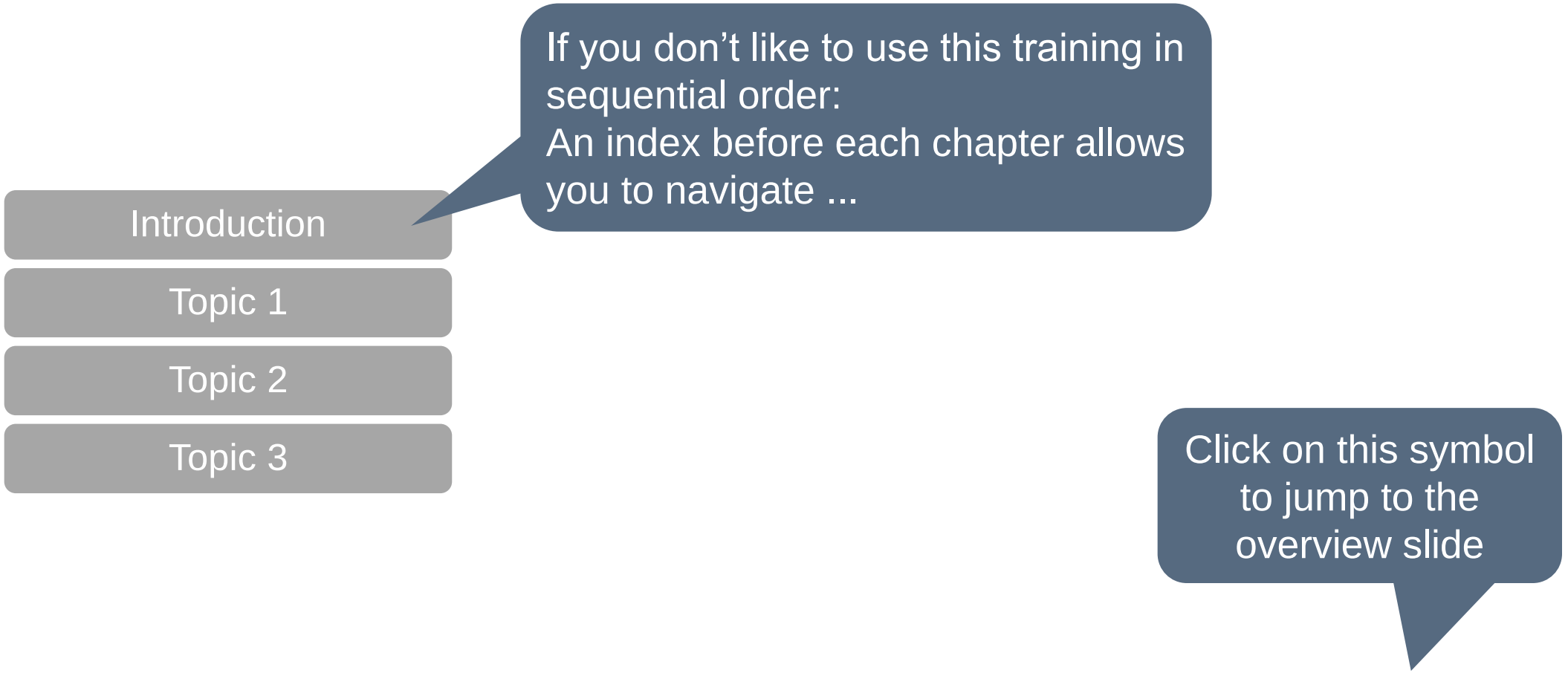
HORIZONT

XINFO - Getting Started - Dialog Windows

How to use XINFO Windows PC Client

How to use this file

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!



AGENDA

XINFO - Getting Started - Dialog Windows

How to use XINFO

Chapter 1

What is XINFO

A brief introduction and a technical overview to XINFO

Chapter 2

PC Client Basics

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)

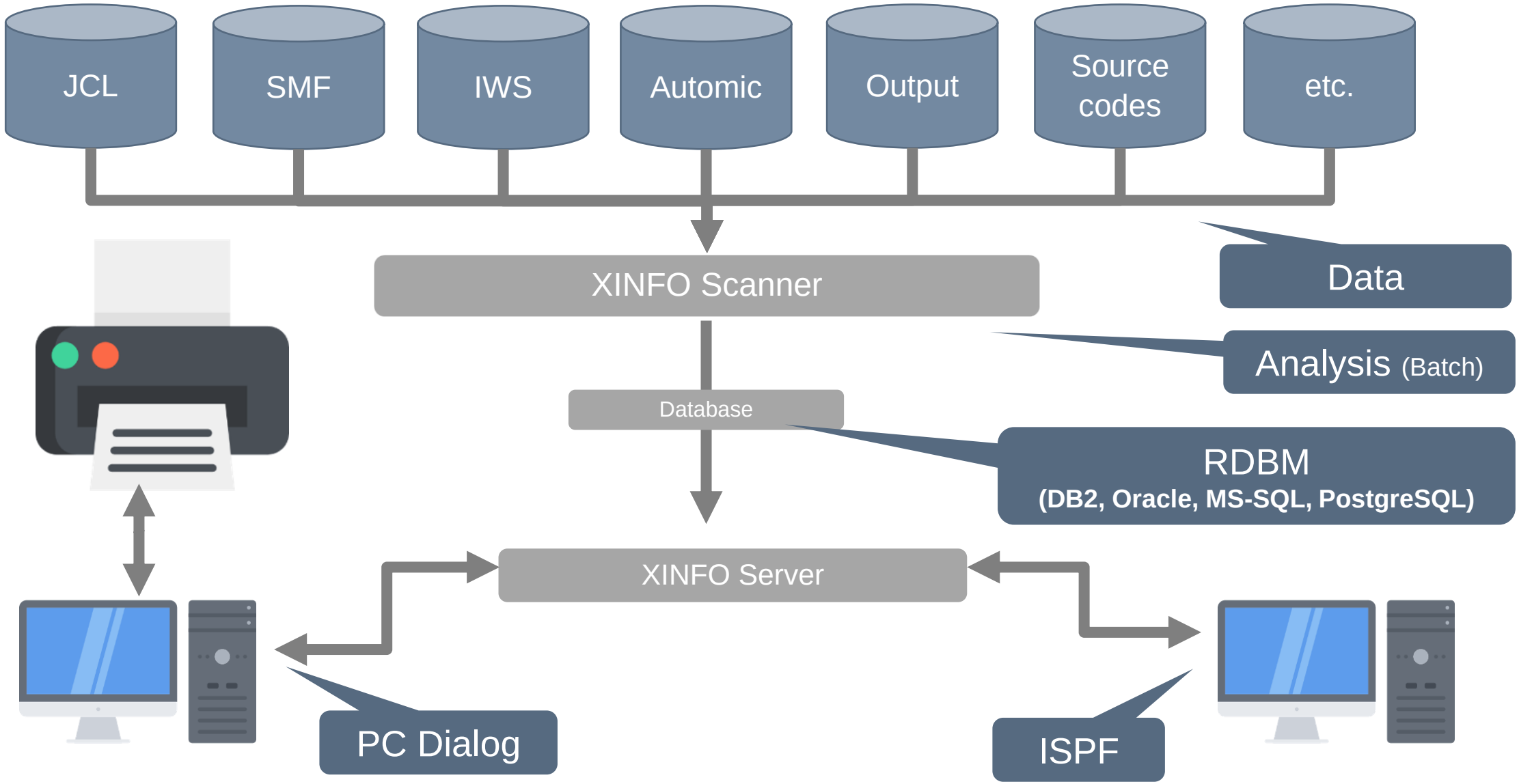
How to access data from different sources like Schedulers, JCL, DB2, SMF etc.

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 and more
- XINFO loads result of analysis into DB2, Oracle, MS-SQL or PostgreSQL
- XINFO has an integrated Windows or ISPF dialog
- XINFO has powerful graphic functions

A Technical Overview



What is XINFO good for?

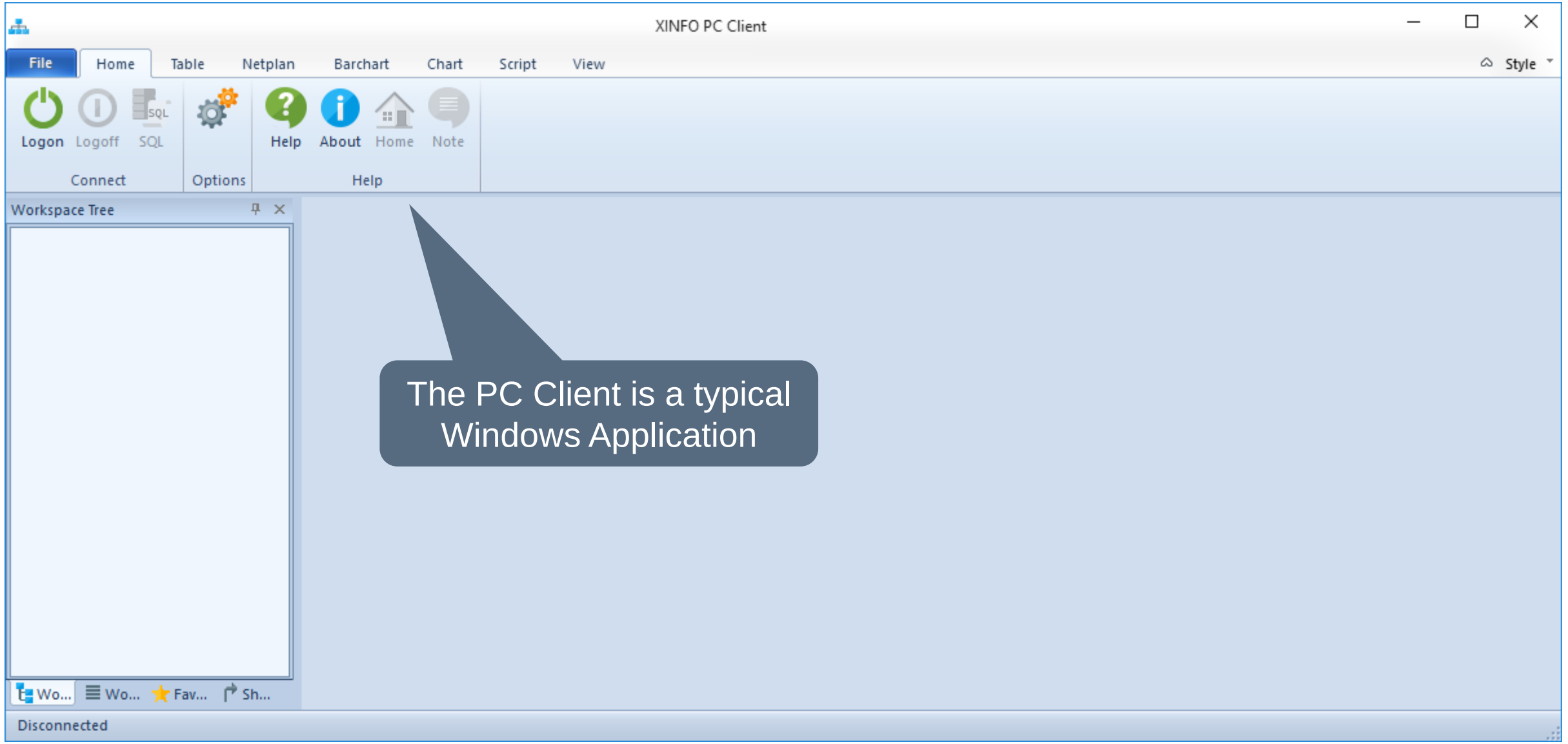
XINFO enables you to answer questions like:

- Which jobs use file A.B.C?
- Which jobs use program PGM1?
- When was file A.B.C used in which jobs?
- Which DB2 or IMS databases are used in which jobs?
- Which job successors has job ABC?
- Which jobs were active last Monday at 3.30?
- Which Source use COPY member ABC?
- Which programs are calling sub program XYZ?
- and much more …

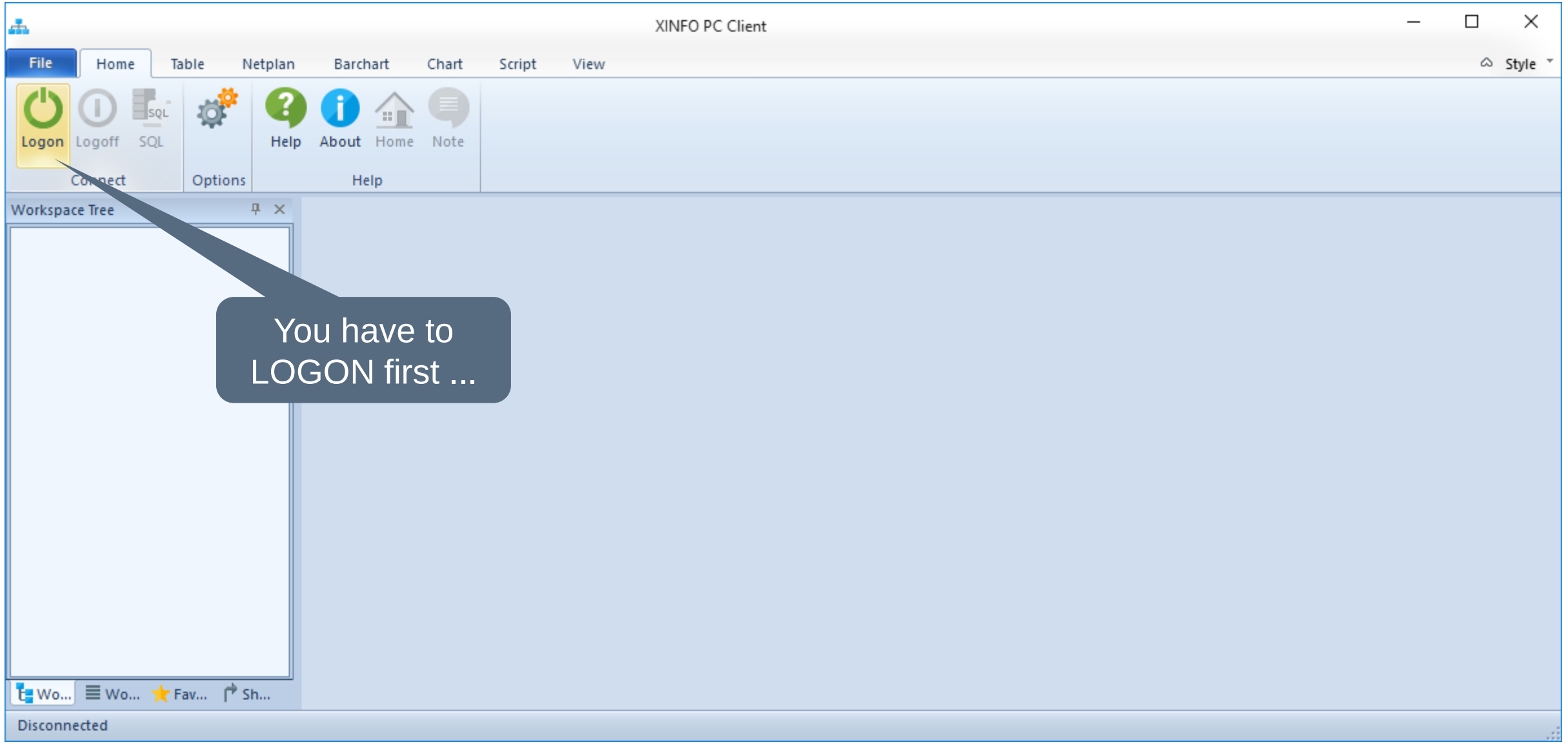
PC Client - Basic Functions

- Logon
- Display List
- Select Display
- Selection Panel
- Table Display
- Sort Column
- Line Commands
- Search - Option 99
- Search
- Graphics
- More client functions…

