0 SY
DB2COB2  2  DSN8BC3  REPORT    0 SY
DB2COB2  2  DSN8BC3  SYSTSIN   0 *
DB2COB2  2  DSN8BC3  CARDIN    0 *

```

```

----- TWS z/OS - Operation times ----- ROW 0001-0014 OF 1849
Command ==> _
----- SCROLL ==> PAGE

Top : Legend SAVE SORT Find STAT LIBS BATCH Arrange Exit
      ALL FIX SHOW EditSQL Info Tables Group REFresh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job
        JU JCL+Proc J Job PJ PGM/PROC DS Dataset PC ProcParm
        JE Exported Sym. SI SYSIN JS JES-Stmt. JC CmtCard JL JCLLib ...

Application ID  S Valid To  Opera Work Jobname  Subs Start Start Ti T Dura
-----
ACRIT0         A 31.12.2071  1 TIME  CRIT0      TXGC  0 10:00:00 Y
ACRIT1         A 31.12.2071  1 CPU   CRIT1      TXGC  ----  ----- N
ACRIT2         A 31.12.2071  1 CPU   CRIT2      TXGC  ----  ----- N
ACRIT3         A 31.12.2071  1 CPU   CRIT3      TXGC  0 11:00:00 Y
ACRIT4         A 31.12.2071  1 CPU   CRIT4      TXGC  ----  ----- N
ACRIT5         A 31.12.2071  1 CPU   CRIT5      TXGC  ----  ----- N
ACRIT6         A 31.12.2071  1 CPU   CRIT6      TXGC  ----  ----- N
ACRIT7         A 31.12.2071  1 CPU   CRIT7      TXGC  ----  ----- N
ACRIT99        A 31.12.2071  1 CPU   CRIT       TXGC  ----  ----- N
ADHOC#HZ0001   A 31.12.2071  1 DMY    CRIT       TXGC  ----  ----- N
ADHOC#HZ0001   A 31.12.2071  10 CPU  AHZ00010  TXGC  ----  ----- N
ADHOC#HZ0001   A 31.12.2071  11 CPU  AHZ00011  TXGC  ----  ----- N
ADHOC#HZ0001   A 31.12.2071  12 CPU  AHZ00012  TXGC  ----  ----- N
ADHOC#HZ0001   A 31.12.2071  255 DMY  CRIT       TXGC  ----  ----- N

```

```

----- Search Arguments JCL - JOB Statement
Command ==>

Top : BATCH Build JCL OPT Options Reset Clear Panel Show Show SQL
      EditSQL Modify SQL before Execution

Jobname      ==> EQ DB2*_____
Account      ==> EQ _____
Programmers Name ==> EQ _____
CLASS        ==> EQ _____
MSGCLASS     ==> EQ _____
NOTIFY       ==> EQ _____
PRIORITY     ==> EQ _____
REGION       ==> EQ _____
RESTART      ==> EQ _____
TYPRUN       ==> EQ _____
USER         ==> EQ _____
GROUP        ==> EQ _____
MSGLEVEL     ==> EQ _____
SCHENV       ==> EQ _____
ADDRSPC      ==> EQ _____
BYTES        ==> EQ _____
CARDS        ==> EQ _____
CCSID        ==> EQ _____

```

# ISPF Dialog – Start

- The ISPF dialog of XINFO is started by a REXX procedure. The specific method of access is based on your installation. If you have questions regarding how to access the system, ask your XINFO administrator.
- As an example we can start it with a TSO

**Command ==> TSO XINFO**



# ISPF Dialog – Main Menu

Start Panel

Search Arguments

Comparison Operators

Line Commands

Primary Commands

# ISPF Dialog – Startpanel

```
Sitzung A
----- XINFO - JCL ----- ROW 001 TO 019 OF 029
Please choose ==> _          SCROLL ==> PAGE

Top: Info XINFO Admin Info, LIBS scanned JCL libs, TABLES XINFO data structure

0 - Options
1 - JOB Statements
2 - JES Statements
3 - EXEC Statements
4 - EXPORTed JCL Symbols
5 - DSN
6 - SYSIN Content
7 - SYSOUT+OUTPUT
8 - OUTPUT Statements
9 - Jobs with OPC Variables
10 - JCLLIB-Statements
11 - Symbols and Proc. ParmS
12 - Comment Cards
13 - Scanned Libraries
14 - Control-M Variables
15 - SUBSYS
16 - IF Statements
17 - HFS (PATH)
18 - SET JCL Variables

MA A
```

This is the start panel of XINFO. All available displays are listed in sequence. Select the desired display by specifying the number ...

What is a display?

# ISPF Dialog – What is a Display?

```

Sitzung A
----- Search Arguments JCL - JOB Statements ----- ROW 001 TO 018 OF 034
Command ==>
SCROLL ==> PAGE

Top   : BATCH Build JCL  OPT Options Reset Clear Panel SHOW Show SQL
        EditSQL Modify SQL before Execution

Jobname   ==> EQ XXXR*_
Account   ==> EQ _____
Programmers Name ==> EQ _____
CLASS     ==> EQ _____
MSGCLASS  ==> EQ _____
NOTIFY    ==> EQ _____
PRIORITY  ==> EQ _____
REGION    ==> EQ _____
RESTART   ==> EQ _____
TYPRUN    ==> EQ _____
USER      ==> EQ _____
GROUP     ==> EQ _____
MSGLEVEL  ==> EQ _____
SCHENV    ==> EQ _____
ADDRSPC   ==> EQ _____
BYTES     ==> EQ _____
CARDS     ==> EQ _____
CCSID     ==> EQ _____
MA A
  
```

A display is the combination of INPUT ...

... and OUTPUT panels

```

Sitzung A
----- JCL - JOB Statements ----- ROW 001 TO 014 OF 327
Command ==> _
SCROLL ==> PAGE

Top   : Legend SAVE SORT Find STAT LIBS BATCH Arrange Exit
        ALL FIX SHOW EditSQL Info Tables Group Refresh
Bottom: ? List all Line Commands S Select Job Dependencies B Browse Job
        JU JCL+Proc PJ PGM/PROC DS Dataset PC ProcParm SJ SMF/Job SM SMF
        US SMF/DSN JT Job/Table PL PGM/Plan JB Job/DBD Q PGM/PSB ...

Jobname Account Programmers Name C M NOTIFY PR REGION RESTART TYPRUN USER
--- XXXRJRUNS ACCOUNT HORIZONT A T &SYSUID -----
--- XXXRJASM ACCOUNT HORIZONT A T &SYSUID -----
--- XXXRJASMU ACCOUNT HORIZONT A T &SYSUID -----
--- XXXRJBGJ ACCOUNT HORIZONT A T &SYSUID -----
--- XXXRJBNDJ ACCOUNT HORIZONT A T &SYSUID -----
--- XXXRJBNDL ACCOUNT HORIZONT A T &SYSUID -----
--- XXXRJBNDN ACCOUNT HORIZONT A T &SYSUID -----
--- XXXRJCAD ACCOUNT HORIZONT A T &SYSUID -----
--- XXXRJCC ACCOUNT HORIZONT A T &SYSUID -----
--- XXXRJCCU ACCOUNT HORIZONT A T &SYSUID -----
--- XXXRJCD ACCOUNT HORIZONT A T &SYSUID -----
--- XXXRJCDL ACCOUNT HORIZONT A T &SYSUID -----
--- XXXRJCID ACCOUNT HORIZONT A T &SYSUID -----
--- XXXRJCIM ACCOUNT HORIZONT A T &SYSUID -----
--- XXXRJCI01 ACCOUNT HORIZONT A T &SYSUID -----
MA A
  
```

# ISPF Dialog – Alternate Startpanel

Sitzung A

```
----- XINFO - Startpanel ----- ROW 099 TO 117 OF 342
Please choose ==> _
SCROLL ==> CSR

Top: Info XINFO Admin In

98 - JCL - JOB Statem
99 - JCL - JES Statem
100 - JCL - EXEC Stater
101 - JCL - EXPORTed J
102 - JCL - DSN
103 - JCL - SYSIN con
104 - JCL - SYSOUT+OUT
105 - JCL - OUTPUT Sta
106 - JCL - Jobs with
107 - JCL - JCLLIB-Sta
108 - JCL - Symbols an
109 - JCL - Comment Ca
110 - JCL - Scanned Li
111 - JCL - Control-M
112 - JCL - SUBSYS
113 - JCL - IF Stateme
114 - JCL - HFS (PATH)
115 - JCL - SET JCL Va
116 - JCL - COMMAND St
```

Sitzung A

```
----- XINFO - Startpanel ----- ROW 001 TO 015 OF 015
Please choose ==> 2_

Top: Info XINFO Admin In

0 - Options
1 - Scheduler
2 - JCL
3 - DB2
4 - CICS
5 - IMS
6 - SMF
7 - Space
8 - PO
9 - Output
10 - Programs
11 - Source
12 - Distributed - Fi
13 - XINFO
14 - IT-Charts - Admi
```

Sitzung A

```
----- XINFO - JCL ----- ROW 001 TO 019 OF 029
Please choose ==> _
SCROLL ==> CSR

Top: Info XINFO Admin Info, LIBS scanned JCL libs, TABLES XINFO data structure

0 - Options
1 - JOB Statements
2 - JES Statements
3 - EXEC Statements
4 - EXPORTed JCL Symbols
5 - DSN
6 - SYSIN Content
7 - SYSOUT+OUTPUT
8 - OUTPUT Statements
9 - Jobs with OPC Variables
10 - JCLLIB-Statements
11 - Symbols and Proc. Parms
12 - Comment Cards
13 - Scanned Libraries
14 - Control-M Variables
15 - SUBSYS
16 - IF Statements
17 - HFS (PATH)
18 - SET JCL Variables
```

Alternate start panel

If the start panel is too confusing for you, XINFO offers an alternative ...

# ISPF Dialog – Alternate Startpanel

```
Sitzung A
----- XINFO - Startpanel ----- ROW 001 TO 015 OF 015
Please choose ==> 0_ SCROLL ==> CSR
Top: Info XINFO Admin Info, LIBS scanned JCL Libs, TABLES XINFO data structure
0 - Options
1 - Scheduler
2 - JCL
3 - DB2
4 - CICS
5 - IMS
6 - SMF
7 - Space
8 - PO
9 - Output
10 - Programs
11 - Source
12 - Distributed - Files
13 - XINFO
14 - IT-Charts - Admin - Display all data records
```

Select 0 for Options ...

How can I activate that style?

# ISPF Dialog – Options

```
Sitzung A
----- Define Options for Dialog -----
Command ==>

Please insert the characters which should be recognized as wildcards
for generic search arguments.
Wildcard 1 ==> * (0 to n characters)
Wildcard 2 ==> % (any single character)

Should the FIND Command always search all columns (Y) or only the first column?
All Columns ==> Y (Y/N)
If N is specified, XINFO normally searches only the first column in a table
panel. You may then enter a specific column or * to search in all columns.

Specify the maximum number of result lines in the table panel:
Max. Rows ==> 9999 (1 - 99999)

Should the entries in the Start-Panel be grouped?
A change to this option will be effective after the next program start!
Group Entries ==> Y (Y/N)

Show several lines for long columns in search and detail panel?
Several Lines ==> (Y/N)
```

... and choose "Y" for a grouped Start-Panel. Hint: Exit XINFO for the change to take effect.

Should the entries in the Start-Panel be grouped?  
A change to this option will be effective after the next program start!  
Group Entries ==> Y (Y/N)

# ISPF Dialog – Selecting a Display (1)

```
Sitzung A
----- XINFO - Startpanel ----- ROW 001 TO 015 OF 015
Please choose ==> 2_ SCROLL ==> 0

Top: Info XINFO Admin Info, LIBS scanned JCL libs, TABLES XINFO data structure

0 - Options
1 - Scheduler
2 - JCL
3 - DB2
4 - CICS
5 - IMS
6 - SMF
7 - Space
8 - PO
9 - Output
10 - Programs
11 - Source
12 - Distributed - Files
13 - XINFO
14 - IT-Charts - Admin - Display all data records
```

Type in 2 for JCL ...

The best idea to learn about XINFO is to go through the different displays, for example "JCL - DSN" ...

# ISPF Dialog – Selecting a Display (2)

```
Sitzung A
----- XINFO - JCL ----- ROW 001 TO 019 OF 029
Please choose ==> 5_ SCROLL ==> CSR
Top: Info XINFO Admin Info, LIBS scanned JCL Libs, TABLES XINFO data structure
0 - Options
1 - JOB Statements
2 - JES Statements
3 - EXEC Statements
4 - EXPORTed JCL Symbols
5 - DSN
6 - SYSIN Content
7 - SYSOUT+OUTPUT
8 - OUTPUT Statements
9 - Jobs with OPC Variables
10 - JCLLIB-Statements
11 - Symbols and Proc. ParmS
12 - Comment Cards
13 - Scanned Libraries
14 - Control-M Variables
15 - SUBSYS
16 - IF Statements
17 - HFS (PATH)
18 - SET JCL Variables
```

Select 5 for DSN ...



# ISPF Dialog – Search Arguments

```
Sitzung A
----- Search Arguments JCL - DSN ----- ROW 001 TO 018 OF 062
Command ==>                               SCROLL ==> CSR

Top   : BATCH Build JCL  OPT Options Reset Clear Panel SHOW Show SQL
       EditSQL Modify SQL before Execution

Jobname      ==> EQ _____
Stepnumber   ==> EQ _____
Programname  ==> EQ I*_____
DD-Name      ==> EQ SYS*_____
Concat-Number ==> EQ _____
Dataset Name ==> EQ _____
Member/Generation ==> EQ _____
Disposition  ==> EQ _____
Called Procedure ==> EQ _____
Proclib (called) ==> EQ _____
LRECL       ==> EQ _____
BLKSIZE     ==> EQ _____
RECFM      ==> EQ _____
DSORG      ==> EQ _____
KEYLEN     ==> EQ _____
DCB (Rest) ==> EQ _____
EXPDT      ==> EQ _____
RETPD     ==> EQ _____

MA A
```

Specify your selection criteria, for example all programs "I\*" which have a DD Statement "SYS\*"

You may use comparison operators like EQ, NE, GT, LT, LE, GE, NB (Will be explained later) ...

# ISPF Dialog – Query Results

```
Sitzung A
----- JCL - DSN ----- ROW 0001-0014 OF 9999
Command ==> _          SCROLL ==> CSR

Top   : Legend  SAVE  SORT  Find  STAT  LIBS  BATCH  Arrange  EXit
       ALL  FIX  SHOW  EditSQL  Info  Tables  Group  REFresh
Bottom: ? List all Line Commands S Select  DP Dependencies B Browse Job
       JU JCL+Proc  BD Browse DSN  C Listcat  J Job  PJ PGM/PROC  DS Dataset
       PC ProcParm  SM SMF  US SMF/DSN  JT Job/Table  JB Job/DBD  0 Oper ...

Jobname  SNr  Program  DD-Name  CNr  DSN
-----
A00DXN0A  1  IEBGENER  SYSIN      0  DUMMY
A00DXN0A  1  IEBGENER  SYSUT1     0  B00.PSS.PROD.JOBRDR
A7141TJB  1  IEFBR14   SYSIN      0  BRIAN.TRANDATE.%GL1923
B00HGFP3  1  IEBR14    SYSIN      0  *
DB2C      1  IDCAMS    SYSIN      0  *
DB2C      1  IDCAMS    SYSIN      0  SYSH.XINFO.V4R0.DATA.DB2C.REPORT
DB2COB2   1  IDCAMS    SYSIN      0  *
DB2COB2   1  IDCAMS    SYSIN      0  SYSH.XINFO.V4R0.DATA.DB2COB2.REPORT
DB2COB2T  1  IDCAMS    SYSIN      0  *
DB2COB2T  1  IDCAMS    SYSIN      0  P390K.XINFO.V3R6.DATA.DB2COB2.REPORT.D&OY
DB2COMP   1  IDCAMS    SYSIN      0  *
DB2COMP   1  IDCAMS    SYSIN      0  SYSH.XINFO.V4R0.DATA.DB2COMP.REPORT
DB2COMP   1  IDCAMS    SYSIN      0  SYSH.XINFO.V4R0.DATA.DB2COMP2.REPORT
DB2COMP   1  IDCAMS    SYSIN      0  SYSH.XINFO.V4R0.DATA.DB2COMP3.REPORT
```

The results ...

# ISPF Dialog – Scrolling in Query Results

Use standard keys  
PF7, PF8 for down  
and up and PF10,  
PF11 for left and  
right scrolling

Please note that  
the first column  
is fixed

```
Sitzung A
----- JCL - DSN ----- Too many rows
Command ==> _          SCROLL ==> CSR

Top   : Legend  SAVE  SORT  Find  STAT  LIBS  BATCH  Arrange  EXit
        ALL  FIX  SHOW  EditSQL  Info  Tables  Group  REFresh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job
        JU JCL+Proc  BD Browse DSN  C Listcat  J Job  PJ PGM/PROC  DS Dataset
        S ProcParm  SM SMF  US SMF/DSN  JT Job/Table  JB Job/DBD  0 Oper ...

Jobname  SNr  Program  DD-Name  CNr  DSN
-----
A00DXN0A  1  IEBGENER  SYSIN      0  DUMMY
A00DXN0A  1  IEBGENER  SYSUT1     0  B00.PSS.PROD.JOBRDR
A7141TJB  1  IEFBR14   SYSIN      0  BRIAN.TRANDATE.%GL1923
B00HGFP3  1  IEFR14    SYSIN      0  *
DB2C      1  IDCAMS    SYSIN      0  *
DB2C      1  IDCAMS    SYSIN      0  SYSH.XINFO.V4R0.DATA.DB2C.REPORT
DB2COB2   1  IDCAMS    SYSIN      0  *
DB2COB2   1  IDCAMS    SYSIN      0  SYSH.XINFO.V4R0.DATA.DB2COB2.REPORT
DB2COB2T  1  IDCAMS    SYSIN      0  *
DB2COB2T  1  IDCAMS    SYSIN      0  P390K.XINFO.V3R6.DATA.DB2COB2.REPORT.D&OY
DB2COMP   1  IDCAMS    SYSIN      0  *
DB2COMP   1  IDCAMS    SYSIN      0  SYSH.XINFO.V4R0.DATA.DB2COMP.REPORT
DB2COMP   1  IDCAMS    SYSIN      0  SYSH.XINFO.V4R0.DATA.DB2COMP2.REPORT
DB2COMP   1  IDCAMS    SYSIN      0  SYSH.XINFO.V4R0.DATA.DB2COMP3.REPORT
```

# ISPF Dialog – Too Many Rows

```
Sitzung A
----- JCL - EXEC Statements -----
Command ==>
Top : Legend SAVE SORT Find STAT LIBS BATCH Arrange EXit
      ALL FIX SHOW EditSQL Info Tables Group REFresh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job
         JU JCL+Proc BP Browse Proc J Job PJ PGM/PROC DS Dataset
         PC ProcParm SM SMF US SMF/DSN JT Job/Table JB Job/DBD 0 Oper .

Jobname  SNr  Type  Program  ProcStep  Procedur  F  JobStep  Proclib (called)
--- AHZ00010  1  PGM  IEFBR14          STEP1
--- AHZ00011  1  PGM  IEFBR14          STEP1
--- AHZ00012  1  PGM  IEFBR15          STEP1
--- AHZ0002   1  PGM  IEFBR14          STEP1
--- AHZ0003   1  PGM  IEFBR14          STEP1
--- A00DXN0A  1  PGM  IEBGENER          STEP0001
--- A7141TJB  1  PROC          A7141TJP  Y  A7141TJP  BRIAN.REXX.PROJECT
--- A7141TJB  1  PGM  IEFBR14  A7141TJX  A7141TJP  A7141TJP  BRIAN.REXX.PROJECT
--- B00HGFP3  1  PGM  IEBR14          IDCAMS
--- B00HGFP3  2  PGM  GJTRABTR        ATOSUB13
--- CNDJA     1  PGM  RCTEST          STEP01
--- CNDJB     1  PGM  IEFBR14          STEP01
--- CNDJR1    1  PGM  IEFBR14          STEP01
--- CNDJR1    2  PGM  ROTIWAIT        ROTIWAIT
```

Too many rows

“Too many rows”  
What does that mean?

XINFO displays only the first 999 records, but you can change that in the Options panel ...

# ISPF Dialog – Options

```
Sitzung A
----- Define Options for Dialog -----
Command ==>

Please insert the characters which should be recognized as wildcards
for generic search arguments.
Wildcard 1 ==> * (0 to n characters)
Wildcard 2 ==> % (any single character)

Should the FIND Command always search all columns (Y) or only the first?
All Columns ==> Y (Y/N)
If N is specified, XINFO normally searches only the first column in a table
panel. You may then enter a specific column or * to search in all columns.

Specify the maximum number of result lines in the table panel:
Max. Rows ==> 9999 (1 - 99999)

Should the entries in the Start-Panel be grouped?
A change to this option will be effective after the next program start!
Group Entries ==> Y (Y/N)

Show several lines for long columns in search and detail panel?
Several Lines ==> _ (Y/N)
```

Use a number between 1 and 99999, e.g. 999

Specify the maximum number of result lines in the table panel:  
Max. Rows ==> 9999 (1 - 99999)

# ISPF Dialog – Comparison Operators

```
Sitzung A
----- Search Arguments JCL - JOB Statements ----- ROW 001 TO 018 OF 034
Command ==> SCROLL ==> PAGE

Top : BATCH Build JCL OPT Options Reset Clear Panel SHOW Show SQL
      EditSQL Modify SQL before Execution

Jobname      ==> EQ
Account      ==> NE
Programmers Name ==> GT
CLASS        ==> LT
MSGCLASS     ==> NB
NOTIFY       ==> NX
PRIORITY     ==> EQ
REGION       ==> EQ
RESTART      ==> EQ
TYPRUN       ==> EQ
USER         ==> EQ
GROUP        ==> EQ
MSGLEVEL     ==> EQ
SCHENV       ==> EQ
ADDRSPC      ==> EQ
BYTES        ==> EQ
CARDS        ==> EQ
CCSID        ==> EQ
```

XINFO allows you to specify all operators which are available in DB2 ...

# ISPF Dialog – Comparison Operators

```
Sitzung A
----- Help for XINFO (Selection Panel) ----- Page 2 of 4
Command ==> _

Use on of the following%operators to define Your selection criteria:

EQ  ---> Equal
NE  ---> Not Equal
GT  ---> Greater Than
GE  ---> Greater or Equal
LT  ---> Less Than
LE  ---> Less or Equal
EB  ---> Equal Blank
NB  ---> Non Blank
EN  ---> Equal Null
NN  ---> Not Null
SA  ---> Select All           (See special Operators)
EX  ---> EXists              (See special Operators)
NX  ---> Not eXists          (See special Operators)
99  ---> Enter more than one criteria for this field

(Continued on the next page)
```

Press PF1 to get an overview about all operators ...

# ISPF Dialog – Operator 99

```
Sitzung A
----- Search Arguments JCL - JOB Statements ----- ROW 001 TO 018 OF 034
Command ==> SCROLL ==> PAGE

Top : BATCH Build JCL OPT Options Reset Clear Panel SHOW Show SQL
      EditSQL Modify SQL before Execution

Jobname      ==> 99
Account      ==> EQ
Programmers Name ==> EQ
CLASS        ==> EQ
MSGCLASS     ==> EQ
NOTIFY       ==> EQ
PRIORITY     ==> EQ
REGION       ==> EQ
RESTART      ==> EQ
TYPRUN       ==> EQ
USER         ==> EQ
GROUP        ==> EQ
MSGLEVEL     ==> EQ
SCHENV       ==> EQ
ADDRSPC      ==> EQ
BYTES        ==> EQ
CARDS        ==> EQ
CCSID        ==> EQ
```

But let's talk about a very special operator, the 99 ...



# ISPF Dialog – Operator 99

Sitzung A

----- Search Arguments JCL - JOB Statements ----- ROW 001 TO 018 OF 034  
Comman More Search Arguments => PAGE

COMMAND ===>

Search Arguments for: Jobname

Jobnam	===> GE	A
Accoun	===> &	
Progra	===> LT	C
CLASS	===> !	
MSGCLA	===> EQ	XXR*
NOTIFY	===> !	
PRIORI	===> EQ	
REGION	===> !	
RESTAR	===> EQ	
TYPRUN	===> !	
USER	===> EQ	
GROUP	===> !	
MSGLEV	===> EQ	
SCHENV	===> !	
ADDRSP	===> EQ	
BYTES	===> EQ	
CARDS	===> EQ	
CCSID	===> EQ	

MA A

“&” means AND

“!” means OR

The 99 operator brings up a new panel where you can use multiple search criteria for the selected field (here “Jobname”)

# ISPF Dialog – Operator 99

```
Sitzung A
----- JCL - JOB Statements ----- ROW 001 TO 014 OF 338
Command ==> _ SCROLL ==> PAGE

Top   : Legend  SAVE  SORT  Find  STAT  LIBS  BATCH  Arrange  EXit
        ALL  FIX  SHOW  EditSQL  Info  Tables  Group  REfresh
Bottom: ? List all Line Commands S Select  DP Dependencies B Browse Job
        JU JCL+Proc  PJ PGM/PROC  DS Dataset  PC ProcParm  SJ SMF/Job  SM SMF
        US SMF/DSN  JT Job/Table  PL PGM/Plan  JB Job/DBD  Q PGM/PSB ...

Jobname Account          Programmers Name C M NOTIFY  PR REG
---
AHZ00010
AHZ00011
AHZ00012
AHZ0002
AHZ0003
A00DXN0A
A7141TJB
B00HGFP3
XXRJRUNS ACCOUNT        HORIZONT
XXRJASM  ACCOUNT        HORIZONT
XXRJASMU ACCOUNT        HORIZONT
XXRJBGJ  ACCOUNT        HORIZONT
XXRJBNDD ACCOUNT        HORIZONT
XXRJBNDS ACCOUNT        HORIZONT
```

For example all jobs with a job name Greater Equals "A" and Lower "C" (means all A-B) or which starts with "XXR"

# ISPF Dialog – Do you have any questions about displays?

The image displays three overlapping ISPF dialog windows. The top-left window shows a search for 'Jobname' with criteria 'EQ XXR\*'. The top-right window shows a search for 'Jobname' with criteria 'GE A', '&', 'LT C', '!', 'EQ XXR\*', and 'EQ'. The bottom window shows a list of job statements with columns for Jobname, SNr, Type, Program, ProcStep, and Proclib (called).

----- Search Arguments JCL - JOB Statements ----- ROW 001  
Command ==>

Top : BATCH Build JCL OPT Options Reset Clear Panel SHOW Show  
EditSQL Modify SQL before Execution

Jobname ==> EQ XXR\*  
Account ==> EQ  
Programmers Name ==> EQ  
CLASS ==> EQ  
MSGCLASS ==> EQ  
NOTIFY ==> EQ  
PRIORITY ==> EQ  
REGION ==> EQ  
RESTART ==> EQ  
TYPRUN ==> EQ  
USER ==> EQ  
GROUP ==> EQ  
MSGLEVEL ==> EQ  
SCHENV ==> EQ  
ADDRSPC ==> EQ  
BYTES ==> EQ  
CARDS ==> EQ  
CCSID ==> EQ

----- Search Arguments JCL - JOB Statements ----- ROW 001 TO 018 OF 034  
Command ==> More Search Arguments ==> PAGE

COMMAND ==>

Search Arguments for: Jobname  
==> GE A  
==> &  
==> LT C  
==> !  
==> EQ XXR\*  
==> !  
==> EQ  
==> !

----- JCL - EXEC Statements ----- Too many rows  
Command ==> SCROLL ==> PAGE

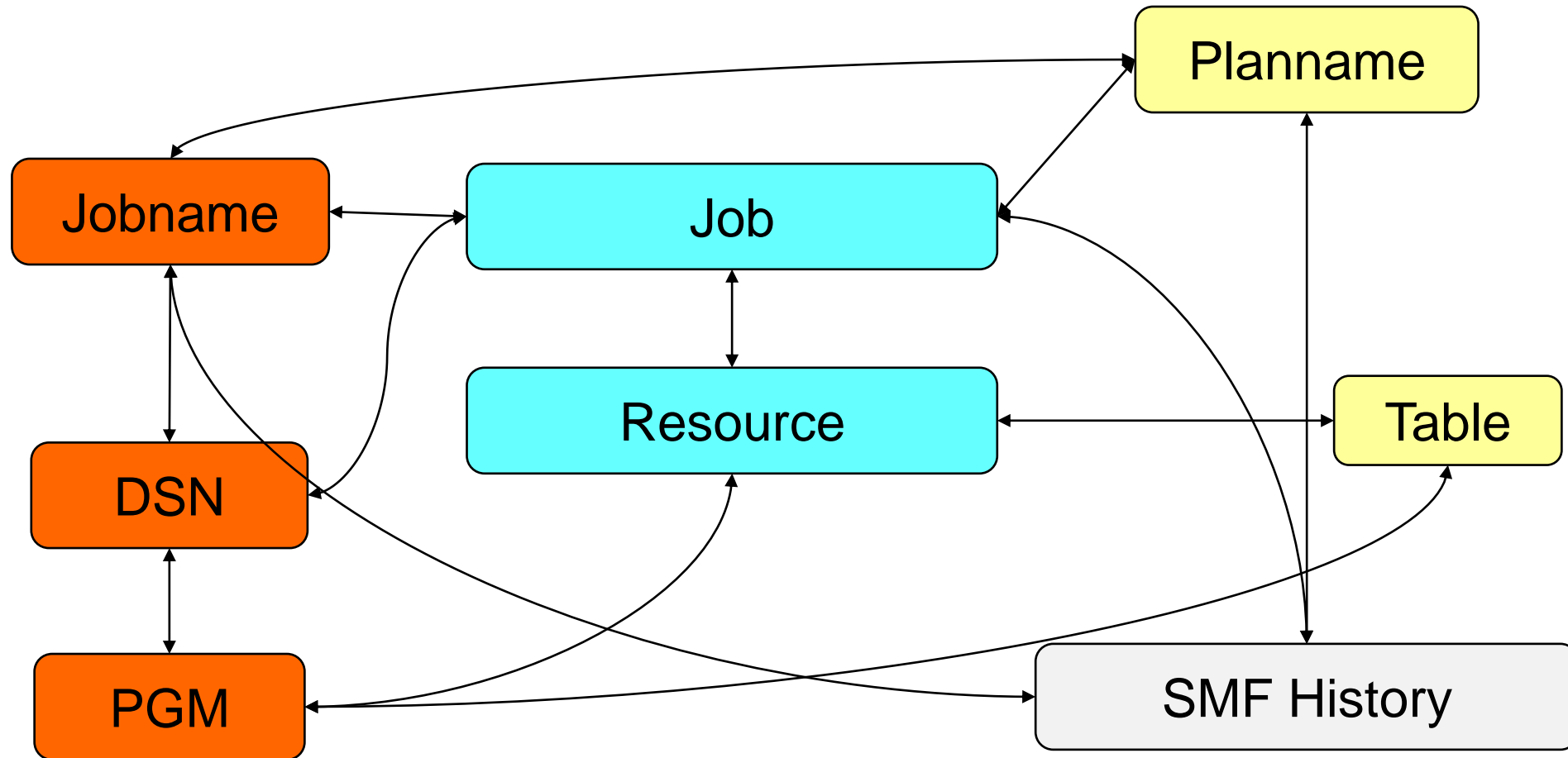
Top : Legend SAVE SORT Find STAT LIBS BA  
ALL FIX SHOW EditSQL Info Tables G  
Bottom: ? List all Line Commands S Select DP Dep  
JU JCL+Proc BP Browse Proc J Job PJ P  
PC ProcParm SM SMF US SMF/DSN JT Job/Table JB Job/DBB U Oper ...

Jobname	SNr	Type	Program	ProcStep	Procedur	F	JobStep	Proclib (called)
AHZ00010	1	PGM	IEFBR14				STEP1	
AHZ00011	1	PGM	IEFBR14				STEP1	
AHZ00012	1	PGM	IEFBR15				STEP1	
AHZ0002	1	PGM	IEFBR14				STEP1	
AHZ0003	1	PGM	IEFBR14				STEP1	
A00DXN0A	1	PGM	IEBGENER				STEP0001	
A7141TJB	1	PROC			A7141TJP	Y	A7141TJP	BRIAN.REXX.PROJECT
A7141TJB	1	PGM	IEFBR14	A7141TJX	A7141TJP		A7141TJP	BRIAN.REXX.PROJECT
B00HGFP3	1	PGM	IEBR14				IDCAMS	
B00HGFP3	2	PGM	GJTRABTR				ATOSUB13	
CNDJA	1	PGM	RCTEST				STEP01	
CNDJB	1	PGM	IEFBR14				STEP01	
CNDJR1	1	PGM	IEFBR14				STEP01	
CNDJR1	2	PGM	ROTIWAIT				ROTIWAIT	

Yes? Ok, just let us know your question.  
Email to [info@horizont-it.com](mailto:info@horizont-it.com)

# ISPF Dialog – Line Commands

The line commands of XINFO are connecting data fields to related information



# ISPF Dialog – Line Commands

XINFO has two different types of Line Commands:

- Internal Line Commands are activating other XINFO displays, for example SMF Histories, Table Information, etc...
- External Line Commands are activating ISPF tools like the Browser, Editor or any other Utility program.

Every Line Command can be added or removed by the XINFO Administrator!

# ISPF Dialog – Line Commands

```
Sitzung A
----- JCL - DSN ----- ROW 001 TO 014 OF 044
Command ==> _          SCROLL ==> PAGE

Top   : Legend  SAVE  SORT  Find  STAT  LIBS  BATCH  Arrange  EXit
        ALL  FIX  SHOW  EditSQL  Info  Tables  Group  REFResh

Bottom: ? List all Line Commands S Select  DP Dependencies B Browse Job
        JU JCL+Proc  BD Browse DSN  C Listcat  J Job  PJ PGM/PROC  DS Dataset
        PC ProcParm  SM SMF  US SMF/DSN  JT Job/Table  JB Job/DBD  O Oper ...

Jobname  SNr  Program  DD-Name  CNr  DSN  Mem/Gen.  DIS  Called-
-----
  &RZ#UC7E   1  SASSGRLX  LOGIN      0  &RZ#UCC.UCC...ST.WCH 0      SKK
  &RZ#UC7E   1  SASSGRLX  LOGOUT     0  &&LOGOUT...      SKK
  &RZ#UC7E   1  SASSGRLX  SYSIN      0  DUMMY...      SKK
  &RZ#UC7E   2  CA7ER036  EARLLIB    0  PPEX.CA7...      SKK
  &RZ#UC7E   2  CA7ER036  EARLOBJ    0  TEMPNAME...      SKK
  &RZ#UC7E   2  CA7ER036  WORK1      0  TEMPNAME...      SKK
  &RZ#UC7E   2  CA7ER036  LOGIN      0  &&LOGOUT...      ODD
  &RZ#UC7E   2  CA7ER036  SYSIN      0  PPEX.CA7.EARLLIB  CA7ER036  SKK
  &RZ#UC7E   2  CA7ER036  SYSIN      0  *...      SKK
  &RZ#UC7E   2  CA7ER001  SYSIN      0  PPEX.CA7.EARLLIB  CA7ER001  SKK
  &RZ#UC7E   2  CA7ER002  SYSIN      0  PPEX.CA7.EARLLIB  CA7ER002  SKK
  &RZ#UC7E   2  CA7ER033  SYSIN      0  PPEX.CA7.EARLLIB  CA7ER033  SKK
  &RZ#UC7E   2  CA7ER034  SYSIN      0  PPEX.CA7.EARLLIB  CA7ER034  SKK
  &RZ#UC7E   2  CA7ER035  SYSIN      0  PPEX.CA7.EARLLIB  CA7ER035  SKK
```

The Line Commands are listed here ...

# ISPF Dialog – Select

```
Sitzung A
----- JCL - DSN ----- ROW 001 TO 014 OF 044
Command ==> SCROLL ==> PAGE

Top   : Legend SAVE SORT Find STAT LIBS BATCH Arrange EXit
        ALL FIX SHOW EditSQL Info Tables Group REFresh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job
        JU JCL+Proc BD Browse DSN C Listcat J Job PJ PGM/PROC DS Dataset
        PC ProcParm SM SMF US SMF/DSN JT Job/Table JB Job/DBD 0 Oper ...