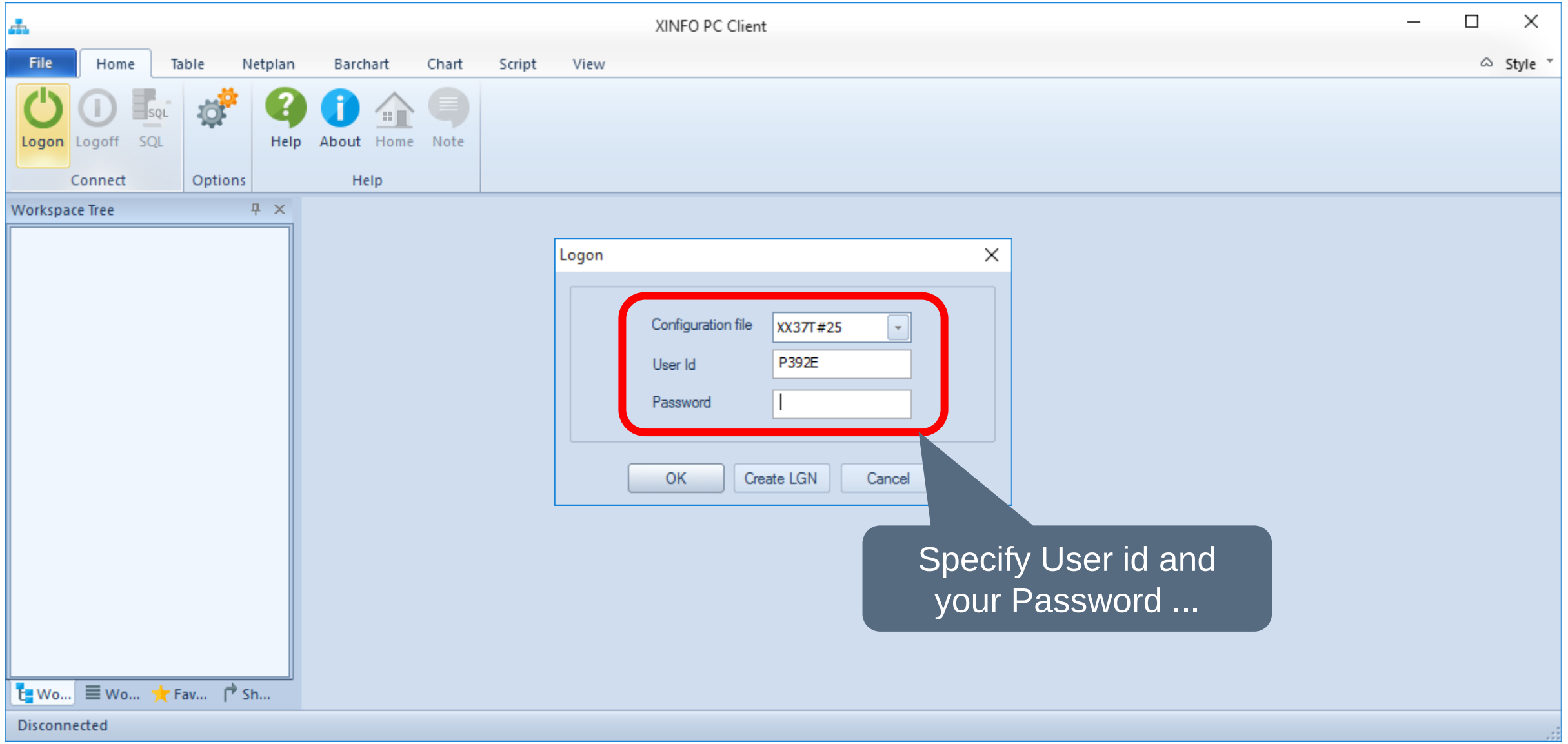
PC Client - Main Windows



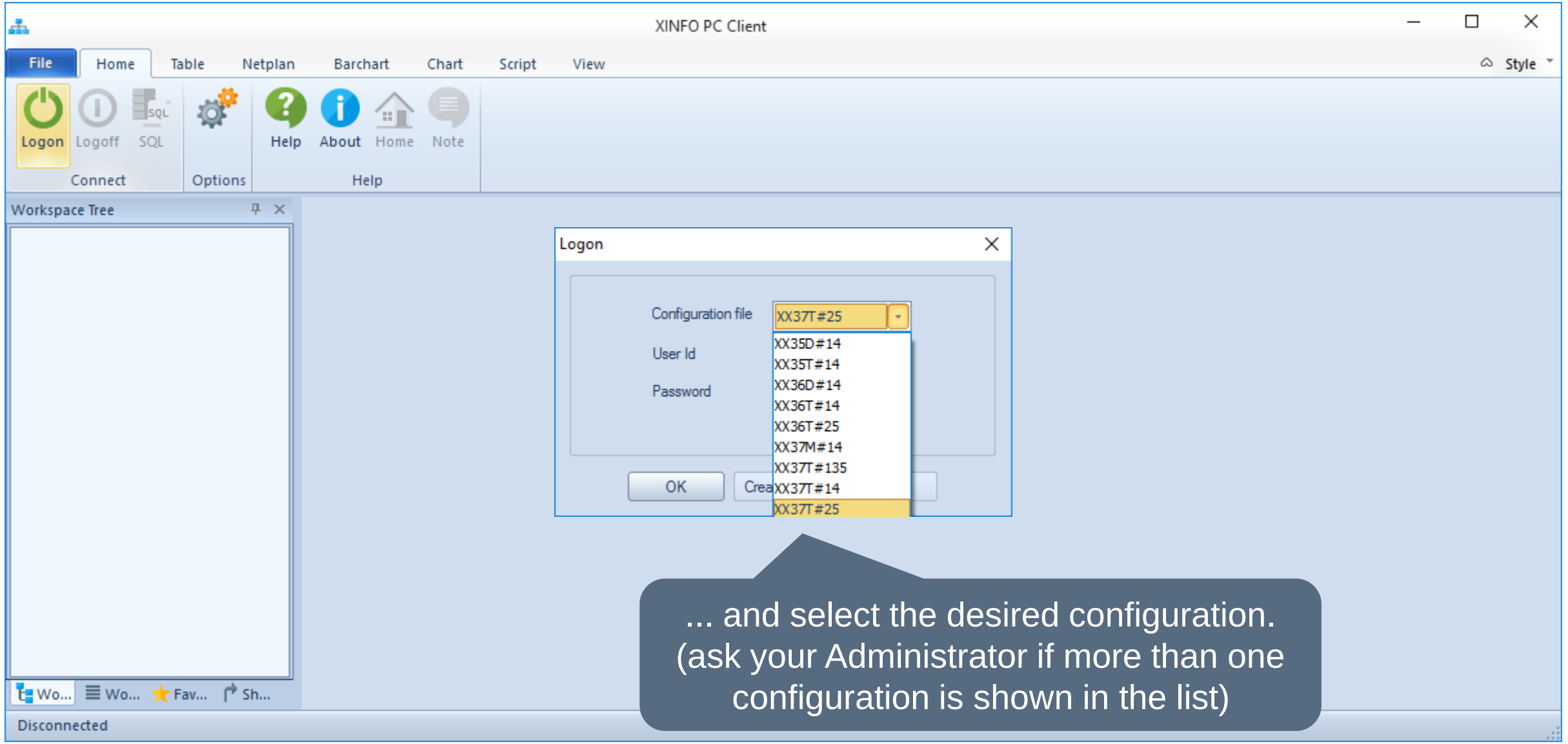
PC Client - Logon



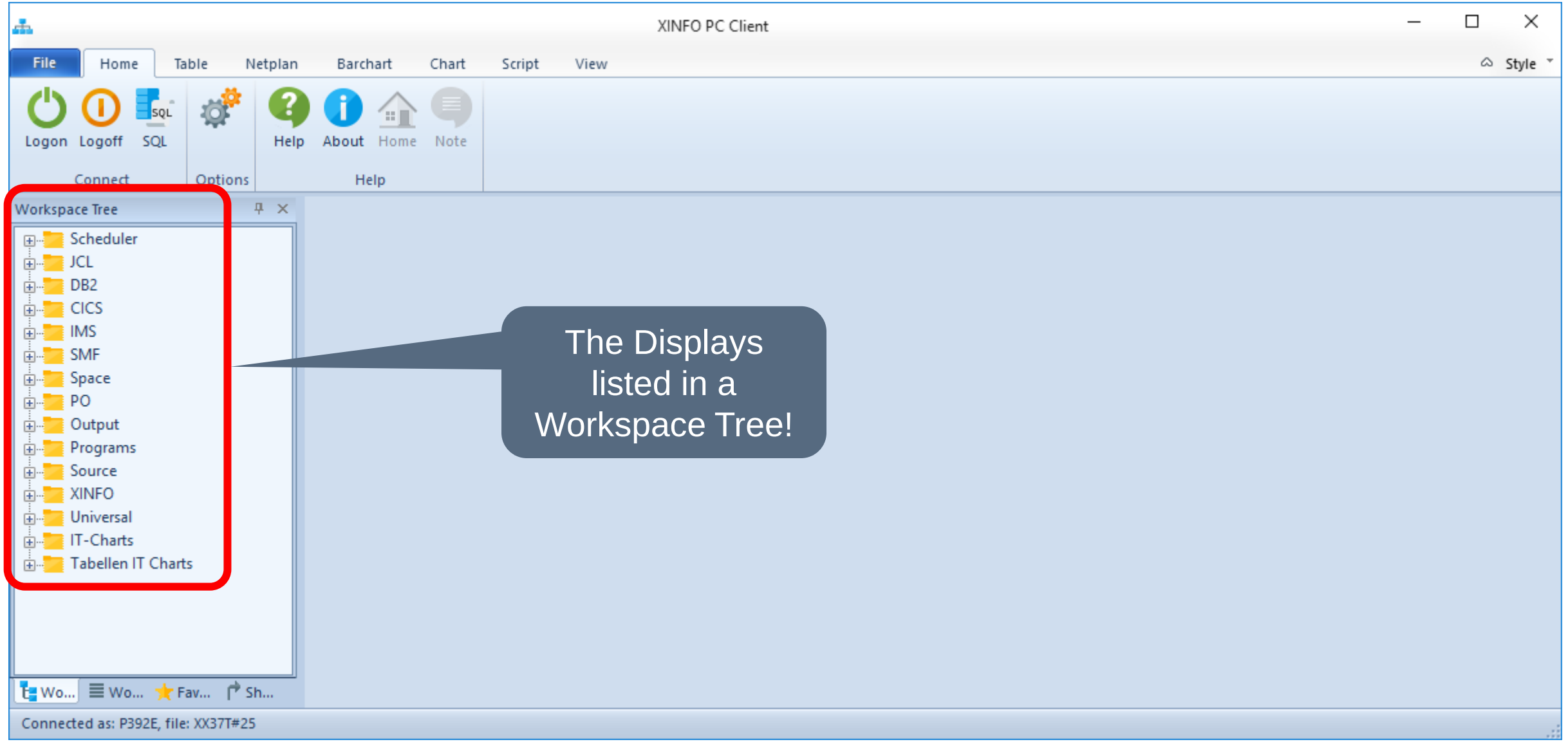
PC Client - Logon



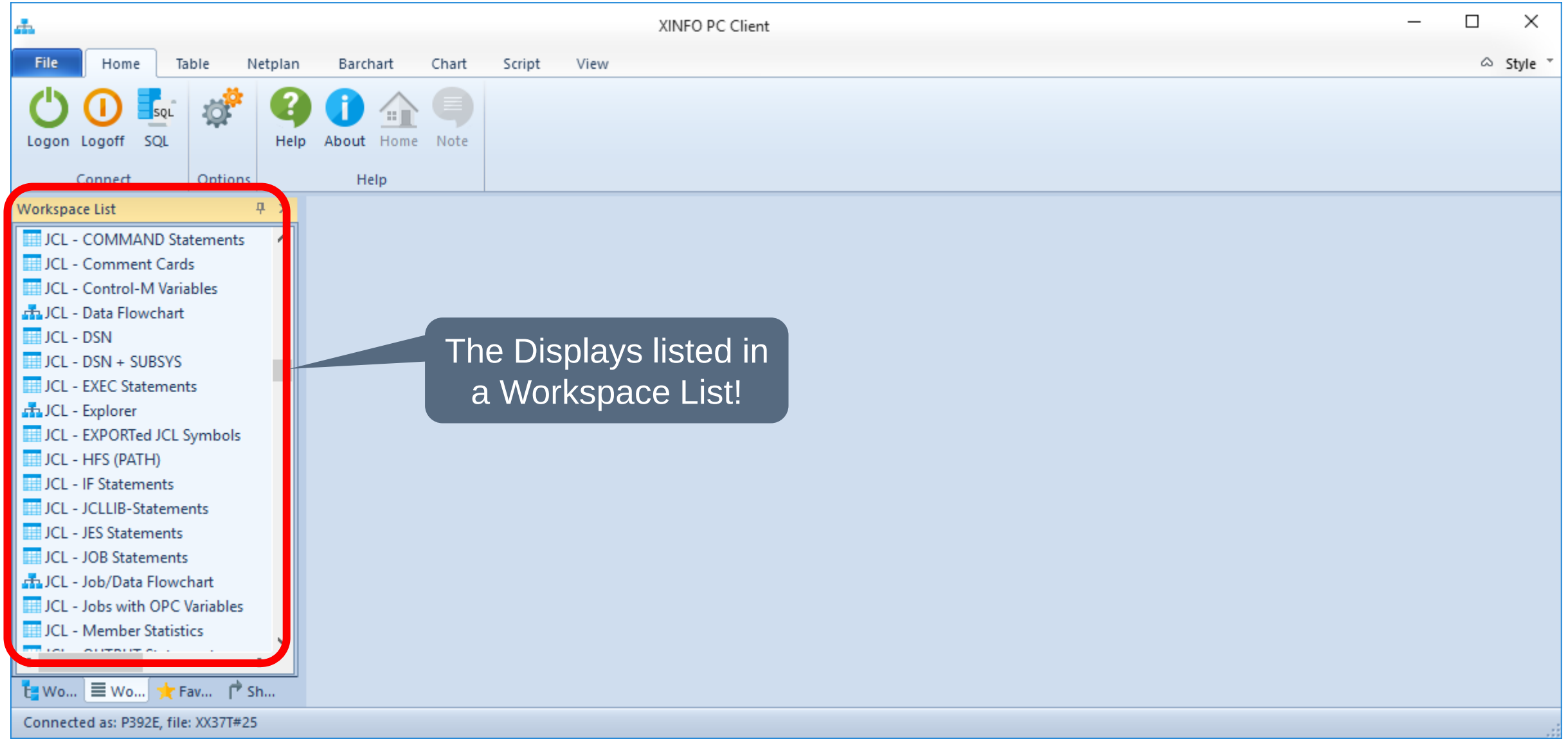
PC Client - Logon



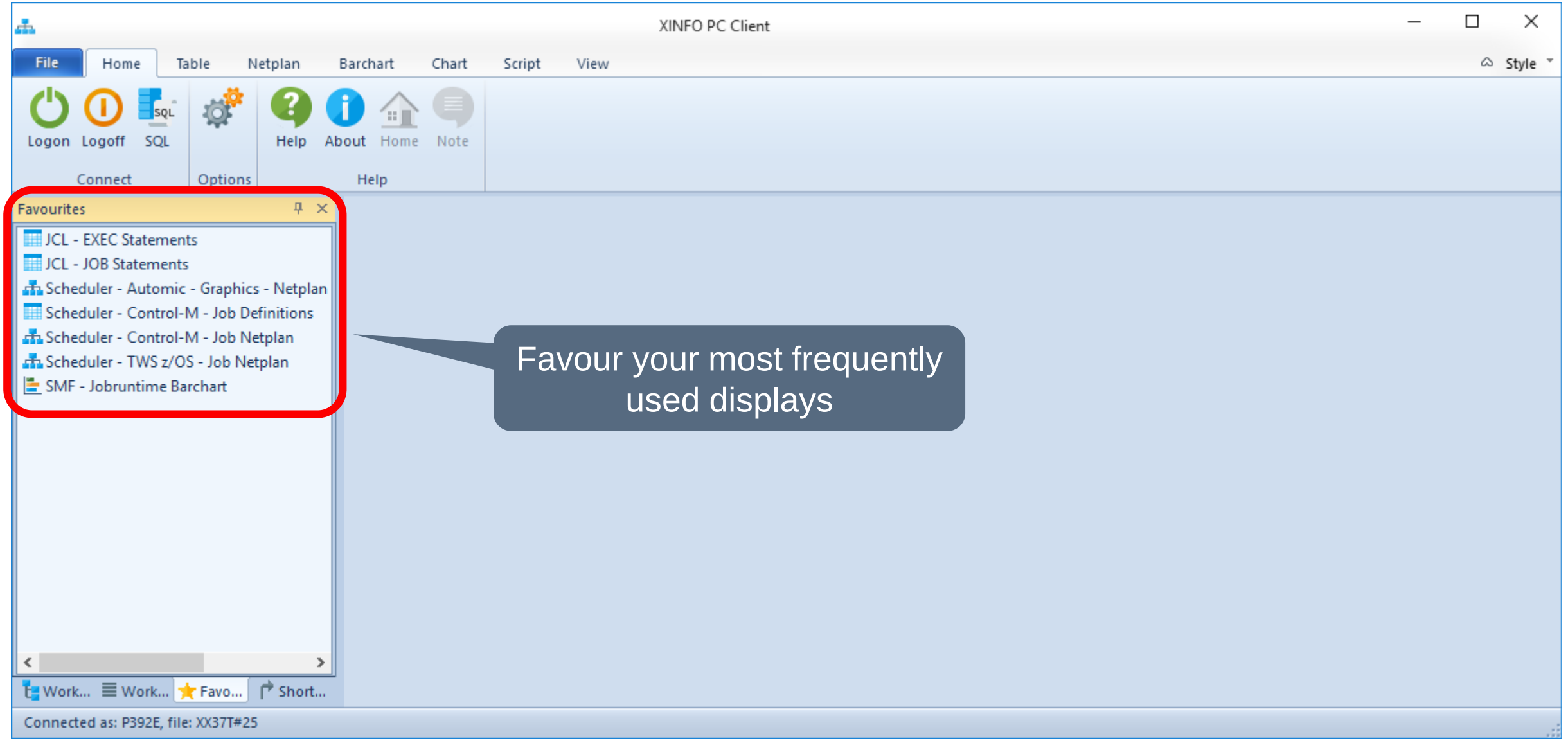
PC Client - Display List



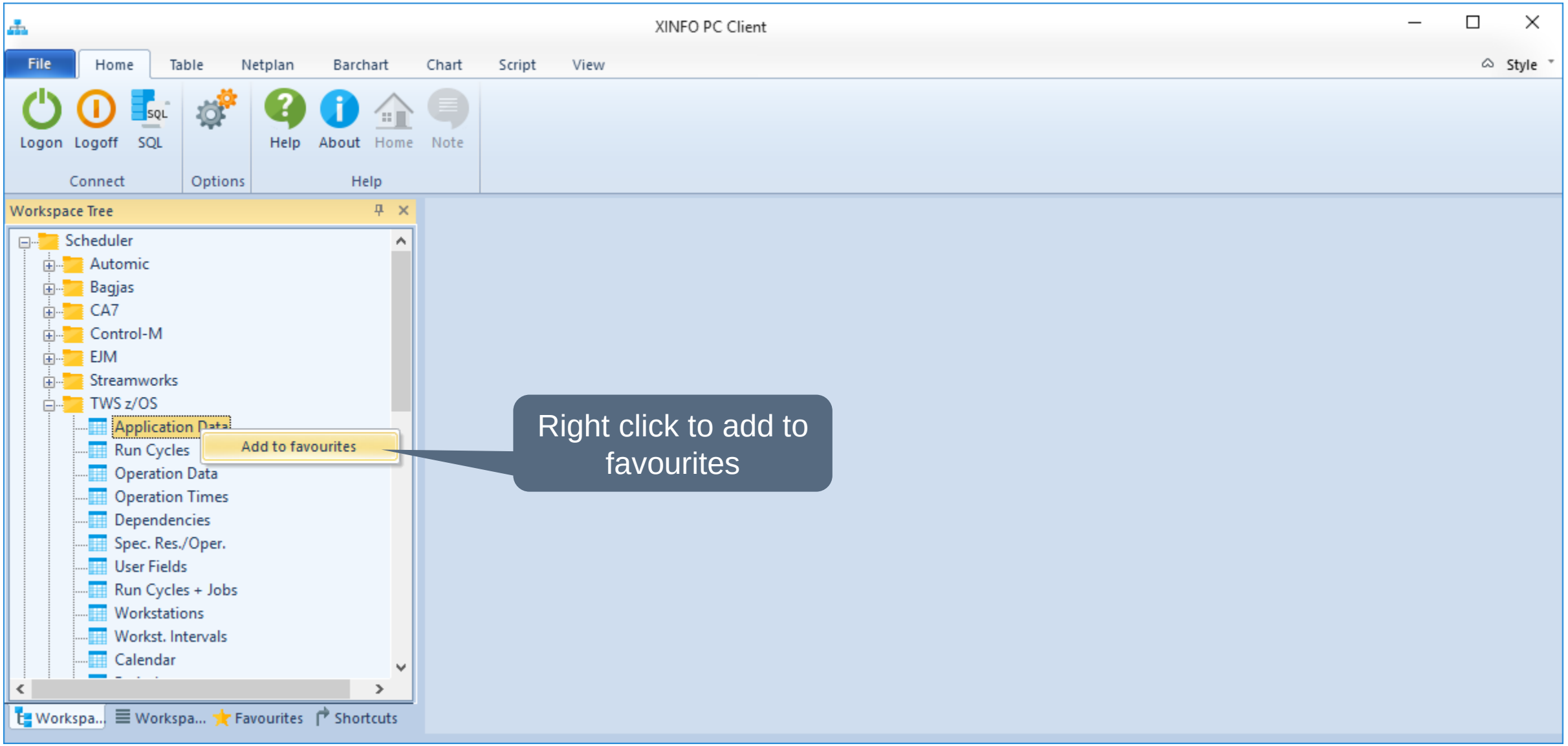
PC Client - Display List



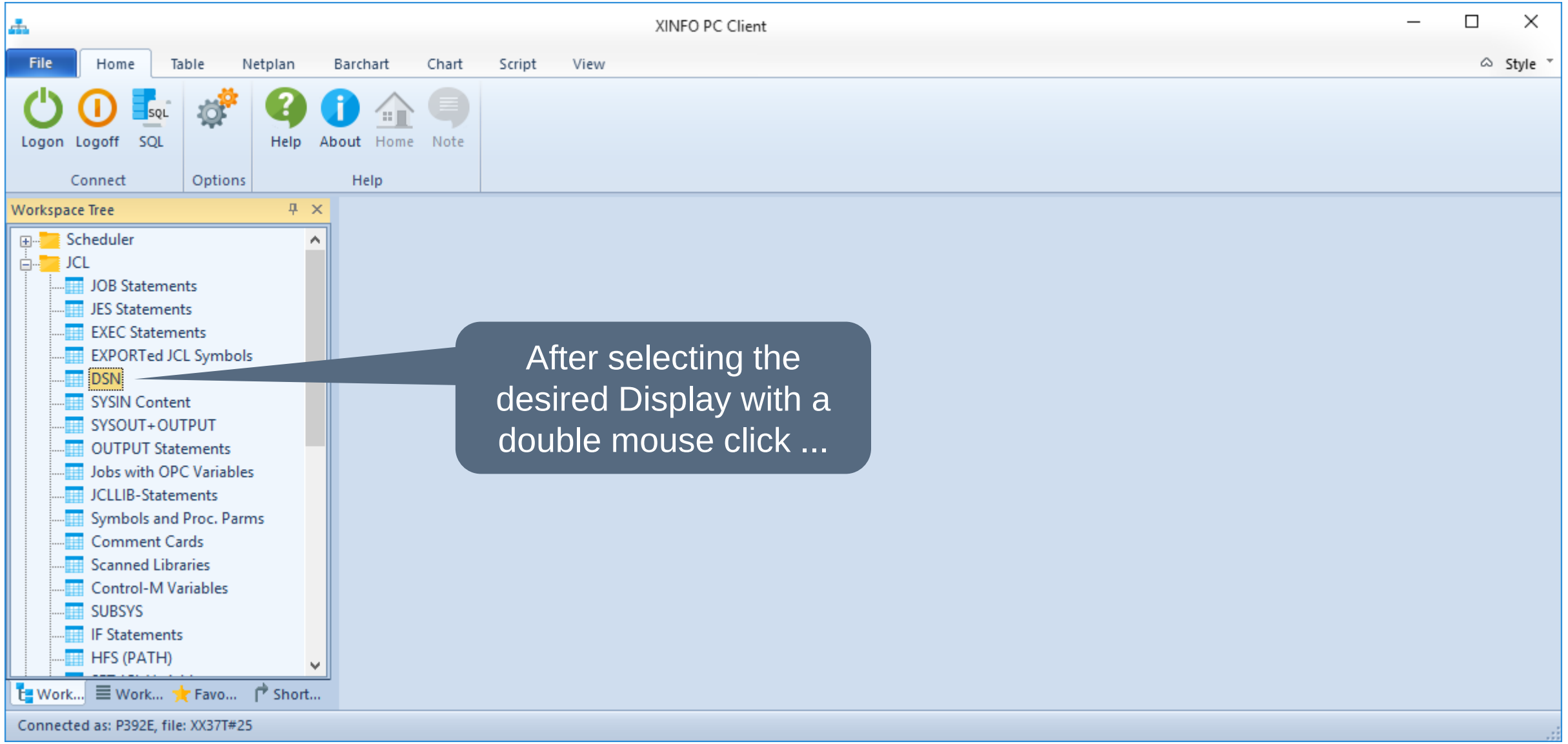
PC Client - Favourites List



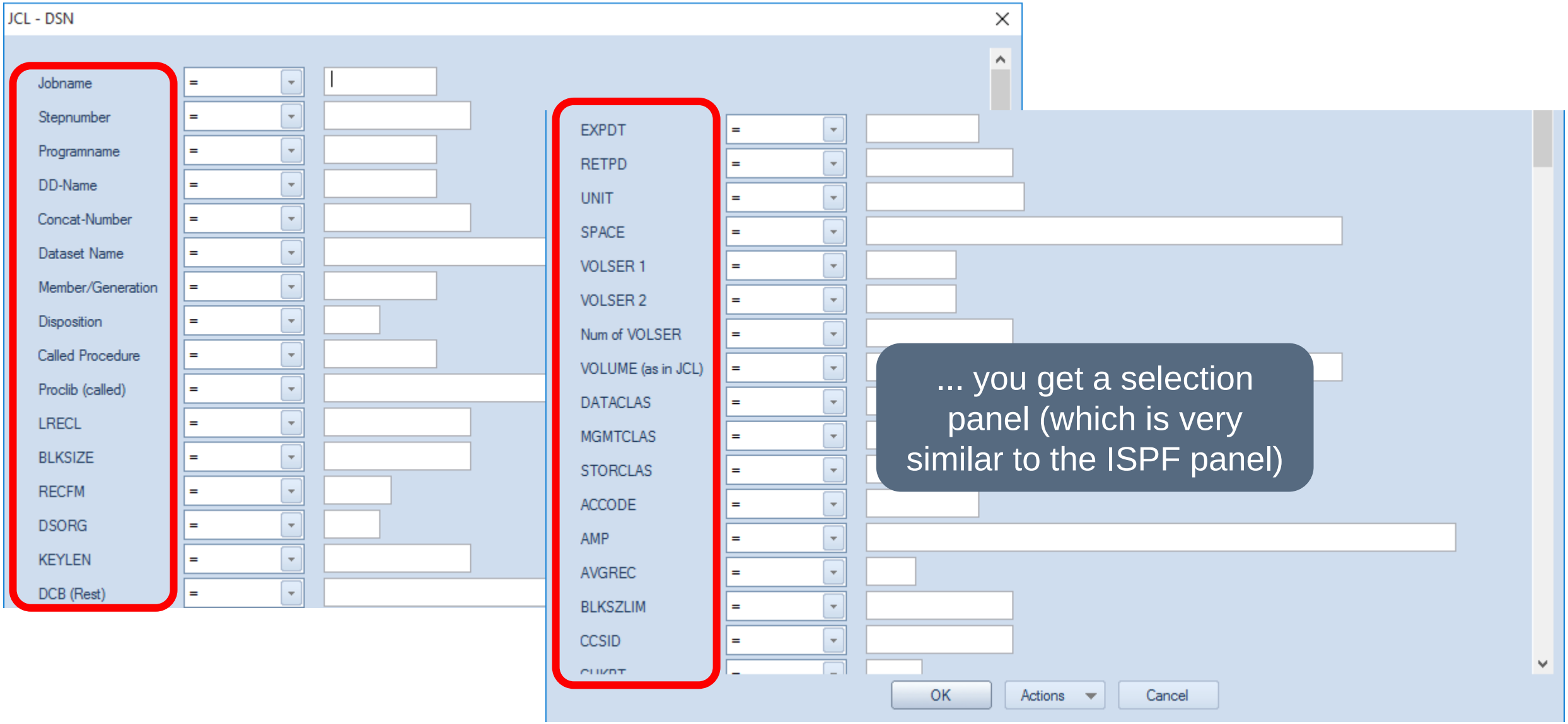
PC Client - Favourites List



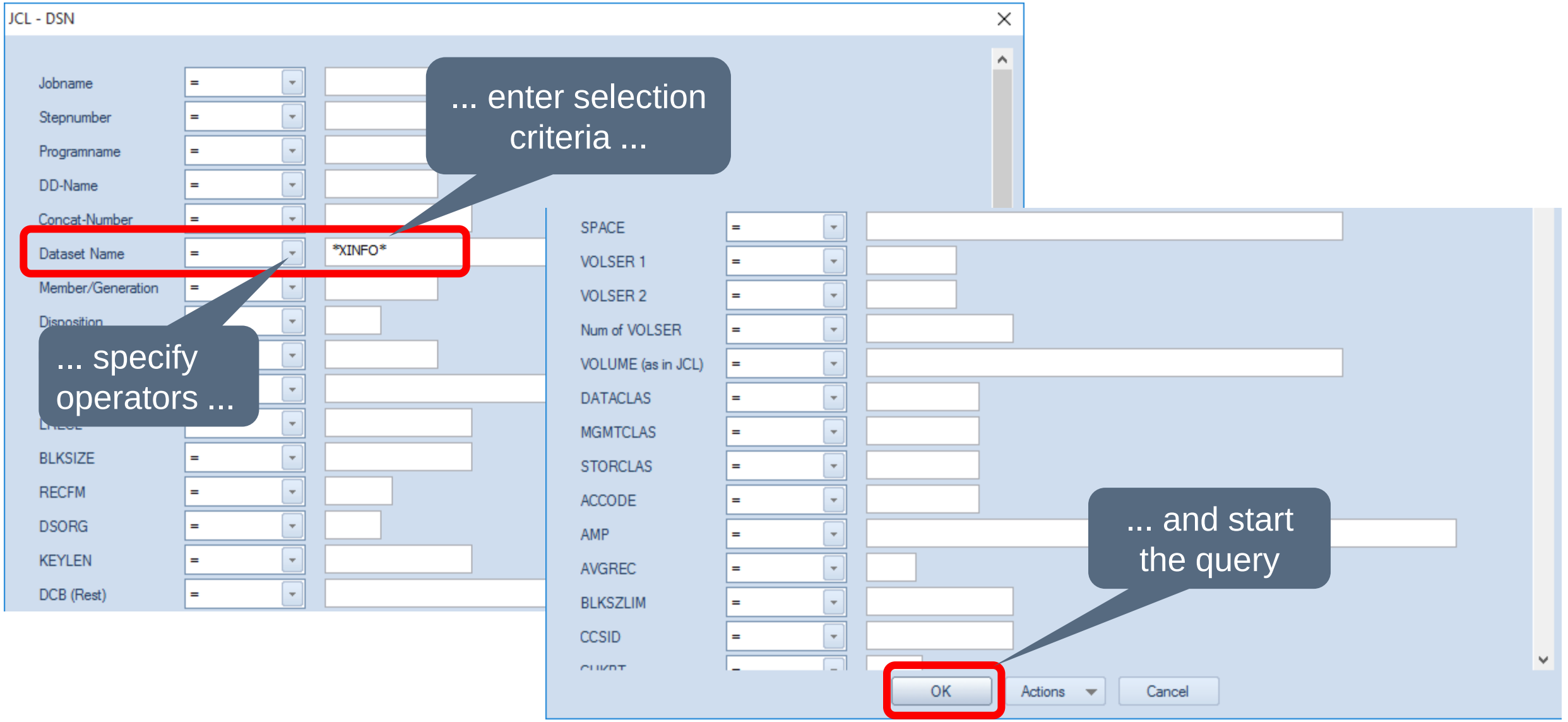
PC Client - Select Display



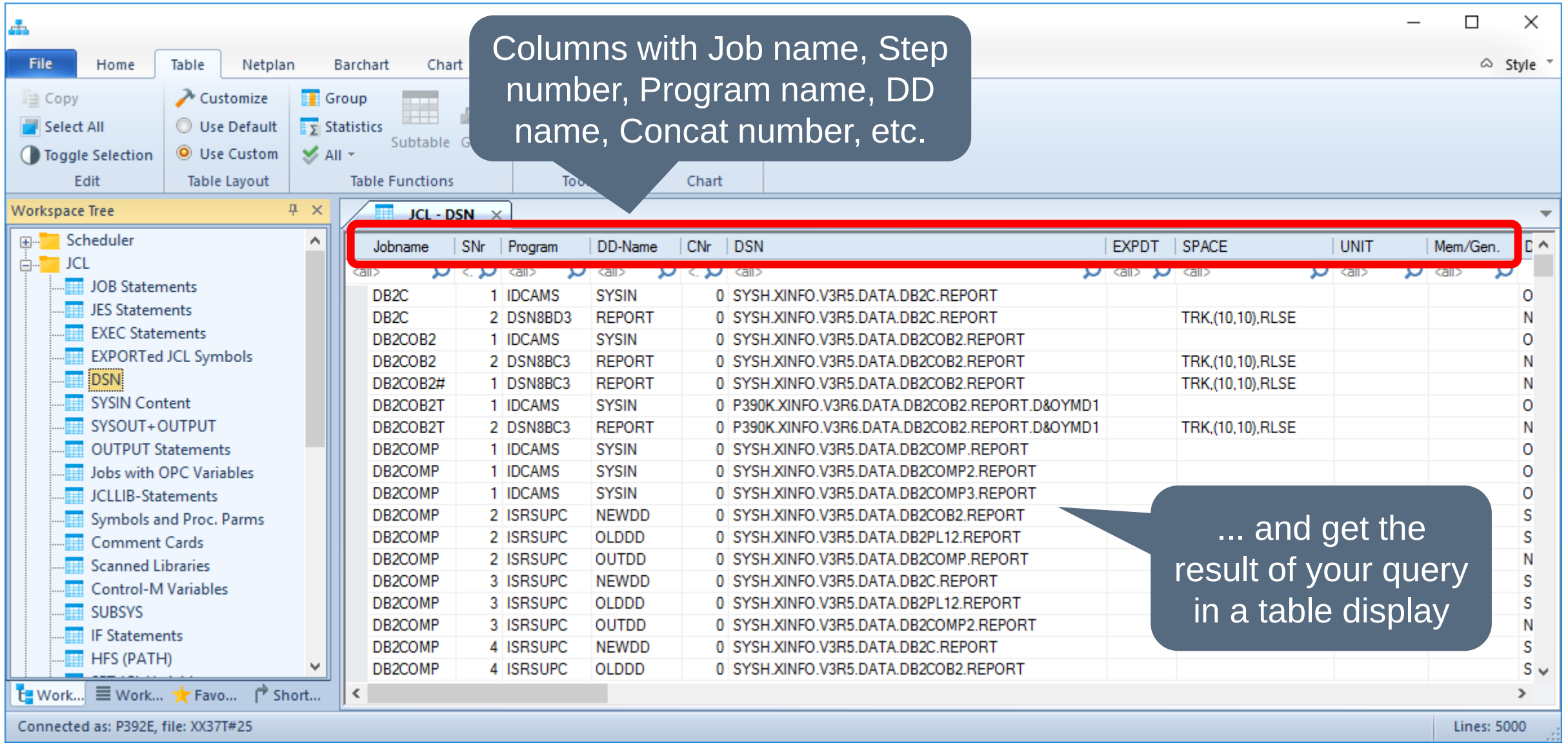
PC Client - Selection Panel



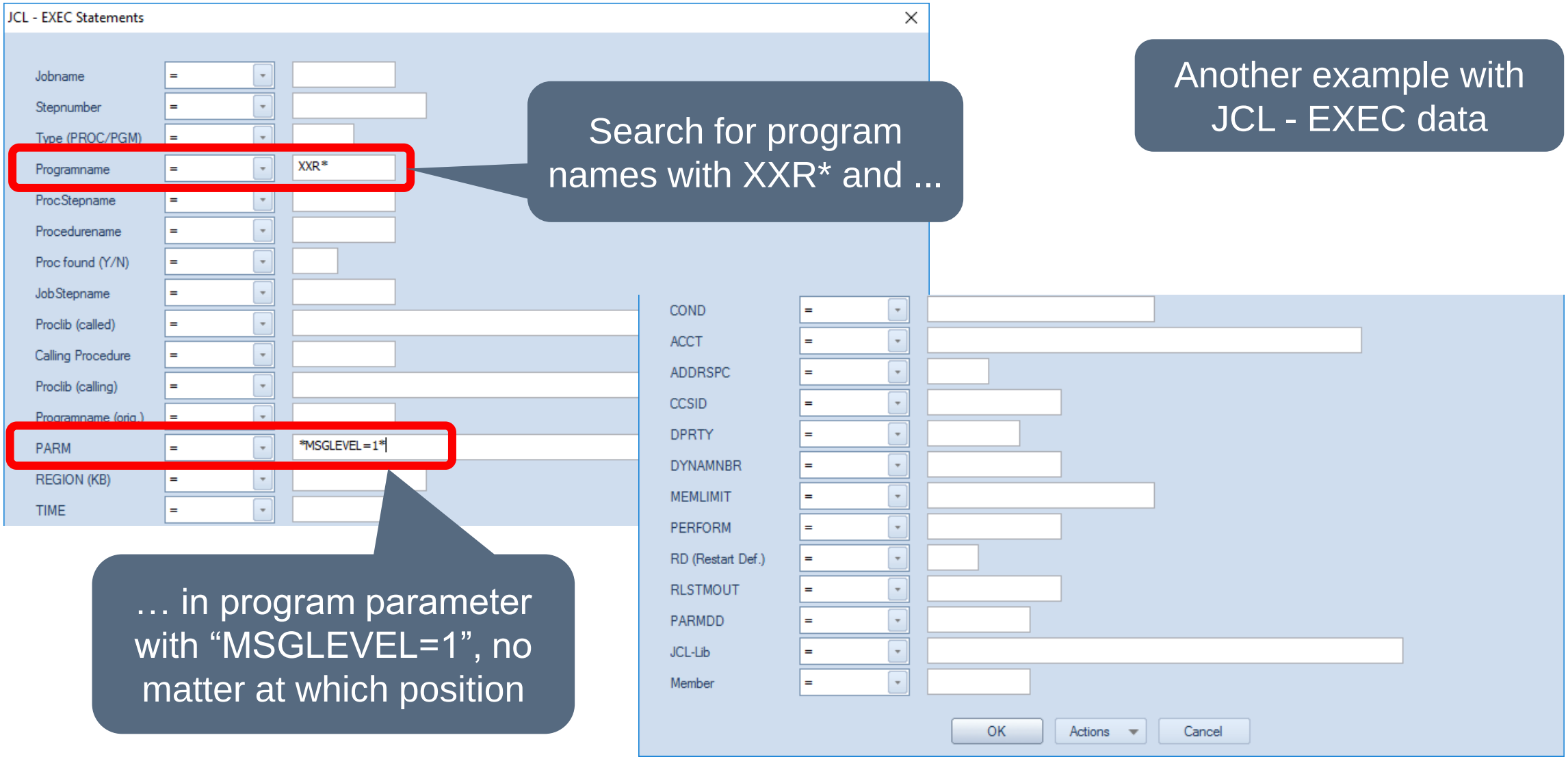
PC Client - Selection Panel



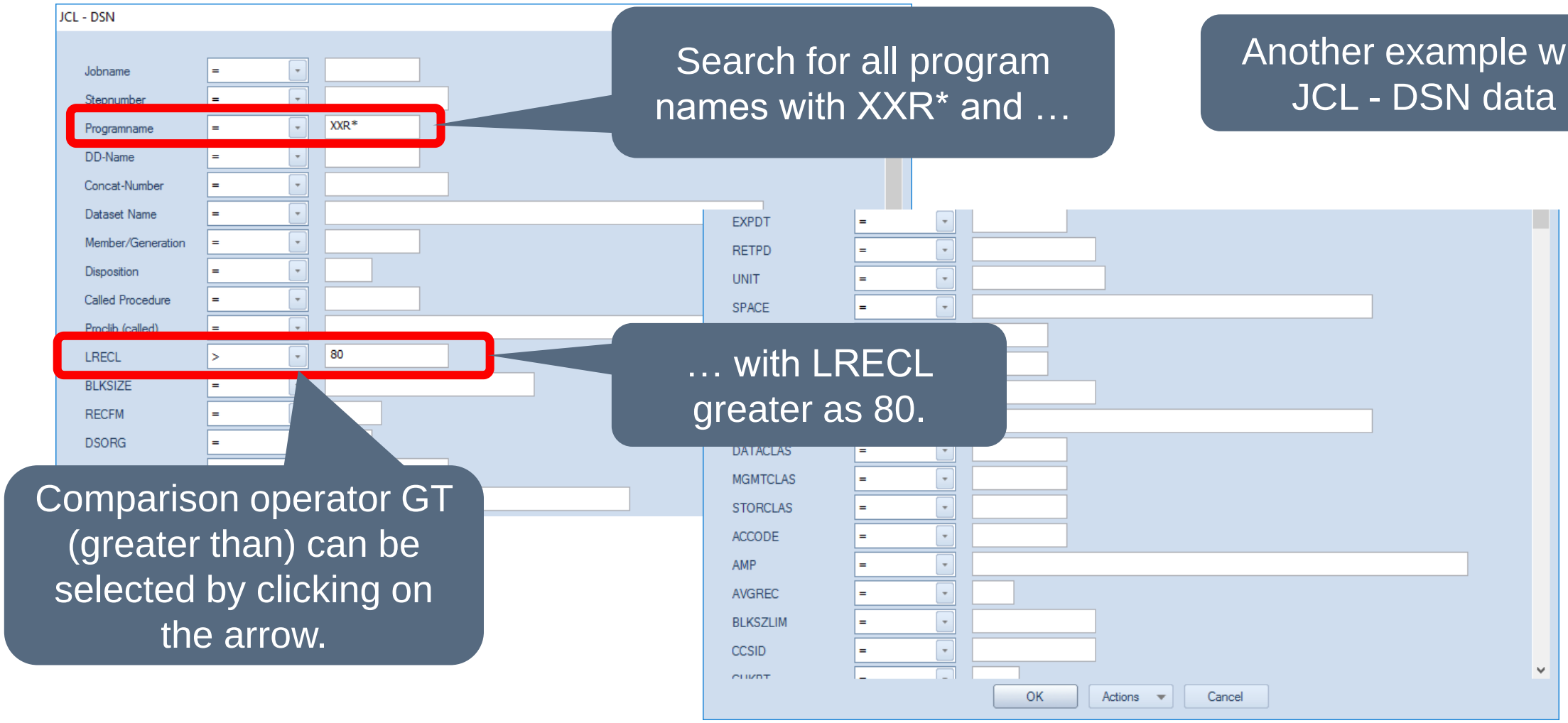
PC Client - Table Display



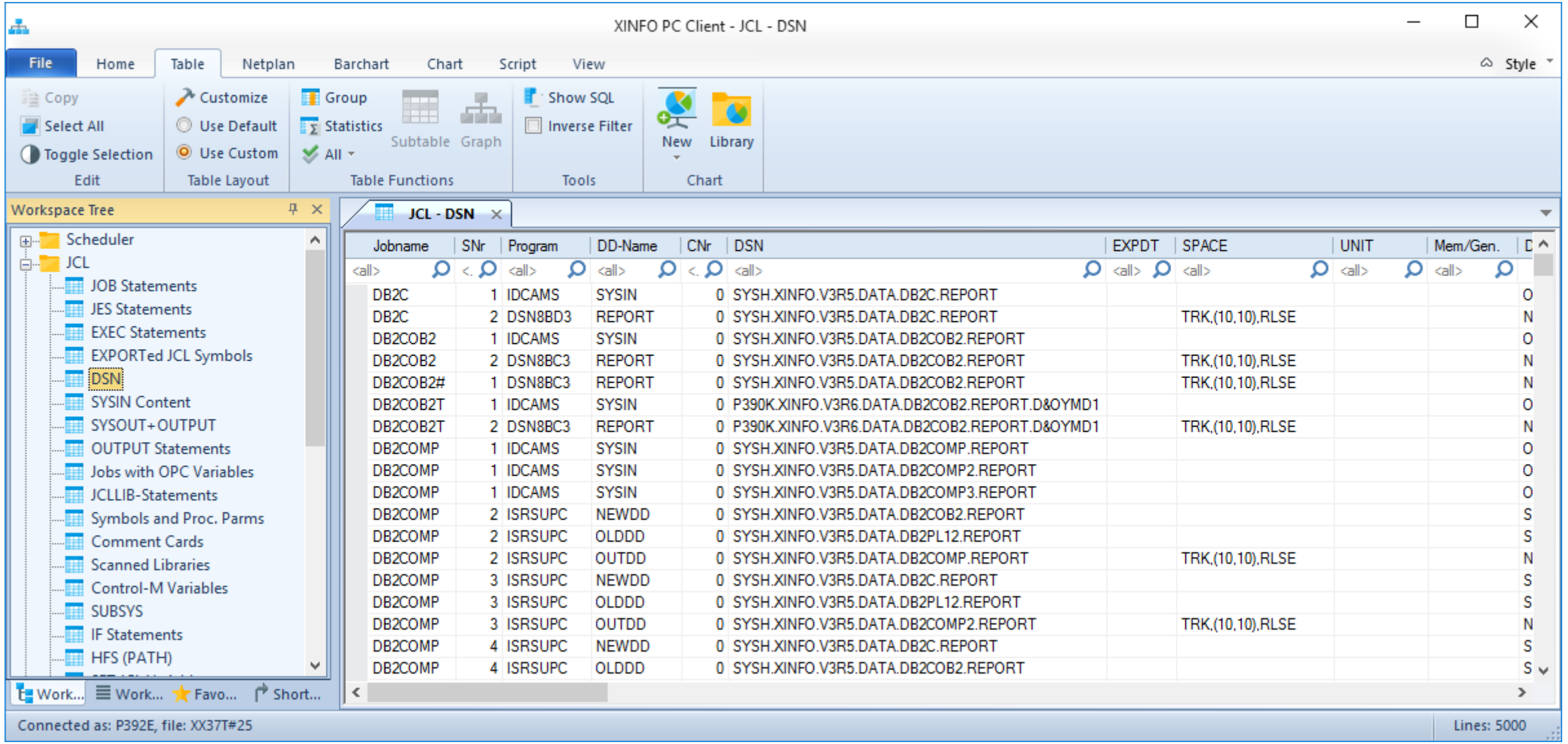
PC Client - Selection Panel



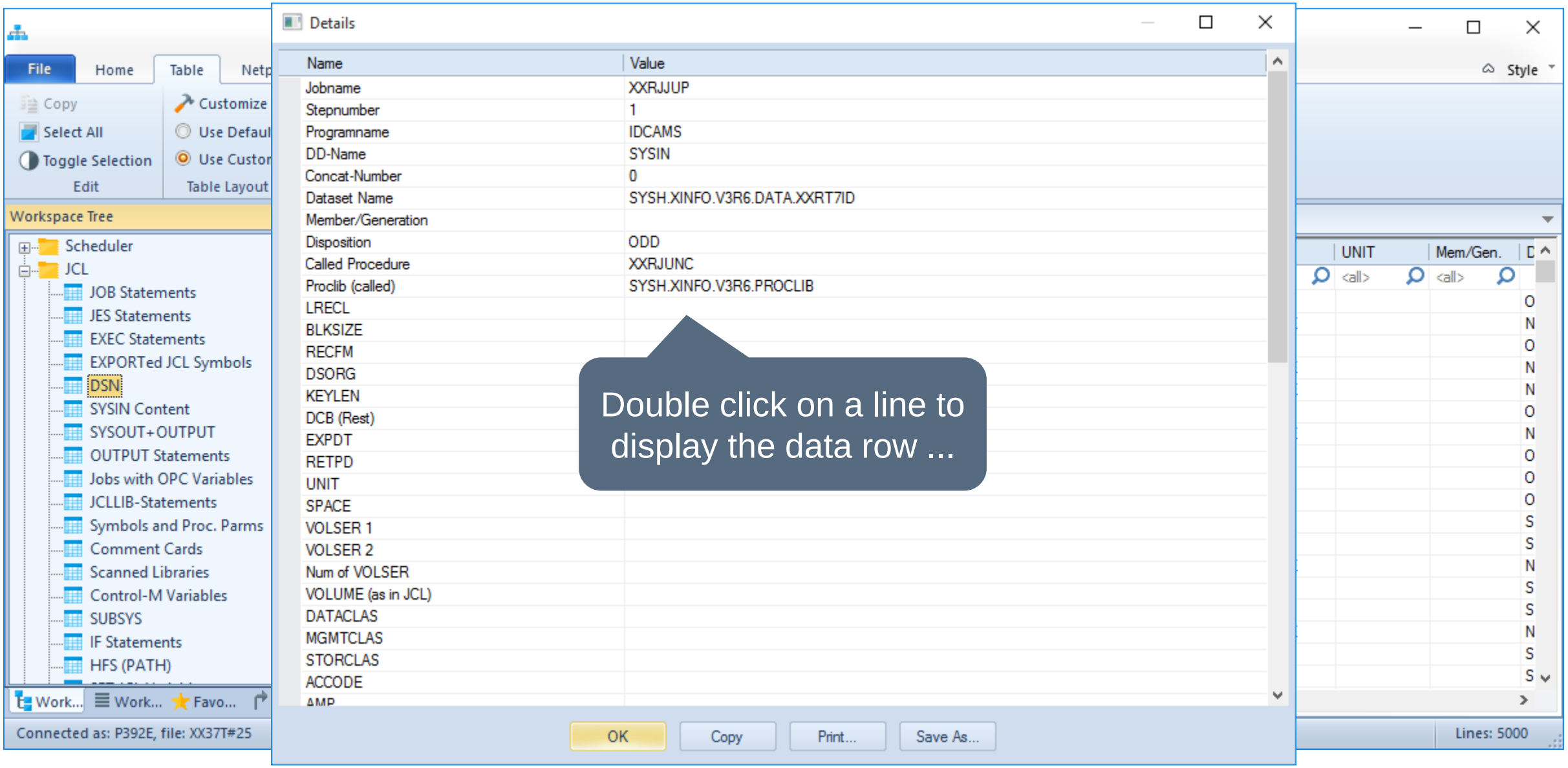
PC Client - Selection Panel



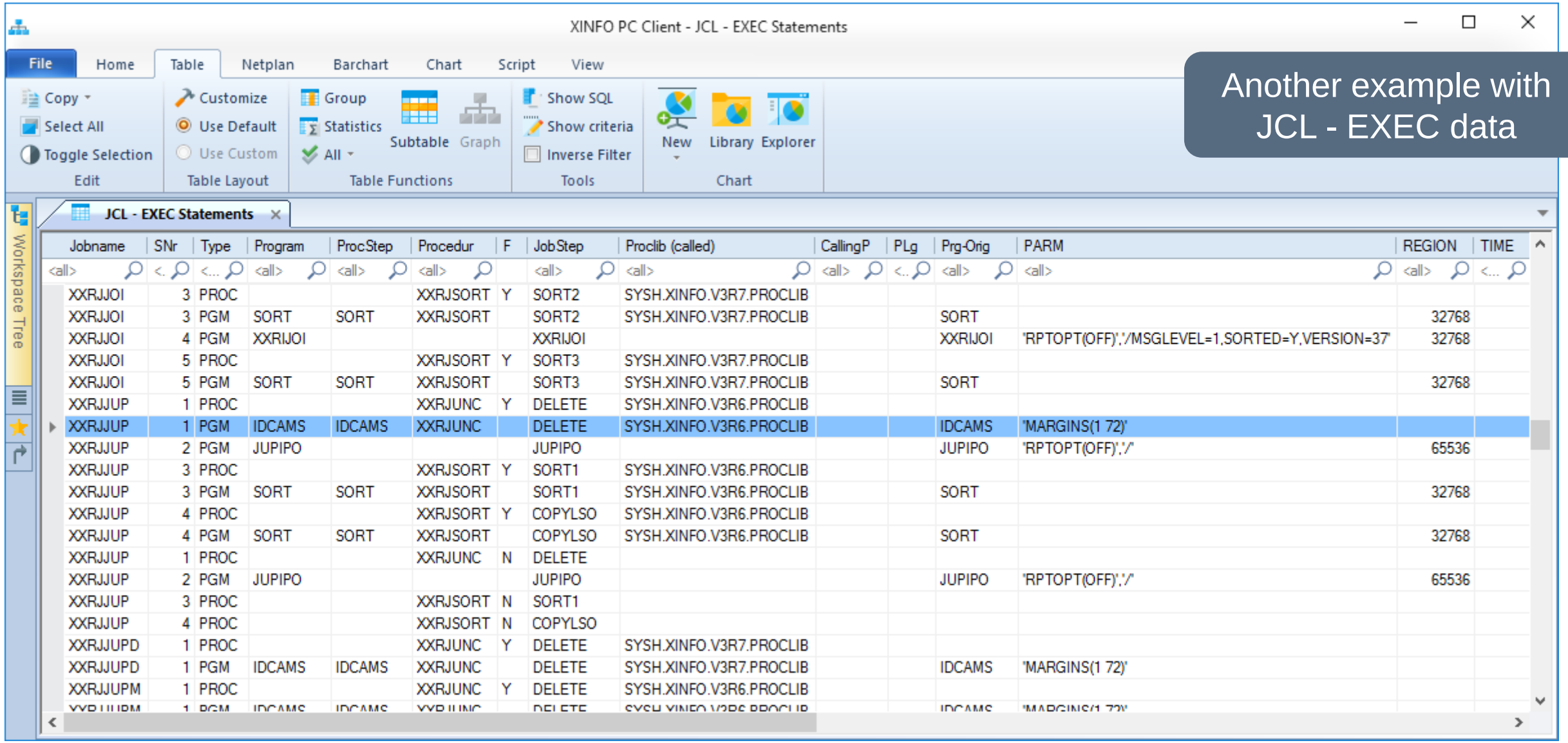
PC Client - Output Display



PC Client - Output Display

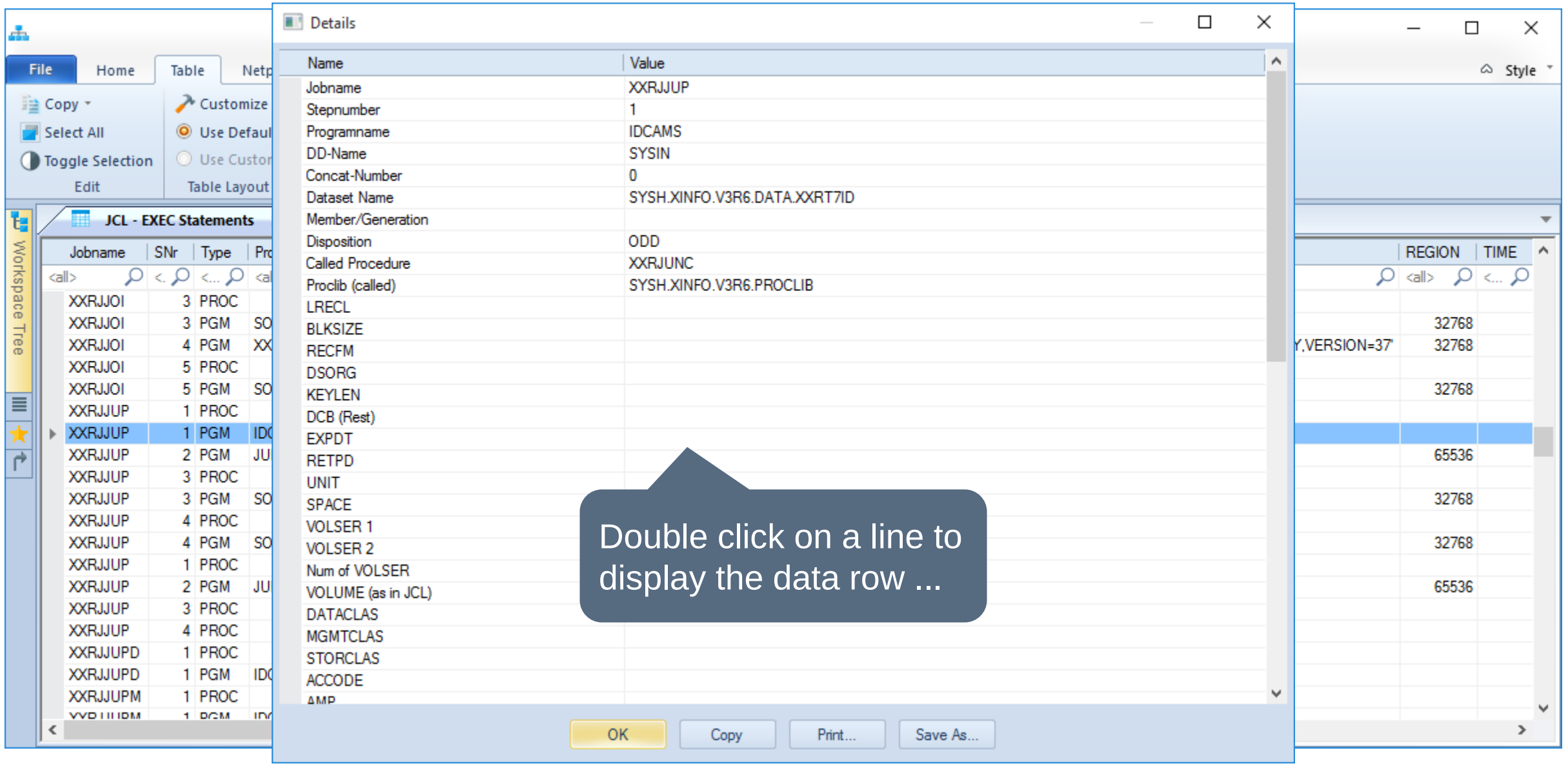


PC Client - Output Panel

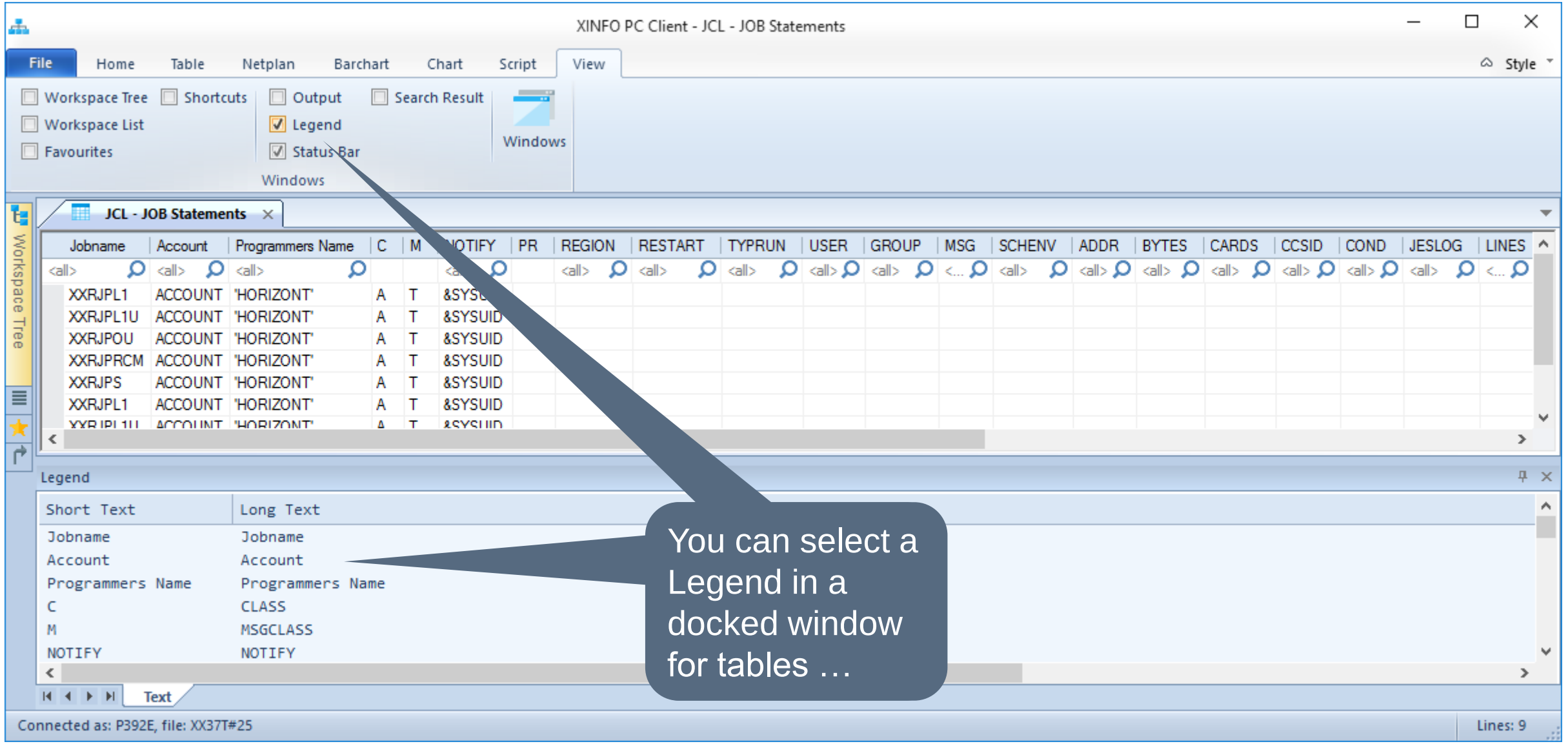


Jobname	SNr	Type	Program	ProcStep	Procedur	F	JobStep	Proclib (called)	CallingP	PLg	Prg-Orig	PARM	REGION	TIME
XXRJJOI	3	PROC			XXRJSORT	Y	SORT2	SYSH.XINFO.V3R7.PROCLIB						
XXRJJOI	3	PGM	SORT	SORT	XXRJSORT		SORT2	SYSH.XINFO.V3R7.PROCLIB			SORT		32768	
XXRJJOI	4	PGM	XXRIJOI				XXRIJOI				XXRIJOI	'RPTOPT(OFF)','/MSGLEVEL=1,SORTED=Y,VERSION=37'	32768	
XXRJJOI	5	PROC			XXRJSORT	Y	SORT3	SYSH.XINFO.V3R7.PROCLIB						
XXRJJOI	5	PGM	SORT	SORT	XXRJSORT		SORT3	SYSH.XINFO.V3R7.PROCLIB			SORT		32768	
XXRJJUP	1	PROC			XXRJUNC	Y	DELETE	SYSH.XINFO.V3R6.PROCLIB						
XXRJJUP	1	PGM	IDCAMS	IDCAMS	XXRJUNC		DELETE	SYSH.XINFO.V3R6.PROCLIB			IDCAMS	'MARGINS(1 72)'		
XXRJJUP	2	PGM	JUPIPO				JUPIPO				JUPIPO	'RPTOPT(OFF)','/'	65536	
XXRJJUP	3	PROC			XXRJSORT	Y	SORT1	SYSH.XINFO.V3R6.PROCLIB						
XXRJJUP	3	PGM	SORT	SORT	XXRJSORT		SORT1	SYSH.XINFO.V3R6.PROCLIB			SORT		32768	
XXRJJUP	4	PROC			XXRJSORT	Y	COPYLSO	SYSH.XINFO.V3R6.PROCLIB						
XXRJJUP	4	PGM	SORT	SORT	XXRJSORT		COPYLSO	SYSH.XINFO.V3R6.PROCLIB			SORT		32768	
XXRJJUP	1	PROC			XXRJUNC	N	DELETE							
XXRJJUP	2	PGM	JUPIPO				JUPIPO				JUPIPO	'RPTOPT(OFF)','/'	65536	
XXRJJUP	3	PROC			XXRJSORT	N	SORT1							
XXRJJUP	4	PROC			XXRJSORT	N	COPYLSO							
XXRJJUPD	1	PROC			XXRJUNC	Y	DELETE	SYSH.XINFO.V3R7.PROCLIB						
XXRJJUPD	1	PGM	IDCAMS	IDCAMS	XXRJUNC		DELETE	SYSH.XINFO.V3R7.PROCLIB			IDCAMS	'MARGINS(1 72)'		
XXRJJUPM	1	PROC			XXRJUNC	Y	DELETE	SYSH.XINFO.V3R6.PROCLIB						

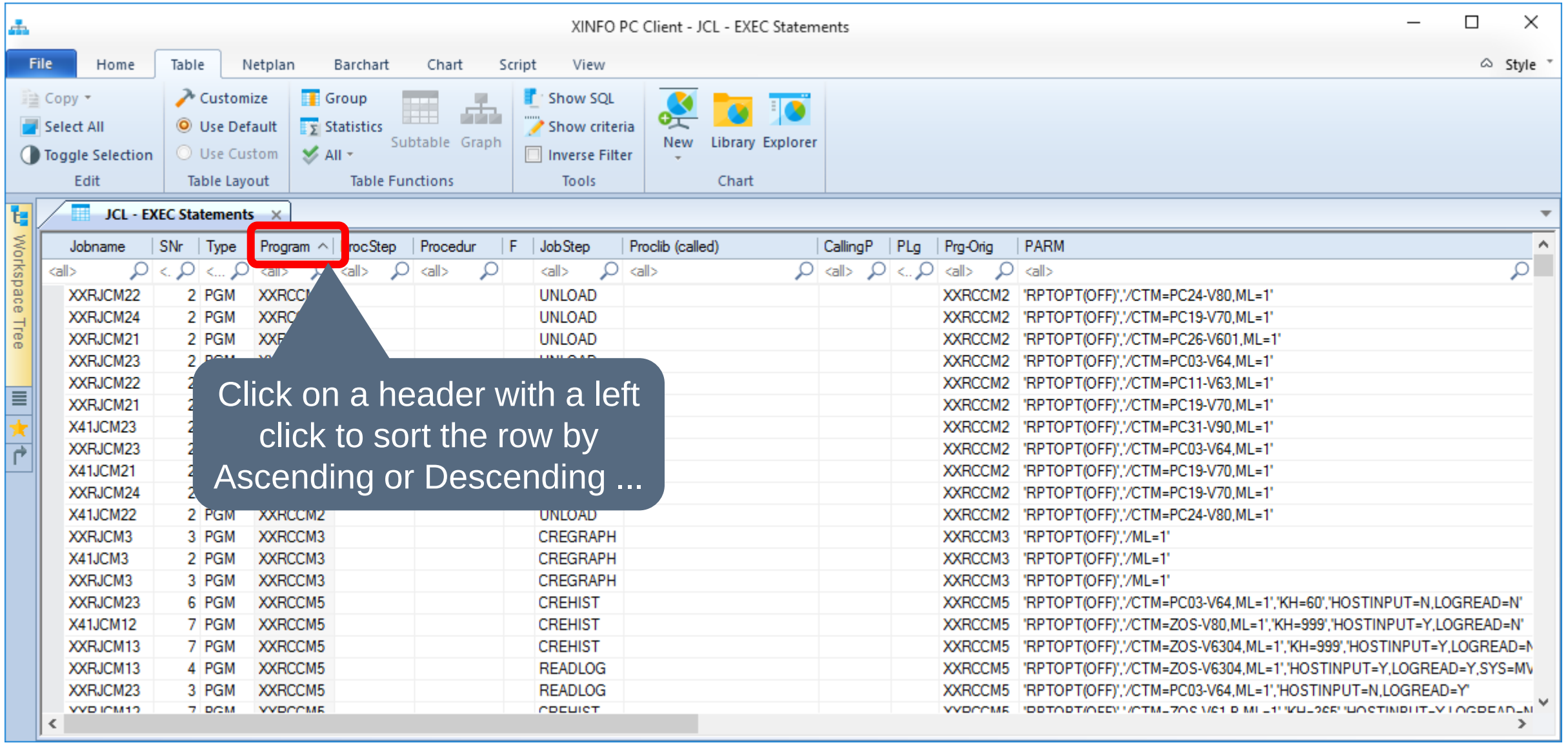
PC Client - Output Panel



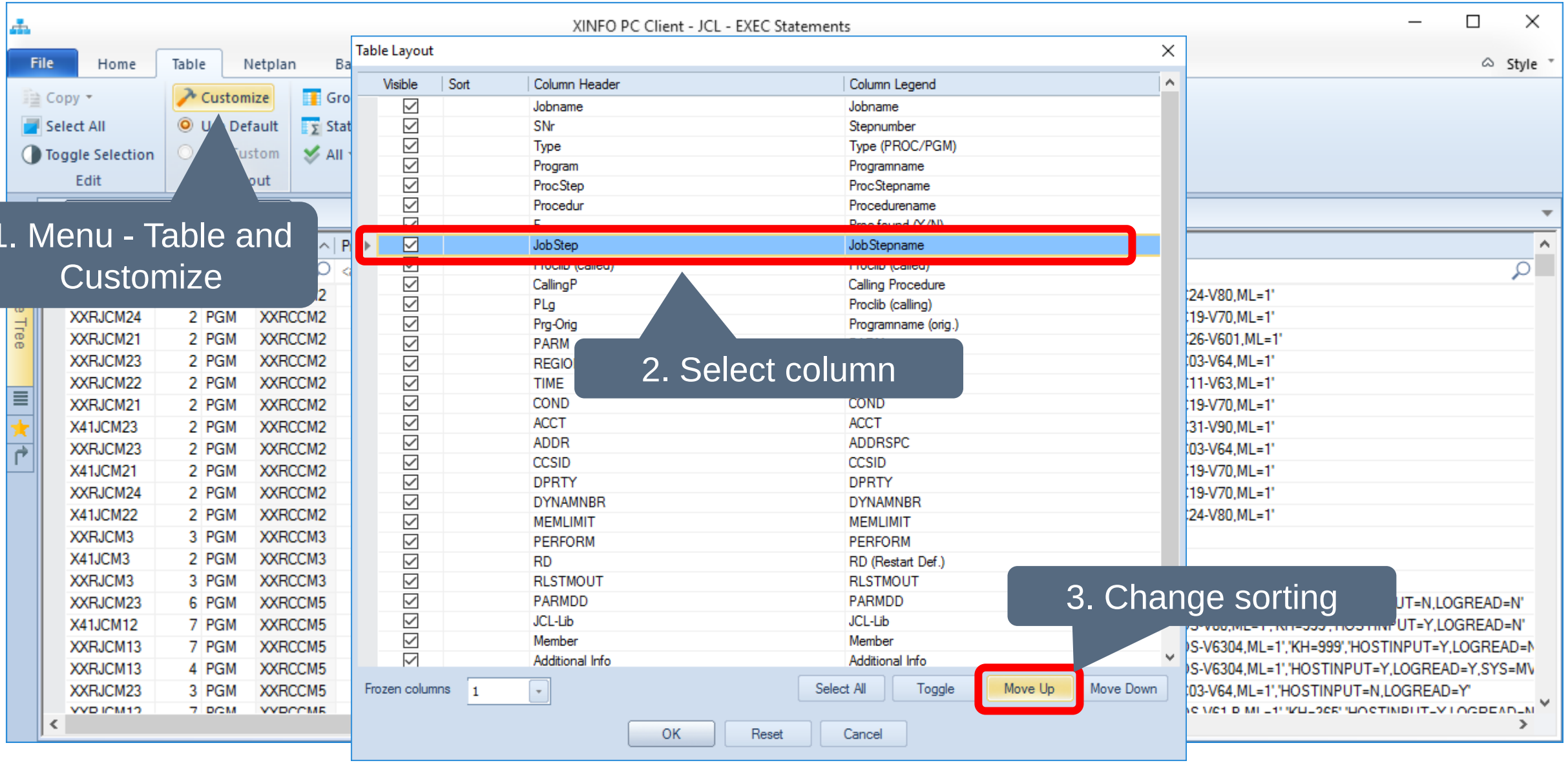
PC Client - Legend



PC Client - Sort Column (1)

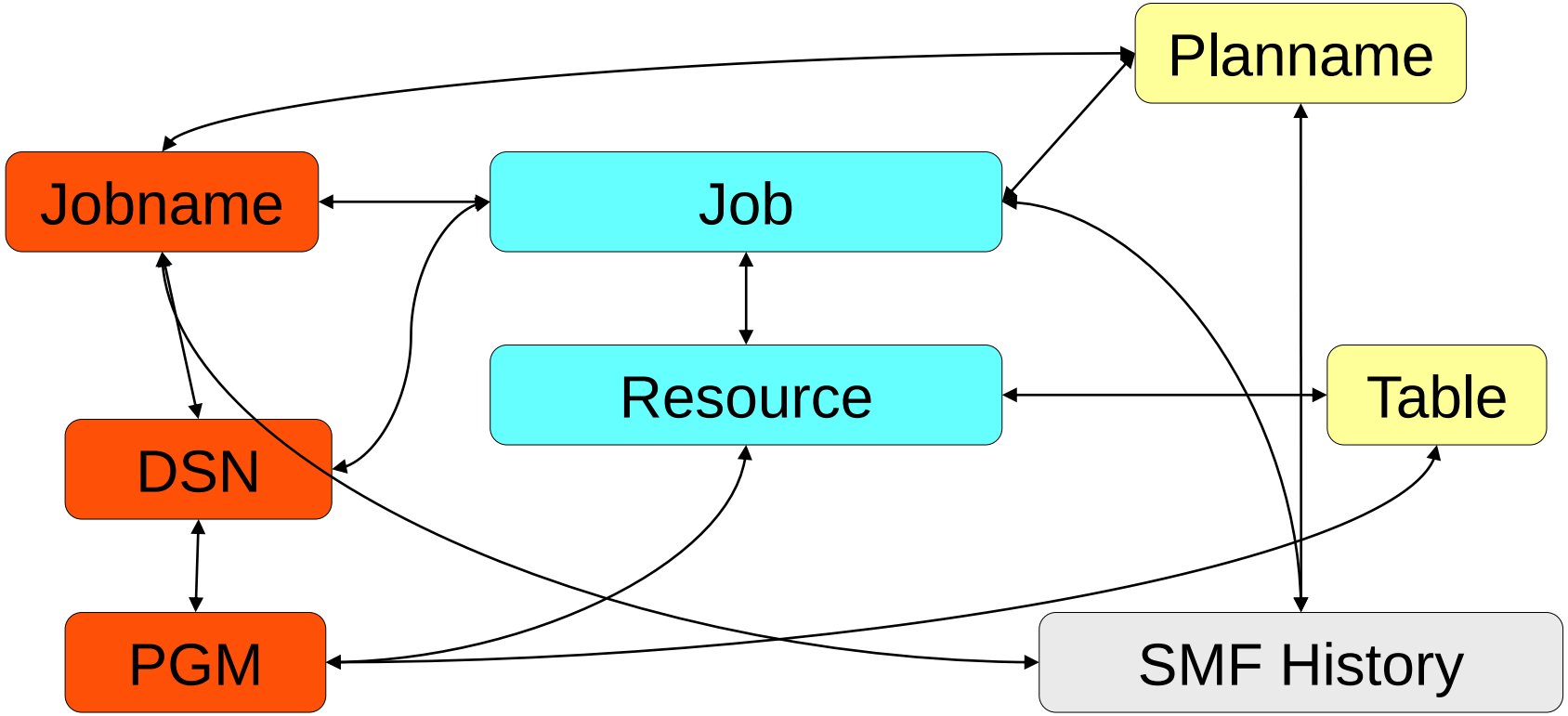


PC Client - Sort Column (2)

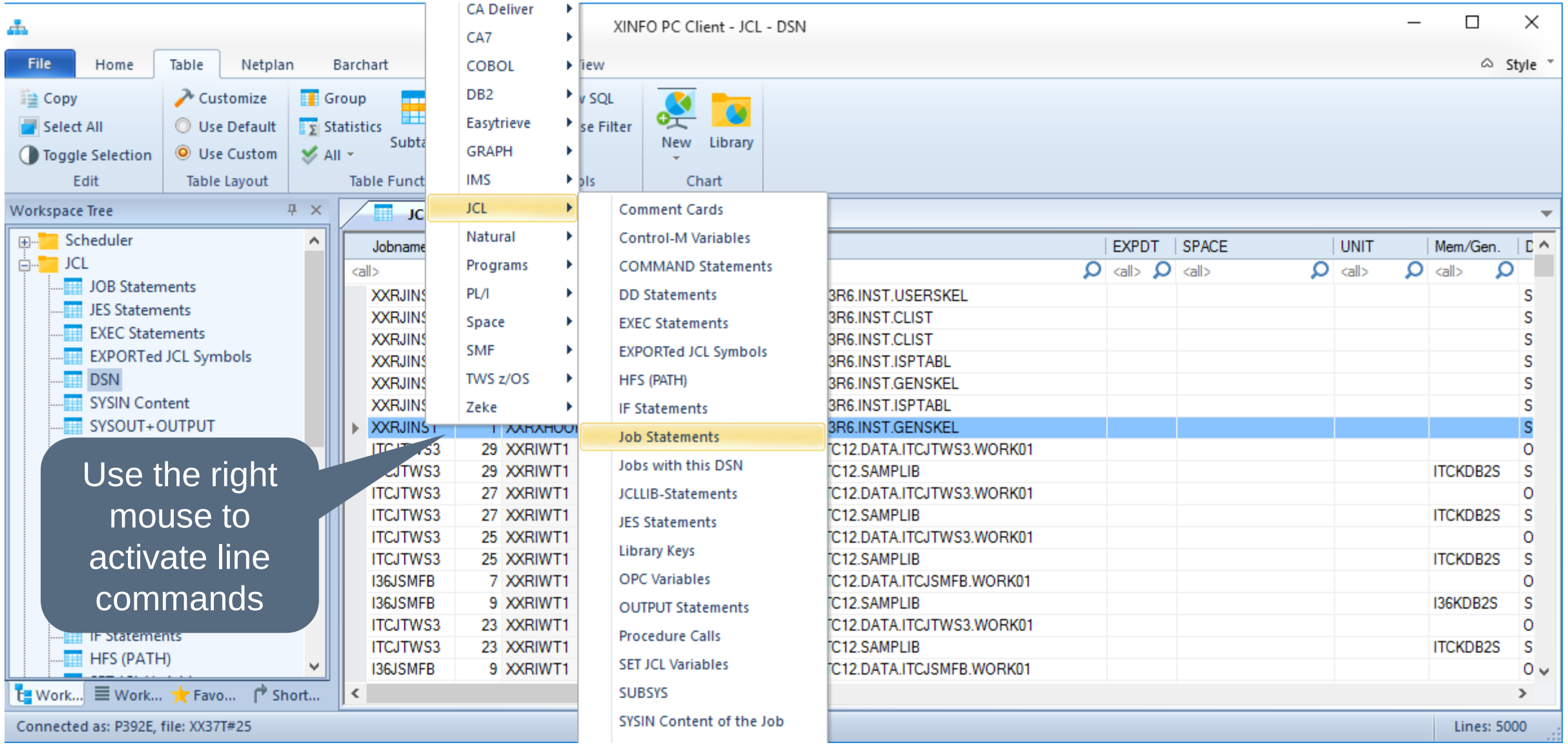


PC Dialog - Line Commands (1)

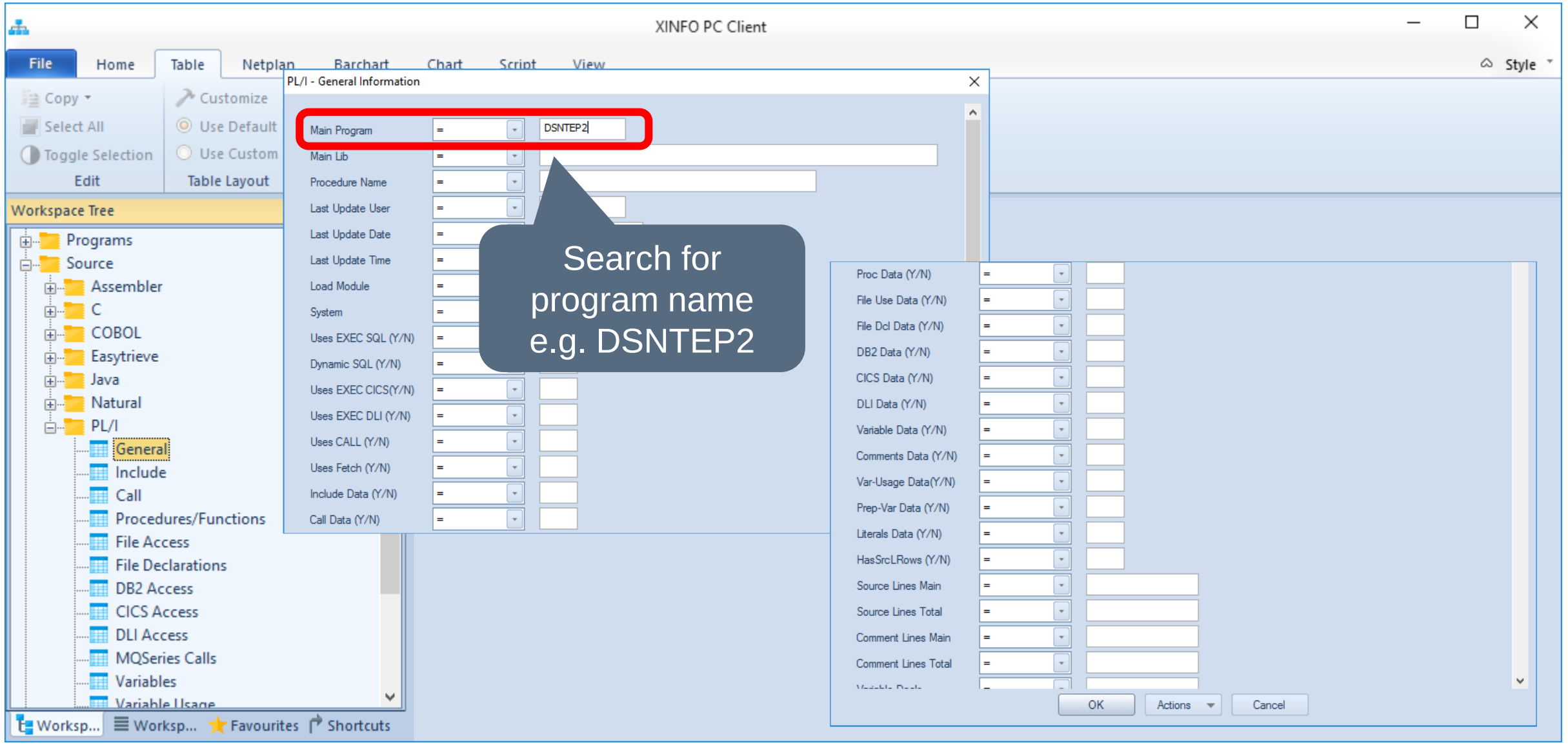
The XINFO line commands are connections to other data, comparable to a hyperlink in web pages.