Jobname  SNr Program  DD-Name  CNr DSN                               Mem/Gen.  DIS Called-
-----  -
  &RZ#UC7E   1 SASSGRLX LOGIN           0 &RZ#UCC.UCC7.HIST.WCH 0              SKK
  &RZ#UC7E   1 SASSGRLX LOGOUT          0 &&LOGOUT              NPD
  S  &RZ#UC7E   1 SASSGRLX SYSIN           0 DUMMY
  &RZ#UC7E   2 CA7ER036 EARLLIB         0 PPEX.CA7.EARLLIB       SKK
  &RZ#UC7E   2 CA7ER036 EARLOBJ         0 TEMPNAME
  &RZ#UC7E   2 CA7ER036 WORK1          0 TEMPNAME
  &RZ#UC7E   2 CA7ER036 LOGIN           0 &&LOGOUT              ODD
  &RZ#UC7E   2 CA7ER036 SYSIN           0 PPEX.CA7.EARLLIB       CA7ER036 SKK
  &RZ#UC7E   2 CA7ER036 SYSIN           0 *
  &RZ#UC7E   2 CA7ER001 SYSIN           0 PPEX.CA7.EARLLIB       CA7ER001 SKK
  &RZ#UC7E   2 CA7ER002 SYSIN           0 PPEX.CA7.EARLLIB       CA7ER002 SKK
  &RZ#UC7E   2 CA7ER033 SYSIN           0 PPEX.CA7.EARLLIB       CA7ER033 SKK
  &RZ#UC7E   2 CA7ER034 SYSIN           0 PPEX.CA7.EARLLIB       CA7ER034 SKK
  &RZ#UC7E   2 CA7ER035 SYSIN           0 PPEX.CA7.EARLLIB       CA7ER035 SKK
```

Let us try a Line Command, for example “S” (SELECT) to display a complete record

# ISPF Dialog – Select

```
Sitzung A
----- Details JCL - DSN ----- ROW 001 TO 018 OF 062
Command ==> _ SCROLL ==> PAGE

Top : ENTER Back to the Table Panel

Jobname      : &RZ#UC7E
Stepnumber   : 1
Programname  : SASSGRLX
DD-Name      : SYSIN
Concat-Number : 0
Dataset Name : DUMMY
Member/Generation :
Disposition  :
Called Procedure :
Proclib (called) :
LRECL       : -----
BLKSIZE     : -----
RECFM      :
DSORG      :
KEYLEN     : ---
DCB (Rest)  :
EXPDT      :
RETPD     : -----
```

The result are all data of the selected record on one screen!



# ISPF Dialog – Line Commands

```
Sitzung A
----- JCL - DSN ----- ROW 0001-0014 OF 9999
Command ==> SCROLL ==> PAGE

Top   : Legend  SAVE  SORT  Find  STAT  LIBS  BATCH  Arrange  EXit
        ALL  FIX  SHOW  EditSQL  Info  Tables  Group  REfresh

Bottom: ? List all Line Commands S Select  DP Dependencies B Browse Job
        JU JCL+Proc  BD Browse DSN  C Listcat  J Job  PJ PGM/PROC  DS Dataset
        PC ProcParm  SM SMF  US SMF/DSN  JT Job/Table  JB Job/DBD  0 Oper ...

Jobname  SNr  Program  DD-Name  CNr  DSN
-----
A00DXN0A  1  IEBCGENR  SYSIN      0  DUMMY
A00DXN0A  1  IEBCGENR  SYSUT1     0  B00.PSS.PROD.JOBRDR
A7141TJB  1  IEFBR14   SYSIN      0  BRIAN.TRANDATE.%GL1923
A7141TJB  1  IEFBR14   GLFILE     0  BRIAN.TRANLOG.%$GLO201
B00HGFP3  1  IEBCGENR  SYSIN      0  *
B00HGFP3  2  GJTRABTR  SYSEXEC    0  BRIAN.REXX.PROJECT
B00HGFP3  2  GJTRABTR  SYSTSIN    0  *
B00HGFP3  2  GJTRABTR  INIFILE    0  *
B00HGFP3  2  GJTRABTR  JUPCA7     0  BRIAN.CA7.JCL
B00HGFP3  2  GJTRABTR  JUPOPC     0  BRIAN.OPCP.JCL
B00HGFP3  2  GJTRABTR  OUTFILE    0  BRIAN.COMPARE.LIST
B00HGFP3  2  GJTRABTR  STEPLIB    0  SYSH.FREWARE.LOAD
B00HGFP3  2  GJTRABTR  STEPLIB    0  SYSH.FREWARE.LOAD
B00HGFP3  2  GJTRABTR  STEPLIB    0  SYSH.FREWARE.LOAD
```

? List all Line Commands S Select DP Dependencies B Browse Job  
JU JCL+Proc BD Browse DSN C Listcat J Job PJ PGM/PROC DS Dataset  
PC ProcParm SM SMF US SMF/DSN JT Job/Table JB Job/DBD 0 Oper ...

If you do not understand the meaning of all Commands ...

?  
... type "?" to get a complete list with all Line Commands ...

# ISPF Dialog – Line Commands

----- JCL - DSN ----- ROW 0001-0014 OF 9999  
Command ==> SCROLL ==> PAGE

Top  
Bottom

List of Line Commands ROW 001 TO 020 OF 166  
Command ==> **B** SCROLL ==> PAGE

Command	Description
S	Select Show Detail Panel
8C	ASM/Calls Assembler Calls
8I	ASM/Macro Assembler - Copy Macro
82	ASM/DB2 Assembler - DB2 Access
8S	ASM/Exp.Source Assembler - Expanded Source
8E	ASM/Ext.Sym Assembler - External Symbols
8G	ASM/Gen.Info Assembler - General Info
UI	AutJobs Atomic - Jobs
UR	AutRuntimes Atomic - Runtimes
UY	AutSyncUsage Atomic - Sync Usage
B5	BGJ-CC Bagjas - CC-Steuerung
B0	BGJ-Nachl. Bagjas - Nachlaeufer
B3	BGJ-Vorl. Bagjas - Vorlaeufer
BP	Browse Proc Browse - Called Procedure
HL	Browse HSM List Browse - HSM List command
B	Browse Job Browse - Job
JU	JCL+Proc Browse - JCL with Procedures
C	Listcat Browse - Listcat Information

Job  
A00  
A00  
A71  
A71  
B00  
B00  
?\_ B00  
B00  
B00  
B00  
B00  
CND  
CND  
CND

Xit  
rowse Job  
OC DS Dataset  
BD 0 Oper ...

MA A

You can select a Line Command from the list. Select the "B" to Browse the JCL ...

# ISPF Dialog – Line Commands

```
Sitzung A
Menu Utilities Compilers Help
BROWSE      SYSH.TXGC.JOBLIB(B00HGFP3) - 01.02
Command ==>
***** Top of Data *****
//B00HGFP3 JOB , 'HORIZONT',MSGCLASS=T,CLASS=A,
// NOTIFY=&SYSUID
//*****
//* DELETE DATASETS -- SAMPLE FOR PENFED --
//*****
//IDCAMS EXEC PGM=IEBR14,PARM='MARGINS(1 72)'
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
DEL BRIAN.COMPARE.LIST
SET MAXCC=0
/*
//*****
//* GJTRABTR : FICTIONAL SUBMISSION OF B00HGFPE
//*****
//ATOSUB13 EXEC PGM=GJTRABTR,
// PARM='ADD(JOB(B00HGFPE,L=001))'
//SUBSOUT DD SYSOUT=*
//SYSEXEC DD DSN=BRIAN.REXX.PROJECT,DISP=SHR
//SYSTSPRT DD SYSOUT=*
MA A
```

Browse-Job (B) is an example for extern Line Command. XINFO calls an extern program (ISPF-Browse).

Get the JCL!

# ISPF Dialog – Line Commands

```
Sitzung A  
----- JCL - DSN ----- ROW 0007-0020 OF 9999  
Command ===> SCROLL ===> PAGE  
  
----- Line Commands -----  
Top List of Line Commands ROW 001 TO 020 OF 166 Xit  
Command ===> SCROLL ===> PAGE  
Bottom  
S Select Show Detail Panel  
8C ASM/Calls Assembler - Calls  
8I ASM/Macro Assembler - Copy and Macro  
82 ASM/DB2 Assembler - DB2 Access  
8S ASM/Exp.Source Assembler - Expanded Source  
8E ASM/Ext.Sym Assembler - External Symbols  
8G ASM/Gen.Info Assembler - General Info  
UI AutJobs Atomic - Jobs  
UR AutRuntimes Atomic - Runtimes  
UY AutSyncUsage Atomic - Sync Usage  
CND B5 BGJ-CC Bagjas - CC-Steuerung  
CND B0 BGJ-Nachl. Bagjas - Nachlaeufer  
CND B3 BGJ-Vorl. Bagjas - Vorlaeufer  
CRI BP Browse Proc Browse - Called Procedure  
CRI HI Browse HSM List Browse - HSM List command  
CRI B Browse Job Browse - Job  
CRI JU JCL+Proc Browse - JCL with Procedures  
CRI C Listcat Browse - Listcat Information  
MA A
```

“External Commands”  
like Select, Browse,  
Edit ...

... and “Internal  
Commands” which  
are calling other  
XINFO displays ...

# ISPF Dialog – Line Commands

```
Sitzung A
----- Details JCL - DSN ----- ROW 001 TO 018 OF 062
Command ==> _
SCROLL ==> PAGE

Top : ENTER Back to the Table Panel

Jobname      : B00HGFP3
Stepnumber   : 2
Programname  : GJTRABTR
DD-Name      : SYSTSIN
Concat-Number : 0
Dataset Name : *
Member/Generation :
Disposition  :
Called Procedure :
Proclib (called) :
LRECL       : -----
BLKSIZE     : -----
RECFM       :
DSORG       :
KEYLEN      : ---
DCB (Rest)  :
EXPDT       :
RETPD      : -----
```

The result of an  
“External Command”...

```
Sitzung A
----- JCL - SYSIN Content ----- ROW 001 TO 005 OF 005
Command ==> _
SCROLL ==> PAGE

Top : Legend SAVE SORT Find STAT LIBS BATCH Arrange Exit
      ALL FIX SHOW EditSQL Info Tables Group REfresh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job
          JU JCL+Proc J Job PJ PGM/PROC DS Dataset PC ProcParm SM SMF
          US SMF/DSN JT Job/Table JB Job/DBD 0 Oper SU Succ. P Pred. ...

Jobname  SNr Program  DDName  Line#  Line
-----  -
B00HGFP3  1 IEBR14  SYSIN   1  DEL BRIAN.COMPARE.LIST
B00HGFP3  1 IEBR14  SYSIN   2  SET MAXCC=0
B00HGFP3  2 GJTRABTR SYSTSIN  1  %CITICMP1
B00HGFP3  2 GJTRABTR INIFILE  1  MSGPREF=CITICMP1
B00HGFP3  2 GJTRABTR INIFILE  2  HEADER=A SIMPLE HEADER RECORD
***** BOTTOM OF DATA *****
```

... and the result of an  
“Internal Command”...

# ISPF Dialog – Do you have any questions about Line Commands?

```

----- JCL - DSN ----- ROW 0001-0014 OF 9999
Command ==>

List of Line Commands      ROW 001 TO 020 OF 166
Command ==> B_             SCROLL ==> PAGE

Top
Bottom
Job
  A00 8S ASM/Exp.Source  Assembler - Expanded Source
  A00 8E ASM/Ext.Sym    Assembler - External Symbols
  A71 8I ASM/Macro      Assembler - Copy and Macro
  A71 82 ASM/DB2       Assembler - DB2 Access
  B00 8S ASM/Exp.Source  Assembler - Expanded Source
  B00 8E ASM/Ext.Sym    Assembler - External Symbols
  B00 8G ASM/Gen.Info  Assembler - General Info
  B00 UI AutJobs       Automatic - Jobs
  B00 UR AutRuntimes   Automatic - Runtimes
  B00 UY AutSyncUsage  Automatic - Sync Usage
  B00 B5 BGJ-CC        Bagjas - CC-Steuerung
  B00 B0 BGJ-Nachl.    Bagjas - Nachlaeufer
  B00 B3 BGJ-Vorl.    Bagjas - Vorlaeufer
  B00 BP Browse Proc  Browse - Called Procedure
  B00 HL Browse HSM List Browse - HSM List command
  B00 B  Browse Job   Browse - Job
  CND JU JCL+Proc     Browse - JCL with
  CND C  Listcat      Browse - Listcat
  
```

```

----- JCL - DSN ----- ROW 0001-0014 OF 9999
Command ==> PAGE

Gendays (run days of an application)
COMMAND ==> _
Hints: scroll with PF7 and PF8
Colors: NN Run on free day
        NN Run on work day
        NN Work day, no run
        NN Free day, no run

Application: XINFODB2DEMO
Status      : A
Valid from  : 20040128
to          : 20711231

January 2018 February 2018 March 2018
Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su
01 02 03 04 05 06 07 01 02 03 04 05 06 07 01 02 03 04
08 09 10 11 12 13 14 05 06 07 08 09 10 11 12 13 14 15 16 17 18
15 16 17 18 19 20 21 12 13 14 15 16 17 18 19 20 21 22 23 24 25
22 23 24 25 26 27 28 19 20 21 22 23 24 25 19 20 21 22 23 24 25
29 30 31 26 27 28 26 27 28 29 30 31

April 2018 May 2018 June 2018
Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su
01 02 03 04 05 06 07 08 09 10 11 12 13 01 02 03
09 10 11 12 13 14 15 14 15 16 17 18 19 20 04 05 06 07 08 09 10
16 17 18 19 20 21 22 21 22 23 24 25 26 27 18 19 20 21 22 23 24
23 24 25 26 27 28 29 28 29 30 31 25 26 27 28 29 30
30
  
```

```

----- JCL - DSN -----
Command ==>

Top : Legend SAVE SORT Find STMA A
      ALL FIX SHOW EditsQL Info Tables Group RERefresh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job
         JU JCL+Proc BD Browse DSN C Listcat J Job PJ PGM/PROC DS Dataset
         PC ProcParm SM SMF US SMF/DSN JT Job/Table JB Job/DBD 0 Oper ...

Jobname SNr Program DD-Name CNr DSN
-----
A00DXN0A 1 IEBCGENR SYSIN 0 DUMMY
A00DXN0A 1 IEBCGENR SYSUT1 0 B00.PSS.PROD.JOBRDR
A7141TJB 1 IEFBR14 SYSIN 0 BRIAN.TRANDATE.%GL1923
A7141TJB 1 IEFBR14 GLFILE 0 BRIAN.TRANLOG.%$GL0201
B00HGFP3 1 IEBR14 SYSIN 0 *
B00HGFP3 2 GJTRABTR SYSEXEC 0 BRIAN.REXX.PROJECT
B00HGFP3 2 GJTRABTR SYSTSIN 0 *
B00HGFP3 2 GJTRABTR INIFILE 0 *
B00HGFP3 2 GJTRABTR JUPCA7 0 BRIAN.CA7.JCL
B00HGFP3 2 GJTRABTR JUPOPC 0 BRIAN.OPCP.JCL
B00HGFP3 2 GJTRABTR OUTFILE 0 BRIAN.COMPARE.LIST
CNDJA 1 RCTEST STEPLIB 0 SYSH.FREWARE.LOAD
CNDJR1 2 ROTIWAIT STEPLIB 0 SYSH.FREWARE.LOAD
CNDZA 1 RCTEST STEPLIB 0 SYSH.FREWARE.LOAD
  
```

Yes? Don't forget:  
[info@horizont-it.com](mailto:info@horizont-it.com)

# ISPF Dialog – Primary Commands

LEGEND

SORT

FIND

FIX

ARRANGE

ALL

STAT

GROUP

LIBS

SAVE

XBROWSE

BATCH

EXIT

SHOW

INFO

TABLES

EDITSQL

LISTLC

# ISPF Dialog – Primary Commands

XINFO has Primary Commands, which are working on all lines.

- Commands like SORT, ARRANGE and FIX are modifying the style of the Output Table
- Commands like STATS, SAVE or SHOW are calling XINFO functions which are based on all selected data
- Commands like LEGEND, Tables and LIBS are displaying additional information



# ISPF Dialog – Primary Commands

```
Sitzung A
----- JCL - DSN ----- Too many rows
Command ==> _ SCROLL ==> PAGE

Top   : Legend SAVE SORT Find STAT LIBS BATCH Arrange Exit
        ALL FIX SHOW EditSQL Info Tables Group Refresh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job
        JU JCL+Proc BD Browse DSN C Listcat J Job PJ PGM/PROC DS Dataset
        PC ProcParm SM SMF US SMF/DSN JT Job/Table JB Job/DBD O Oper ...