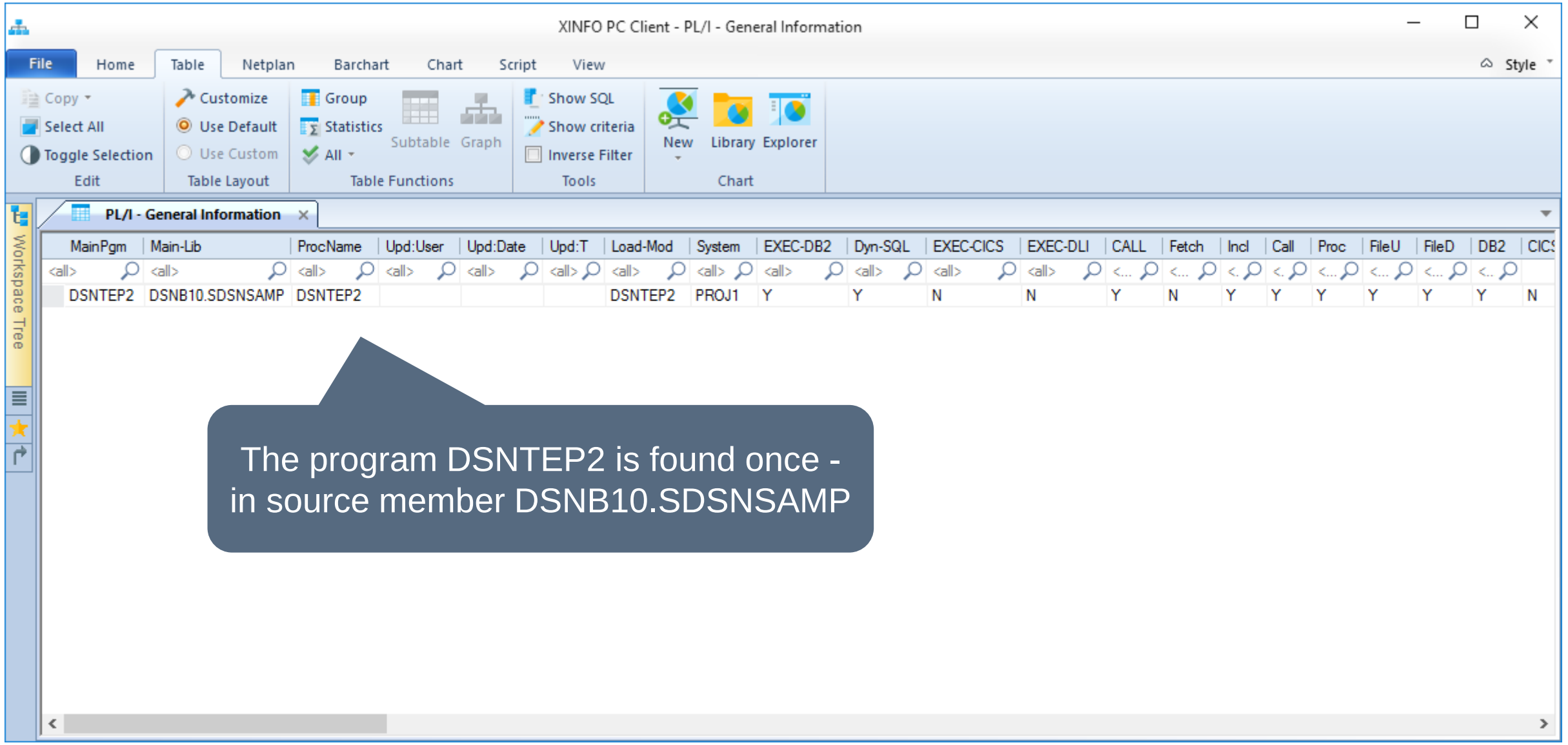
PC Client - Line Commands (at one page)



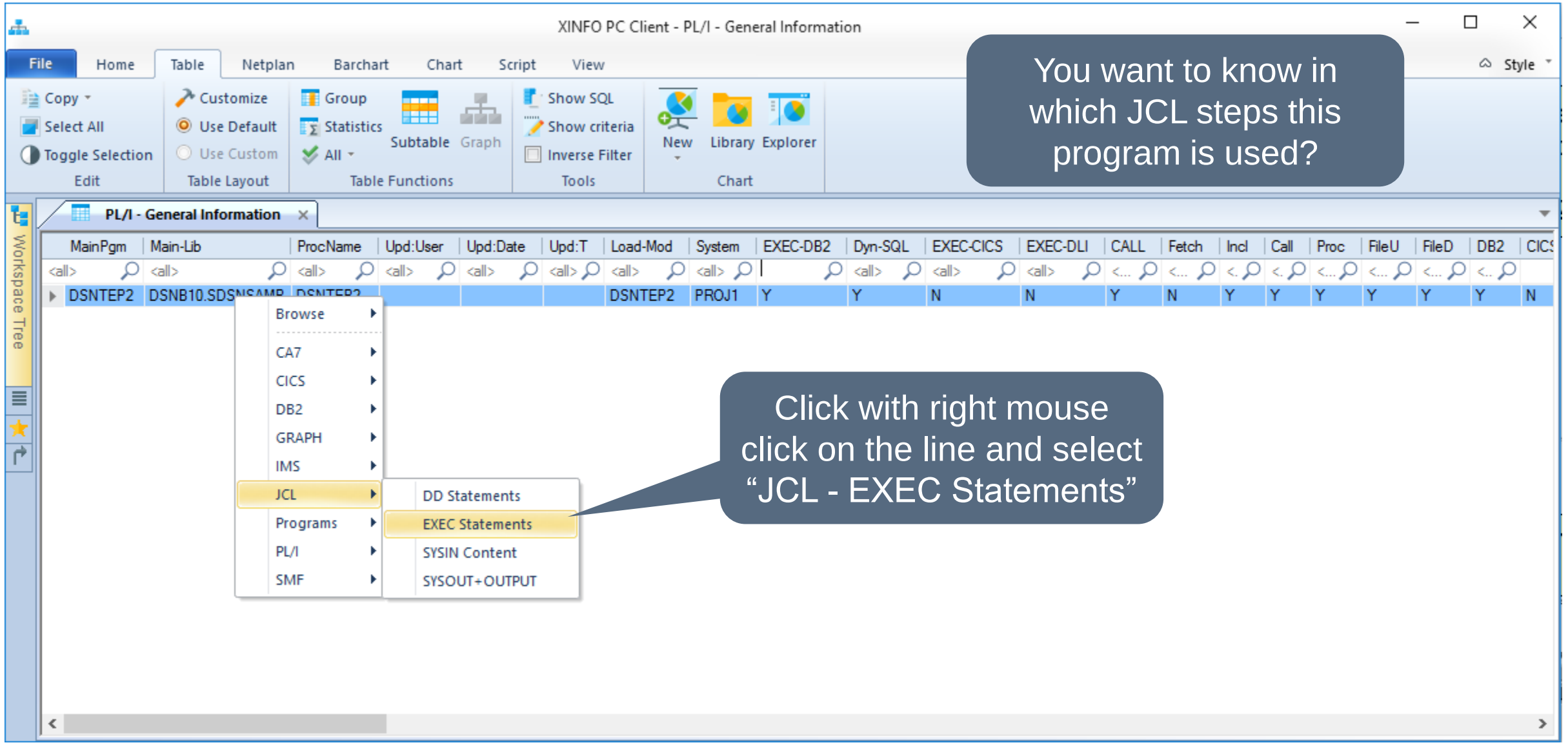
PC Client - Line Commands (2)



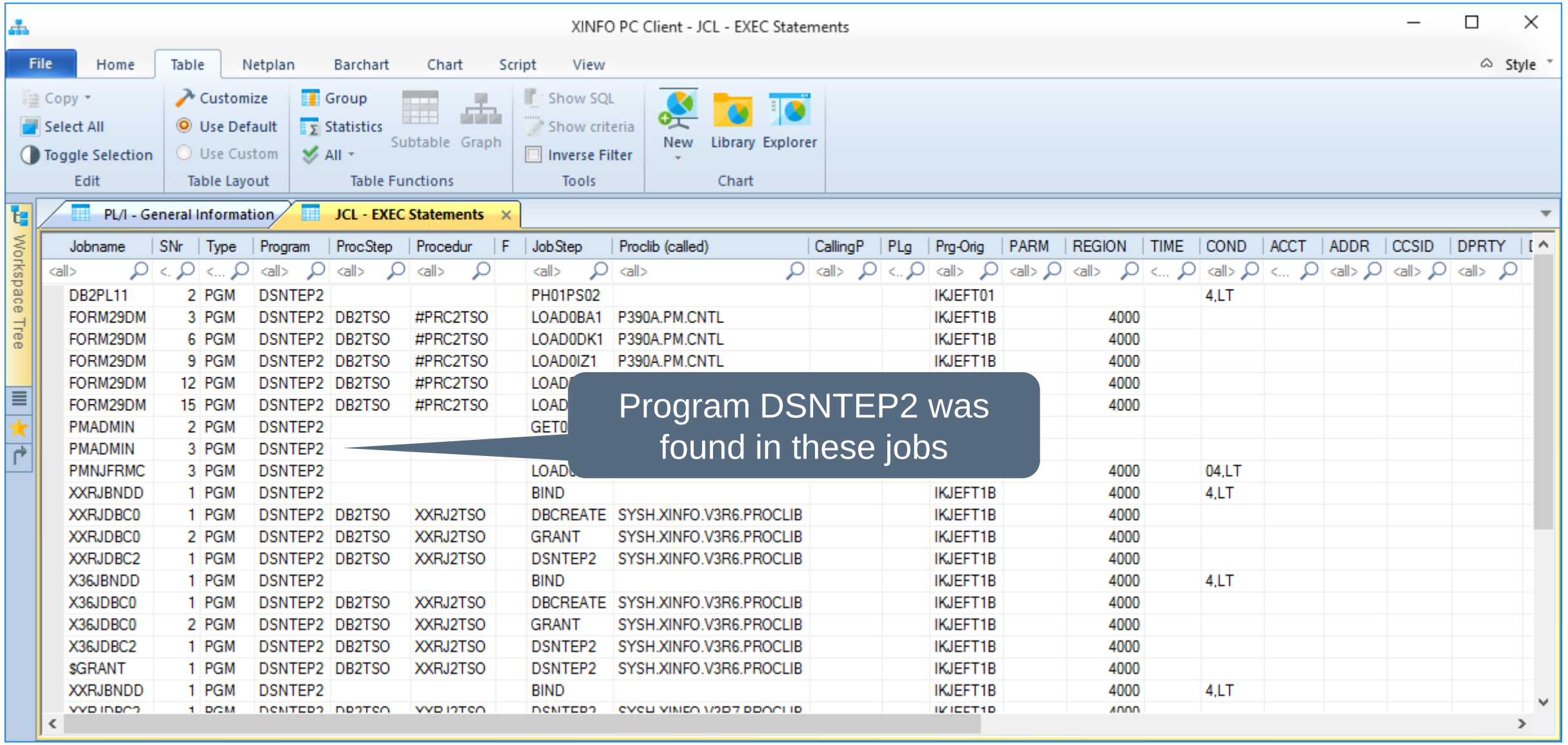
PC Client - Line Commands (3)



PC Client - Line Commands (4)



PC Client - Line Commands (5)



Jobname	SNr	Type	Program	ProcStep	Procedur	F	JobStep	Proclib (called)	CallingP	PLg	Prg-Orig	PARM	REGION	TIME	COND	ACCT	ADDR	CCSID	DPRTY
DB2PL11	2	PGM	DSNTEP2				PH01PS02				IKJEFT01				4,LT				
FORM29DM	3	PGM	DSNTEP2	DB2TSO	#PRC2TSO		LOAD0BA1	P390A.PM.CNTL			IKJEFT1B		4000						
FORM29DM	6	PGM	DSNTEP2	DB2TSO	#PRC2TSO		LOAD0DK1	P390A.PM.CNTL			IKJEFT1B		4000						
FORM29DM	9	PGM	DSNTEP2	DB2TSO	#PRC2TSO		LOAD0IZ1	P390A.PM.CNTL			IKJEFT1B		4000						
FORM29DM	12	PGM	DSNTEP2	DB2TSO	#PRC2TSO		LOAD						4000						
FORM29DM	15	PGM	DSNTEP2	DB2TSO	#PRC2TSO		LOAD						4000						
PMADMIN	2	PGM	DSNTEP2				GET0												
PMADMIN	3	PGM	DSNTEP2																
PMNJFRMC	3	PGM	DSNTEP2				LOAD						4000		04,LT				
XXRJBNDD	1	PGM	DSNTEP2				BIND				IKJEFT1B		4000		4,LT				
XXRJDBC0	1	PGM	DSNTEP2	DB2TSO	XXRJ2TSO		DBCREATE	SYSH.XINFO.V3R6.PROCLIB			IKJEFT1B		4000						
XXRJDBC0	2	PGM	DSNTEP2	DB2TSO	XXRJ2TSO		GRANT	SYSH.XINFO.V3R6.PROCLIB			IKJEFT1B		4000						
XXRJDBC2	1	PGM	DSNTEP2	DB2TSO	XXRJ2TSO		DSNTEP2	SYSH.XINFO.V3R6.PROCLIB			IKJEFT1B		4000						
X36JBNDD	1	PGM	DSNTEP2				BIND				IKJEFT1B		4000		4,LT				
X36JDBC0	1	PGM	DSNTEP2	DB2TSO	XXRJ2TSO		DBCREATE	SYSH.XINFO.V3R6.PROCLIB			IKJEFT1B		4000						
X36JDBC0	2	PGM	DSNTEP2	DB2TSO	XXRJ2TSO		GRANT	SYSH.XINFO.V3R6.PROCLIB			IKJEFT1B		4000						
X36JDBC2	1	PGM	DSNTEP2	DB2TSO	XXRJ2TSO		DSNTEP2	SYSH.XINFO.V3R6.PROCLIB			IKJEFT1B		4000						
$GRANT	1	PGM	DSNTEP2	DB2TSO	XXRJ2TSO		DSNTEP2	SYSH.XINFO.V3R6.PROCLIB			IKJEFT1B		4000						
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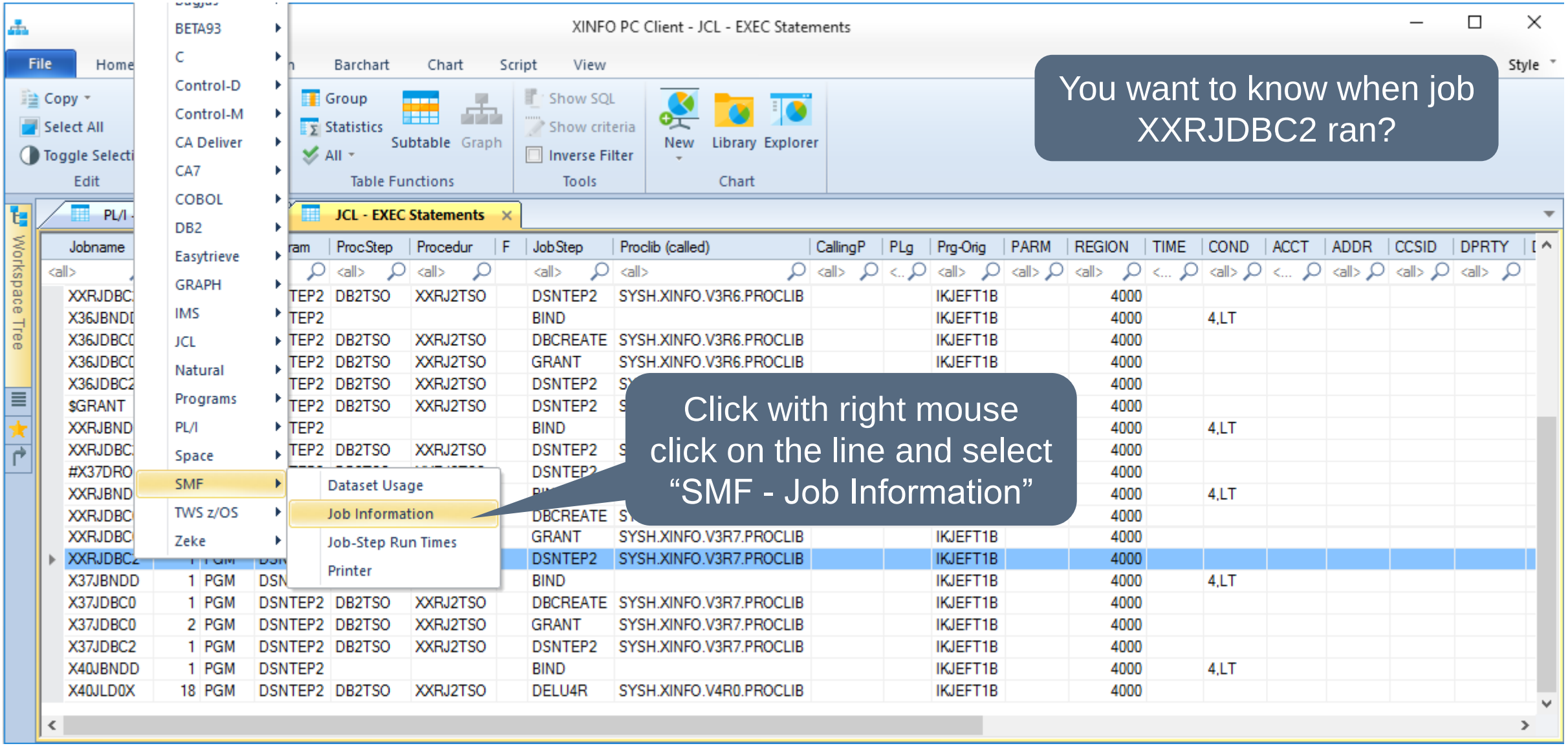
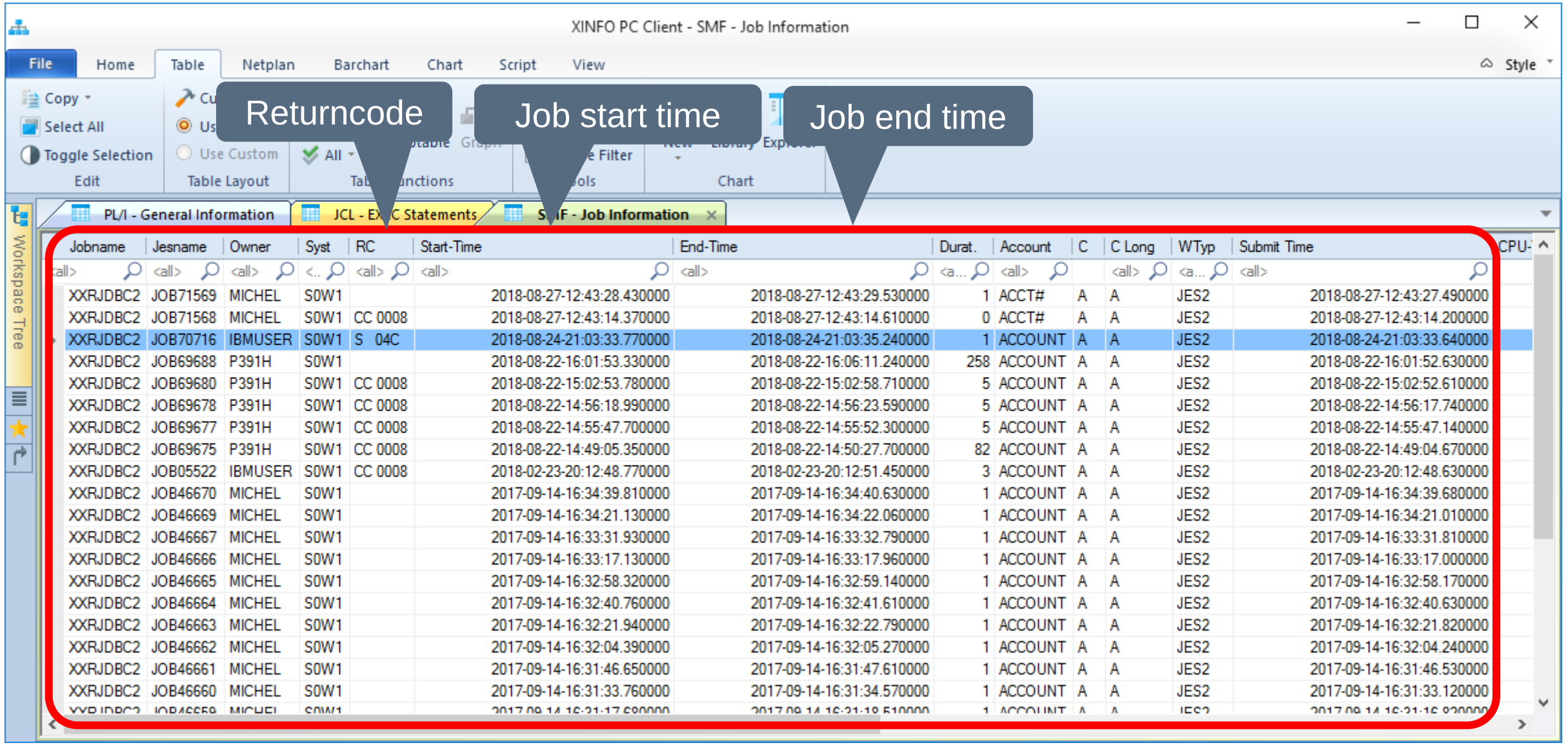
PC Client - Line Commands (6)



PC Client - Line Commands (7)



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XXRJDBC2	JOB71568	MICHEL	S0W1	CC 0008	2018-08-27-12:43:14.370000	2018-08-27-12:43:14.610000	0	ACCT#	A	A	JES2	2018-08-27-12:43:14.200000
XXRJDBC2	JOB70716	IBMUSER	S0W1	S 04C	2018-08-24-21:03:33.770000	2018-08-24-21:03:35.240000	1	ACCOUNT	A	A	JES2	2018-08-24-21:03:33.640000
XXRJDBC2	JOB69688	P391H	S0W1		2018-08-22-16:01:53.330000	2018-08-22-16:06:11.240000	258	ACCOUNT	A	A	JES2	2018-08-22-16:01:52.630000
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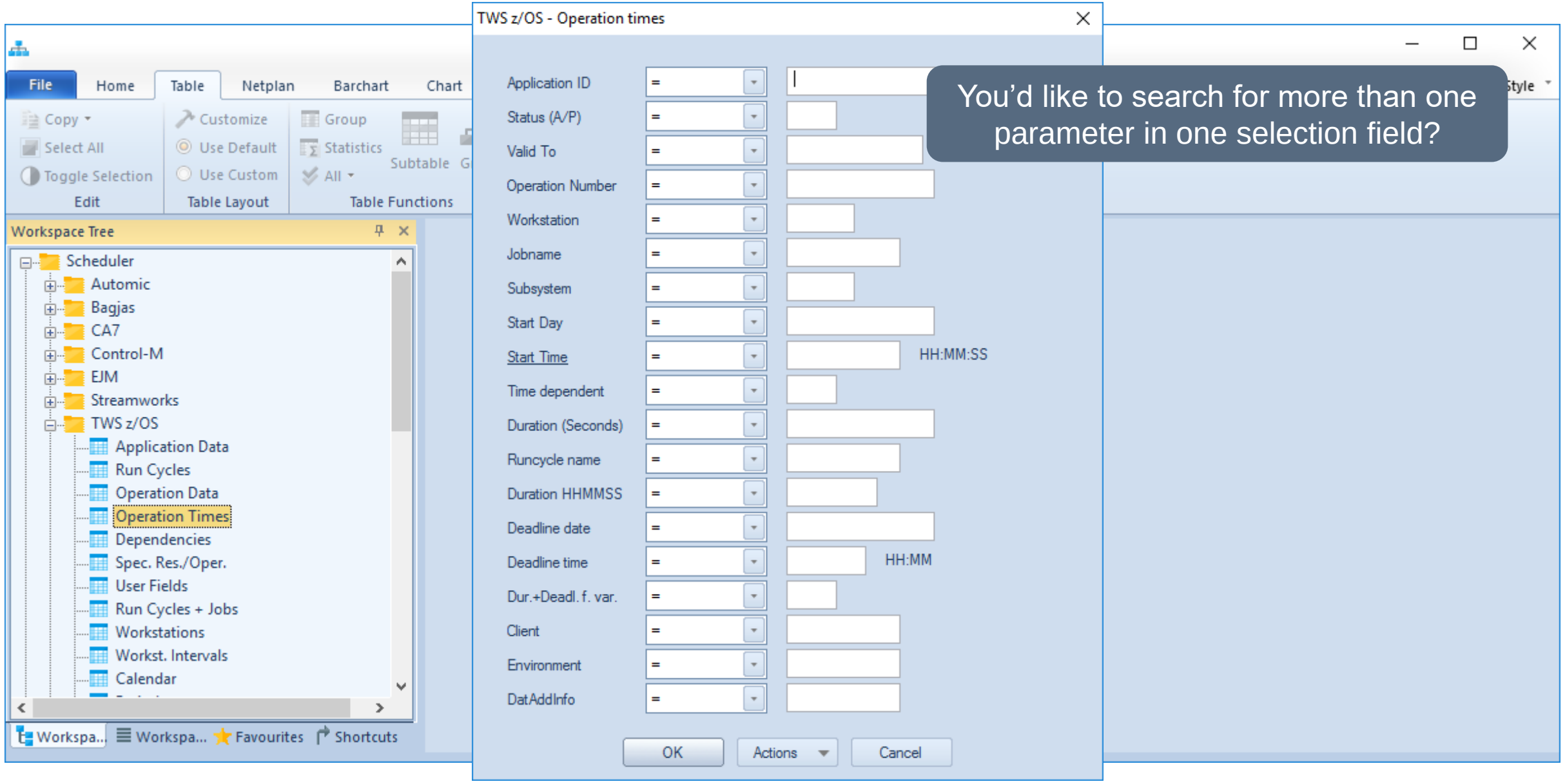
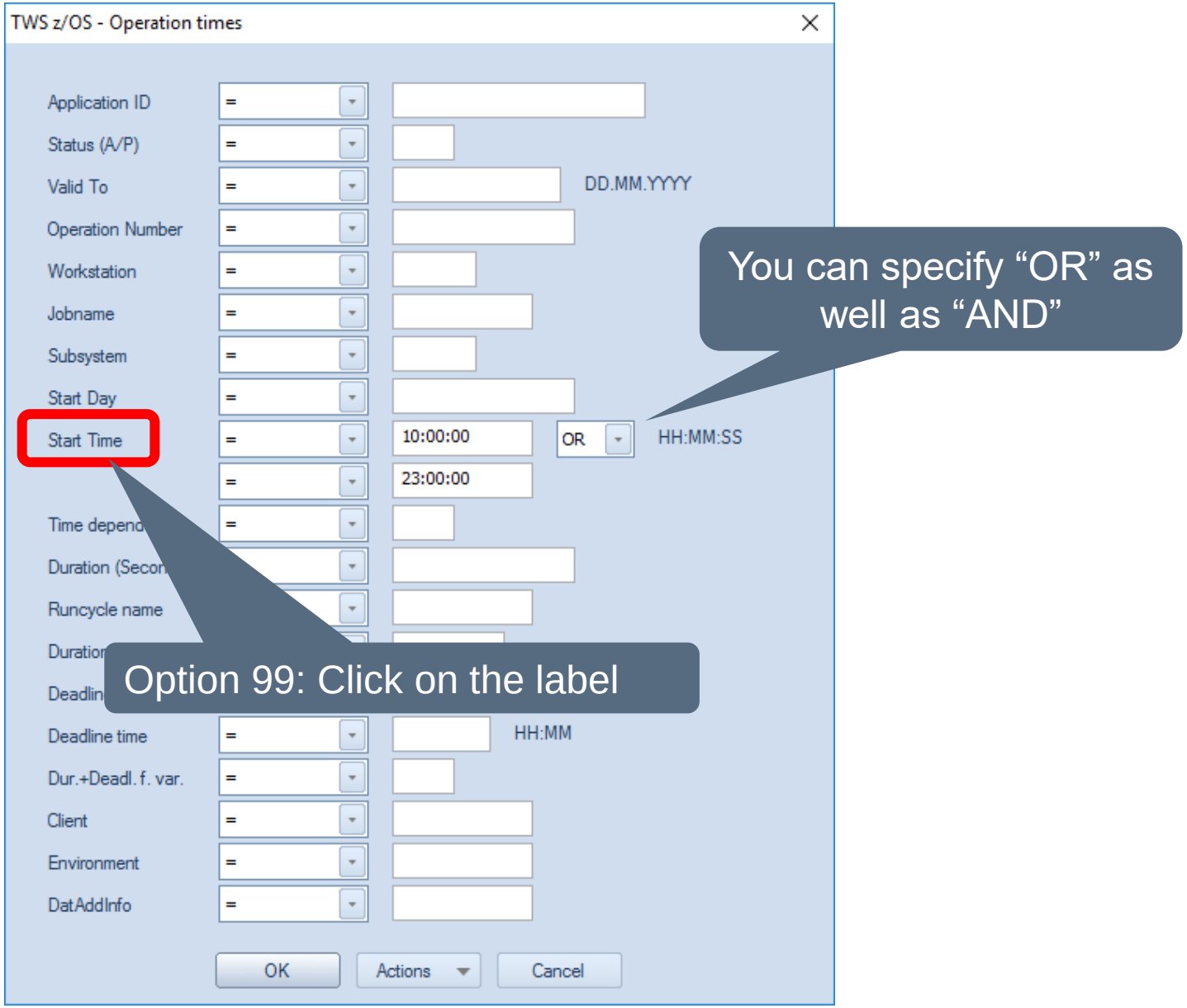
XXRJDBC2	JOB69678	P391H	S0W1	CC 0008	2018-08-22-14:56:18.990000	2018-08-22-14:56:23.590000	5	ACCOUNT	A	A	JES2	2018-08-22-14:56:17.740000
XXRJDBC2	JOB69677	P391H	S0W1	CC 0008	2018-08-22-14:55:47.700000	2018-08-22-14:55:52.300000	5	ACCOUNT	A	A	JES2	2018-08-22-14:55:47.140000
XXRJDBC2	JOB69675	P391H	S0W1	CC 0008	2018-08-22-14:49:05.350000	2018-08-22-14:50:27.700000	82	ACCOUNT	A	A	JES2	2018-08-22-14:49:04.670000
XXRJDBC2	JOB05522	IBMUSER	S0W1	CC 0008	2018-02-23-20:12:48.770000	2018-02-23-20:12:51.450000	3	ACCOUNT	A	A	JES2	2018-02-23-20:12:48.630000
XXRJDBC2	JOB46670	MICHEL	S0W1		2017-09-14-16:34:39.810000	2017-09-14-16:34:40.630000	1	ACCOUNT	A	A	JES2	2017-09-14-16:34:39.680000
XXRJDBC2	JOB46669	MICHEL	S0W1		2017-09-14-16:34:21.130000	2017-09-14-16:34:22.060000	1	ACCOUNT	A	A	JES2	2017-09-14-16:34:21.010000
XXRJDBC2	JOB46667	MICHEL	S0W1		2017-09-14-16:33:31.930000	2017-09-14-16:33:32.790000	1	ACCOUNT	A	A	JES2	2017-09-14-16:33:31.810000
XXRJDBC2	JOB46666	MICHEL	S0W1		2017-09-14-16:33:17.130000	2017-09-14-16:33:17.960000	1	ACCOUNT	A	A	JES2	2017-09-14-16:33:17.000000
XXRJDBC2	JOB46665	MICHEL	S0W1		2017-09-14-16:32:58.320000	2017-09-14-16:32:59.140000	1	ACCOUNT	A	A	JES2	2017-09-14-16:32:58.170000
XXRJDBC2	JOB46664	MICHEL	S0W1		2017-09-14-16:32:40.760000	2017-09-14-16:32:41.610000	1	ACCOUNT	A	A	JES2	2017-09-14-16:32:40.630000
XXRJDBC2	JOB46663	MICHEL	S0W1		2017-09-14-16:32:21.940000	2017-09-14-16:32:22.790000	1	ACCOUNT	A	A	JES2	2017-09-14-16:32:21.820000
XXRJDBC2	JOB46662	MICHEL	S0W1		2017-09-14-16:32:04.390000	2017-09-14-16:32:05.270000	1	ACCOUNT	A	A	JES2	2017-09-14-16:32:04.240000
XXRJDBC2	JOB46661	MICHEL	S0W1		2017-09-14-16:31:46.650000	2017-09-14-16:31:47.610000	1	ACCOUNT	A	A	JES2	2017-09-14-16:31:46.530000
XXRJDBC2	JOB46660	MICHEL	S0W1		2017-09-14-16:31:33.760000	2017-09-14-16:31:34.570000	1	ACCOUNT	A	A	JES2	2017-09-14-16:31:33.120000