Jobname  SNr Program  DD-Name  CNr DSN
-----  ---  -
A00DXN0A  1 IEBGENER  SYSIN    0 DUMMY
A00DXN0A  1 IEBGENER  SYSUT1   0 B00.PSS.PROD.JOBRDR
A7141TJB  1 IEFBR14   SYSIN    0 BRIAN.TRANDATE.%GL1923
A7141TJB  1 IEFBR14   GLFILE   0 BRIAN.TRANLOG.%%$GLO201
B00HGFP3  1 IEBR14    SYSIN    0 *
B00HGFP3  2 GJTRABTR  SYSEXEC  0 BRIAN.REXX.PROJECT
B00HGFP3  2 GJTRABTR  SYSTSIN  0 *
B00HGFP3  2 GJTRABTR  INIFILE  0 *
B00HGFP3  2 GJTRABTR  JUPCA7   0 BRIAN.CA7.JCL
B00HGFP3  2 GJTRABTR  JUPOPC   0 BRIAN.OPCP.JCL
B00HGFP3  2 GJTRABTR  OUTFILE  0 BRIAN.COMPARE.LIST
CNDJA     1 RCTEST    STEPLIB  0 SYSH.FREWARE.LOAD
CNDJR1    2 ROTIWAIT  STEPLIB  0 SYSH.FREWARE.LOAD
CNDZA     1 RCTEST    STEPLIB  0 SYSH.FREWARE.LOAD
```

The Primary Commands are listed here ...

# ISPF Dialog – Help

```
Sitzung A
----- Help for XINFO (Table Panel) ----- Page 2 of 6
Command ===> _

The following primary commands are available within the table panel:
Legend - Show explanations for the column headers
SAVE - Save the result to a dataset
SORT - Sort the result on one or more columns
Find - Find a character string in the result list
STAT - Show some statistical values for a specific column
LIBS - Show a table with the used JCL Libraries
BATCH - Generate a batch job for the last query
Arrange - Change the order of the columns in the panel
EXIT - Go back to the start panel
ALL - Execute a line command for all rows in the result
FIX - Fix one or more columns when scrolling left/right
SHOW, SHOWLC - Show the SQL. Use SHOWLC if a ...
Info - Browse a dataset with information about XINFO
Tables - Browse a dataset with the datastructures of XINFO
Group - Count the occurrences of different data
SUPpress - Don't display possible commands
EXTend - Display possible commands
XBrowse, XEdit - Browse/Edit the DSN that is used in the SAVE command
REFresh - Re-execute SQL to update the data
(Continued on the next page)
```

Use Help (PF1) to get an overview about all Primary Commands!

# ISPF Dialog – LEGEND (1)

```
Sitzung A
----- JCL - DSN ----- ROW 0001-0014 OF 9999
Command ==> LEGEND_ SCROLL ==> PAGE
Top : Legend SAVE SORT Find STAT LIBS BATCH Arrange Exit
      ALL FIX SHOW EditSQL Info Tables Group REFRfresh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job
        JU JCL+Proc BD Browse DSN C Listcat J Job PJ PGM/PROC DS Dataset
        PC ProcParm SM SMF US SMF/DSN JT Job/Table JB Job/DBD 0 Oper ...

Jobname  SNr Program  DD-Name  CNr DSN
-----
A00DXN0A  1 IEBGENER  SYSIN     0 DUMMY
A00DXN0A  1 IEBGENER  SYSUT1    0 B00.PSS.PROD.JOBRDR
A7141TJB  1 IEFBR14   SYSIN     0 BRIAN.TRANDATE.%GL1923
A7141TJB  1 IEFBR14   GLFILE    0 BRIAN.TRANLOG.%$GL0201
B00HGFP3  1 IEBR14   SYSIN     0 *
B00HGFP3  2 GJTRABTR  SYSEXEC   0 BRIAN.REXX.PROJECT
B00HGFP3  2 GJTRABTR  SYSTSIN   0 *
B00HGFP3  2 GJTRABTR  INIFILE   0 *
B00HGFP3  2 GJTRABTR  JUPCA7    0 BRIAN.CA7.JCL
B00HGFP3  2 GJTRABTR  JUPOPC    0 BRIAN.OPCP.JCL
B00HGFP3  2 GJTRABTR  OUTFILE   0 BRIAN.COMPARE.LIST
CNDJA     1 RCTEST    STEPLIB   0 SYSH.FREWARE.LOAD
CNDJR1    2 ROTIWAIT  STEPLIB   0 SYSH.FREWARE.LOAD
CNDZA     1 RCTEST    STEPLIB   0 SYSH.FREWARE.LOAD
```

Type in  
LEGEND ...

LEGEND\_

# ISPF Dialog – LEGEND (2)

Sitzung A

----- Legend for Table Panel ----- ROW 001 TO 017 OF 063  
Command ==> \_ SCROLL ==> PAGE

Display : JCL - DSN

No	Actual	Header	Label		DB2	/	Panel
1	Jobname		Jobname		8	=	8
2	SNr		Member		3	=	3
3	Program		Programname		8	=	8
4	DD-Name		DD-Name		8	=	8
5	CNr		Concat-Number		3	=	3
6	DSN		Dataset Name		44	=	44
7	Mem/Gen.		Member/Generation		8	=	8
8	DIS		Disposition		3	=	3
9	Called-P		Called Procedure		8	=	8
10	Proclib (called)		Proclib (called)		44	>	28
11	LRECL		LRECL		5	=	5
12	BLKSZ		BLKSIZE		10	>	5
13	RECF		RECFM		4	=	4
14	ORG		DSORG		3	=	3
15	Key		KEYLEN		3	=	3
16	DCB (Rest)		DCB (Rest)		30	>	13
17	EXPDT		EXPDT		8	>	5

Legend explains all columns of the actual display, e.g. "CNr" = Concat-Number

# ISPF Dialog – SORT (1)

```
Sitzung A
----- JCL - DSN -----
Command ==> SORT_
Too many rows
SCROLL ==> PAGE

Top : Legend SAVE SORT Find STAT LIBS BATCH Arrange Exit
      ALL FIX SHOW EditSQL Info Tables Group REFresh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job
          JU JCL+Proc BD Browse DSN C Listcat J Job PJ PGM/PROC DS Dataset
          PC ProcParm SM SMF US SMF/DSN JT Job/Table JB Job/DBD O Oper ...

Jobname  SNr Program  DD-Name  CNr DSN
-----  -
A00DXN0A  1 IEBCGENR  SYSIN    0 DUMMY
A00DXN0A  1 IEBCGENR  SYSUT1   0 B00.PSS.PROD.JOBRDR
A7141TJB  1 IEFBR14   SYSIN    0 BRIAN.TRANDATE.%GL1923
A7141TJB  1 IEFBR14   GLFILE   0 BRIAN.TRANLOG.%"$GL0201
B00HGFP3  1 IEBR14    SYSIN    0 *
B00HGFP3  2 GJTRABTR  SYSEXEC  0 BRIAN.REXX.PROJECT
B00HGFP3  2 GJTRABTR  SYSTSIN  0 *
B00HGFP3  2 GJTRABTR  INIFILE  0 *
B00HGFP3  2 GJTRABTR  JUPCA7   0 BRIAN.CA7.JCL
B00HGFP3  2 GJTRABTR  JUPCA7   0 BRIAN.CA7.JCL
B00HGFP3  2 GJTRABTR  OUTFILE  0 BRIAN.COMPARE.LIST
CNDJA     1 RCTEST    STEPLIB  0 SYSH.FREWARE.LOAD
CNDJR1    2 ROTIWAIT  STEPLIB  0 SYSH.FREWARE.LOAD
CNDZA     1 RCTEST    STEPLIB  0 SYSH.FREWARE.LOAD
```

Use the SORT command ...

You can use SORT + Column to sort after a specific column (e.g. SORT 6)

... to display the table in a sorted order

# ISPF Dialog – SORT (2)

Sitzung A

----- JCL - DSN ROW 1541-1554 OF 9999  
Command ==> **SORT DSN\_** SORT together with the column name ... SCROLL ==> PAGE

Top : Legend SAVE SORT Find STAT LIBS BATCH Arrange Exit  
ALL FIX SHOW EditSQL Info Tables Group REfresh

Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job  
JU JCL+Proc BD Browse DSN C Listcat J Job PJ PGM/PROC DS Dataset  
PC ProcParm SM SMF US SMF/DSN JT Job/Table JB Job/DBD O Oper ...

Jobname	SNr	Program	DD-Name	CNr	DSN
XXRJCC	2	XXRCC	INCI004	0	CSQ800.SCSQHPPS
XXRJASM	2	XXRIASM	SYSLIB	5	CSQ800.SCSQMACS
XXRJBGJ	2	XXRIBGJ3	TERMIN01	0	DATA.BAGJAS82.TERMIN01
TEST04	1	IEFBR14	SYSUT1	0	DATA.NEW.DSN
SMFDAY1				0	DATA.SMFDUMP
SMFDAY1				0	DATA.SMFDUMP
SMFDAY1				0	DATA.SMFTEMP
SMFDAY1				0	DATA.SMFTEMP
GDGJ204				0	DATA.TST.GDGJX01.GDG01
GDGJ203				0	DATA.TST.GDGJX01.GDG01
GDGJ204	2	IEFBR14	GDG01I	0	DATA.TST.GDGJX01.GDG01
GDGJ201	1	IEFBR14	GDG010	0	DATA.TST.GDGJX01.GDG01
GDGJ202	1	IEFBR14	GDG010	0	DATA.TST.GDGJX01.GDG01
GDGJ102#	1	IEFBR14	GDG01I	0	DATA.TST.GDGJ101.GDG01

MA A

... sorts all rows according to the selected column

# ISPF Dialog – SORT (3)

```
Sitzung A
----- Default Sort Order ----- ROW 001 TO 017 OF 063
Command ===>

DEL Delete Sort Order ADMIN Use ADMIN Defaults
Sort: 1-9, 1 is the first Field, Dir: A(a) on P(1)

Sort  Dir  Label                Column-Header
--  --  ---                ---
--  --  ACCODE             ACCODE
--  --  AMP               AMP
--  --  AVGREC            AVGREC
--  --  Additional Info  Additional Info
--  --  BLKSZLIM          BLKSZLIM
--  --  BLKSIZE           BLKSIZE
--  --  Concat-Number    CNR
--  --  CCSID            CCSID
--  --  CHKPT            CHK
--  --  CNTL             CNTL
--  --  Called Procedure Called-P
--  --  Dataset Name     DSNAME
--  --  DSORG            ORG
--  --  DCB (Rest)      DCB (Rest)
--  --  DATACLAS       DATACLAS
--  --  Disposition     DIS
--  --  DDNAME          DDNAME
```

Use column "Sort" to specify the sequence of the data fields by which you want to sort.

Use column "Dir" to specify the sort sequence for this data field: a for descending, d for ascending.

2 d  
1 a

# ISPF Dialog – SORT (4)

```
Sitzung A
----- Default Sort Order ----- ROW 001 TO 017 OF 063
Command ==> _ SCROLL ==> PAGE

DEL Delete Sort Order ADMIN Use ADMIN Defaults
Sort: 1-9, 1 is the first Field, Dir: A(sc) or D(esc)

Sort  Dir  Label                Column-Header
1     A     DDNAME                DDNAME
2     D     Dataset Name         DSN
-     -     AVGREC                AVGREC
-     -     Additional Info     Additional Info
-     -     ACCODE                ACCODE
-     -     AMP                    AMP
-     -     BLKSZLIM              BLKSZLIM
-     -     BLKSIZE                BLKSZ
-     -     CHKPT                  CHK
-     -     CNTL                  CNTL
-     -     Called Procedure     Called-P
-     -     Concat-Number        CNr
-     -     CCSID                CCSID
-     -     DCB (Rest)           DCB (Rest)
-     -     DATACLAS            DATACLAS
-     -     Disposition          DIS
-     -     DSORG                ORG
```

Confirm the sort sequence with ENTER. You can delete the sort sequence with DEL.



# ISPF Dialog – SORT (5)

- SORT (without parameter) sorts according to the first column.
- SORT n sorts according to the nth columns (from the left).
- SORT Header sorts according to the column “Header”. If a heading contains blanks, it has to be entered in apostrophes, e.g., SORT ‘Valid Form’.
- SORT 1 DESC sorts according to the first column, in descending order.
- SORT 1 d, 3 a sorts in descending order according to the first column, and in descending order according to the third.

# ISPF Dialog – FIND (1)

----- JCI - DSN ----- XXRJCI02 found  
Command ==> **FIND XXRJCI02** Use FIND ... SCROLL ==> PAGE

Top : Legend SAVE SORT Find STAT LIBS BATCH Arrange Exit  
ALL FIX SHOW EditSQL Info Tables Group REFresh

Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job  
JU JCL+Proc BD Browse DSN C Listcat J Job PJ PGM/PROC DS Dataset  
PC ProcParm SM SMF US SMF/DSN JT Job/Table JB Job/DBD 0 Oper ...

Jobname	SNr	Program	DD-Name	CNr	DSN
XXRJCI02	2	DFHCSDUP	DFHCSD	0	DFH510.CICS.DFHCSO
XXRJCI02	0		JOBLIB	1	DFH510.CICS.SDFHLOAD
XXRJCI01	2	DFHCSDUP	DFHCSD	0	DFH520.CICS.DFHCSO
XXRJCOB	2	XXRCCOB	INCI001	0	DFH520.CICS.SDFHCOB
XXRJCC	2	XXRCC	SYSI007	0	DFH520.CICS.SDFHC370
XXRJCI01	0		JOBLIB	1	DFH520.CICS.SDFHLOAD
XXRJCOB	2	XXRCCOB	INCI003	0	DFH520.CICS.SDFHSAMP
XXRJCOB	2	XXRCCOB	SRCI002	0	DFH520.CICS.SDFHSAMP
XXRJD202	0		JOBLIB	1	DSNA10.DBAG.SDSNEXIT
XXRJD202	0		JOBLIB	2	DSNA10.SDSNLOAD
DB2COMP	0		JOBLIB	0	DSNB10.DBBG.SDSNEXIT
DB2COB2	0		JOBLIB	0	DSNB10.DBBG.SDSNEXIT
DB2COB2T	0		JOBLIB	0	DSNB10.DBBG.SDSNEXIT
DB2PL11	0		JOBLIB	0	DSNB10.DBBG.SDSNEXIT

MA A

... to locate the desired expression in column one ...

# ISPF Dialog – FIND (2)

Sitzung A

----- JCL - DSN ----- I0011

Command ==> **FIND DD-NAME I0011**

Top : Legend SAVE SORT Find STAT LIBS BATCH Arrange Exit  
ALL FIX SHOW EditSQL Info Tables Group REfresh

Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job  
JU JCL+Proc BD Browse DSN C Listcat J Job PJ PGM/PROC DS Dataset  
PC ProcParm SM SMF US SMF/DSN JT Job/Table JB Job/DBD O Oper ...

Jobname	SNr	Program	DD-Name	CNr	DSN
XXRJCI01	6	XXRIADK	I0011	0	88XXRTCIA
XXRJCI01	4	XXR2CI4J	XXRTCIA	0	88XXRTCIA
XXRJCI02	4	XXR2CI4J	XXRTCIA	0	88XXRTCIA
XXRJCI02	6	XXRIADK	I0011	0	88XXRTCIA
XXRJCI01	6	XXRIADK	I0012	0	88XXRTCIB
XXRJCI01	4	XXR2CI4J	XXRTCIB	0	88XXRTCIB
XXRJCI02	6	XXRIADK	I0012	0	88XXRTCIB
XXRJCI02	4	XXR2CI4J	XXRTCIB	0	88XXRTCIB
XXRJCI02	4	XXR2CI4J	XXRTCIC	0	88XXRTCIC
XXRJCI01	6	XXRIADK	I0013	0	88XXRTCIC
XXRJCI02	6	XXRIADK	I0013	0	88XXRTCIC
XXRJCI01	4	XXR2CI4J	XXRTCIC	0	88XXRTCIC
XXRJCI02	6	XXRIADK	I0014	0	88XXRTCID
XXRJCI01	6	XXRIADK	I0014	0	88XXRTCID

MA A

... or use the FIND command together with the column name ...

... to locate the desired expression in any column

# ISPF Dialog – FIND (3)

```
Sitzung A
----- Define Options for Dialog -----
Command ==>

More: +

Please insert the characters which should be recognized as wildcards
for generic search arguments.
Wildcard 1 ==> * (0 to n characters)
Wildcard 2 ==> % (any single character)

Should the FIND Command always search all columns (Y) or only the first?
All Columns ==> Y (Y/N)
If N is specified, XINFO normally searches only the first column in a table
panel. You may then enter a specific column or * to search in all columns.