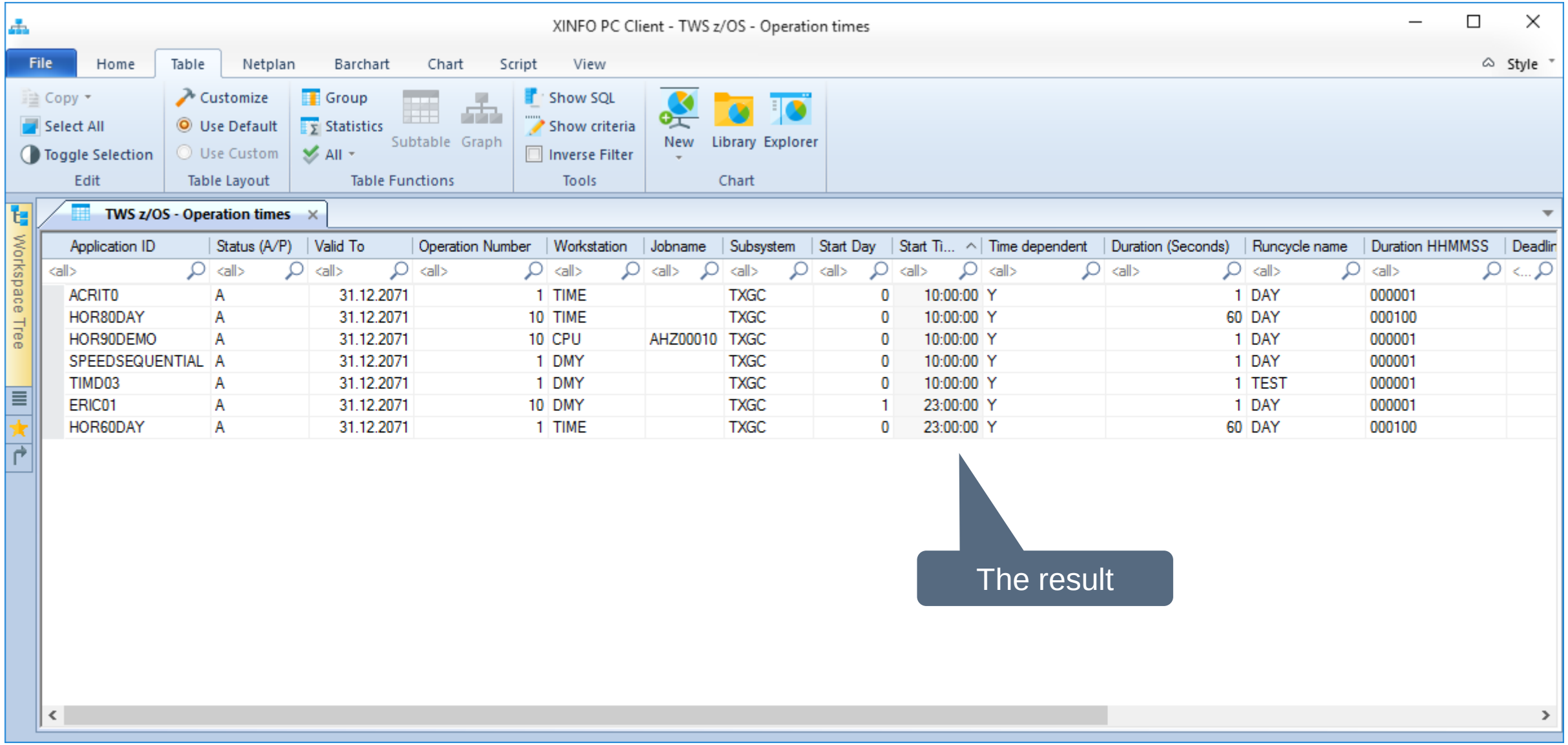
PC Client - Search - Option 99



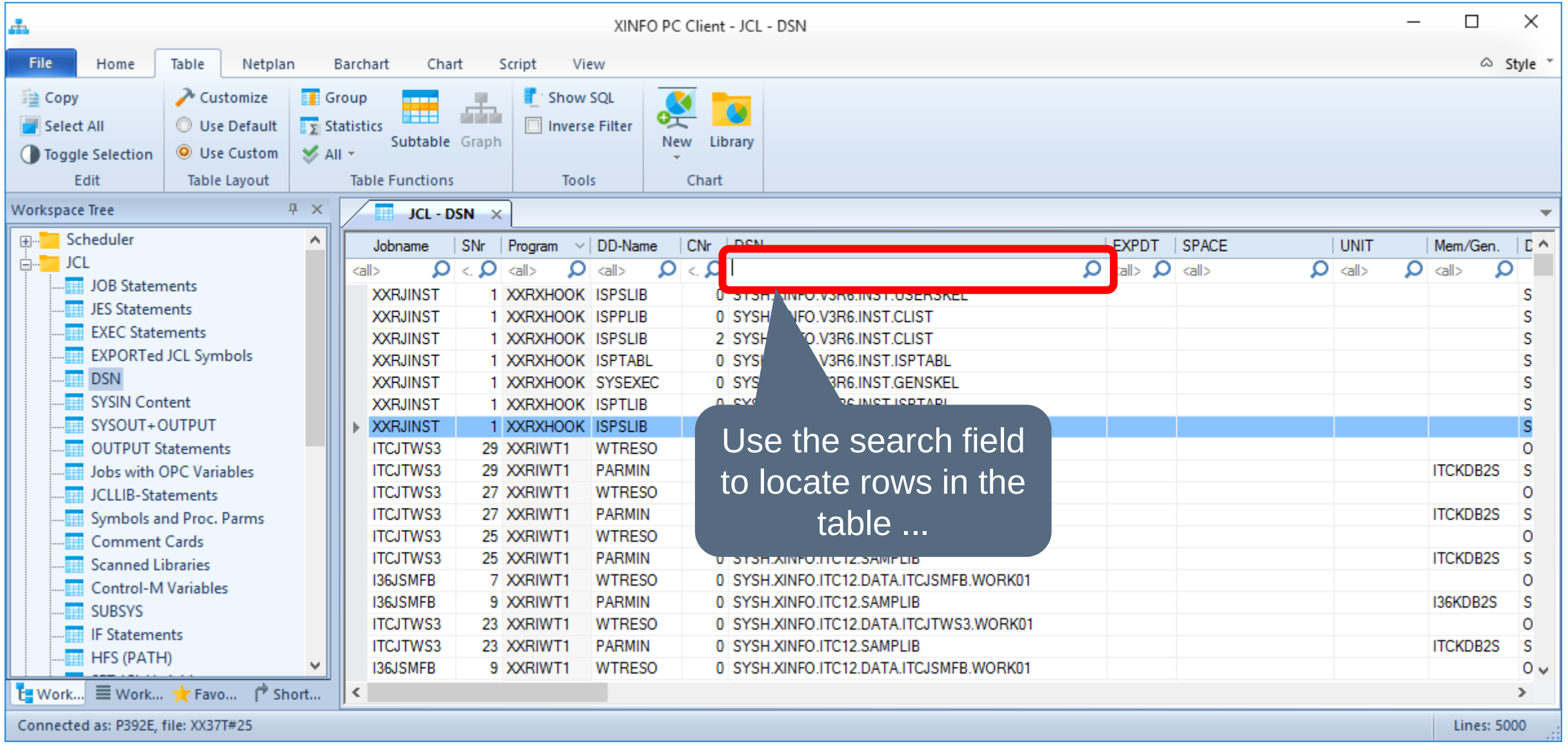
PC Client - Search - Option 99



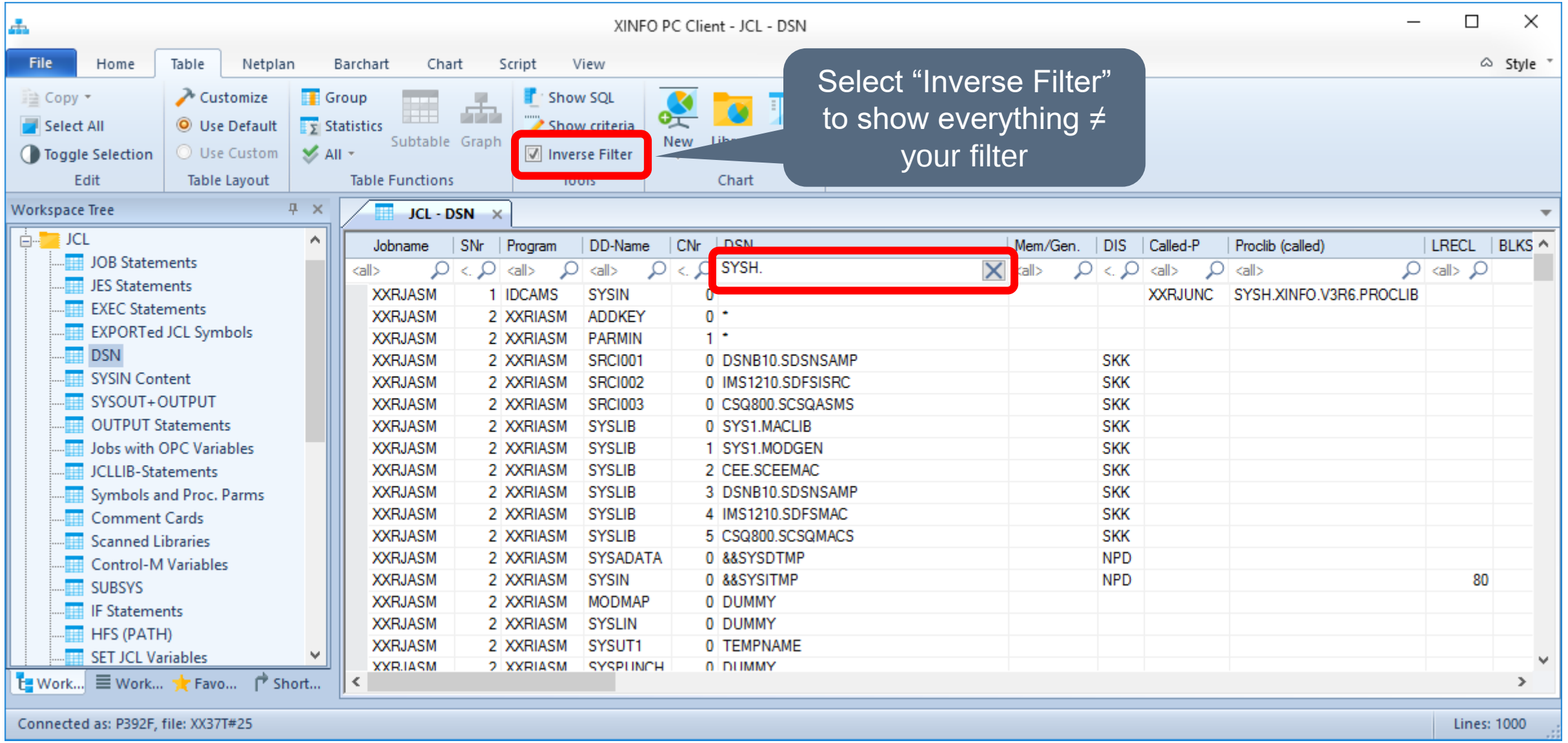
PC Client - Search - Option 99



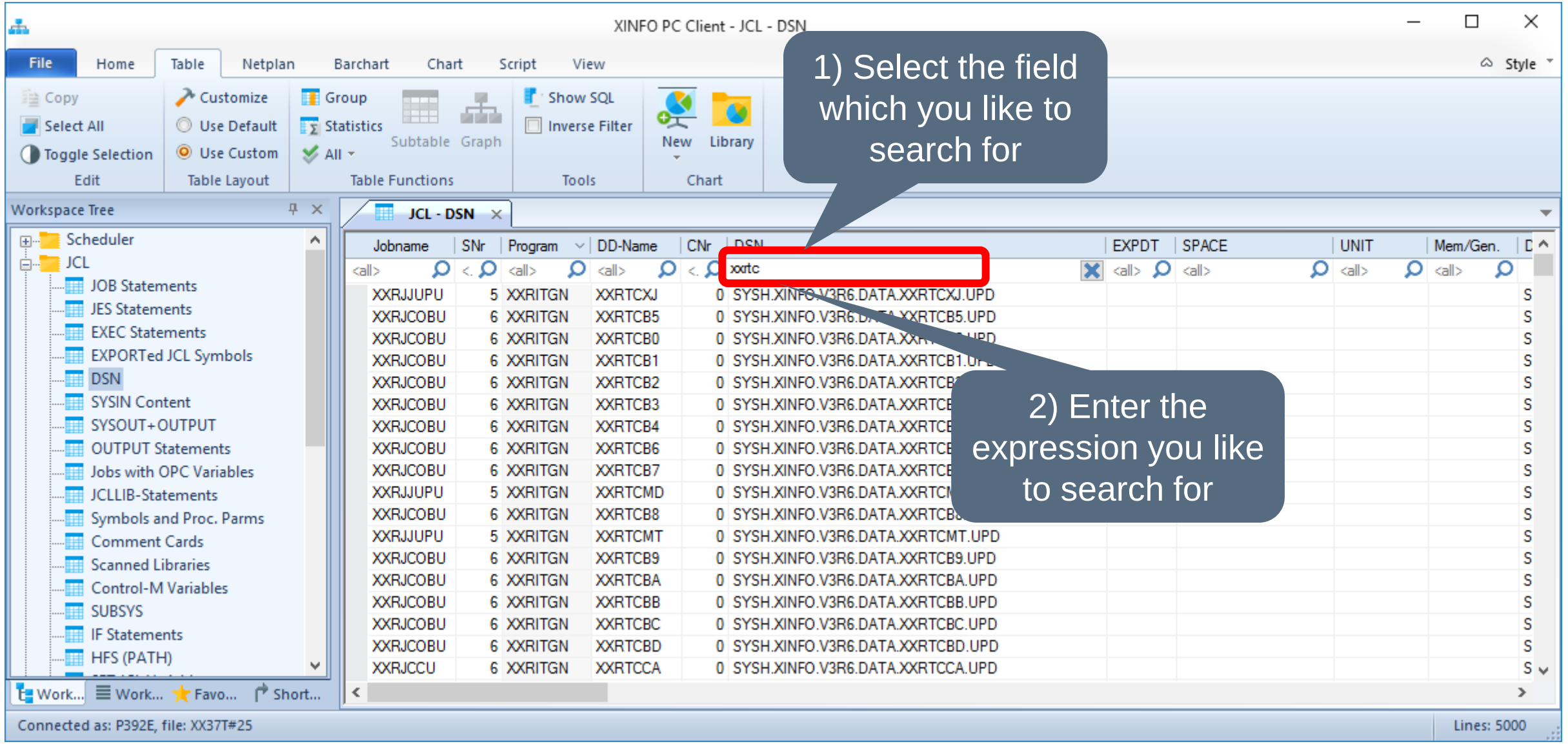
PC Client - Search



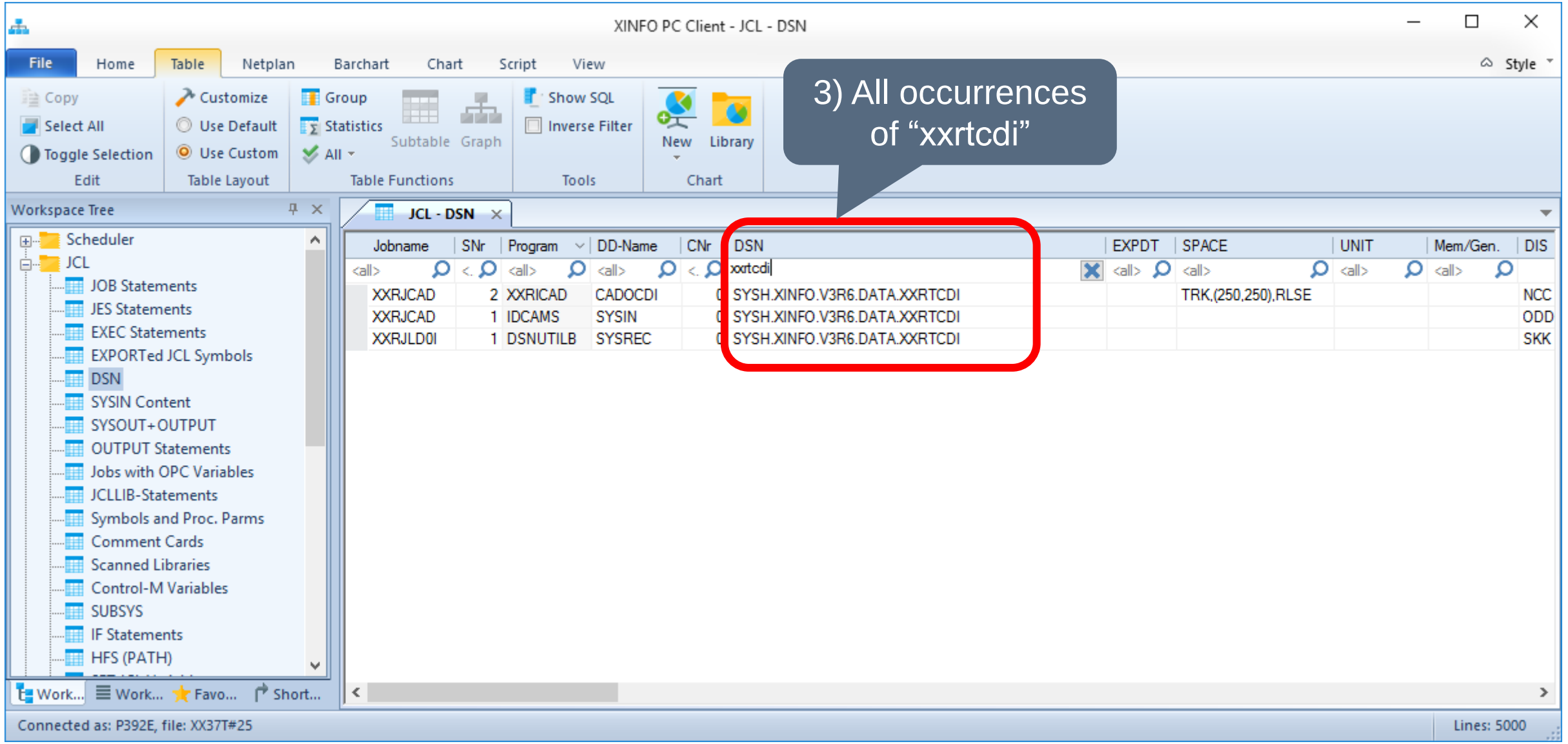
PC Client - Search



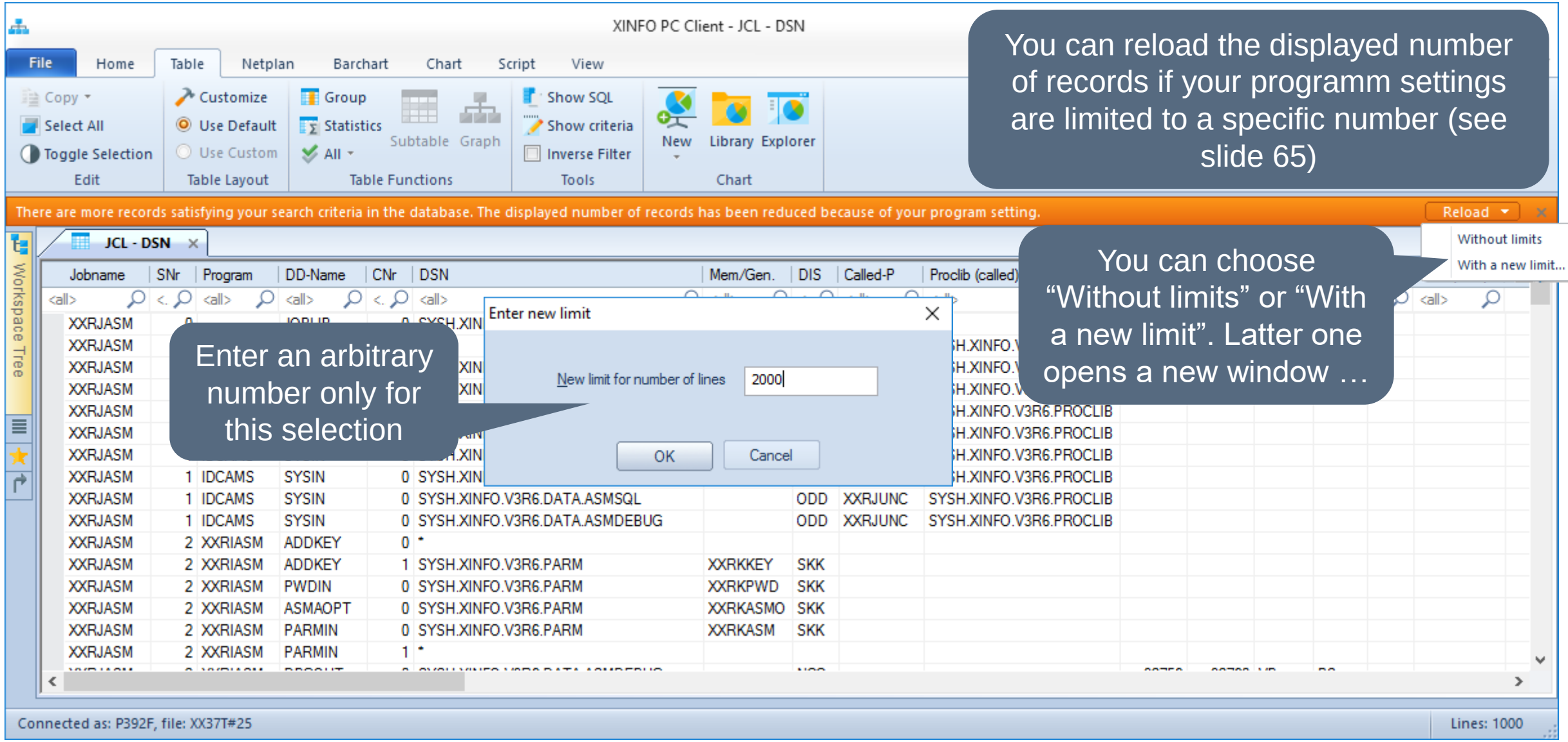
PC Client - Search



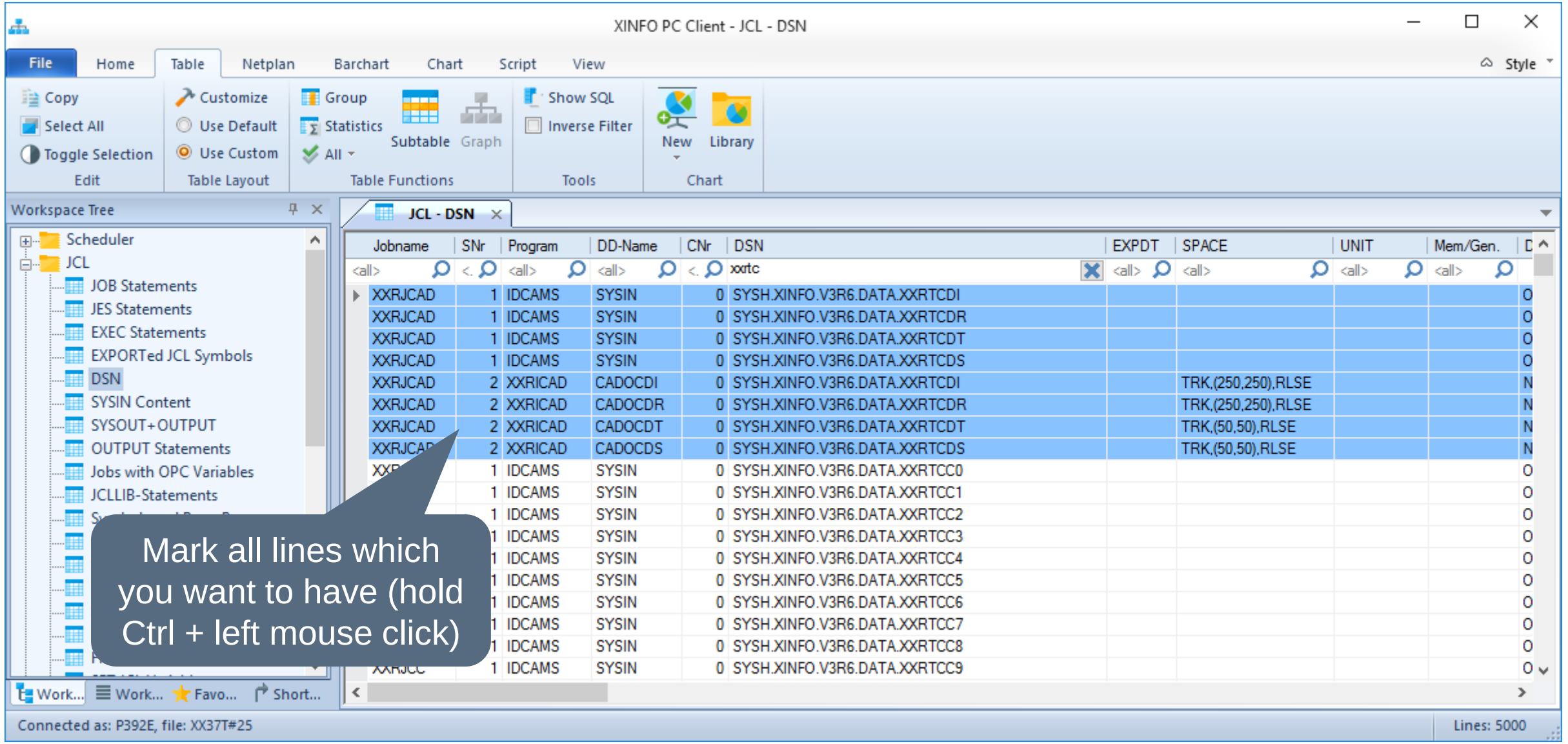
PC Client - Search



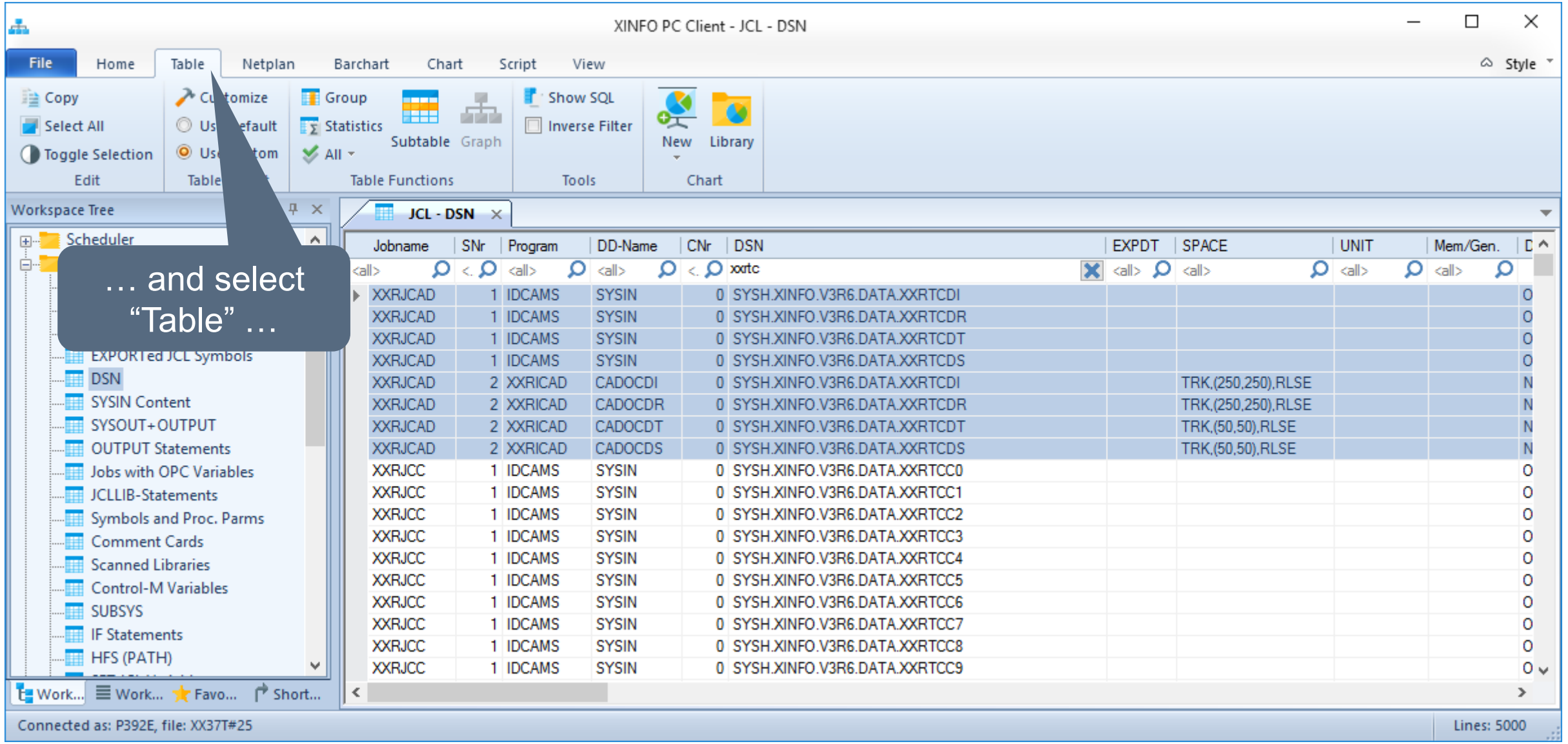
PC Client - Search



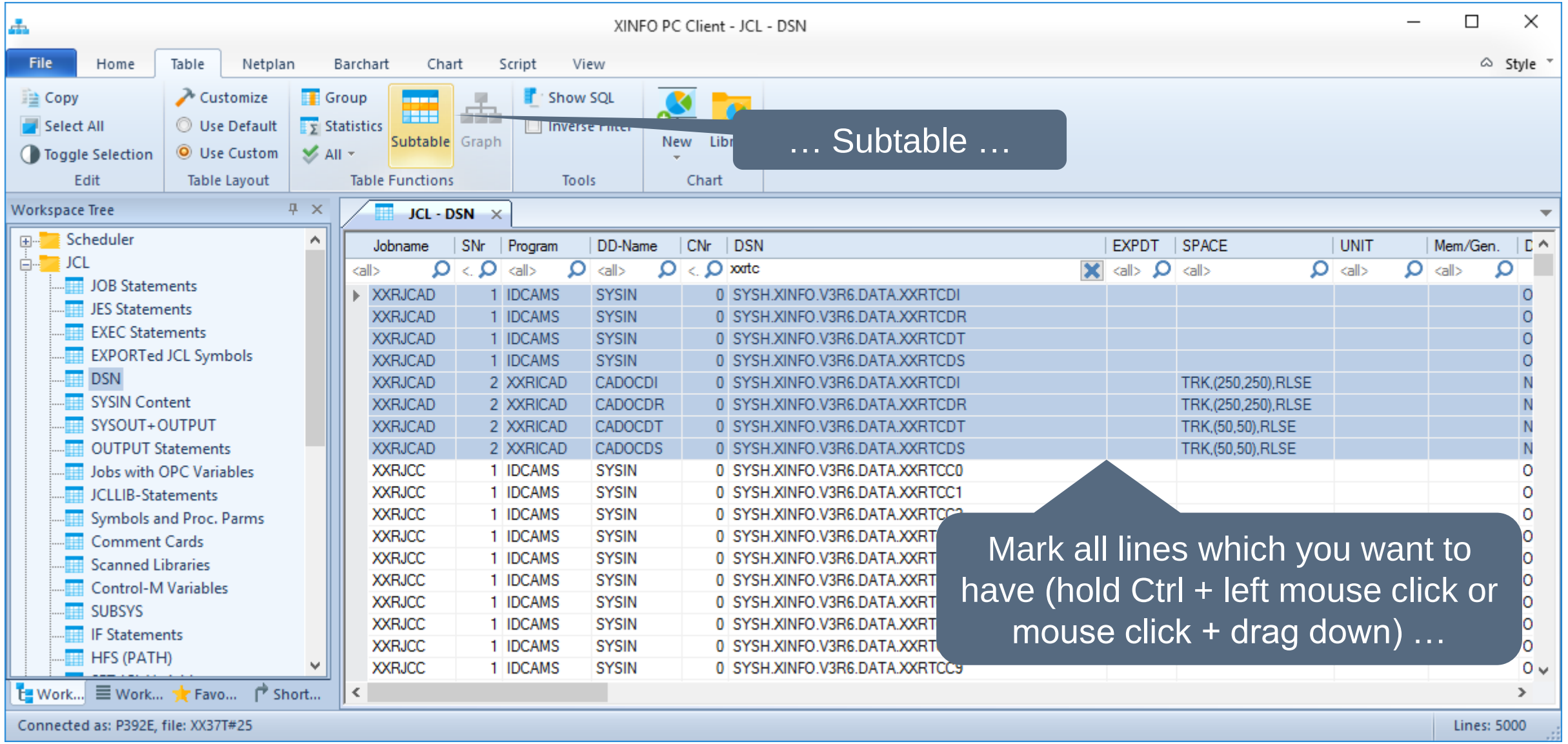
PC Client - Search



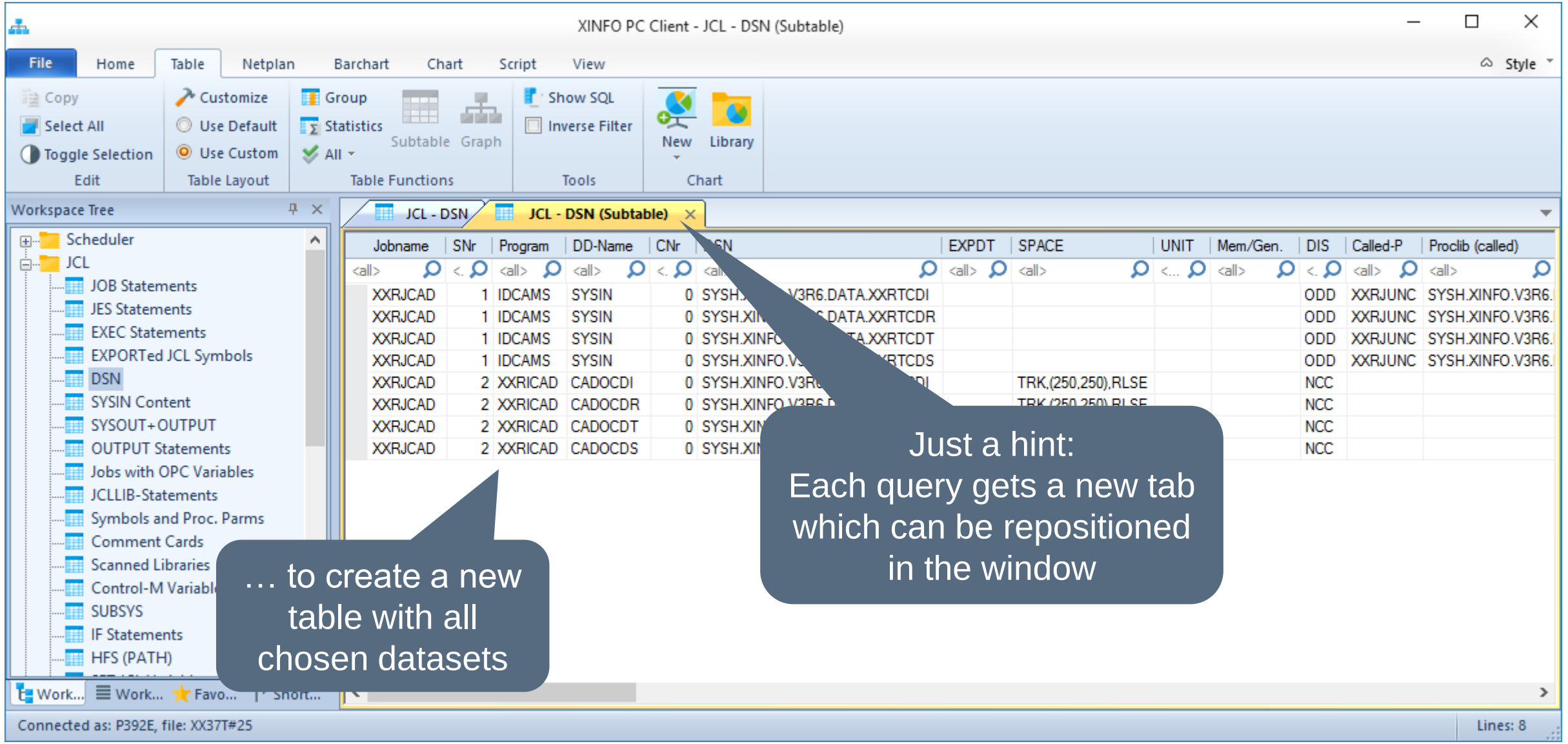
PC Client - Search



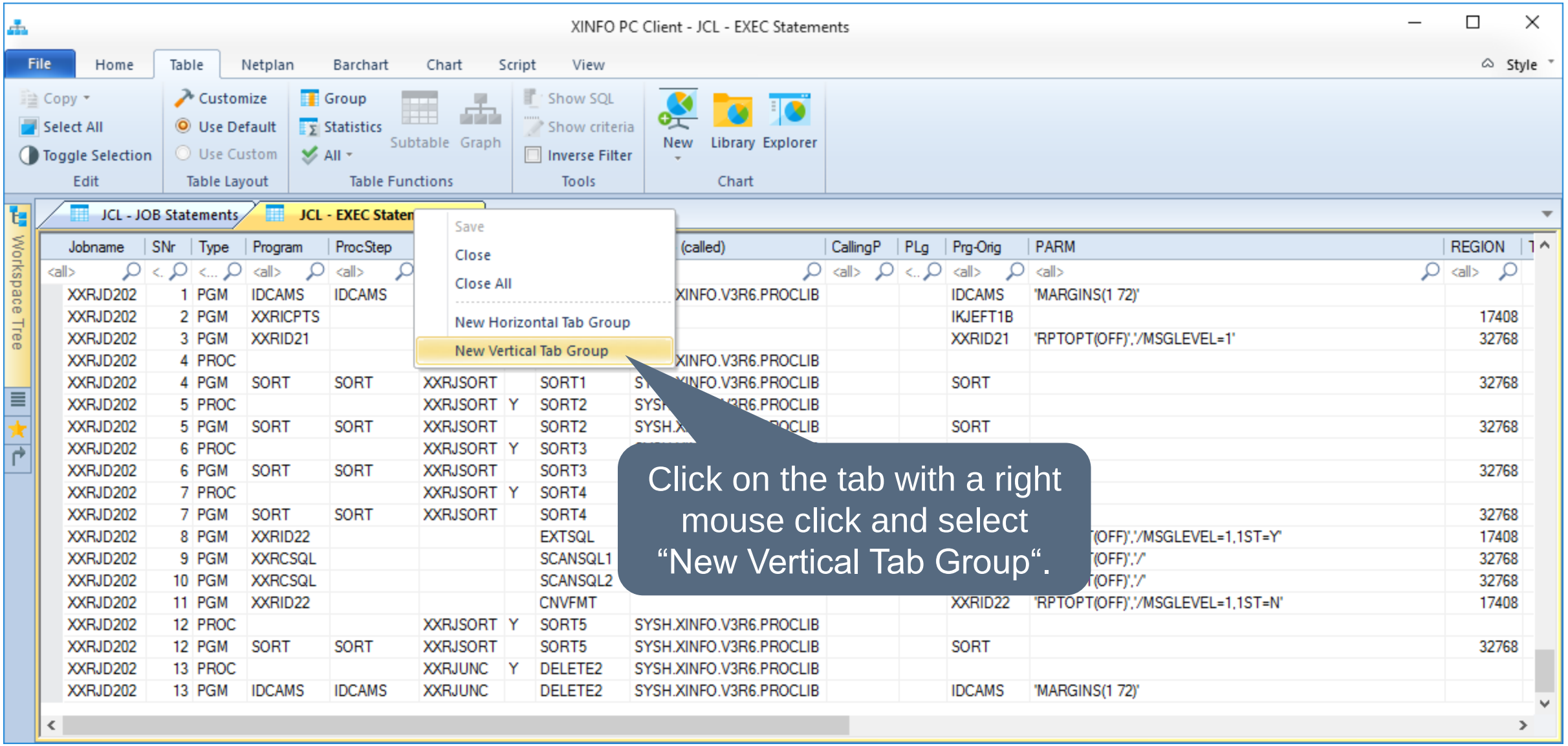
PC Client - Search



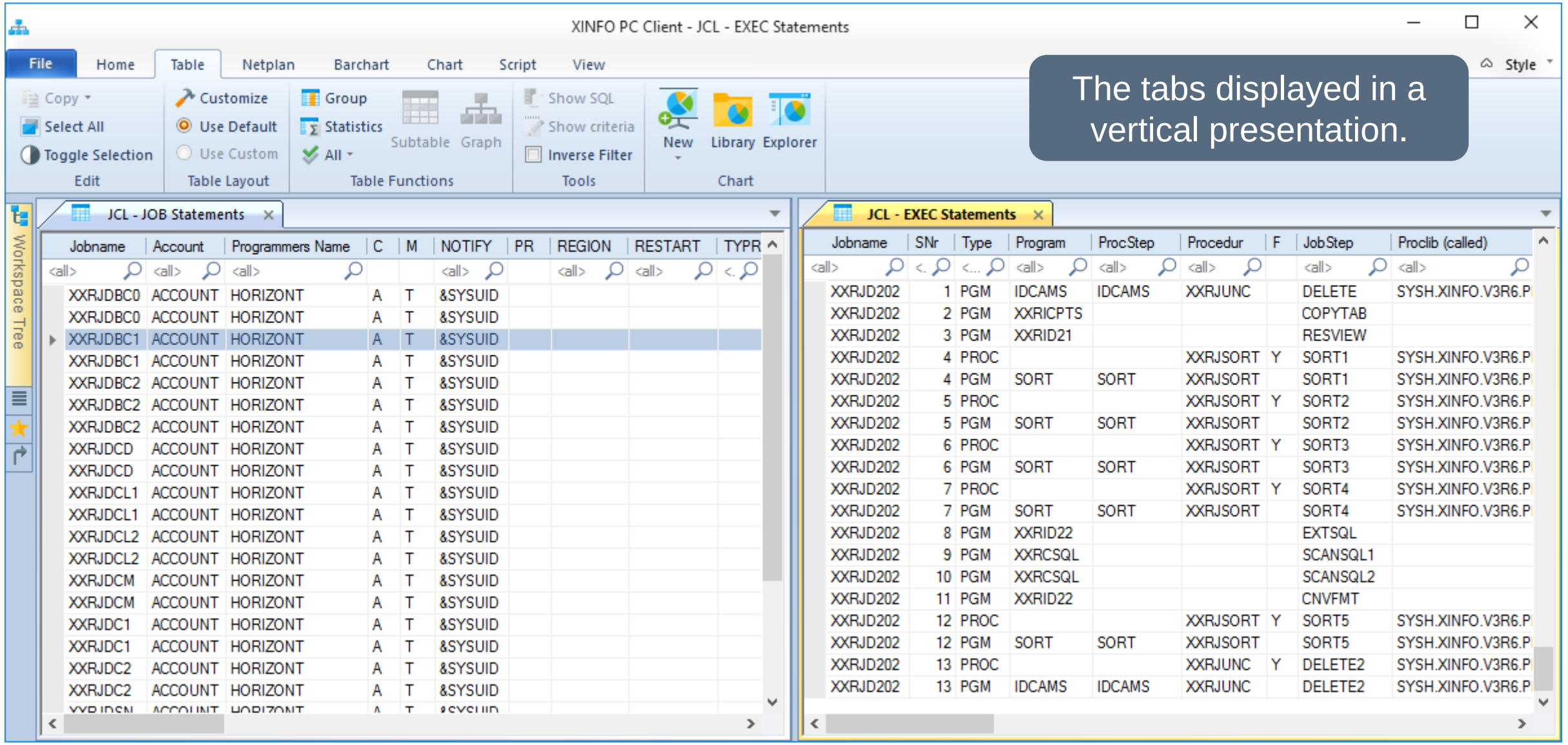
PC Client - Search



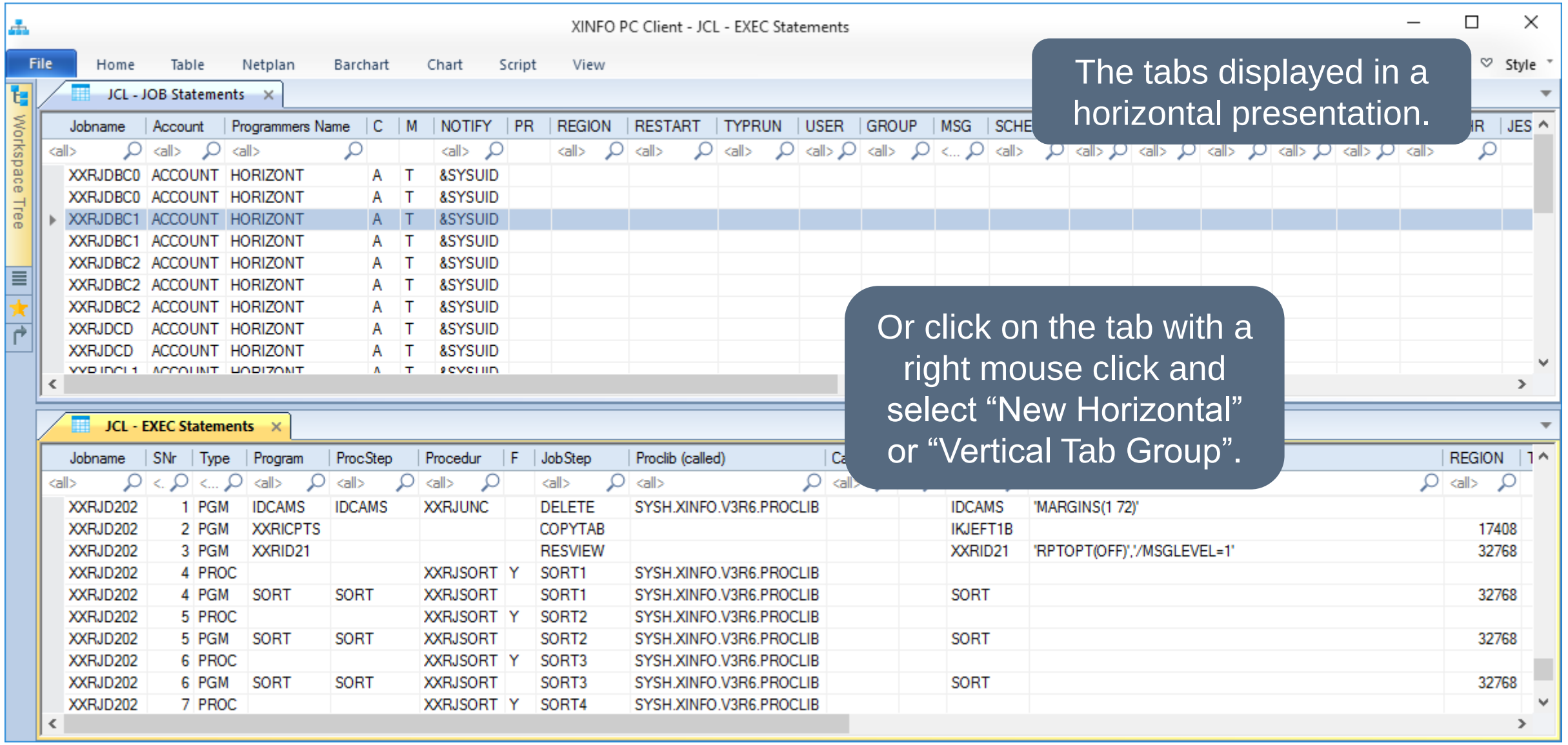
PC Client - New Tab



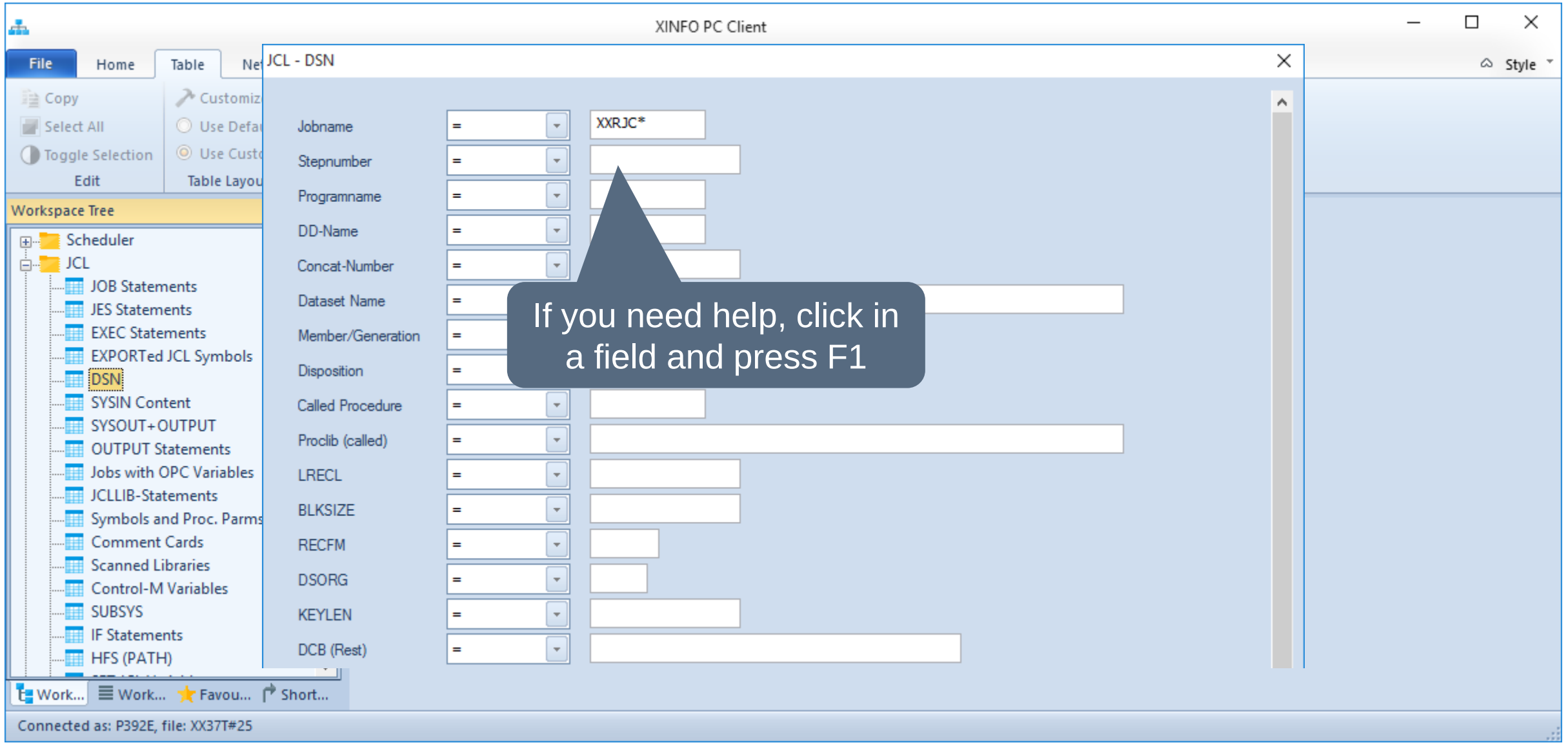
PC Client - New Tab



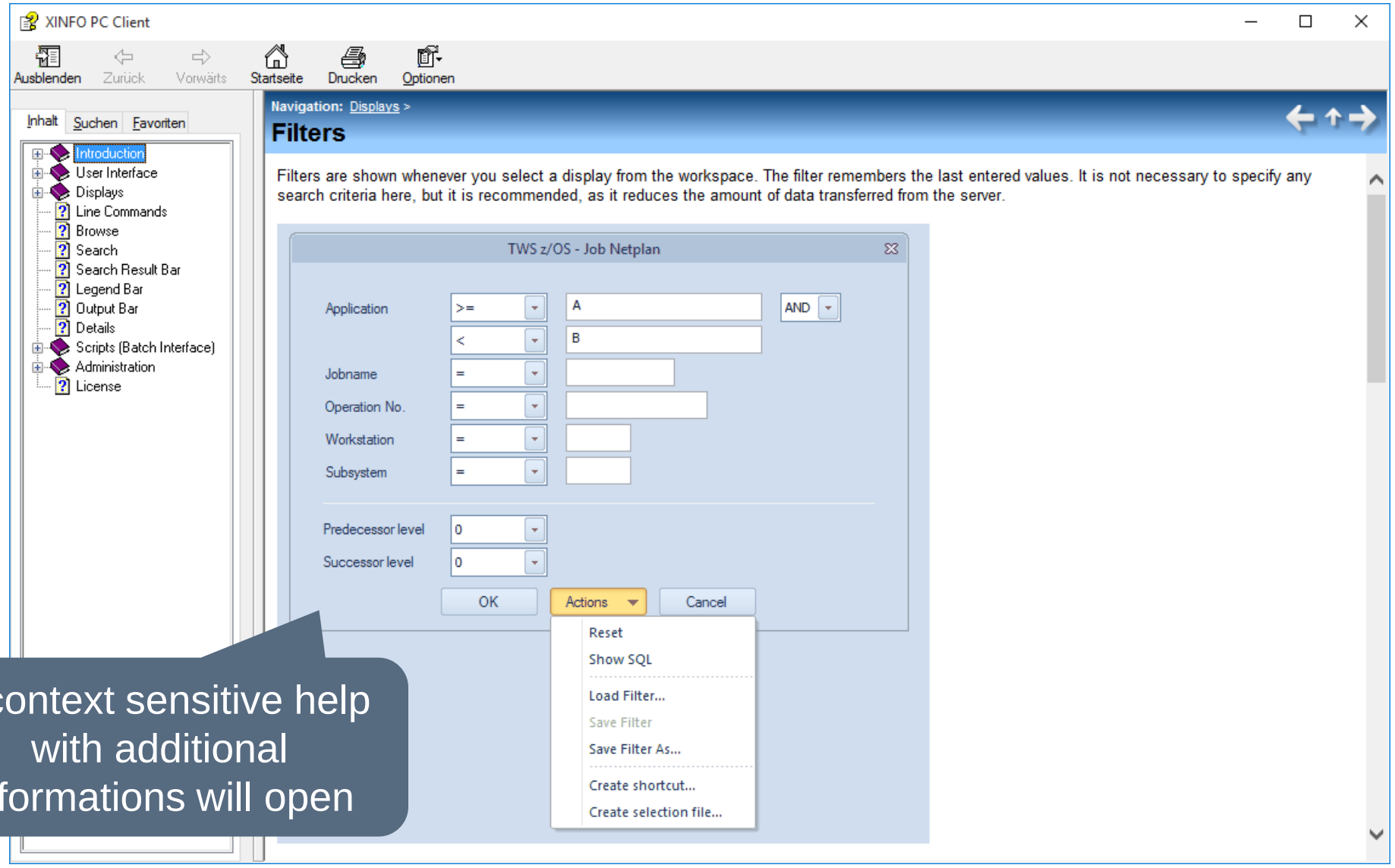
PC Client - New Tab



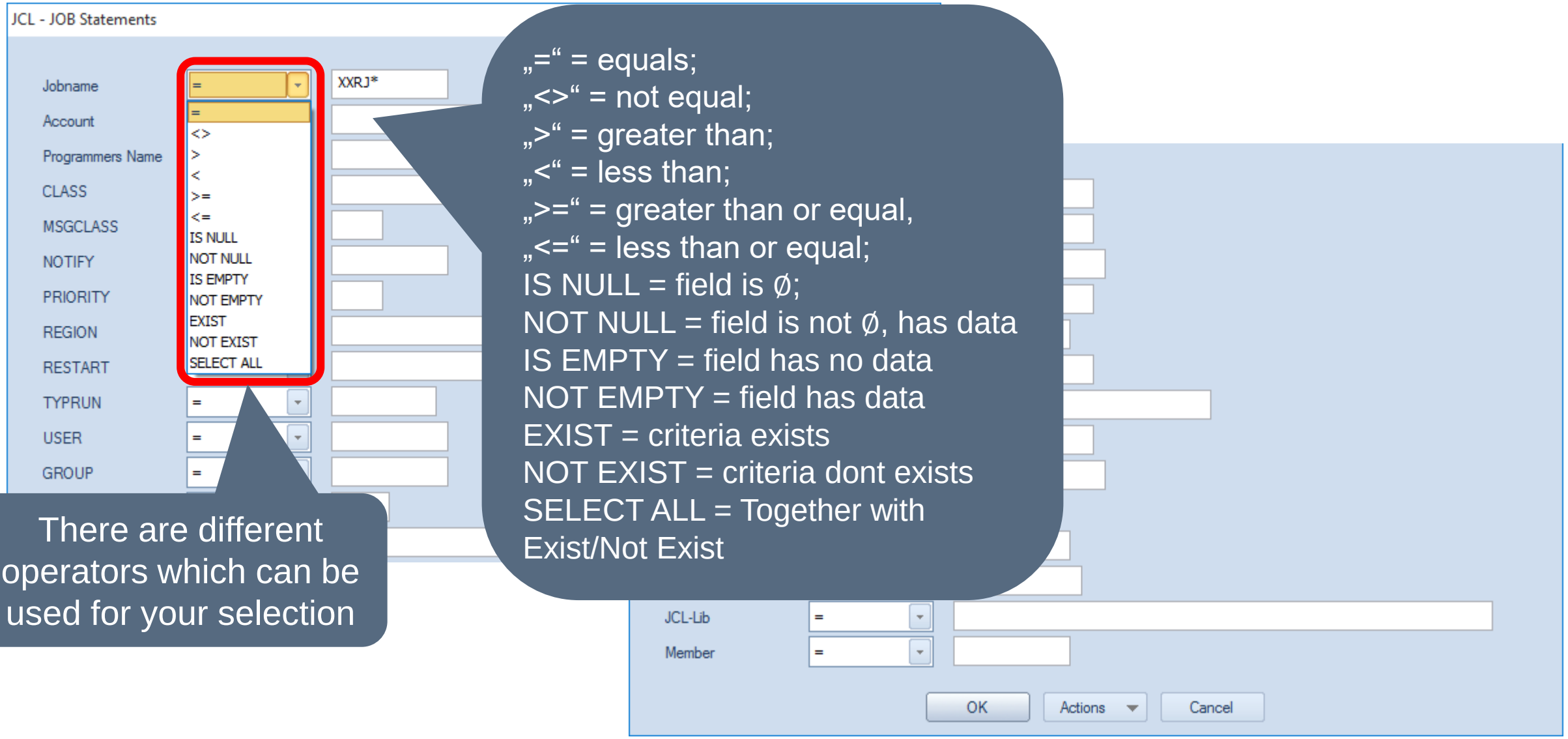
PC Client - Context Help



PC Client - Context Help



PC Client - Comparison operators



There are different operators which can be used for your selection

„=“ = equals;
„<>“ = not equal;
„>“ = greater than;
„<“ = less than;
„>=“ = greater than or equal,
„<=“ = less than or equal;
IS NULL = field is ∅;
NOT NULL = field is not ∅, has data
IS EMPTY = field has no data
NOT EMPTY = field has data
EXIST = criteria exists
NOT EXIST = criteria dont exists
SELECT ALL = Together with Exist/Not Exist

Comparison Operators (2)

Is Null:
All data records are displayed for which the selected data field is empty, that is, contains NULL. The display shows a minus sign.

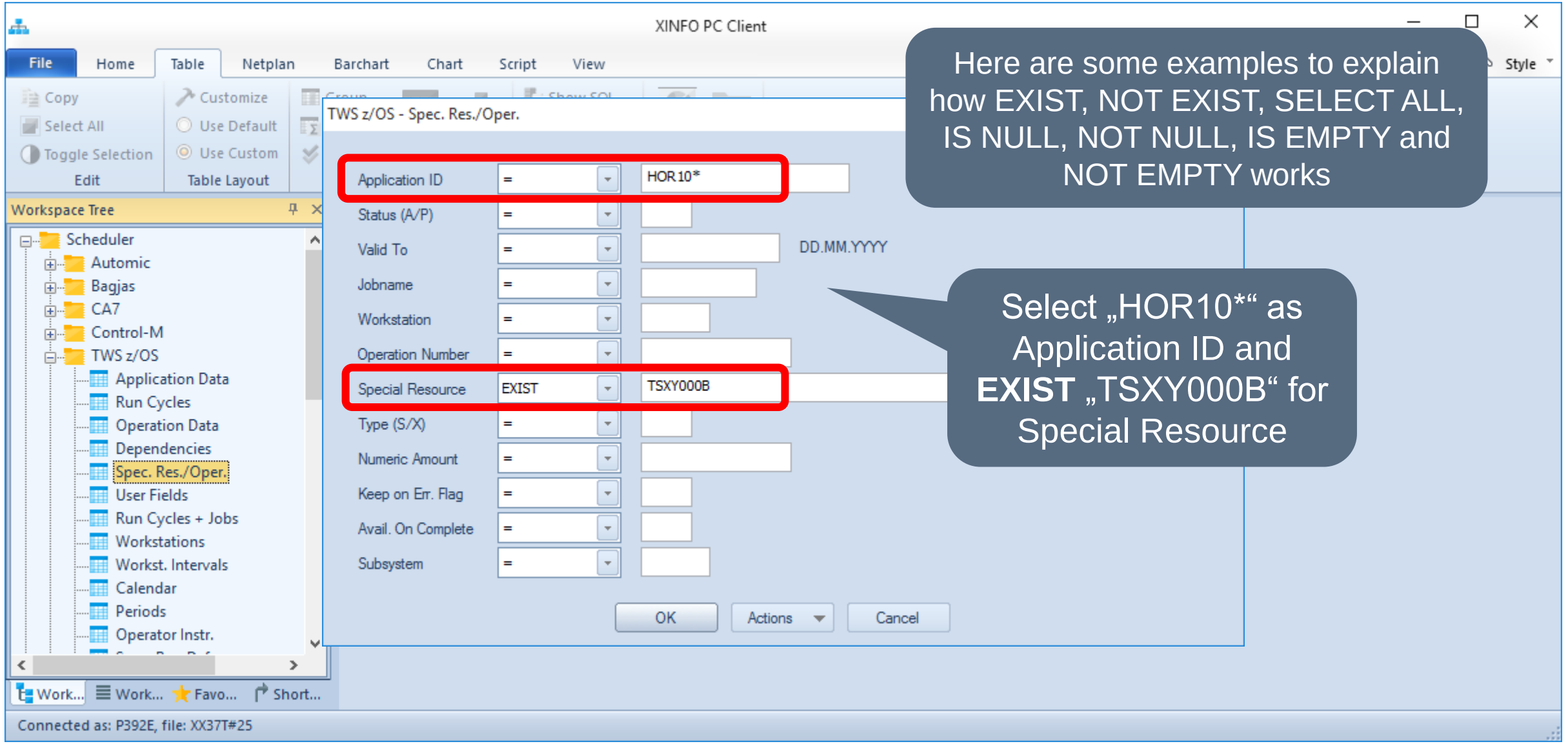
Not Null:
All data records are displayed for which the selected data field is not empty.