Specify the maximum number of result lines in the table panel:
Max. Rows ==> 9999 (1 - 99999)

Should the entries in the Start-Panel be grouped?
A change to this option will be effective after the next program start!
Group Entries ==> Y (Y/N)

Show several lines for long columns in search and detail panel?
Several Lines ==> _ (Y/N)
```

PS.: If you like to search always all columns (instead of column 1), than go to Options and choose Y

# ISPF Dialog – FIND (4)

- FIND <string> searches for <string>
- FIND <string> n searches for <string> in the column <n>
- FIND <string> \* to search all columns
- FIND <string> First|Last|Next|Prev searches for <string> in the specified direction or position
- FIND <string> ALL counts the number of rows in which <string> was found
- RFIND continues to search in the same direction for the previously specified string

# ISPF Dialog – FIX (1)

Command ==> **FIX 2\_** JCL - DSN - Fix Cols set to 2  
SCROLL ==> PAGE

Top : Legend SAVE SORT Find STAT LIBS BATCH Arrange Exit  
ALL FIX SHOW EditSQL Info Tables Group REfresh

Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job  
JU JCL+Proc BD Browse DSN C Listcat J Job PJ PGM/PROC DS Dataset  
PC ProcParm SM SMF US SMF/DSN JT Job/Table JB Job/DBD 0 Oper ...

Jobname	SNr	Program	DD-Name	CNr	DSN
A00DXN0A	1	IEBGENER	SYSIN	0	DUMMY
A00DXN0A	1	IEBGENER	SYSUT1	0	B00.PSS.PROD.JOBRDR
A7141TJB	1	IEFBR14	SYSIN	0	BRIAN.TRANDATE.%GL1923
A7141TJB	1	IEFBR14	GLFILE	0	BRIAN.TRANLOG.%\$GLO201
B00HGFP3	1	IEBR14	SYSIN	0	*
B00HGFP3	2	GJTRABTR	SYSEXEC	0	BRIAN.REXX.PROJECT
B00HGFP3	2	GJTRABTR	SYSTSIN	0	*
B00HGFP3	2	GJTRABTR	INIFILE	0	*
B00HGFP3	2	GJTRABTR	JUPCA7	0	BRIAN.CA7.JCL
B00HGFP3	2	GJTRABTR	JUPOPC	0	BRIAN.OPCP.JCL
B00HGFP3	2	GJTRABTR	OUTFILE	0	BRIAN.COMPARE.LIST
CNDJA	1	RCTEST	STEPLIB	0	SYSH.FREWARE.LOAD
CNDJR1	2	ROTIWAIT	STEPLIB	0	SYSH.FREWARE.LOAD
CNDZA	1	RCTEST	STEPLIB	0	SYSH.FREWARE.LOAD

# ISPF Dialog – FIX (2)

--- JCL - DSN --- ROW 0001-0014 OF 9999  
SCROLL ==> PAGE

Sort Find STAT L BATCH Arrange Exit  
ALL FIX SHOW EditSQL Info Tables Group REFresh  
Bottom ? List all Line Commands S Select P Dependencies B Browse Job  
JU JCL+Proc BD Browse DSN C List Job PJ PGM/PROC DS Dataset  
PC ProcParm SM SMF US SMF/DSN JT Job/Table JB Job/DBD 0 Oper ...

Jobname	SNR	ORDER	SYMBOLS	MAXGENS	JCL-Lib	Member	Additional Info
A00DXN0A	1				SYSH.TXGC.JOBLIB	A00DXN0A	
A00DXN0A	1				SYSH.TXGC.JOBLIB	A00DXN0A	
A7141TJB	1				SYSH.TXGC.JOBLIB	A7141TJB	
A7141TJB	1				SYSH.TXGC.JOBLIB	A7141TJB	
B00HGFP3	1				SYSH.TXGC.JOBLIB	B00HGFP3	
B00HGFP3	2				SYSH.TXGC.JOBLIB	B00HGFP3	
B00HGFP3	2				SYSH.TXGC.JOBLIB	B00HGFP3	
B00HGFP3	2				SYSH.TXGC.JOBLIB	B00HGFP3	
B00HGFP3	2				SYSH.TXGC.JOBLIB	B00HGFP3	
B00HGFP3	2				SYSH.TXGC.JOBLIB	B00HGFP3	
B00HGFP3	2				SYSH.TXGC.JOBLIB	B00HGFP3	
B00HGFP3	2				SYSH.TXGC.JOBLIB	B00HGFP3	
CNDJA	1				SYSH.TXGC.JOBLIB	CNDJA	
CNDJR1	2				SYSH.TXGC.JOBLIB	CNDJR1	
CNDZA	1				SYSH.TXGC.JOBLIB	CNDZA	

# ISPF Dialog – ARRANGE (1)

```
Sitzung A
----- Design of the Table Panel ----- ROW 001 TO 018 OF 063
Command ==> ARRANGE_ SCROLL ==> PAGE
Please use M or MM and A or B to change the order or RES for Reset

Label          Width Column-Name
--- Jobname    008 Jobname
--- Stepnumber  003 SNr
--- Programname 008 Program
--- DD-Name     008 DD-Name
--- Concat-Number 003 CNr
--- Dataset Name 044 DSN
--- Member/Generation 008 Mem/Gen.
--- Disposition  003 DIS
--- Called Procedure 008 Called-P
--- Proclib (called) 028 Proclib (called)
--- LRECL       005 LRECL
--- BLKSIZE     005 BLKSZ
--- RECFM       004 RECF
--- DSORG       003 ORG
--- KEYLEN      003 Key
--- DCB (Rest)  013 DCB (Rest)
--- EXPDT       005 EXPDT
--- RETPD       004 RETP

MA A
```

The ARRANGE command enables you to modify the display (for your eyes only!)



# ISPF Dialog – ARRANGE (2)

Sitzung A

----- Design of the Table Panel ----- Order restored  
Command ==> SCROLL ==> PAGE

Please use M or MM and A or B to change the order or RES for Reset

Label	Width	Column-Header
— Jobname	008	Jobname
— Stepnumber	003	SNr
<b>M_</b> Programname	008	Program
— DD-Name	008	DD-Name
— Concat-Number	003	CNr
<b>A_</b> Dataset Name	<b>035</b>	<b>DSN</b>
— Member/Generation	008	Mem/Gen.
— Disposition	003	DIS
— Called Procedure	008	Called-P
— Proclib (called)	014	Proclib (called)
— LRECL	008	LRECL
— BLKSIZE	010	BLKSIZE
— RECFM	004	RECFM
— DSORG	003	ORG
— KEYLEN	003	Key
— DCB (Rest)	030	DCB (Rest)
— EXPDT	008	EXPDT
— RETPD	004	RETPD

MA A

E.g. Specify a smaller number

Change the sequence of columns with "M" and "A" (moves the column after the selected) or "M" and "B" (moves the column before the selected) or limit length of Column

# ISPF Dialog – RESET

```
Sitzung A
----- Design of the Table Panel ----- ROW 001 TO 018 OF 063
Command === RESET_ SCROLL ==> PAGE

Please use M or MM and A or B to change the order or RES for Reset

Label          Width Column-Header
--- Jobname    008 Jobname
--- Stepnumber 003 SNr
--- Programname 008 Program
--- DD-Name     008 DD-Name
--- Concat-Number 003 CNr
--- Dataset Name 044 DSN
--- Member/Generation 008 Mem/Gen.
--- Disposition 003 DIS
--- Called Procedure 008 Called-P
--- Proclib (called) 028 Proclib (called)
--- LRECL       005 LRECL
--- BLKSIZE     005 BLKSZ
--- RECFM       004 RECF
--- DSORG       003 ORG
--- KEYLEN      003 Key
--- DCB (Rest)  013 DCB (Rest)
--- EXPDT       005 EXPDT
--- RETPD       004 RETP

MA A
```

RESET (or RES) restores the original sequence

# ISPF Dialog – ALL (1)

```
Sitzung A
----- JCL - DSN ----- ROW 3390-3403 OF 9999
Command ==> SCROLL ==> PAGE

Top   : Legend  SAVE  SORT  Find  STAT  LIBS  BATCH  Arrange  EXit
        ALL  FIX  SHOW  EditSQL  Info  Tables  Group  REFresh
Bottom: ? List all Line Commands S Select  DP  Dependencies B Browse Job
        JU JCL+Proc  BD  Browse DSN  C Listcat  J Job  PJ PGM/PROC  DS Dataset
        PC ProcParm  SM  SMF  US  SMF/DSN  JT Job/Table  JB Job/DBD  O Oper ...

Jobname  SNr  Program  DD-Name  CNr  DSN
-----
XXRJCAD  1  IDCAMS  SYSIN      0  SYSH.XINFO.V3R6.DATA.XXRTCDT
XXRJCAD  1  IDCAMS  SYSIN      0  SYSH.XINFO.V3R6.DATA.XXRTCDS
XXRJCAD  2  XXRICAD  ADDKEY     0  *
XXRJCAD  2  XXRICAD  ADDKEY     1  SYSH.XINFO.V3R6.PARM
XXRJCAD  2  XXRICAD  PWDIN      0  SYSH.XINFO.V3R6.PARM
XXRJCAD  2  XXRICAD  CADI       0  SYSH.XINFO.V3R6.DATA.CADREPD
XXRJCAD  2  XXRICAD  CADOCDI    0  SYSH.XINFO.V3R6.DATA.XXRTCDI
XXRJCAD  2  XXRICAD  CADOCDR    0  SYSH.XINFO.V3R6.DATA.XXRTCDR
XXRJCAD  2  XXRICAD  CADOCDT    0  SYSH.XINFO.V3R6.DATA.XXRTCDT
XXRJCAD  2  XXRICAD  CADOCDS    0  SYSH.XINFO.V3R6.DATA.XXRTCDT
SM XXRJCC  0  *
XXRJCC   1  IDCAMS  SYSIN      0  *
XXRJCC   1  IDCAMS  SYSIN      0  SYSH.XINFO.V3R6.DATA.XXRTCDT
XXRJCC   1  IDCAMS  SYSIN      0  SYSH.XINFO.V3R6.DATA.XXRTCDS
MA A
```

Normally a Line Command like “SM” lists all SMF records for the job in the selected line (here XXRJCC) ...

# ISPF Dialog – ALL (2)

```
Sitzung A
----- SMF - Step Information ----- ROW 001 TO 005 OF 005
Command ==> _ SCROLL ==> PAGE

Top   : Legend SAVE SORT Find STAT LIBS BATCH Arrange Exit
        ALL FIX SHOW EditSQL Info Tables Group REfresh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job
        JU JCL+Proc J Job PJ PGM/PROC DS Dataset PC ProcParm US SMF/DSN
        JT Job/Table JB Job/DBD O Oper SU Succ. P Pred. JH Job-Hist. ...

Jobname SNr Owner Program RetCode Start-Time          Durat. Dif.SU Stepn
-----
XXRJCC  5 P391H SORT          2018-08-24-11.24.25.03          0      14 SORT
XXRJCC  4 P391H SORT          2018-08-24-11.24.24.87          0      14 SORT
XXRJCC  3 P391H SORT          2018-08-24-11.24.24.70          0      13 SORT
XXRJCC  2 P391H XXRCC   CC 0004 2018-08-24-11.24.12.83          12       2 XXRCC
XXRJCC  1 P391H IDCAMS          2018-08-24-11.24.12.64          0       1 IDCAM
***** BOTTOM OF DATA *****
```

Here we have all SMF records for the selected Job XXRJCC

# ISPF Dialog – ALL (3)

```
Sitzung A
----- JCL - DSN ----- ROW 3400-3413 OF 9999
Command ==> ALL SMF_ SCROLL ==> PAGE
Top : Legend SAVE SORT Find STAT LIBS DSN
      ALL FIX SHOW EditSQL Info Tables Group REFRESH
Bottom: ? List all Line Commands S Select DP Dependencies B Br
          JU JCL+Proc BD Browse DSN C Listcat J Job PJ PGM/PR
          PC ProcParm SM SMF US SMF/DSN JT Job/Table JB Job/D

Jobname  SNr Program  DD-Name  CNr DSN
--- XXRJCC    0      JOBLIB    0 SYSH.XINFO.V3R6.LOAD
--- XXRJCC    1 IDCAMS   SYSIN     0 *
--- XXRJCC    1 IDCAMS   SYSIN     0 SYSH.XINFO.V3R6.DATA.XXRTCC0
--- XXRJCC    1 IDCAMS   SYSIN     0 SYSH.XINFO.V3R6.DATA.XXRTCC1
--- XXRJCC    1 IDCAMS   SYSIN     0 SYSH.XINFO.V3R6.DATA.XXRTCC2
--- XXRJCC    1 IDCAMS   SYSIN     0 SYSH.XINFO.V3R6.DATA.XXRTCC3
--- XXRJCC    1 IDCAMS   SYSIN     0 SYSH.XINFO.V3R6.DATA.XXRTCC4
--- XXRJCC    1 IDCAMS   SYSIN     0 SYSH.XINFO.V3R6.DATA.XXRTCC5
--- XXRJCC    1 IDCAMS   SYSIN     0 SYSH.XINFO.V3R6.DATA.XXRTCC6
--- XXRJCC    1 IDCAMS   SYSIN     0 SYSH.XINFO.V3R6.DATA.XXRTCC7
--- XXRJCC    1 IDCAMS   SYSIN     0 SYSH.XINFO.V3R6.DATA.XXRTCC8
--- XXRJCC    1 IDCAMS   SYSIN     0 SYSH.XINFO.V3R6.DATA.XXRTCC9
--- XXRJCC    1 IDCAMS   SYSIN     0 SYSH.XINFO.V3R6.DATA.XXRTCCA
--- XXRJCC    2 XXRCC   ADDKEY    0 *
```

The combination of the Primary Command “ALL” with the Line Command “SMF” ...

# ISPF Dialog – ALL (4)

```
Sitzung A
----- SMF - Step Information ----- ROW 0001-0014 OF 9999
Command ==> _ SCROLL ==> PAGE

Top   : Legend SAVE SORT Find STAT LIBS BATCH Arrange Exit
        ALL FIX SHOW EditSQL Info Tables Group REFresh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job
        JU JCL+Proc J Job PJ PGM/PROC DS Dataset PC ProcParm US SMF/DSN
        JT Job/Table JB Job/DBD O Oper SU Succ. P Pred. JH Job-Hist. ...

Jobname  SNr Owner  Program  RetCode  Start-Time          Durat.  Dif.SU  S
-----  -
$GRANT   1  IBMUSER IKJEFT1B  2018-07-29-19.06.34.41  1      0  D
$GRANT   1  P391H   IKJEFT1B  2018-07-09-14.04.36.37  0      0  D
$GRANT   1  IBMUSER IKJEFT1B  2018-05-09-14.50.37.11  0      0  D
$GRANT   1  IBMUSER IKJEFT1B  2018-05-09-14.44.55.99  1      1  D
$GRANT   1  P390C   IKJEFT1B  CC 0008  2018-05-09-14.43.45.41  0      0  D
$GRANT   1  P390C   IKJEFT1B  CC 0008  2018-05-09-14.43.06.63  0      0  D
$GRANT   1  P390C   IKJEFT1B  CC 0008  2018-05-09-14.41.39.82  0      0  D
CNDJA    1  TXGC    RCTEST   CC 0008  2018-08-28-06.00.00.74  0      0  S
CNDJA    1  TXGC    RCTEST   CC 0008  2018-08-27-06.00.01.20  0      0  S
CNDJA    1  TXGC    RCTEST   CC 0008  2018-08-24-06.00.01.73  0      0  S
CNDJA    1  TXGC    RCTEST   CC 0008  2018-08-23-06.00.01.30  0      0  S
CNDJA    1  TXGC    RCTEST   CC 0008  2018-08-22-06.00.01.50  0      0  S
CNDJA    1  TXGC    RCTEST   CC 0008  2018-08-21-06.00.01.85  0      0  S
CNDJA    1  TXGC    RCTEST   CC 0008  2018-08-20-06.00.02.45  0      1  S
```

... results in all SMF records for all previously selected Jobs

# ISPF Dialog – STAT (1)

```
Sitzung A
----- SMF - Step Information ----- ROW 0001-0014 OF 9999
Command ==> STAT DUR_ SCROLL ==> PAGE
Top   : Legend SAVE SORT Find STAT LIBS BATCH
ALL FIX SHOW EditSQL Info Tables Group REFRsh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse
JU JCL+Proc J Job PJ PGM/PROC DS Dataset PC ProcParm U
JT Job/Table JB Job/DBD O Oper SU Succ. P Pred. JH Job-

Jobname  SNr  Owner   Program  RetCode  Start-Time          Durat.  Dif.SU  S
-----  -
$GRANT   1  IBMUSER IKJEFT1B  CC 0008  2018-07-29-19.06.34.41  1      0  D
$GRANT   1  P391H   IKJEFT1B  CC 0008  2018-07-09-14.04.36.37  0      0  D
$GRANT   1  IBMUSER IKJEFT1B  CC 0008  2018-05-09-14.50.37.11  0      0  D
$GRANT   1  IBMUSER IKJEFT1B  CC 0008  2018-05-09-14.44.55.99  1      1  D
$GRANT   1  P390C   IKJEFT1B  CC 0008  2018-05-09-14.43.45.41  0      0  D
$GRANT   1  P390C   IKJEFT1B  CC 0008  2018-05-09-14.43.06.63  0      0  D
$GRANT   1  P390C   IKJEFT1B  CC 0008  2018-05-09-14.41.39.82  0      0  D
CNDJA    1  TXGC    RCTEST    CC 0008  2018-08-28-06.00.00.74  0      0  S
CNDJA    1  TXGC    RCTEST    CC 0008  2018-08-27-06.00.01.20  0      0  S
CNDJA    1  TXGC    RCTEST    CC 0008  2018-08-24-06.00.01.73  0      0  S
CNDJA    1  TXGC    RCTEST    CC 0008  2018-08-23-06.00.01.30  0      0  S
CNDJA    1  TXGC    RCTEST    CC 0008  2018-08-22-06.00.01.50  0      0  S
CNDJA    1  TXGC    RCTEST    CC 0008  2018-08-21-06.00.01.85  0      0  S
CNDJA    1  TXGC    RCTEST    CC 0008  2018-08-20-06.00.02.45  0      1  S
```

The STAT command is useful for numeric or time fields, for example the Job Duration ...

# ISPF Dialog – STAT (2)

```
Sitzung A
----- SMF - Step Information ----- ROW 0001-0014 OF 9999
Comman  Statistics for Durat.          CROLL ==> PAGE
Top
Bottom  Command ==> _
Average          :                200.94
Sum              :            2009195.00
Maximum         :                5401.00
Minimum         :                 0.00
No. of val. Values :            9999.00

Job
--- $GR
--- $GR
--- $GR
--- $GRANT  1  IBMUSER  IKJEFT1B          2018-05-09-14.44.55.99
--- $GRANT  1  P390C   IKJEFT1B  CC  0008  2018-05-09-14.43.45.41
--- $GRANT  1  P390C   IKJEFT1B  CC  0008  2018-05-09-14.43.06.63
--- $GRANT  1  P390C   IKJEFT1B  CC  0008  2018-05-09-14.41.39.82
---  CNDJA   1  TXGC    RCTEST    CC  0008  2018-08-28-06.00.00.74
---  CNDJA   1  TXGC    RCTEST    CC  0008  2018-08-27-06.00.01.20
---  CNDJA   1  TXGC    RCTEST    CC  0008  2018-08-24-06.00.01.73
---  CNDJA   1  TXGC    RCTEST    CC  0008  2018-08-23-06.00.01.30
---  CNDJA   1  TXGC    RCTEST    CC  0008  2018-08-22-06.00.01.50
---  CNDJA   1  TXGC    RCTEST    CC  0008  2018-08-21-06.00.01.85
---  CNDJA   1  TXGC    RCTEST    CC  0008  2018-08-20-06.00.02.45

Durat.  Dif.SU  S
      1      0  D
      0      0  D
      0      0  D
      1      1  D
      0      0  D
      0      0  D
      0      0  S
      0      0  S
      0      0  S
      0      0  S
      0      0  S
      0      0  S
      0      1  S

MA  A
```

... if you like statistics (e.g. average, max & min) ...



# ISPF Dialog – STAT (3)

```
Sitzung A
----- SMF - Step Information ----- ROW 0001-0014 OF 9999
Command ==> STAT 6_ SCROLL ==> PAGE

Top   : Legend SAVE SORT Find STAT LIBS BATCH Arrange
ALL FIX SHOW EditSQL Info Tables Group RERefresh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job
JU JCL+Proc J Job PJ PGM/PROC DS Dataset PC ProcParm US SMF/DSN
JT Job/Table JB Job/DBD O Oper SU Succ. P Pred. JH Job-Hist. ...