Exists:
The operator enables queries like „show me all files of the job(s) that contain the file ABC“. This means that not only the lines in which the file ABC appears are displayed, but also all the other files of the relevant job. This operator is especially useful in combination with the 99 operator, since only with this the following query can be made: "Give me all jobs that use the file ABC **and** the file XYZ".

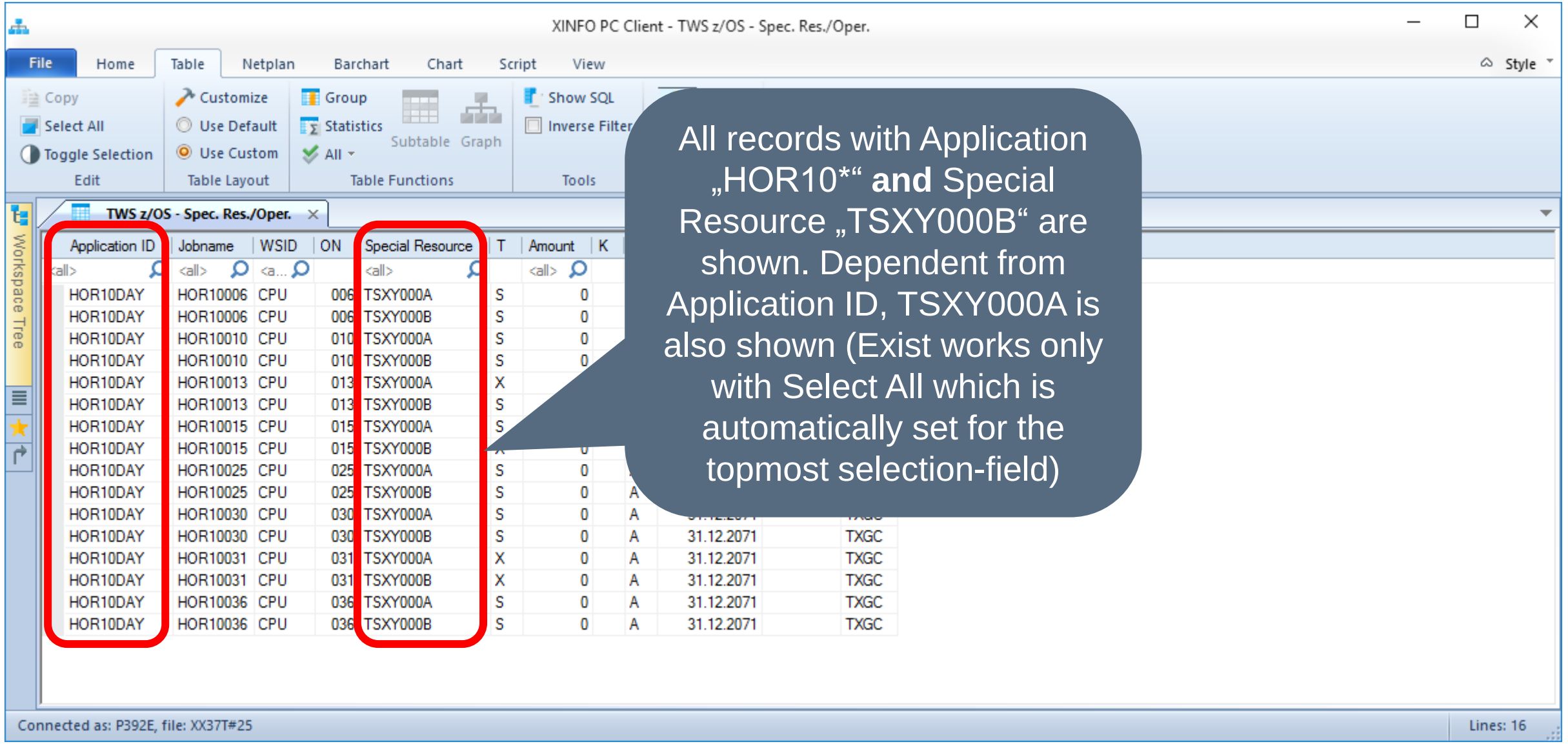
Not Exists:
The operator enables queries like „show me all files of the job(s) in which the file ABC does **not** occur“. This operator is like the Exist operator especially useful in combination with the 99 operator, since only with this the following query can be made: "Give me all jobs in which **neither** the file ABC **nor** the file XYZ is used".

Select All:
The operator is used to specify the reference field for the EX and NX operators. If these operators refer to the top field of the input panel, the SA operator can be omitted.

PC Client - EXIST (1)

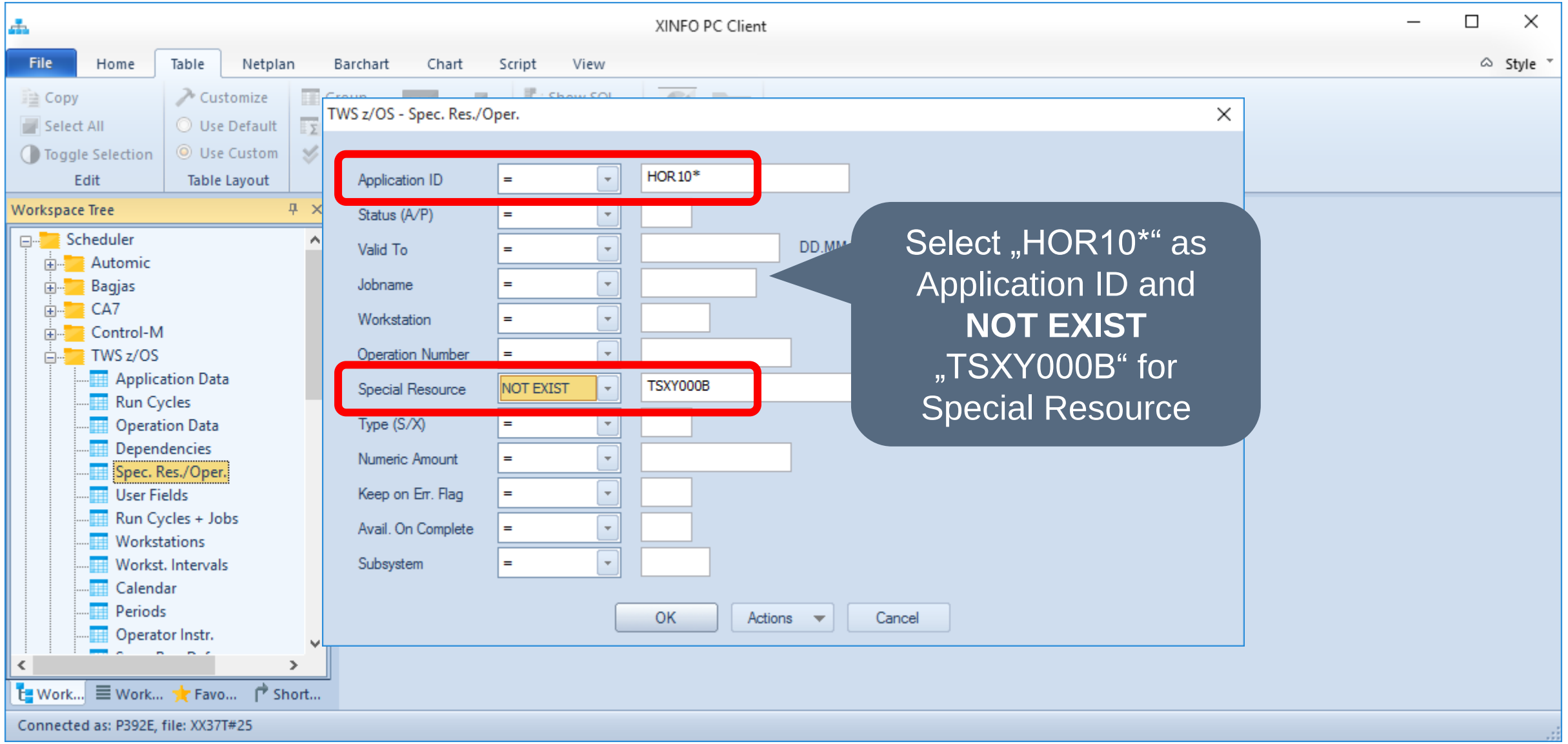


PC Client - EXIST (1)

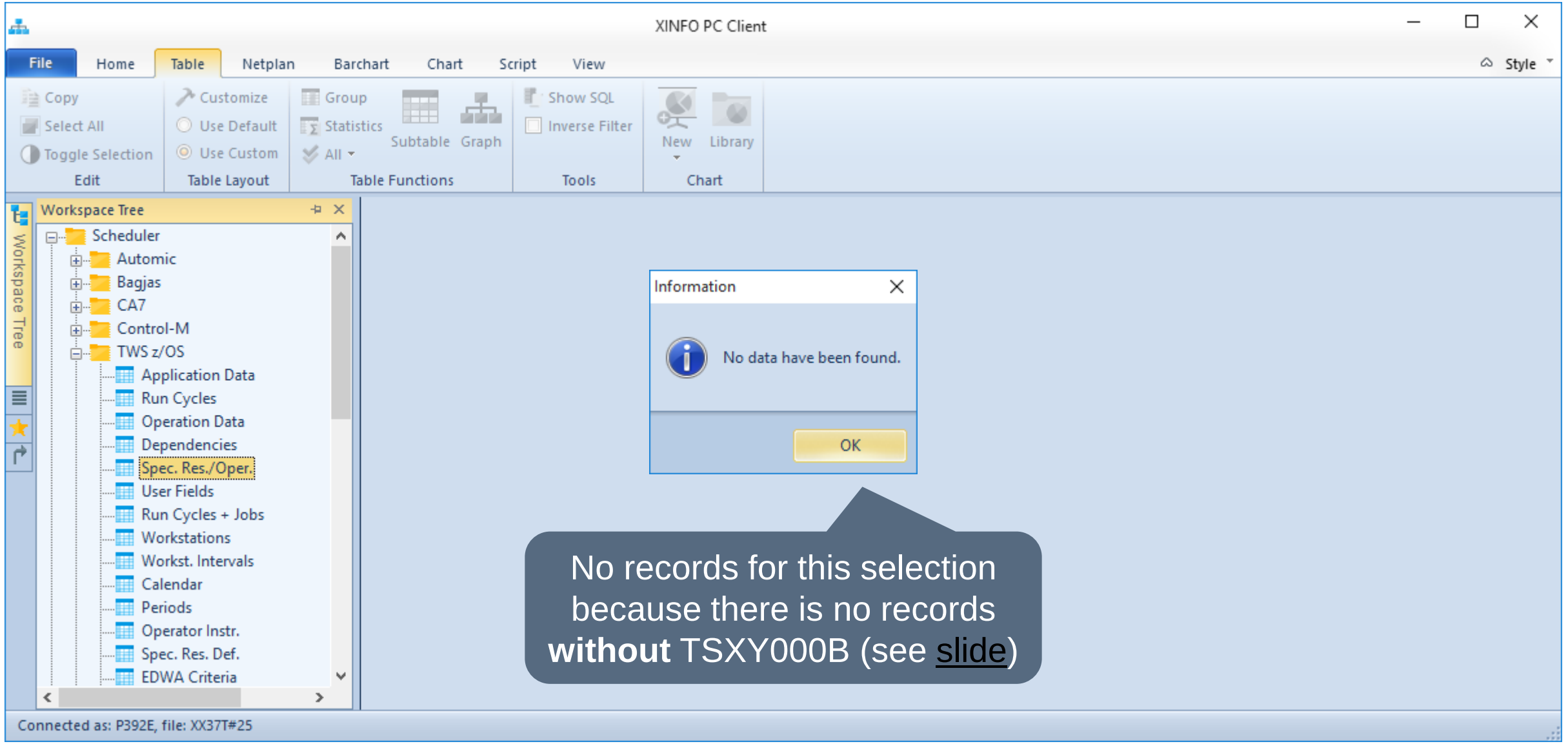


All records with Application „HOR10*“ **and** Special Resource „TSXY000B“ are shown. Dependent from Application ID, TSXY000A is also shown (Exist works only with Select All which is automatically set for the topmost selection-field)

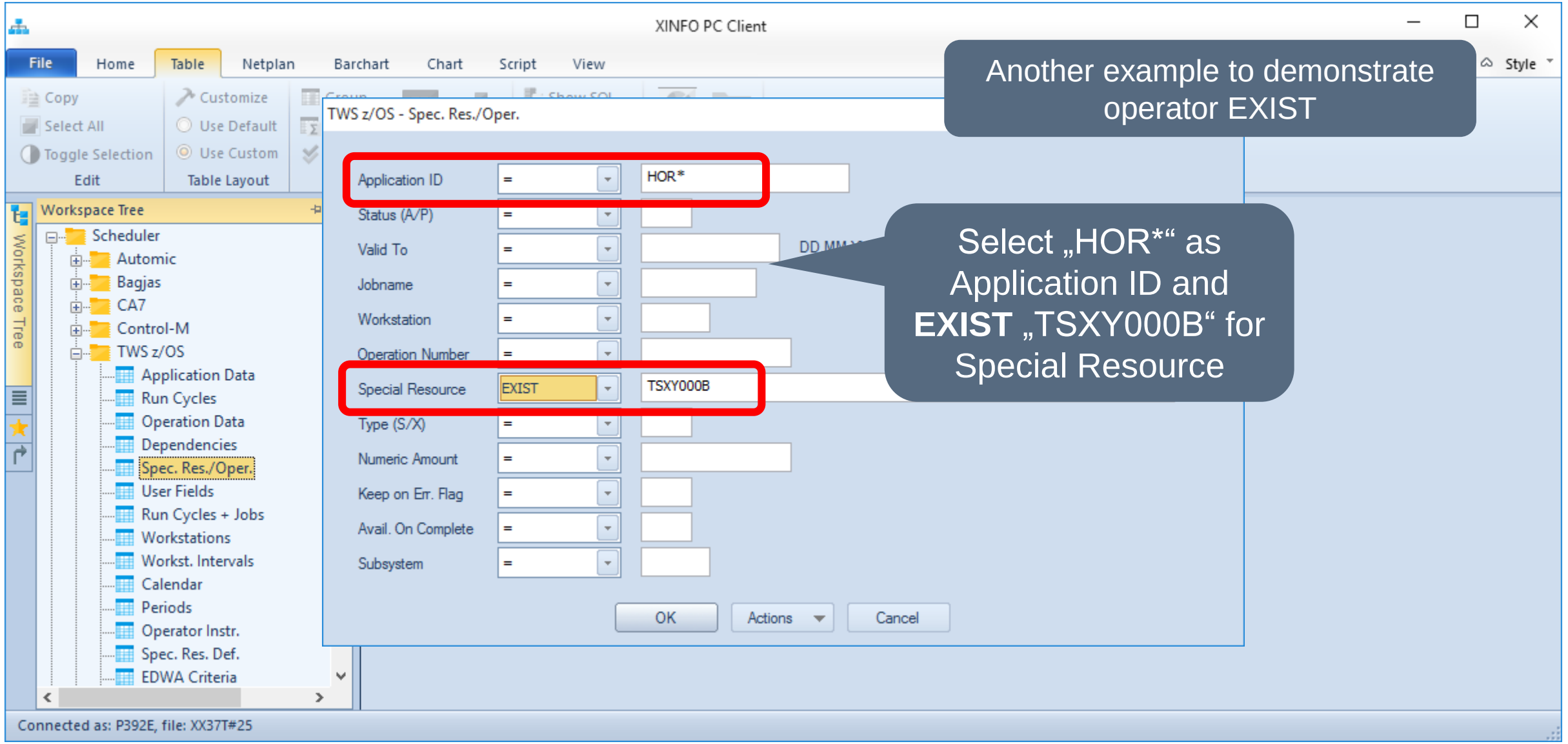
PC Client - NOT EXIST (1)



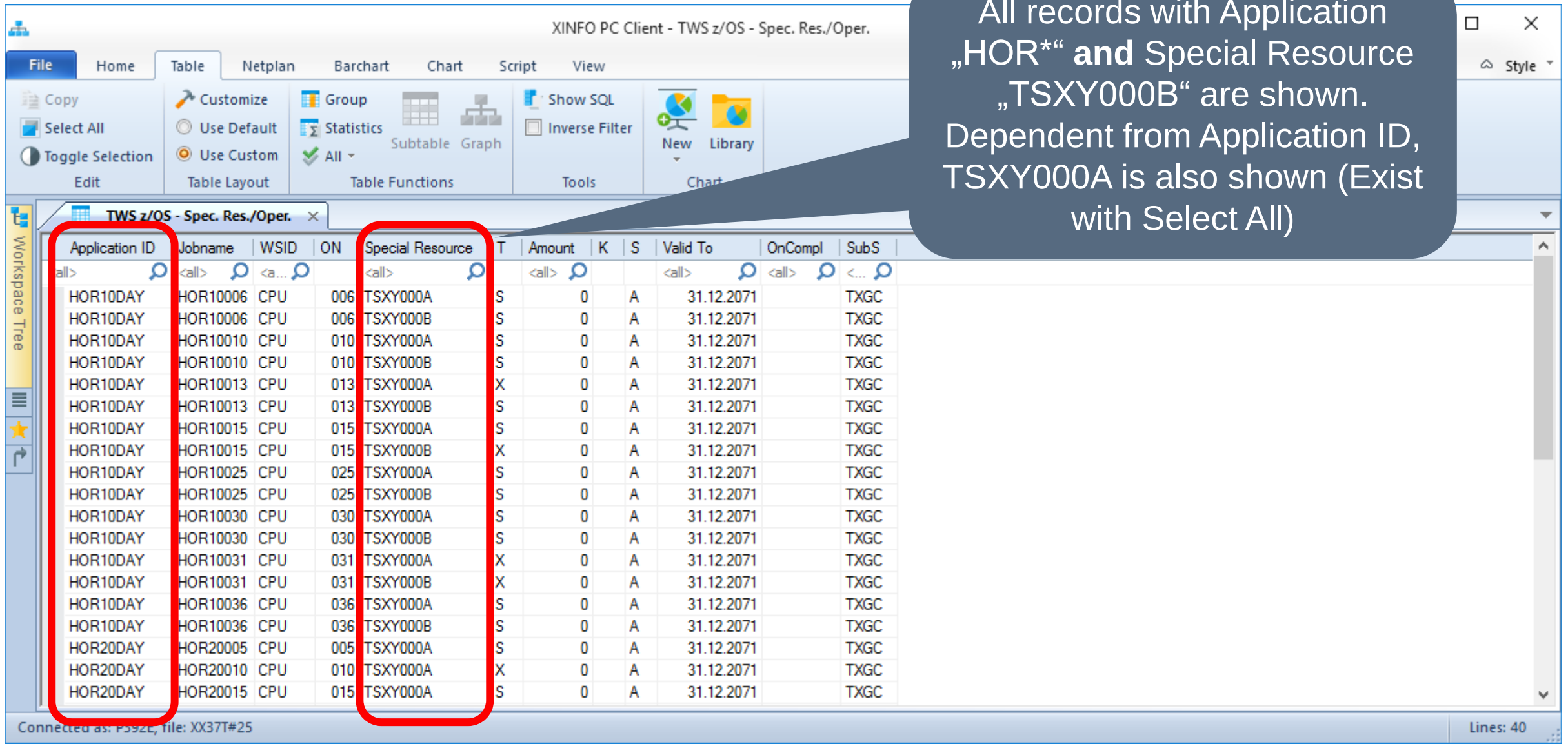
PC Client - NOT EXIST (1)



PC Client - EXIST (2)

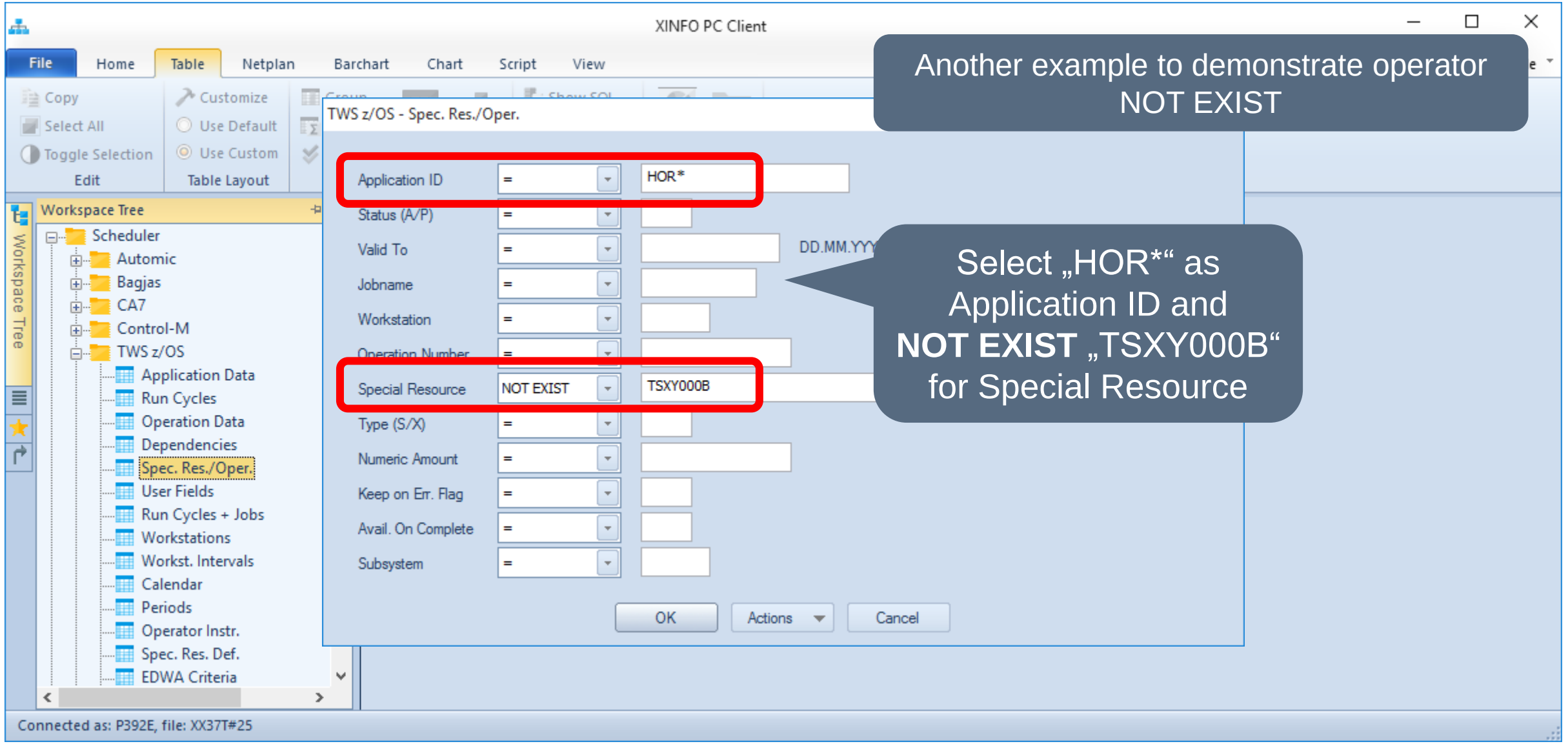


PC Client - EXIST (2)

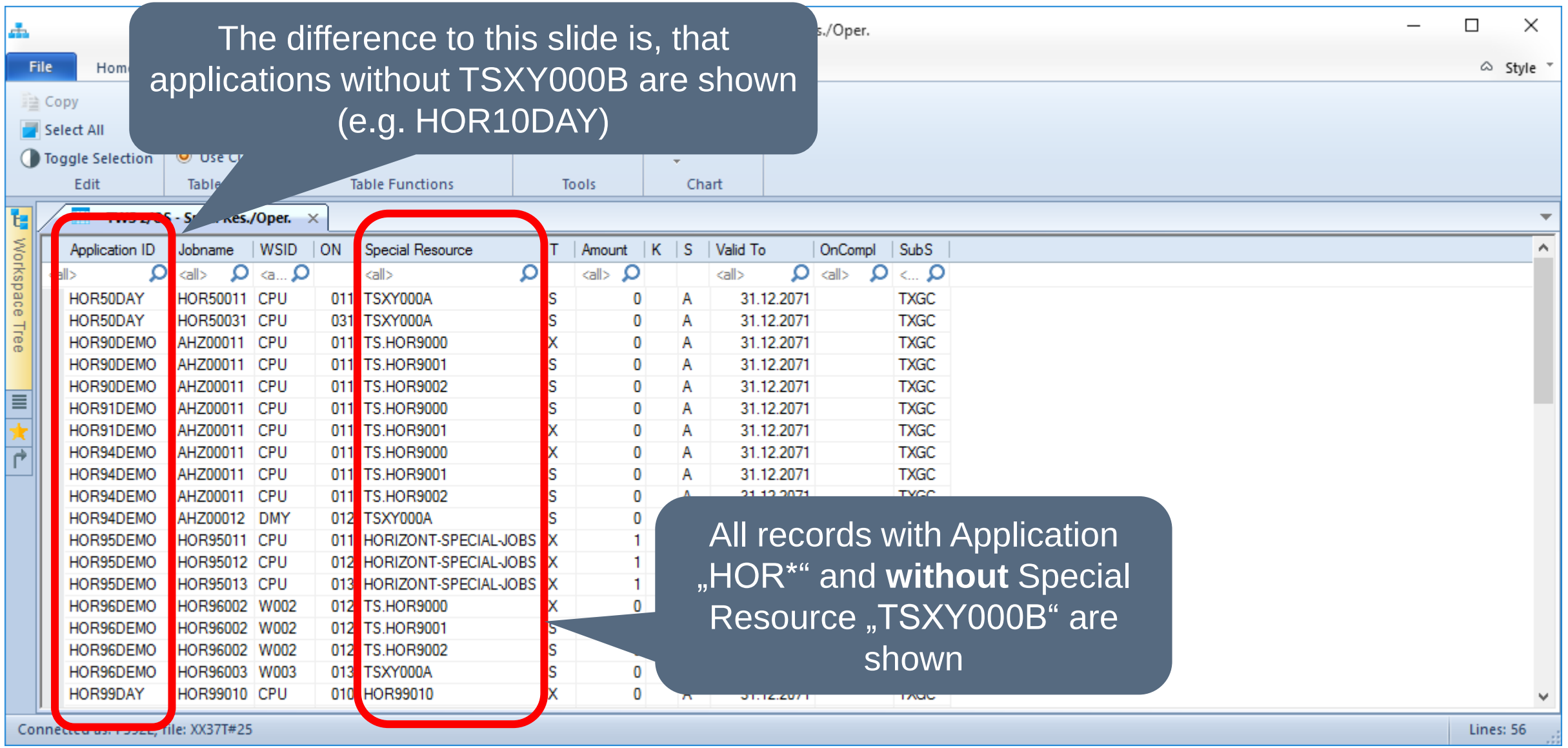


All records with Application „HOR*“ **and** Special Resource „TSXY000B“ are shown. Dependent from Application ID, TSXY000A is also shown (Exist with Select All)

PC Client - NOT EXIST (2)



PC Client - NOT EXIST (2)

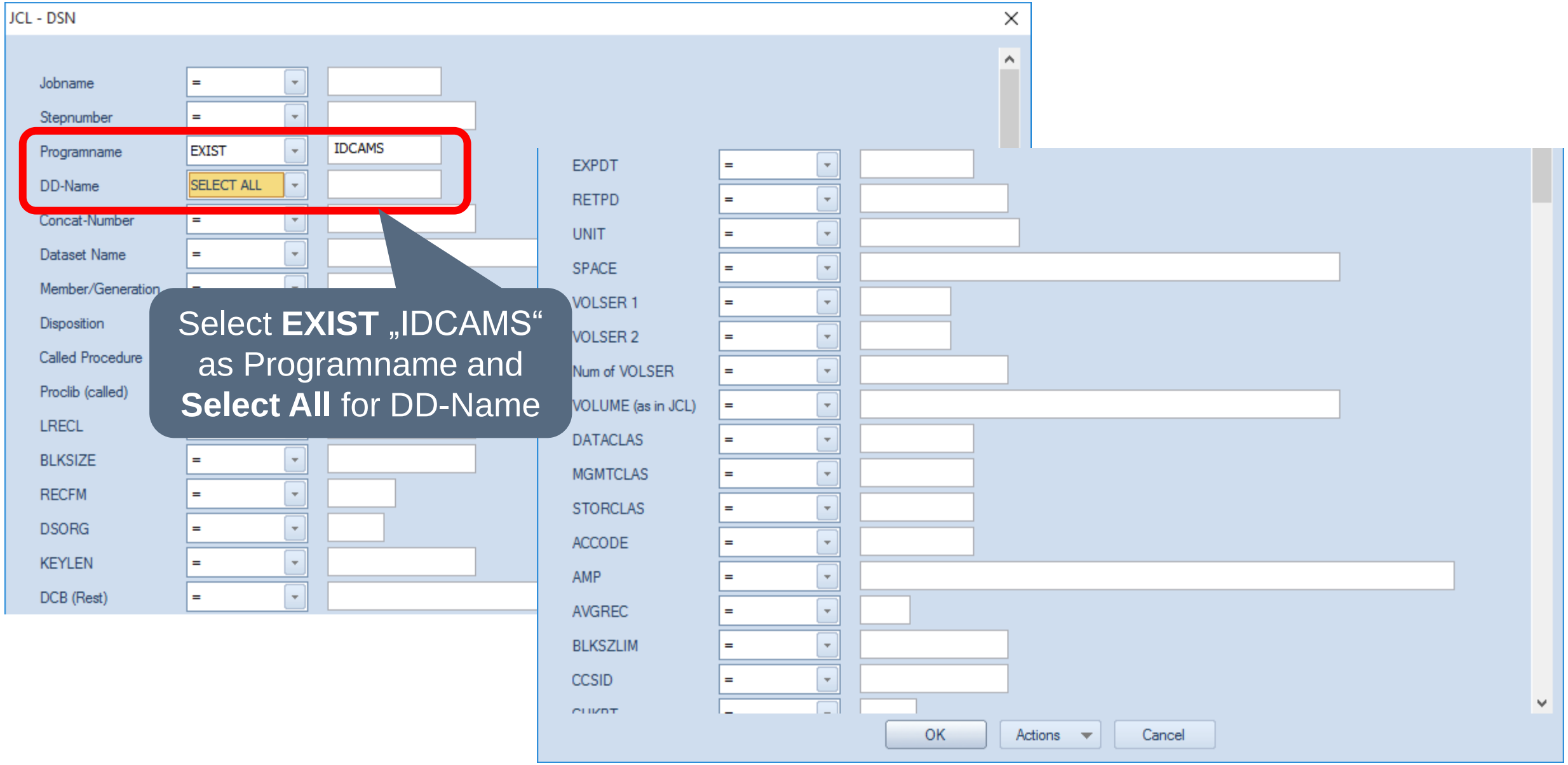


PC Client - SELECT ALL

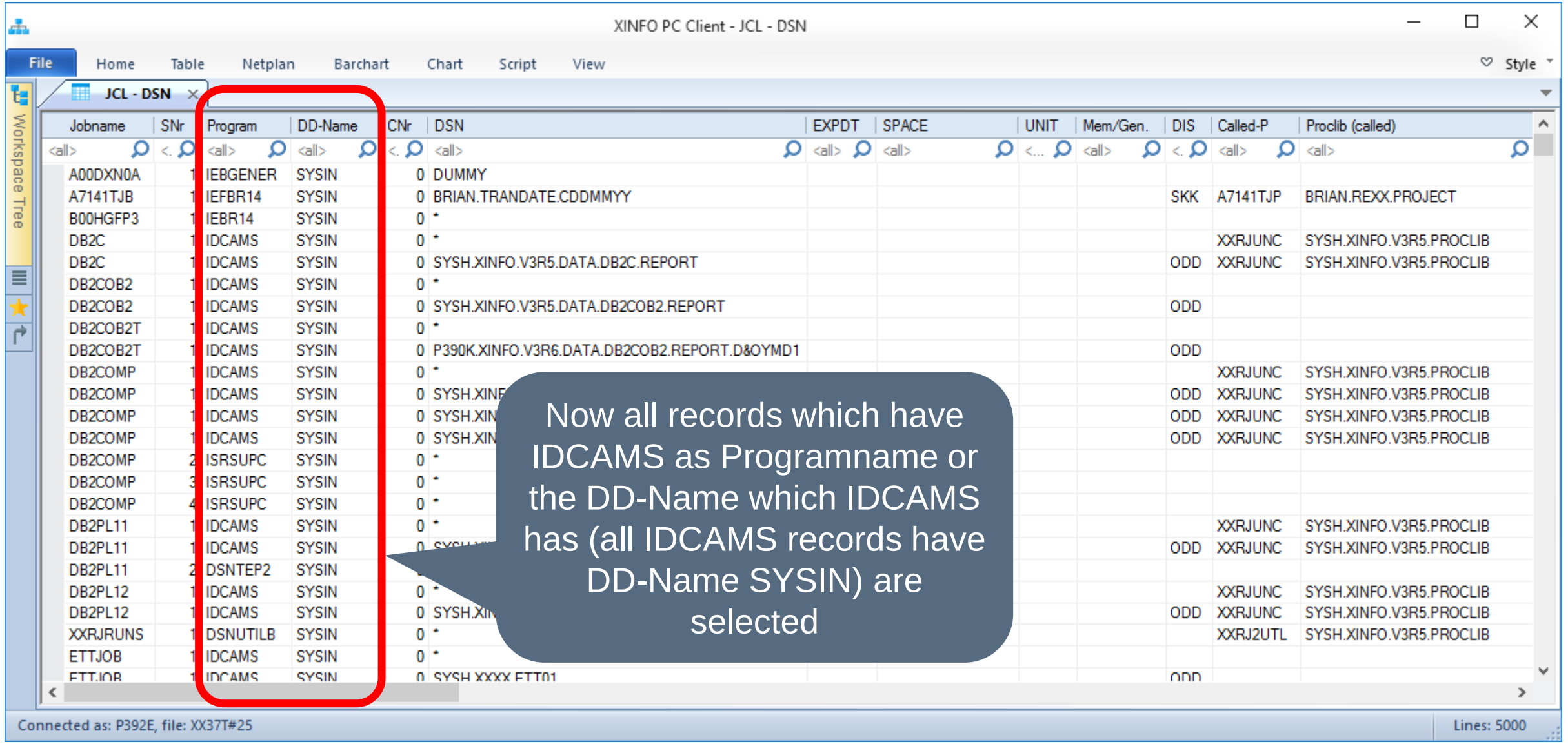
How does the Select All operator work?