Jobname  SNr  Owner   Program  RetCode  Start-Time  Durat.  Dif.SU  S
-----  ---  -
$GRANT   1  IBMUSER IKJEFT1B  CC 0008  2018-07-29-19.06.34.41  1  0 D
$GRANT   1  P391H   IKJEFT1B  CC 0008  2018-07-09-14.04.36.37  0  0 D
$GRANT   1  IBMUSER IKJEFT1B  CC 0008  2018-05-09-14.50.37.11  0  0 D
$GRANT   1  IBMUSER IKJEFT1B  CC 0008  2018-05-09-14.44.55.99  1  1 D
$GRANT   1  P390C   IKJEFT1B  CC 0008  2018-05-09-14.43.45.41  0  0 D
$GRANT   1  P390C   IKJEFT1B  CC 0008  2018-05-09-14.43.06.63  0  0 D
$GRANT   1  P390C   IKJEFT1B  CC 0008  2018-05-09-14.41.39.82  0  0 D
CNDJA    1  TXGC    RCTEST    CC 0008  2018-08-28-06.00.00.74  0  0 S
CNDJA    1  TXGC    RCTEST    CC 0008  2018-08-27-06.00.01.20  0  0 S
CNDJA    1  TXGC    RCTEST    CC 0008  2018-08-24-06.00.01.73  0  0 S
CNDJA    1  TXGC    RCTEST    CC 0008  2018-08-23-06.00.01.30  0  0 S
CNDJA    1  TXGC    RCTEST    CC 0008  2018-08-22-06.00.01.50  0  0 S
CNDJA    1  TXGC    RCTEST    CC 0008  2018-08-21-06.00.01.85  0  0 S
CNDJA    1  TXGC    RCTEST    CC 0008  2018-08-20-06.00.02.45  0  1 S
```

PS.: Instead of the column name you can also specify the column number ...

... to get for example the statistics for "Job Start Time"

# ISPF Dialog – GROUP (1)

----- Group Values ----- ROW 001 TO 014 OF 191  
Command ==> **GROUP\_** SCROLL ==> PAGE

Top : Legend SAVE SORT Find STAT LIBS BATCH Arrange EXit  
ALL FIX SHOW EDITSQL Info Tables Group REFresh

Bottom: > Expand ? List all the Commands S Select DP Dependencies  
B Browse Job JU JCL J Job PJ PGM/PROC DS Dataset PC ProcParm  
US SMF/DSN JT Job/Tab Job/DBD O Oper SU Succ. P Pred. ...

Number	Jobname
30	\$CMPCIVR
18	\$CMPCI2N
22	\$CMPCI20
14	\$CMPCI4J
40	\$CMPCI40
38	\$CMPMOK
16	\$CMP544J
35	\$CMP5440
2	\$COMP4
8	\$GRANT
1	\$PAVEL
2	#XRJBNDD
5	#XRJCI03
5	#XRJDBC2

MA A

GROUP counts the number of occurrences in every column (default is column 1)...

# ISPF Dialog – GROUP (2)

```
Sitzung A
----- Group Values ----- ROW 001 T
Command ==> Sort 1 D_

Top   : Legend  SAVE  SORT  Find  STAT  LIBS  BATCH  Arrange  EXit
       ALL  FIX  SHOW  EditSQL  Info  Tables  Group  REFresh
Bottom: > Expand ? List all Line Commands S Select DP Dependencies
       B Browse Job  JU JCL+Proc  J Job  PJ PGM/PROC  DS Dataset  PC ProcParm
       US SMF/DSN  JT Job/Table  JB Job/DBD  O Oper  SU Succ.  P Pred. ...

Number Jobname
--- 3975 BETAJ01
--- 246 BFGJCPL
--- 205 BFGJCPL2
--- 183 CI54
--- 120 DB2COMP
--- 120 DCPJ02
--- 92 DFHMDI
--- 70 GENLOAD
--- 67 BRIANX
--- 60 CRIT4
--- 60 GDGJ104
--- 60 HOR20015
--- 60 BFGCPLA
--- 60 BFGCEC
```

Use "Sort 1" D to sort descending (D) by frequency within the group display.

3975 times is the job "BETAJ01" listed, 246 times job "BFGJCPL"

# ISPF Dialog – GROUP (3)

```
Sitzung A
----- Group Values ----- ROW 001 TO 014 OF 191
Command ===> SCROLL ===> PAGE

Top   : Legend SAVE SORT Find STAT LIBS BATCH Arrange EXit
        ALL FIX SHOW EditSQL Info Tables Group REFresh
Bottom: > Expand ? List all Line Commands S Select DP Dependencies
        B Browse Job  JU JCL+Proc  J Job  PJ PGM/PROC  DS Dataset  PC ProcParm
        US SMF/DSN  JT Job/Table  JB Job/DBD  O Oper  SU Succ.  P Pred. ...

Number Jobname
3975 BETAJ01
> 246 BFGJCPL
--- 205 BFGJCEC
--- 183 CI54
--- 120 DB2COMP
--- 120 DCPJ02
--- 92 DFHMDI
--- 70 GENLOAD
--- 67 BRIANX
--- 60 CRIT4
--- 60 GDGJ104
--- 60 HOR20015
--- 60 BFGCPLA
--- 60 BFGCEC
```

Use ">" = Expand to list all 246 jobs of jobname "BFGJCPL"

# ISPF Dialog – GROUP (4)

```
Sitzung A
----- SMF - Step Information ----- ROW 001 TO 014 OF 246
Command ==> _ SCROLL ==> PAGE

Top   : Legend  SAVE  TCH  Arrange  Exit
        ALL  FIX  SHO
Bottom: ? List all Li  Dependencies B Browse Job
        JU  JCL+Proc  set  PC ProcParm  US SMF/DSN
        JT Job/Table  JB  J  O Oper  SU Succ.  P Pred.  JH Job-Hist. ...

Jobname SNr Owner Program RetCode Start-Time Durat. Dif.SU Step
-----
BFGJCPL 9 BRIAN IDCAMS 2018-07-05-16.30.50.88 0 3 IDCA
BFGJCPL 8 BRIAN SORT 2018-07-05-16.30.50.66 0 3 SORT
BFGJCPL 7 BRIAN IDCAMS 2018-07-05-16.30.50.53 0 2 IDCA
BFGJCPL 6 BRIAN XXRICLN 2018-07-05-16.30.50.27 0 2 CLEA
BFGJCPL 5 BRIAN SORT 2018-07-05-16.30.49.97 0 2 SORT
BFGJCPL 4 BRIAN IDCAMS 2018-07-05-16.30.49.67 0 2 IDCA
BFGJCPL 3 BRIAN XXRICPLG 2018-07-05-16.30.49.26 0 1 ANYL
BFGJCPL 2 BRIAN XXRICPLG 2018-07-05-16.30.48.47 1 0 ANLY
BFGJCPL 1 BRIAN IEFBR14 2018-07-05-16.30.48.40 0 0 CHEC
BFGJCPL 9 BRIAN IDCAMS FLUSHED 2018-06-21-19.44.26.55 0 3 IDCA
BFGJCPL 8 BRIAN SORT FLUSHED 2018-06-21-19.44.26.52 0 3 SORT
BFGJCPL 7 BRIAN IDCAMS FLUSHED 2018-06-21-19.44.26.50 0 3 IDCA
BFGJCPL 6 BRIAN XXRICLN U 4038 2018-06-21-19.44.26.11 0 2 CLEA
BFGJCPL 5 BRIAN SORT 2018-06-21-19.44.25.84 0 2 SORT
```

The result: All 246 jobs of jobname "BFGJCPL"

# ISPF Dialog – GROUP (5)

```
Sitzung A
----- Group Values ----- ROW 001 TO 014 OF 027
Command ==> GROUP ACCOUNT, 'PROGRAMMERS NAME' SCROLL ==> PAGE
Top   : Legend SAVE SORT Find STAT LIBS BATCH Arrange Exit
       : ALL FIX SHOW EditSQL Info Tables Group Refresh
Bottom: > Expand ? List all Line Commands S Select

Number Account          Programmers Name
-----
803 ACCOUNT            HORIZONT
290
67 9999                TEST
57 ACCOUNT            ITC
18                     HORIZONT
11 20,FB3              IBMUSER
10 ACNT-DATA          CA-7.INSTALL
3                     IOA630
2 4711                PM
2 ABC
2 00,PRAXIS           CA7 , PRAXIS
2 ACCT#               BR14
1 PP                  TEST
1 '&U_ABR#, /A888A   /&U_HILF112#' 22_   _
```

Another example to GROUP:  
How often is a particular  
account in combination with  
“Programers name” used?

# ISPF Dialog – GROUP (6)

```
Sitzung A
----- SMF - Step Information ----- ROW 0001-0014 OF 9999
Command ==> GROUP PROGRAM_ SCROLL ==> PAGE

Top : Legend SAVE SORT Find STAT LIBS BATCH ...
ALL FIX SHOW EditSQL Info Tables Group REFResh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job
JU JCL+Proc J Job PJ PGM/PROC DS Dataset PC ProcParm US SMF/
JT Job/Table JB Job/DBD O Oper SU Succ. P Pred. JH Job-Hist.

Jobname  SNr  Owner   Program  RetCode  Start-Time          Durat.  Dif.SU  S
-----  -
$GRANT   1  IBMUSER IKJEFT1B  CC 0008  2018-07-29-19.06.34.41  1      0  D
$GRANT   1  P391H   IKJEFT1B  CC 0008  2018-07-09-14.04.36.37  0      0  D
$GRANT   1  IBMUSER IKJEFT1B  CC 0008  2018-05-09-14.50.37.11  0      0  D
$GRANT   1  IBMUSER IKJEFT1B  CC 0008  2018-05-09-14.44.55.99  1      1  D
$GRANT   1  P390C   IKJEFT1B  CC 0008  2018-05-09-14.43.45.41  0      0  D
$GRANT   1  P390C   IKJEFT1B  CC 0008  2018-05-09-14.43.06.63  0      0  D
$GRANT   1  P390C   IKJEFT1B  CC 0008  2018-05-09-14.41.39.82  0      0  D
CNDJA    1  TXGC    RCTEST    CC 0008  2018-08-28-06.00.00.74  0      0  S
CNDJA    1  TXGC    RCTEST    CC 0008  2018-08-27-06.00.01.20  0      0  S
CNDJA    1  TXGC    RCTEST    CC 0008  2018-08-24-06.00.01.73  0      0  S
CNDJA    1  TXGC    RCTEST    CC 0008  2018-08-23-06.00.01.30  0      0  S
CNDJA    1  TXGC    RCTEST    CC 0008  2018-08-22-06.00.01.50  0      0  S
CNDJA    1  TXGC    RCTEST    CC 0008  2018-08-21-06.00.01.85  0      0  S
CNDJA    1  TXGC    RCTEST    CC 0008  2018-08-20-06.00.02.45  0      1  S

MA  A
```

An Example: How often is every Account used in your JCL?

# ISPF Dialog – GROUP (7)

```
Sitzung A
----- Group Values ----- ROW 001 TO 011 OF 011
Command ==> _                SCROLL ==> PAGE

Top   : Legend SAVE SORT Find STAT LIBS BATCH Arrange EXit
        ALL FIX SHOW EditSQL Info Tables Group REFresh
Bottom: > Expand ? List all Line Commands S Select 1A FileAccess 1C Call
        1D FileDecl 1G PL1/General 1I PL1/Include 1P Procs 12 PL1/DB2
        2C Call 2D SELECT/ASSIGN 2G COBOL/General 2I COPY ...

Number Program
 11 DSNUTILB
415 IDCAMS
835 IEFBR14
 60 IEFBR15
2157 IKJEFT01
  7 IKJEFT1B
 90 ISRSUPC
 60 OCBICOMG
 31 RCTEST
4299 ROTIWAIT
2034 XXRIWT1

***** BOTTOM OF DATA *****
```

“IDCAMS” is 415 times used



# ISPF Dialog – LIBS (1)

The screenshot shows the ISPF LIBS dialog window. At the top, the window title is "Sitzung A". The command field contains "LIBS\_" and is highlighted with a red box. A callout bubble points to it with the text "... and use the LIBS Command ...". The dialog displays a menu of options: "Top : Legend SAVE SORT Find STAT LIBS BATCH Arrange Exit", "ALL FIX SHOW EditSQL Info Tables Group REFresh", and "Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job". Below the menu, a table lists job libraries. The "Jobname" column is highlighted with a red box. A callout bubble points to it with the text "If you like to know the DSN of the job libraries, ...". The "JCL-Lib" column is also highlighted with a red box. A callout bubble points to it with the text "... locate the column 'Lib' ...". The table has the following columns: Jobname, SUBSYS, TERM, GDGORDER, SYMBOLS, MAXGENS, JCL-Lib, Member, and Addi. The table contains 15 rows of data, all with "XXRJCC" in the Jobname column and "SYSH.TXGC.JOBLIB" in the JCL-Lib column.

```
----- JCL - DSN ----- ROW 3400-3413 OF 9999
Command ===> LIBS_ SCROLL ==> PAGE

Top   : Legend SAVE SORT Find STAT LIBS BATCH Arrange Exit
      ALL FIX SHOW EditSQL Info Tables Group REFresh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job
      JU JCL+Proc BD Browse DSN C Listcat J Job PJ PGM/PROC DS Dataset
      PC ProcParm SM SMF US SMF/DSN JT Job/Table JB Job/DBD 0 Oper ...

Jobname  SUBSYS TERM GDGORDER SYMBOLS MAXGENS JCL-Lib Member Addi
-----
XXRJCC   ----- SYSH.TXGC.JOBLIB  XXRJCC
XXRJCC   ----- SYSH.TXGC.JOBLIB  XXRJCC
XXRJCC   ----- SYSH.TXGC.JOBLIB  XXRJCC
XXRJCC   ----- SYSH.TXGC.JOBLIB  XXRJCC
XXRJCC   ----- SYSH.TXGC.JOBLIB  XXRJCC
XXRJCC   ----- SYSH.TXGC.JOBLIB  XXRJCC
XXRJCC   ----- SYSH.TXGC.JOBLIB  XXRJCC
XXRJCC   ----- SYSH.TXGC.JOBLIB  XXRJCC
XXRJCC   ----- SYSH.TXGC.JOBLIB  XXRJCC
XXRJCC   ----- SYSH.TXGC.JOBLIB  XXRJCC
XXRJCC   ----- SYSH.TXGC.JOBLIB  XXRJCC
XXRJCC   ----- SYSH.TXGC.JOBLIB  XXRJCC
XXRJCC   ----- SYSH.TXGC.JOBLIB  XXRJCC
XXRJCC   ----- SYSH.TXGC.JOBLIB  XXRJCC
XXRJCC   ----- SYSH.TXGC.JOBLIB  XXRJCC
XXRJCC   ----- SYSH.TXGC.JOBLIB  XXRJCC
```

# ISPF Dialog – LIBS (2)

```
Sitzung A
----- List of Used JCL Libraries ----- Row 1 to 8 of 8
COMMAND ==> _                               SCROLL ==> CSR

The XINFO JCL scanner has scanned the following data sets:

Key      DSN
JUPJI001 SYSH.TXGC.JOBLIB
JUPJI002 SYSH.XINFO.V3R7.TXGC
JUPJI003 IMS1210.JOBS
JUPJI004 SYSH.XINFO.V4R0.TXGC
JUPPI001 USER.PROCLIB
JUPPI002 SYSH.PROCLIB
JUPPI003 IMS1210.PROCLIB
JUPPI004 SYS1.PROCLIB

***** Bottom of data *****
```

The LIBS command shows you real DSN of your JCL- and PROC libraries

# ISPF Dialog – SAVE (1)

```
Sitzung A
----- JCL - DSN ----- Too many rows
Command ==> SAVE_ SCROLL ==> PAGE
Top   : Legend SAVE SORT Find STAT LIBS BATCH Arrange Exit
        ALL FIX SHOW EditSQL Info Tables Group REfresh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job
        JU JCL+Proc BD Browse DSN C Listcat J Job PJ PGM/PROC DS Dataset
        PC ProcParm SM SMF US SMF/DSN JT Job/Table JB Job/DBD 0 Oper ...

Jobname  SNr Program  DD-Name  CNr DSN
-----
A00DXN0A  1 IEBGENER  SYSIN    0 DUMMY
A00DXN0A  1 IEBGENER  SYSUT1   0 B00.PSS.PROD.JOBRDR
A7141TJB  1 IEFBR14   SYSIN    0 BRIAN.TRANDATE.%GL1923
A7141TJB  1 IEFBR14   GLFILE   0 BRIAN.TRANLOG.%$GLO201
B00HGFP3  1 IEBR14    SYSIN    0 *
B00HGFP3  2 GJTRABTR  SYSEXEC  0 BRIAN.REXX.PROJECT
B00HGFP3  2 GJTRABTR  SYSTSIN  0 *
B00HGFP3  2 GJTRABTR  INIFILE  0 *
B00HGFP3  2 GJTRABTR  JUPCA7   0 BRIAN.CA7.JCL
B00HGFP3  2 GJTRABTR  JUPOPC   0 BRIAN.OPCP.JCL
B00HGFP3  2 GJTRABTR  OUTFILE  0 BRIAN.COMPARE.LIST
CNDJA     1 RCTEST    STEPLIB  0 SYSH.FREWARE.LOAD
CNDJR1    2 ROTIWAIT  STEPLIB  0 SYSH.FREWARE.LOAD
CNDZA     1 RCTEST    STEPLIB  0 SYSH.FREWARE.LOAD
```

Save stores the result of the query to a file ...

# ISPF Dialog – SAVE (2)

```
Sitzung A
----- Save The Result -----
Command ===> _
Enter the name of the dataset which should contain the results
DSN      ===> P392E.XINFO.LIST

Specify DD Parameters for a new dataset
GENERIC UNIT    ===>
LRECL          ===> 255
RECFM          ===> FB      (FB,FBA,VB,VBA)
SPACE UNITS    ===> TRKS   (BLKS,TRKS,CYLS)
PRIMARY QUANTITY ===> 10   (in above units)
SECONDARY QUANTITY ===> 50 (in above units)
```

File attributes

# ISPF Dialog – SAVE (3)

```
Sitzung A
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW          P392E.P392E.XINFO.LIST          Columns 00001 00072
Command ==> _____ Scroll ==> PAGE
***** ***** Top of Data *****
000001 DB2 - Output generated with XINFO
000002 Date : 10.09.2018
000003 Time : 13:59:20
000004 SQL Command Used for this Output :
000005 SELECT "DDFJN", "DDFSTEP#", "DDFPGMN", "DDFDDN", "DDFCCH", "DDFDSN",
000006         "DDFDSMEMBER", "DDFDISP", "DDFCALLEDPROC", "DDFCALLEDLIB",
000007         "DDFLRECL", "DDFBLKSIZE", "DDFRECFM", "DDFDSORG", "DDFKEYLEN",
000008         "DDFDCB", "DDFEXPDT", "DDFRETPD", "DDFUNIT", "DDFSPACE",
000009         "DDFVOLSER1", "DDFVOLSER2", "DDFVOLCODED", "DDFVOLUME",
000010         "DDFDATACLAS", "DDFMGMTCLAS", "DDFSTORCLAS", "DDFACCODE",
000011         "DDFAMP", "DDFAVGREC", "DDFBLKSZLIM", "DDFCCSID", "DDFCHKPT",
000012         "DDFCNTL", "DDFDDNAME", "DDFDLM", "DDFDSID", "DDFDSNTYPE",
000013         "DDFEATTR", "DDFFILEDATA", "DDFFREE", "DDFKEYENC1",
000014         "DDFKEYENC2", "DDFKEYLABL1", "DDFKEYLABL2", "DDFKEYOFF",
000015         "DDFLABEL", "DDFLGSTREAM", "DDFLIKE", "DDFPROTECT", "DDFQNAME",
000016         "DDFRECD", "DDFREDD", "DDFRLS", "DDFSECMODEL", "DDFSUBSYS",
         "DDFSYMBOLS", "DDFMAXGENS", "DDFLIB",
         "DDFRVED"
```

Scroll down ...

Here is the resulting file, at the beginning with some additional information like the SQL ...

# ISPF Dialog – SAVE (4)

```
Sitzung A
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW          P392E.P392E.XINFO.LIST          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
000023 Jobname SNr Program DD-Name CNr DSN
000024 -----
000025 A00DXN0A 1 IEBCGENER SYSIN 0 DUMMY
000026 A00DXN0A 1 IEBCGENER SYSUT1 0 B00.PSS.PROD.JOBRDR
000027 A7141TJB 1 IEFBR14 SYSIN 0 BRIAN.TRANDATE.%GL1923
000028 A7141TJB 1 IEFBR14 GLFILE 0 BRIAN.TRANLOG.>%GL0201
000029 B00HGFP3 1 IEBR14 SYSIN 0 *
000030 B00HGFP3 2 GJTRABTR SYSEXEC 0 BRIAN.REXX.PROJECT
000031 B00HGFP3 2 GJTRABTR SYSTSIN 0 *
000032 B00HGFP3 2 GJTRABTR INIFILE 0 *
000033 B00HGFP3 2 GJTRABTR JUPCA7 0 BRIAN.CA7.JCL
000034 B00HGFP3 2 GJTRABTR JUPOPC 0 BRIAN.OPCP.JCL
000035 B00HGFP3 2 GJTRABTR OUTFILE 0 BRIAN.COMPARE.LIST
000036 CNDJA 1 RCTEST STEPLIB 0 SYSH.FREWARE.LOAD
000037 CNDJR1 2 ROTIWAIT STEPLIB 0 SYSH.FREWARE.LOAD
000038 CNDZA 1 RCTEST STEPLIB 0 SYSH.FREWARE.LOAD
000039 CRIT 1 ROTIWAIT STEPLIB 0 SYSH.FREWARE.LOAD
000040 CRIT1 1 ROTIWAIT STEPLIB 0 SYSH.FREWARE.LOAD
000041 CRIT2 1 ROTIWAIT STEPLIB 0 SYSH.FREWARE.LOAD
000042 CRIT3 1 ROTIWAIT STEPLIB 0 SYSH.FREWARE.LOAD
MA A
```

... and get the data!

# ISPF Dialog – SAVE (5)

- The maximum number of lines defined for the dialog (999) is not used here, the only limit is the size of the output dataset.
- Columns displayed in an abbreviated form in the panel are displayed in full length.
- If the display has been sorted by a certain column, this order is maintained.
- Any arrangement of the columns specified using the ARRANGE command will be maintained.

# ISPF Dialog – XBROWSE or XEDIT (1)

```
Sitzung A
----- JCL - DSN ----- ROW 0001-0014 OF 9999
Command ==> XBROWSE SCROLL ==> PAGE

Top   : Legend SAVE SORT Find STAT LIBS DSN
        ALL FIX SHOW EditSQL Info Tables Group Refresh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse J
        JU JCL+Proc BD Browse DSN C Listcat J Job PJ PGM/PROC DS
        PC ProcParm SM SMF US SMF/DSN JT Job/Table JB Job/DBD 0

Jobname  SNr Program  DD-Name  CNr DSN
-----
A00DXN0A  1 IEBGENER  SYSIN      0 DUMMY
A00DXN0A  1 IEBGENER  SYSUT1     0 B00.PSS.PROD.JOBRDR
A7141TJB  1 IEFBR14   SYSIN      0 BRIAN.TRANDATE.%GL1923
A7141TJB  1 IEFBR14   GLFILE     0 BRIAN.TRANLOG.%$GL0201
B00HGFP3  1 IEBR14    SYSIN      0 *
B00HGFP3  2 GJTRABTR  SYSEXEC    0 BRIAN.REXX.PROJECT
B00HGFP3  2 GJTRABTR  SYSTSIN    0 *
B00HGFP3  2 GJTRABTR  INIFILE    0 *
B00HGFP3  2 GJTRABTR  JUPCA7     0 BRIAN.CA7.JCL
B00HGFP3  2 GJTRABTR  JUPOPC     0 BRIAN.OPCP.JCL
B00HGFP3  2 GJTRABTR  OUTFILE    0 BRIAN.COMPARE.LIST
CNDJA     1 RCTEST    STEPLIB    0 SYSH.FREWARE.LOAD
CNDJR1    2 ROTIWAIT  STEPLIB    0 SYSH.FREWARE.LOAD
CNDZA     1 RCTEST    STEPLIB    0 SYSH.FREWARE.LOAD
```

PS.: type XBROWSE or XEDIT to see the "SAVE" file directly from XINFO.



# ISPF Dialog – XBROWSE or XEDIT (2)

```
Sitzung A
Menu Utilities Compilers Help

BROWSE      P392E.P392E.XINFO.LIST          Line 00000000 Col 001 080
Command ==> _____ Scroll ==> PAGE

***** Top of Data *****
DB2 - Output generated with XINFO
Date : 10.09.2018
Time : 14:02:29
SQL Command Used for this Output :
SELECT "DDFJN", "DDFSTEP#", "DDFPGMN", "DDFDDN", "DDFCCH", "DDFDSN",
"DDFDSMEMBER", "DDFDISP", "DDFCALLEDPROC", "DDFCALLEDLIB",
"DDFLRECL", "DDFBLKSIZE", "DDFRECFM", "DDFDSORG", "DDFKEYLEN",
"DDFDCB", "DDFEXPDT", "DDFRETPD", "DDFUNIT", "DDFSPACE",
"DDFVOLSER1", "DDFVOLSER2", "DDFVOLCODED", "DDFVOLUME",
"DDFDATACLAS", "DDFMGMTCLAS", "DDFSTORCLAS", "DDFACCODE",
"DDFAMP", "DDFAVGREC", "DDFBLKSZLIM", "DDFCCSID", "DDFCHKPT",
"DDFCNTL", "DDFDDNAME", "DDFDLM", "DDFDSID", "DDFDSNTYPE",
"DDFEATTR", "DDFFILEDATA", "DDFFREE", "DDFKEYENC1",
"DDFKEYENC2", "DDFKEYLABL1", "DDFKEYLABL2", "DDFKEYOFF",
"DDFLABEL", "DDFLGSTREAM", "DDFLIKE", "DDFPROTECT", "DDFQNAME",
"DDFREORG", "DDFREFFD", "DDFRLS", "DDFSECMODEL", "DDFSUBSYS",
"DDFTERM", "DDFGDGORDER", "DDFSYMBOLS", "DDFMAXGENS", "DDFLIB",
"DDFMEMB", "DDFREERVED"
FROM XXR40."XXRTDDF"

MA A
```

The result!

# ISPF Dialog – BATCH (1)

```
Sitzung A
----- JCL - DSN ----- Too many rows
Command ==> BATCH_ SCROLL ==> PAGE

Top   : Legend  SAVE  SORT  Find  STAT  LIBS  BATCH  Arrange  EXit
        ALL  FIX  SHOW  EditSQL  Info  Tables  Group  REFresh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job
        JU JCL+Proc  BD Browse DSN C List J Job PJ PGM/PROC DS Dataset
        PC ProcParm SM SMF US SMF/DSN JT Table JB Job/DBD O Oper ...

Jobname  SNr  Program  DD-Name  CNr  DSN
-----
A00DXN0A  1  IEBGENER  SYSIN      0  DUMMY
A00DXN0A  1  IEBGENER  SYSUT1     0  B00.PSS.PROD.JOBRDR
A7141TJB  1  IEFBR14   SYSIN      0  BRIAN.TRANDATE.%GL1923
A7141TJB  1  IEFBR14   GLFILE     0  BRIAN.TRANLOG.%$GL0201
B00HGFP3  1  IEBR14    SYSIN      0  *
B00HGFP3  2  GJTRABTR  SYSEXEC    0  BRIAN.REXX.PROJECT
B00HGFP3  2  GJTRABTR  SYSTSIN    0  *
B00HGFP3  2  GJTRABTR  INIFILE    0  *
B00HGFP3  2  GJTRABTR  JUPCA7     0  BRIAN.CA7.JCL
B00HGFP3  2  GJTRABTR  JUPOPC     0  BRIAN.OPCP.JCL
B00HGFP3  2  GJTRABTR  OUTFILE    0  BRIAN.COMPARE.LIST
CNDJA     1  RCTEST    STEPLIB    0  SYSH.FREWARE.LOAD
CNDJR1    2  ROTIWAIT  STEPLIB    0  SYSH.FREWARE.LOAD
CNDZA     1  RCTEST    STEPLIB    0  SYSH.FREWARE.LOAD
```

The Batch Command generates a job which runs the actual query in batch

# ISPF Dialog – BATCH (2)

```
Sitzung A
----- Generate JCL -----
Command ==>

Enter the name of the dataset which should contain the results
DSN      ==> P392E.XINFO.LIST

EDIT JCL ==> YES
SUBMIT   ==> NO

Details ==> 3 (1/2/3) : 1: Only Data
                        2: With Headers
                        3: With Headers and used SQL

Specify space for a new dataset
GENERIC UNIT    ==>
LRECL           ==> 255
RECFM           ==> FB      (FB,FBA,VB,VBA)
SPACE UNITS     ==> TRKS   (BLKS,TRKS,CYLS)
PRIMARY QUANTITY ==> 10    (in above units)
SECONDARY QUANTITY ==> 50  (in above units)

Jobcard
==> //P392EX JOB (ACCOUNT), 'HORIZONT',MSGCLASS=T,CLASS=A,
==> // NOTIFY=&SYSUID
==> /**
==> /**
```

The Batch Command generates a job which runs the actual query in batch.

You can select:  
1: only data,  
2: data and headers  
3: data, headers and SQL

# ISPF Dialog – BATCH (3)

```
EDIT          P392E.S0W1.SPFTEMP1.CNTL          Columns 00001 00072
Command ==>          Scroll ==> PAGE
***** Top of Data *****
000001 //P392EX JOB (ACCOUNT),'HORIZONT',MSGCLASS=T,CLASS=A,
000002 //  NOTIFY=&SYSUID
000003 //*
000004 //*
000005 //JOBLIB      DD DSN=SYSH.XINFO.V4R0.LOAD,DISP=SHR
000006 //              DD DSN=DSNB10.SDSNLOAD,DISP=SHR
000007 //DELETE     EXEC PGM=IDCAMS,REGION=512K
000008 //SYSPRINT   DD SYSOUT=*
000009 //SYSIN      DD *
000010   DEL P392E.P392E.XINFO.LIST
000011   SET MAXCC = 0
000012 //GETDATA    EXEC PGM=XXRIWT1,REGION=6M,
000013 // PARM='RPTOPT(OFF)/'
000014 //SYSPRINT   DD SYSOUT=*
000015 //SYSOUT     DD SYSOUT=*
000016 //CEEDUMP    DD SYSOUT=*
000017 //* PARAMETERS FOR THE RETRIEVAL OF THE DATA:
000018 //* RAWDATA=Y      THE HEADER WILL BE OMITTED
000019 //* ONLYDATA=Y     SQL IS NOT WRITTEN TO THE OUTPUT FILE
```

The result!

# ISPF Dialog – EXIT

```
Sitzung A
----- JCL - DSN ----- ROW 0001-0014 OF 9999
Command ==> EXIT_ SCROLL ==> PAGE
Top   : Legend SAVE SORT Find STAT LIBS BATCH Arrange EXIT
        ALL FIX SHOW EditSQL Info Tables Group REfresh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job
        JU JCL+Proc BD Browse DSN C Listcat J Job PJ PGM/PROC DS Dataset
        PC ProcParm SM SMF US SMF/DSN JT Job/Table JB Job/DBD 0 Oper ...

Jobname  SNr Program  DD-Name  CNr DSN
-----
A00DXN0A  1 IEBGENER  SYSIN     0 DUMMY
A00DXN0A  1 IEBGENER  SYSUT1    0 B00.PSS.PROD.JOBRDR
A7141TJB  1 IEFBR14   SYSIN     0 BRIAN.TRANDATE.%GL1923
A7141TJB  1 IEFBR14   GLFILE    0 BRIAN.TRANLOG.%$GLO201
B00HGFP3  1 IEBR14    SYSIN     0 *
B00HGFP3  2 GJTRABTR  SYSEXEC   0 BRIAN.REXX.PROJECT
B00HGFP3  2 GJTRABTR  SYSTSIN   0 *
B00HGFP3  2 GJTRABTR  INIFILE   0 *
B00HGFP3  2 GJTRABTR  JUPCA7    0 BRIAN.CA7.JCL
B00HGFP3  2 GJTRABTR  JUPOPC    0 BRIAN.OPCP.JCL
B00HGFP3  2 GJTRABTR  OUTFILE   0 BRIAN.COMPARE.LIST
CNDJA     1 RCTEST    STEPLIB   0 SYSH.FREWARE.LOAD
CNDJR1    2 ROTIWAIT  STEPLIB   0 SYSH.FREWARE.LOAD
CNDZA     1 RCTEST    STEPLIB   0 SYSH.FREWARE.LOAD
```

Exit brings you back to the START panel

# ISPF Dialog – SHOW (1)

```
Sitzung A
----- JCL - DSN ----- ROW 0001-0014 OF 9999
Command ==> SHOW_          Show ...          SCROLL ==> PAGE

Top   : Legend  SAVE  SORT  Find  STAT  LIBS  BATCH  Arrange  Exit
        ALL  FIX  SHOW  EditSQL  Info  Tables  Group  REFresh
Bottom: ? List all Line Commands S Select  DP Dependencies B Browse Job
        JU JCL+Proc  BD Browse DSN  C Listcat  J Job  PJ PGM/PROC  DS Dataset
        PC ProcParm  SM SMF  US SMF/DSN  JT Job/Table  JB Job/DBD  0 Oper ...

Jobname  SNr  Program  DD-Name  CNr  DSN
-----
A00DXN0A  1  IEBGENER  SYSIN      0  DUMMY
A00DXN0A  1  IEBGENER  SYSUT1     0  B00.PSS.PROD.JOBRDR
A7141TJB  1  IEFBR14   SYSIN      0  BRIAN.TRANDATE.%GL1923
A7141TJB  1  IEFBR14   GLFILE     0  BRIAN.TRANLOG.%"$GL0201
B00HGFP3  1  IEBR14    SYSIN      0  *
B00HGFP3  2  GJTRABTR  SYSEXEC    0  BRIAN.REXX.PROJECT
B00HGFP3  2  GJTRABTR  SYSTSIN    0  *
B00HGFP3  2  GJTRABTR  INIFILE    0  *
B00HGFP3  2  GJTRABTR  JUPCA7     0  BRIAN.CA7.JCL
B00HGFP3  2  GJTRABTR  JUPOPC     0  BRIAN.OPCP.JCL
B00HGFP3  2  GJTRABTR  OUTFILE    0  BRIAN.COMPARE.LIST
CNDJA     1  RCTEST    STEPLIB    0  SYSH.FREWARE.LOAD
CNDJR1    2  ROTIWAIT  STEPLIB    0  SYSH.FREWARE.LOAD
CNDZA     1  RCTEST    STEPLIB    0  SYSH.FREWARE.LOAD

MA  A
```

# ISPF Dialog – SHOW (2)

```
Sitzung A
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW          P392E.S0W1.SPFTEMP1.CNTL          Columns 00001 00072
Command ==>          Scroll ==> PAGE
***** ***** Top of Data *****
000001 SELECT "DDFJN", "DDFSTEP#", "DDFPGMN", "DDFDDN", "DDFCCH", "DDFDSN",
000002         "DDFDSMEMBER", "DDFDISP", "DDFCALLEDPROC", "DDFCALLEDLIB",
000003         "DDFLRECL", "DDFBLKSIZE", "DDFRECFM", "DDFDSORG", "DDFKEYLEN",
000004         "DDFDCB", "DDFEXPDT", "DDFRETPD", "DDFUNIT", "DDFSPACE",
000005         "DDFVOLSER1", "DDFVOLSER2", "DDFVOLCODED", "DDFVOLUME",
000006         "DDFDATACLAS", "DDFMGMTCLAS", "DDFSTORCLAS", "DDFACCODE",
000007         "DDFAMP", "DDFAVGREC", "DDFBLKSZLIM", "DDFCCSID", "DDFCHKPT",
000008         "DDFCNTL", "DDFDDNAME", "DDFDLM", "DDFDSID", "DDFDSNTYPE",
000009         "DDFEATTR", "DDFFILEDATA", "DDFFREE", "DDFKEYEND1",
000010         "DDFKEYEND2", "DDFKEYLABL1", "DDFKEYLABL2", "DDFKEYOFF",
000011         "DDFLABEL", "DDFLGSTREAM", "DDFLIKE", "DDFPROTECT", "DDFQNAME",
000012         "DDFREORG", "DDFREFDD", "DDFRLS", "DDFSECMODEL", "DDFSUBSYS",
000013         "DDFTERM", "DDFGDGORDER", "DDFSYMBOLS", "DDFMAXGENS", "DDFLIB",
000014         "DDFMEMB", "DDFRESERVED"
000015 FROM XXR40."XXRTDDF"
000016 FOR FETCH ONLY
000017 FETCH FIRST 9999 ROWS ONLY
***** ***** Bottom of Data *****
MA A
```

... simply shows you the SQL behind your current query.

# ISPF Dialog – INFO (1)

```
Sitzung A
----- JCL - DSN ----- ROW 0001-0014 OF 9999
Command ==> INFO_ SCROLL ==> PAGE
Top   : Legend SAVE SORT Find STAT LIBS BATCH Arrange Exit
        ALL FIX SHOW EditSQL Info Tables Group REfresh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job
        JU JCL+Proc BD Browse DSN C Listcat J Job PJ PGM/PROC DS Dataset
        PC ProcParm SM SMF US SMF/DSN JT Job/Table JB Job/DBD 0 Oper ...

Jobname  SNr Program  DD-Name  CNr DSN
-----
A00DXN0A  1 IEBGENER SYSIN      0 DUMMY
A00DXN0A  1 IEBGENER SYSUT1    0 B00.PSS.PROD.JOBRDR
A7141TJB  1 IEFBR14  SYSIN      0 BRIAN.TRANDATE.%GL1923
A7141TJB  1 IEFBR14  GLFILE     0 BRIAN.TRANLOG.%$GLO201
B00HGFP3  1 IEBR14   SYSIN      0 *
B00HGFP3  2 GJTRABTR SYSEXEC    0 BRIAN.REXX.PROJECT
B00HGFP3  2 GJTRABTR SYSTSIN    0 *
B00HGFP3  2 GJTRABTR INIFILE    0 *
B00HGFP3  2 GJTRABTR JUPCA7     0 BRIAN.CA7.JCL
B00HGFP3  2 GJTRABTR JUPOPC     0 BRIAN.OPCP.JCL
B00HGFP3  2 GJTRABTR OUTFILE    0 BRIAN.COMPARE.LIST
CNDJA     1 RCTEST   STEPLIB    0 SYSH.FREWARE.LOAD
CNDJR1    2 ROTIWAIT STEPLIB    0 SYSH.FREWARE.LOAD
CNDZA     1 RCTEST   STEPLIB    0 SYSH.FREWARE.LOAD
```

MA

A





# ISPF Dialog – INFO (2)

```
Sitzung A
Menu Utilities Compilers Help
BROWSE SYSH.XINFO.V4R0.ADMININFO(XXRDNEWS) - 01.00 Line 00000000 Col 001 080
Command ==> _____ Scroll ==> PAGE
***** Top of Data *****
*****
*** XINFO Administrator Information
*****
This dataset is used by the administrator to distribute
news about the program XINFO. This member is browsed automatically if
the administrator has changed it. You can see it if you enter the
primary command INFO.
***** Bottom of Data *****
MA A
```

... lists information about your XINFO installation, this file can be edited by the XINFO administrator

# ISPF Dialog – TABLES (1)

```
Sitzung A
----- JCL - DSN ----- ROW 0001-0014 OF 9999
Command ==> TABLES_ SCROLL ==> PAGE
Top   : Legend SAVE SORT Find STAT LIBS BATCH Arrange Exit
        ALL FIX SHOW EditSQL Info Tables Group REFRfresh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job
        JU JCL+Proc BD Browse DSN C Listcat J Job PJ PGM/PROC DS Dataset
        PC ProcParm SM SMF US SMF/DSN JT Job/Table JB Job/DBD 0 Oper ...

Jobname  SNr Program  DD-Name  CNr DSN
-----
A00DXN0A  1 IEBGENER  SYSIN     0 DUMMY
A00DXN0A  1 IEBGENER  SYSUT1    0 B00.PSS.PROD.JOBRDR
A7141TJB  1 IEFBR14   SYSIN     0 BRIAN.TRANDATE.%GL1923
A7141TJB  1 IEFBR14   GLFILE    0 BRIAN.TRANLOG.%$GLO201
B00HGFP3  1 IEBR14   SYSIN     0 *
B00HGFP3  2 GJTRABTR  SYSEXEC   0 BRIAN.REXX.PROJECT
B00HGFP3  2 GJTRABTR  SYSTSIN   0 *
B00HGFP3  2 GJTRABTR  INIFILE   0 *
B00HGFP3  2 GJTRABTR  JUPCA7    0 BRIAN.CA7.JCL
B00HGFP3  2 GJTRABTR  JUPOPC    0 BRIAN.OPCP.JCL
B00HGFP3  2 GJTRABTR  OUTFILE   0 BRIAN.COMPARE.LIST
CNDJA     1 RCTEST    STEPLIB   0 SYSH.FREWARE.LOAD
CNDJR1    2 ROTIWAIT  STEPLIB   0 SYSH.FREWARE.LOAD
CNDZA     1 RCTEST    STEPLIB   0 SYSH.FREWARE.LOAD
```

TABLES\_

Tables ...

# ISPF Dialog – TABLES (2)

```
Sitzung A
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW      SYS18242.T091219.RA000.P392E.R0109855      Columns 00001 00072
Command ==> _____ Scroll ==> PAGE
***** ***** Top of Data *****
000001  List of the used DB2 Tables and Views
000002  =====
000003  Table: XXRTU45
000004  Label: Atomic - Activ. Netplan
000005
000006  Column Name                Label                Type
000007  -----
000008  XXRDATCLIENT              Client              CHAR
000009  XXRDATENV                  Environment          CHAR
000010  XXRDATINFO                 DatAddInfo          CHAR
000011  XXRDATJOBID                XXR-Jobid           CHAR
000012  U4SYSTEM                   Atomic-System       CHAR
000013  U4PREDECESSOR              Predecessor         CHAR
000014  U4SUCCESSOR                Successor           CHAR
000015  U4CLIENT                   Atomic-Client       CHAR
000016  U4OBJNAME                  Object Name         CHAR
000017  U4SYSTEMJOB                System Jobname      CHAR
000018  U4OBJTYPE                  Object Type         CHAR
000019  U4LINKTYPE                 Link Type           CHAR
```

... shows you all available tables (plus some additional information)

# ISPF Dialog – EDITSQL (1)

```
Sitzung A
----- JCL - EXEC Statements ----- Too many rows
Command ==> EDITSQL SCROLL ==> PAGE

Top   : Legend SAVE SORT Find STAT LIBS BATCH Arrange
        ALL FIX SHOW EditSQL Info Tables Group REfresh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job
        JU JCL+Proc BP Browse Proc J Job PJ PGM/PROC DS Dataset
        PC ProcParm SM SMF US SMF/DSN JT Job/Table JB Job/DBD 0 Oper ...

Jobname  SNr  Type  Program  ProcStep  Procedur  F  JobStep  Proclib (called)
-----
AHZ00010  1  PGM  IEFBR14          STEP1
AHZ00011  1  PGM  IEFBR14          STEP1
AHZ00012  1  PGM  IEFBR15          STEP1
AHZ0002   1  PGM  IEFBR14          STEP1
AHZ0003   1  PGM  IEFBR14          STEP1
A00DXN0A  1  PGM  IEBGENER          STEP0001
A7141TJB  1  PROC          A7141TJP  Y  A7141TJP  BRIAN.REXX.PROJECT
A7141TJB  1  PGM  IEFBR14  A7141TJX  A7141TJP  A7141TJP  BRIAN.REXX.PROJECT
B00HGFP3  1  PGM  IEBR14           IDCAMS
B00HGFP3  2  PGM  GJTRABTR         ATOSUB13
CNDJA     1  PGM  RCTEST           STEP01
CNDJB     1  PGM  IEFBR14          STEP01
CNDJR1    1  PGM  IEFBR14          STEP01
CNDJR1    2  PGM  ROTIWAIT         ROTIWAIT
```

With EDITSQL you can change the SQL behind the query ...

# ISPF Dialog – EDITSQL (2)

```
Sitzung A
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT          P392E.S0W1.SPFTEMP1.CNTL          Columns 00001 00072
Command ==> _____ Scroll ==> PAGE

***** Top of Data *****
000001 SELECT "EXEJN", "EXESTEP#", "EXETYPE", "EXEPGMN", "EXESTMTN",
000002         "EXEPROCN", "EXEPROCFFOUND", "EXEJOBNSN", "EXECALLEDLIB",
000003         "EXECALLINGNAME", "EXECALLINGLIB", "EXEPGMNAMEORIG", "EXEPARM",
000004         "EXEREGIO", "EXETIME", "EXECOND", "EXEACCT", "EXEADDRSPC",
000005         "EXECCSID", "EXEDPRTY", "EXEDYNAMNBR", "EXEMEMLIMIT",
000006         "EXEPERFORM", "EXERD", "EXERLSTMOUT", "EXELIB", "EXEMEMB",
000007         "EXERESERVED"
=====
===== DO NOT EDIT BEFORE THE FROM LINE!
===== CHANGED SQL WILL BE EXECUTED AFTER PRESSING PF3.
=====
000008 FROM XXR40."XXRTEXE"
000009 FOR FETCH ONLY
000010 FETCH FIRST 9999 ROWS ONLY
```

You may edit the shown SQL after the key word FROM. If you do so, the dialog program will try to execute the modified SQL.

... after your modification, this SQL is executed.

# ISPF Dialog – EDITSQL (3)

```
Sitzung A
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT          P392E.S0W1.SPFTEMP1.CNTL          Command not recognized
Command ==> _____ Scroll ==> PAGE

***** Top of Data *****
000001 SELECT "JOBVN", "JOBACCT", "JOBPGMR", "JOBCLASS", "JOBMSGCL",
000002         "JOBNOTIF", "JOBPRTY", "JOBREGIO", "JOBRESTA", "JOBTYPRU",
000003         "JOBUSER", "JOBGROUP", "JOBMSGLEVEL", "JOBSCHENV", "JOBADDRSPC",
000004         "JOBBYTES", "JOB CARDS", "JOBCCSID", "JOBCOND", "JOBDSNQSHR",
000005         "JOBESLOG", "JOBLINES", "JOBMEMLIMIT", "JOBPAGES",
000006         "JOBPERFORM", "JOBRC", "JOB RD", "JOBSECLABEL", "JOBSYSAFF",
000007         "JOBTIME", "JOB SYSTEM", "JOB UJOB CORR", "JOBLIB", "JOBMEMB",
000008         "JOBRESERVED"
=====
===== DO NOT EDIT BEFORE THE FROM LINE!
===== CHANGED SQL WILL BE EXECUTED AFTER PRESSING PF3.
=====
000009 FROM XXR40."XXRTJOB"
000010 WHERE (JOBVN <> JOBMEMB)
000011 FOR FETCH ONLY
***** Bottom of Data *****
```

Result: All jobs whose jobname is unlike the member name.

# ISPF Dialog – EDITSQL result

```
Sitzung A
----- JCL - JOB Statements ----- ROW 001 TO 014 OF 062
Command ==> _ SCROLL ==> PAGE

Top   : Legend SAVE SORT Find STAT LIBS BATCH Arrange Exit
        ALL FIX SHOW EditSQL Info Tables Group REFResh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job
        JU JCL+Proc PJ PGM/PROC DS Dataset PC ProcParm SJ SMF/Job SM SMF
        US SMF/DSN JT Job/Table PL PGM/Plan JB Job/DBD Q PGM/PSB ...

Jobname Account Programmers Name C M NOTIFY PR REGION RESTART TYPRUN USE
---
XXRJRUNS ACCOUNT HORIZONT          A T &SYSUID      -----
FORM29DM ACCOUNT HORIZONT          L &SYSUID      -----
ITCJSMFB ACCOUNT HORIZONT          A T &SYSUID      -----
ITCJVWTG ACCOUNT HORIZONT          A T &SYSUID      65536
ITCJCA71 ACCOUNT ITC              A T &SYSUID      32768
ITCJCA72 ACCOUNT ITC              A T &SYSUID      32768
ITCJCTM1 ACCOUNT ITC              A T &SYSUID      32768
ITCJCTM2 ACCOUNT ITC              A T &SYSUID      32768
ITCJDEL  ACCOUNT HORIZONT          A T &SYSUID      65536
ITCJJCL1 ACCOUNT ITC              A T &SYSUID      32768
ITCJSMFB ACCOUNT ITC              A T &SYSUID      65536
ITCJSMF1 ACCOUNT ITC              A T &SYSUID      32768
ITCJSMF2 ACCOUNT ITC              A T &SYSUID      32768
ITCJSMF3 ACCOUNT ITC              A T &SYSUID      32768
```

The result

# ISPF Dialog – LISTLC (1)

```
Sitzung A
----- JCL - JOB Statements ----- ROW 001 TO 014 OF 062
Command ==> LISTLC_ SCROLL ==> PAGE

Top   : Legend SAVE SORT Find STAT LIBS BATCH Arrange EXIT
        ALL FIX SHOW EditSQL Info Tables Group REFresh
Bottom: ? List all Line Commands S Select DP Dependencies B Browse Job
        JU JCL+Proc PJ PGM/PROC DS Dataset PC ProcParm SJ SMF/Job SM SMF
        US SMF/DSN JT Job/Table PL PGM/Plan JB Job/DBD Q PGM/PSB ...

Jobname Account Programmers Name C M NOTIFY PR REGION RESTART TYPRUN USE
--- XJRJRUNS ACCOUNT HORIZONT A T &SYSUID -----
--- FORM29DM ACCOUNT HORIZONT L &SYSUID -----
--- ITCJSMFB ACCOUNT HORIZONT A T &SYSUID -----
--- ITCJVWTG ACCOUNT HORIZONT A T &SYSUID 65536
--- ITCJCA71 ACCOUNT ITC A T &SYSUID 32768
--- ITCJCA72 ACCOUNT ITC A T &SYSUID 32768
--- ITCJCTM1 ACCOUNT ITC A T &SYSUID 32768
--- ITCJCTM2 ACCOUNT ITC A T &SYSUID 32768
--- ITCJDEL ACCOUNT HORIZONT A T &SYSUID 65536
--- ITCJJCL1 ACCOUNT ITC A T &SYSUID 32768
--- ITCJSMFB ACCOUNT ITC A T &SYSUID 65536
--- ITCJSMF1 ACCOUNT ITC A T &SYSUID 32768
--- ITCJSMF2 ACCOUNT ITC A T &SYSUID 32768
--- ITCJSMF3 ACCOUNT ITC A T &SYSUID 32768
```

LISTLC shows all line commands.



# ISPF Dialog – LISTLC (2)

```
Sitzung A
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW          SYS18253.T144946.RA000.P392E.R0160358          Columns 00001 00072
Command ==> _____ Scroll ==> PAGE
***** Top of Data *****
000001 LC  Short Descr.      Target-Display      Long Description
000002 -----
000003 *1  INCLUDE              GRAPHSRCPL1INCL    *
000004 *1  COPY                GRAPHSRCCOBCOPY    *
000005 *2  CALL                GRAPHEXPLCALL     *
000006 *3  PROC                GRAPHSRCPL1PROC    *
000007 *3  FILE                GRAPHSRCCOBFIL    *
000008 *4  FILE                GRAPHSRCPL1FIL    *
000009 *4  DB2                 GRAPHSRCCOBDDB2    *
000010 *5  DB2                 GRAPHSRCPL1DB2     *
000011 *5  CICS                GRAPHSRCCOBCICS    *
000012 *6  CICS                GRAPHSRCPL1CICS    *
000013 *6  JCL                 DSPLTEXE           *
000014 *7  JCL                 DSPLTEXE           *
000015 *8  COBGENERAL          GRAPHSRCCOB        *
000016 *9  PL1GENERAL          GRAPHSRCPL1        *
000017 -D  Dspl/Con            DSPLTMM6           XINFO - Dspl/Connectors
000018 -D  Dspl/Con            DSPLTMM6           XINFO - Dspl/Connect. (VLink)
000019 -F  ConFrom            DSPLTMM5           XINFO - LnCmd Connect. (From)

MA  A
```

Thanks for your attention! Do you have any questions?

The logo for 'HORIZONT' features the word in a bold, sans-serif font. The letter 'O' is highlighted in red, while the other letters are in dark grey. The background is light grey with a large red curved shape on the left and several faint, semi-transparent geometric shapes (squares and a triangle) scattered around the text.

**HORIZONT**

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