- The Select All operator works only with Exist and Not Exist
- If you select e.g. Programname with an Exist, but the SA operator is ommitted, it is assumed for the topmost field in the input-panel (e.g. Jobname).
  - Now all Jobnames which include at least one exist-selection will be shown
  - Records which have the same Jobname but no matching exist-selection, will also be shown
- If you select Programname with an Exist and DD-Name with a SA (without a selection), you get all records which contain the Exist and all records which habe the same DD-Name as the DD-Name of the Exist

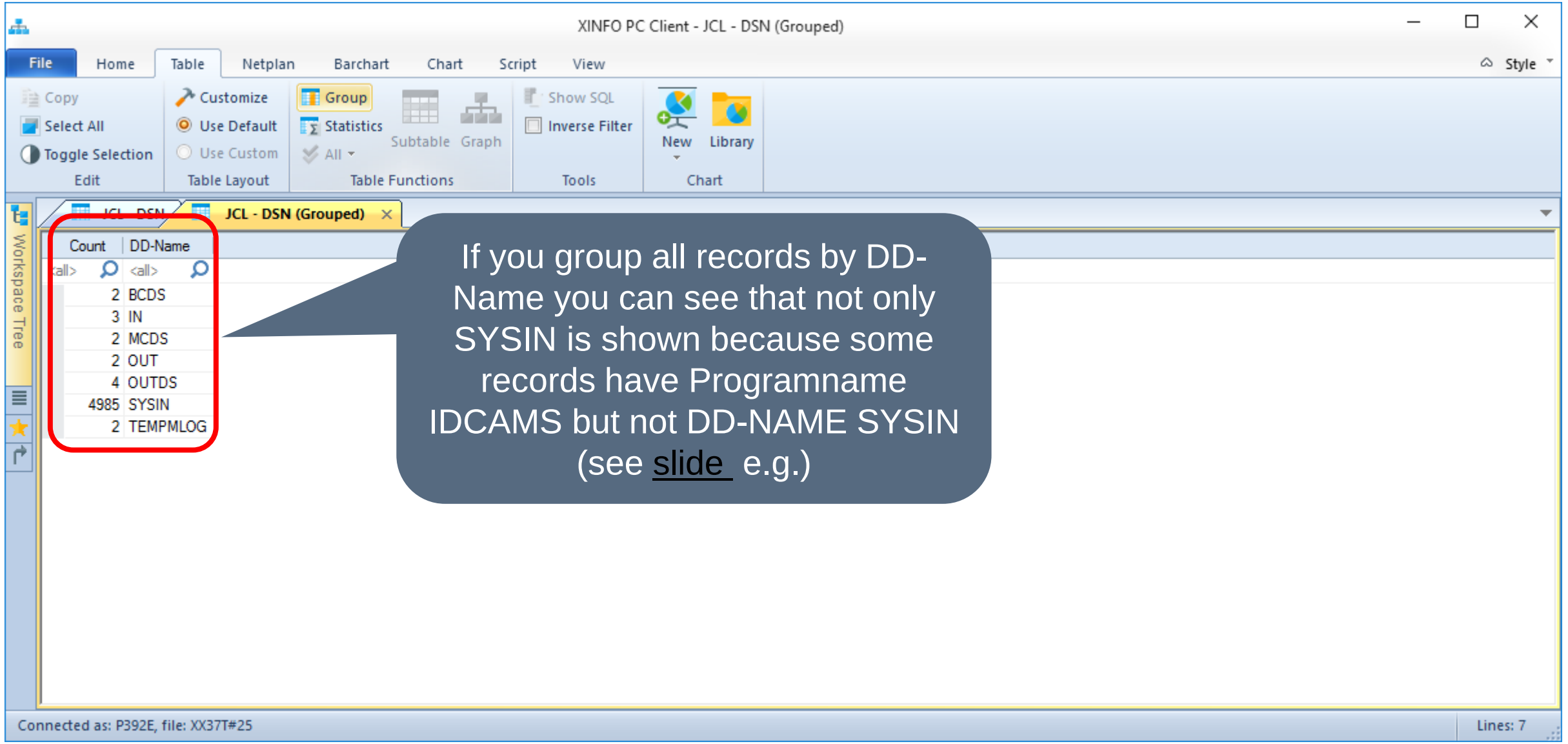
PC Client - SELECT ALL



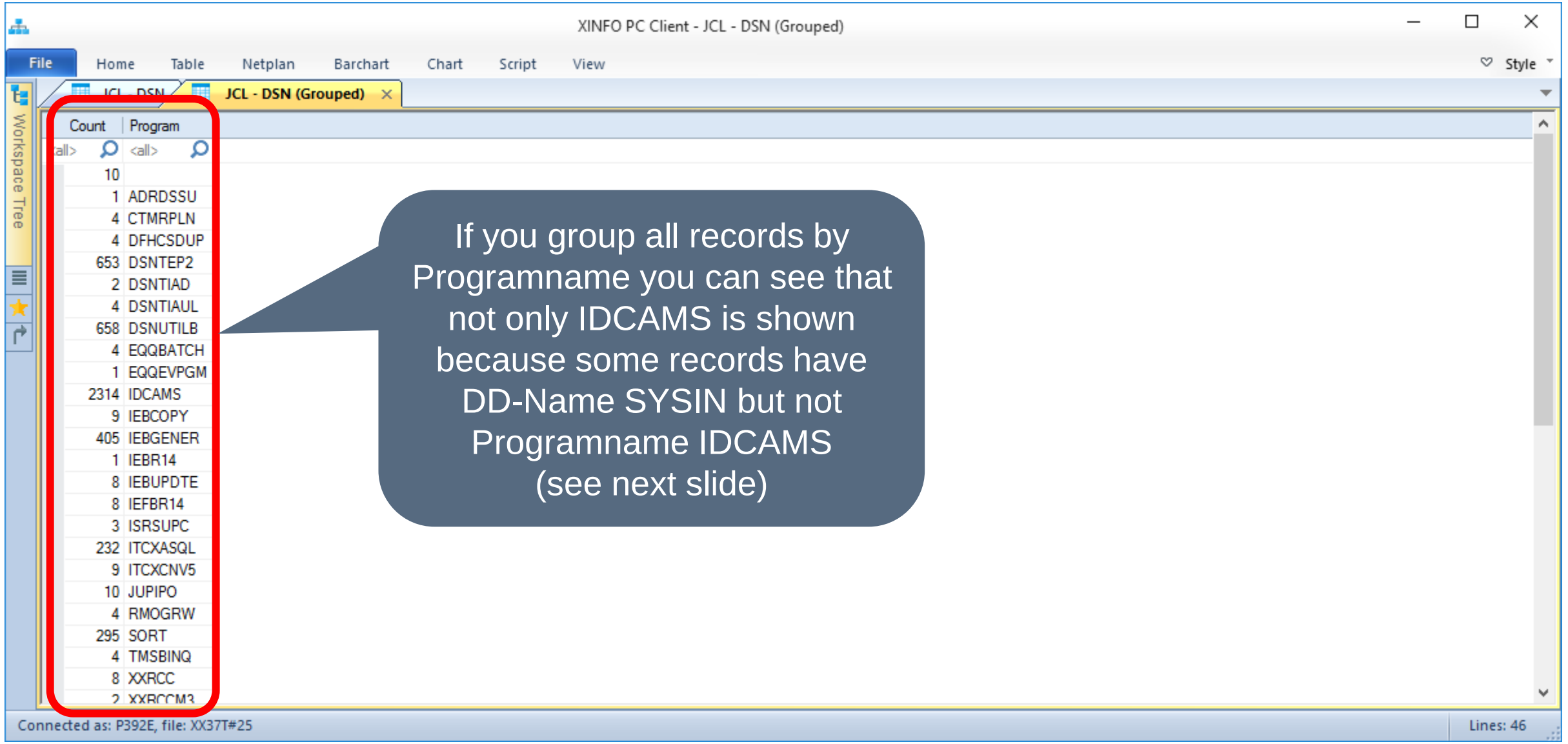
PC Client - SELECT ALL



PC Client - SELECT ALL

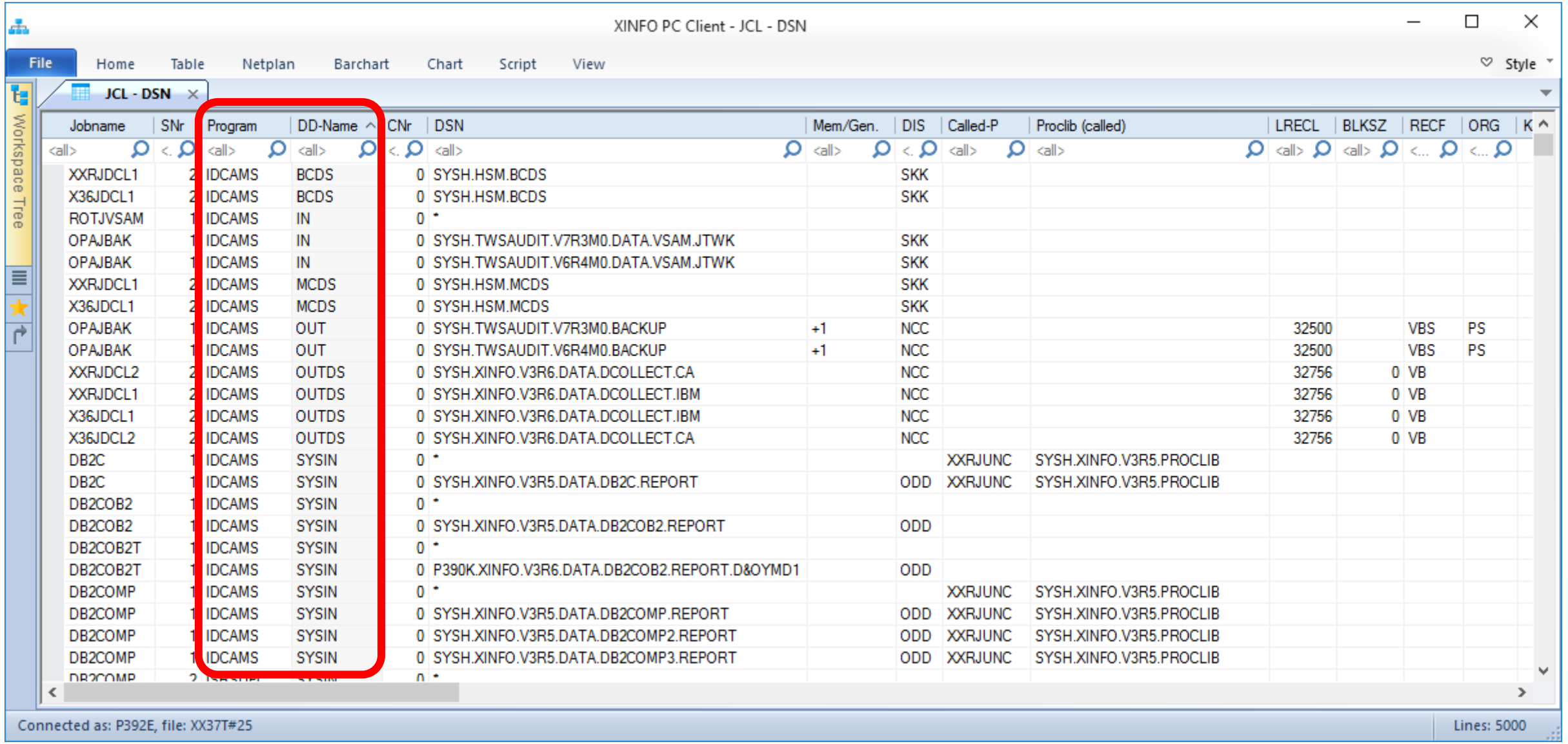


PC Client - SELECT ALL

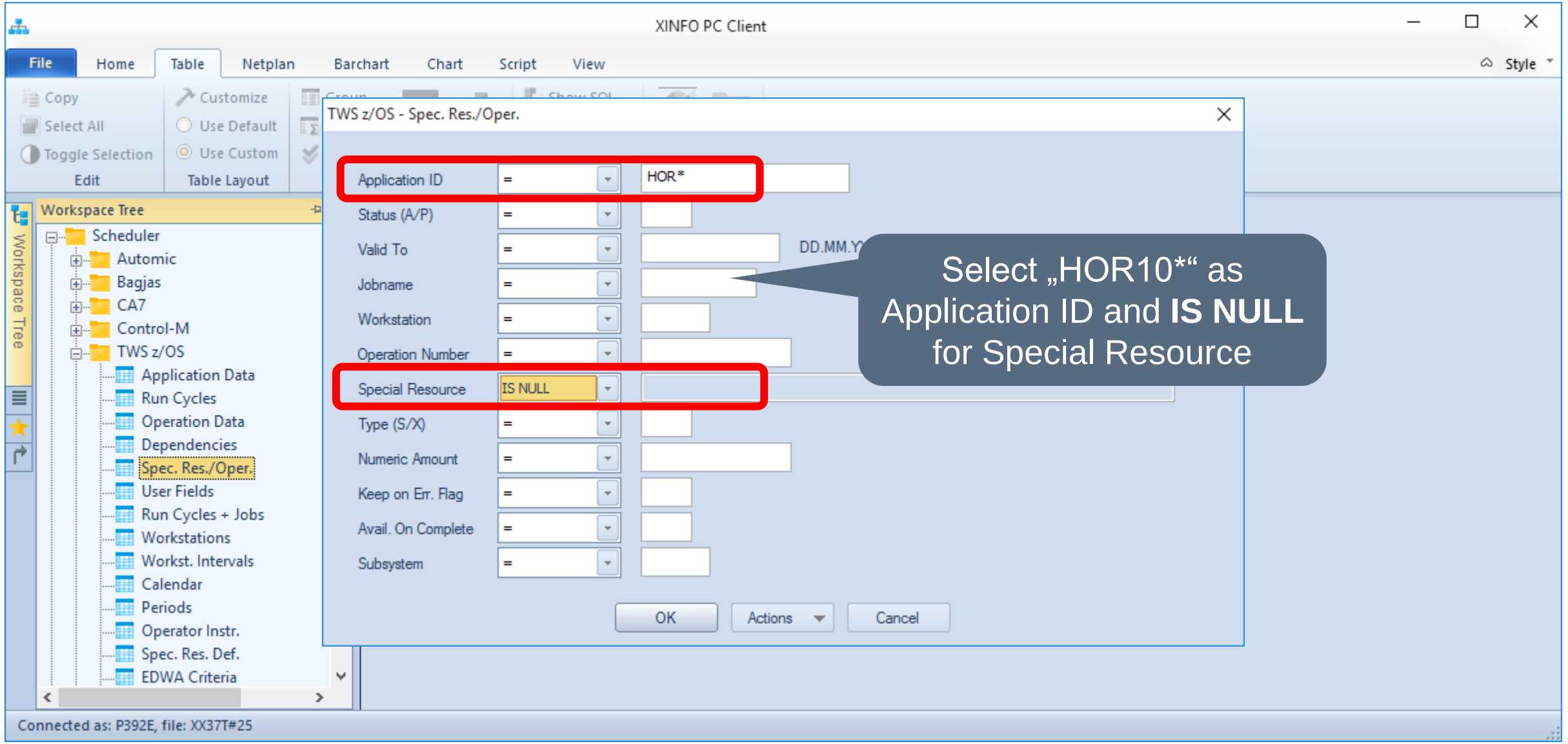


If you group all records by Programname you can see that not only IDCAMS is shown because some records have DD-Name SYSIN but not Programname IDCAMS (see next slide)

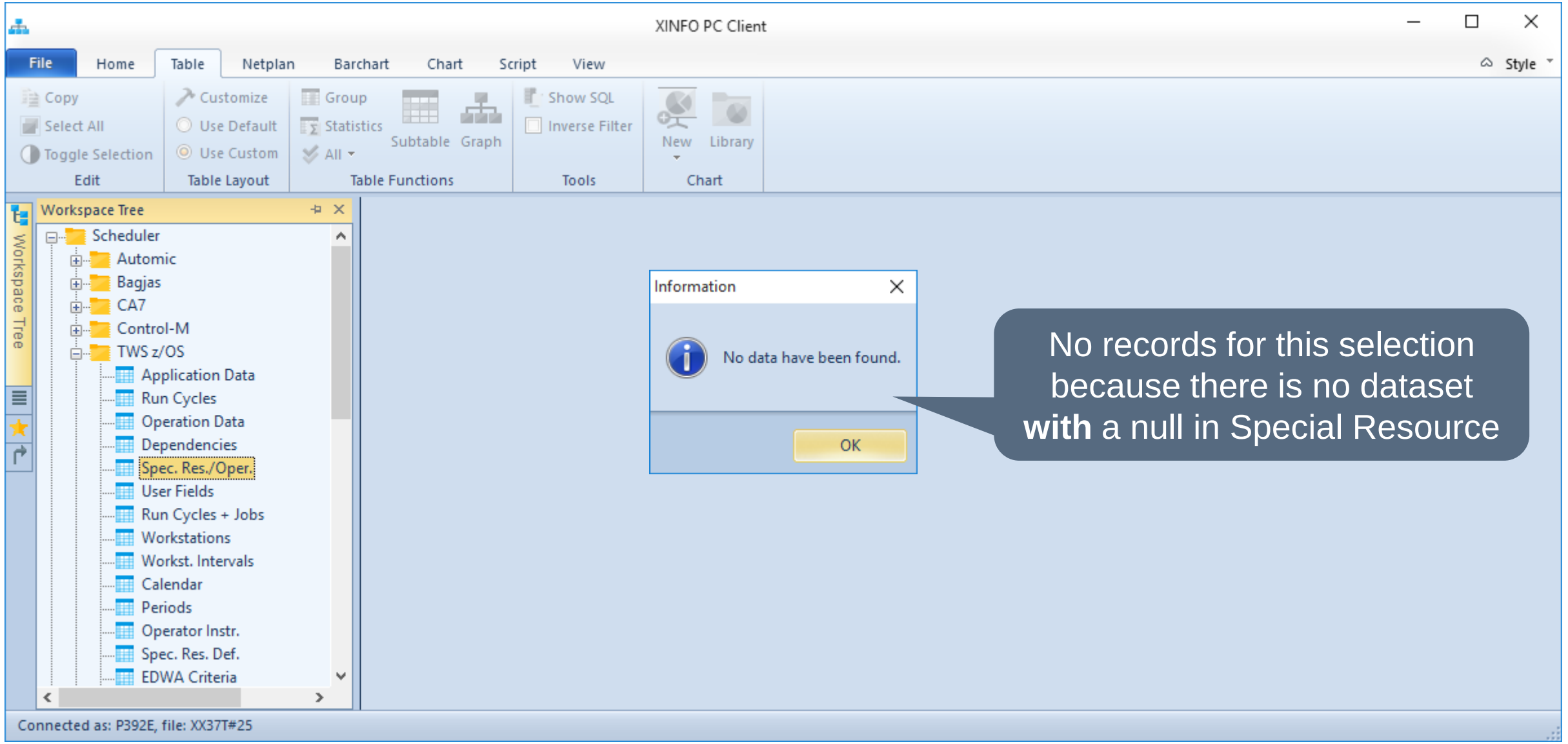
PC Client - SELECT ALL



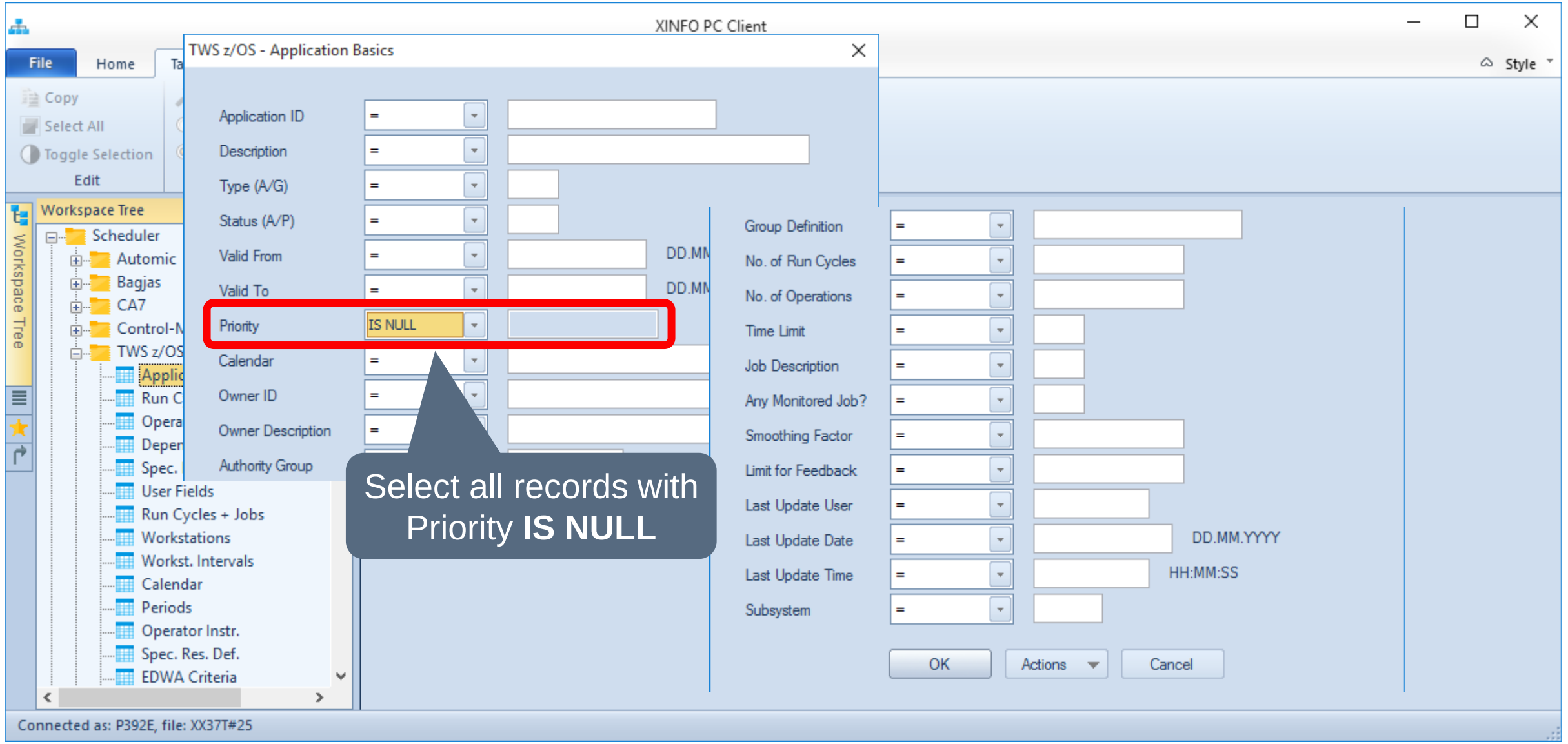
PC Client - IS NULL (1)



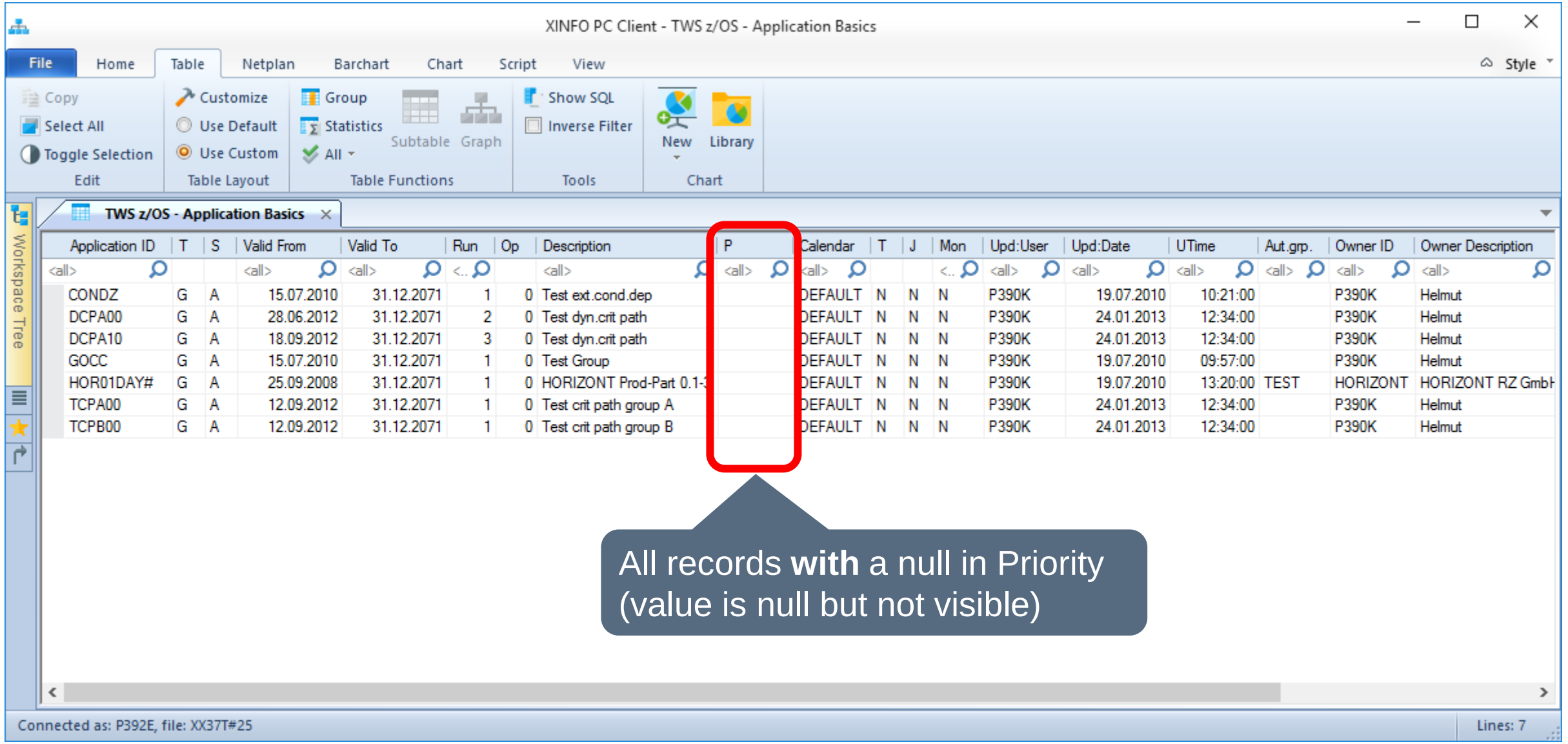
PC Client - IS NULL (1)



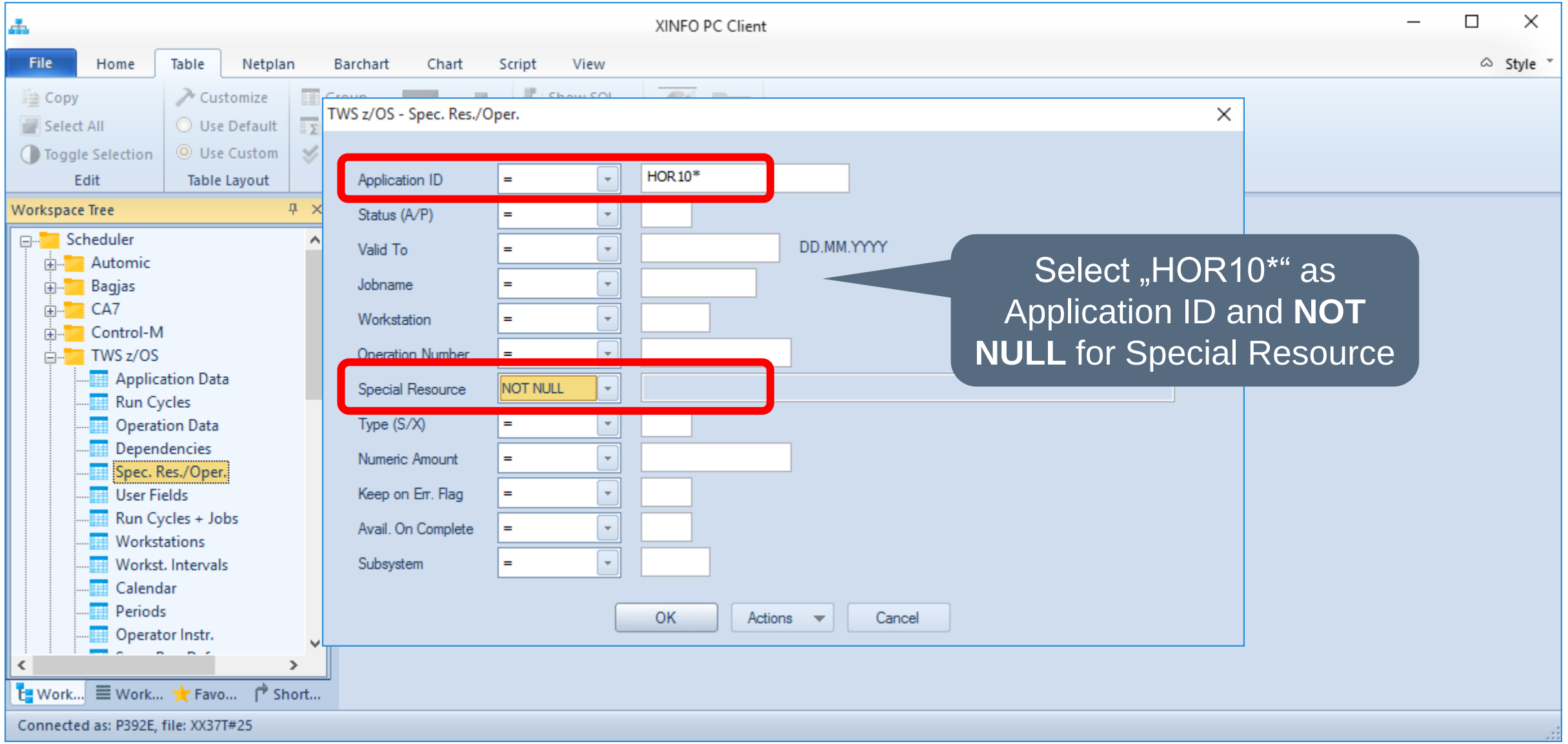
PC Client - IS NULL (2)



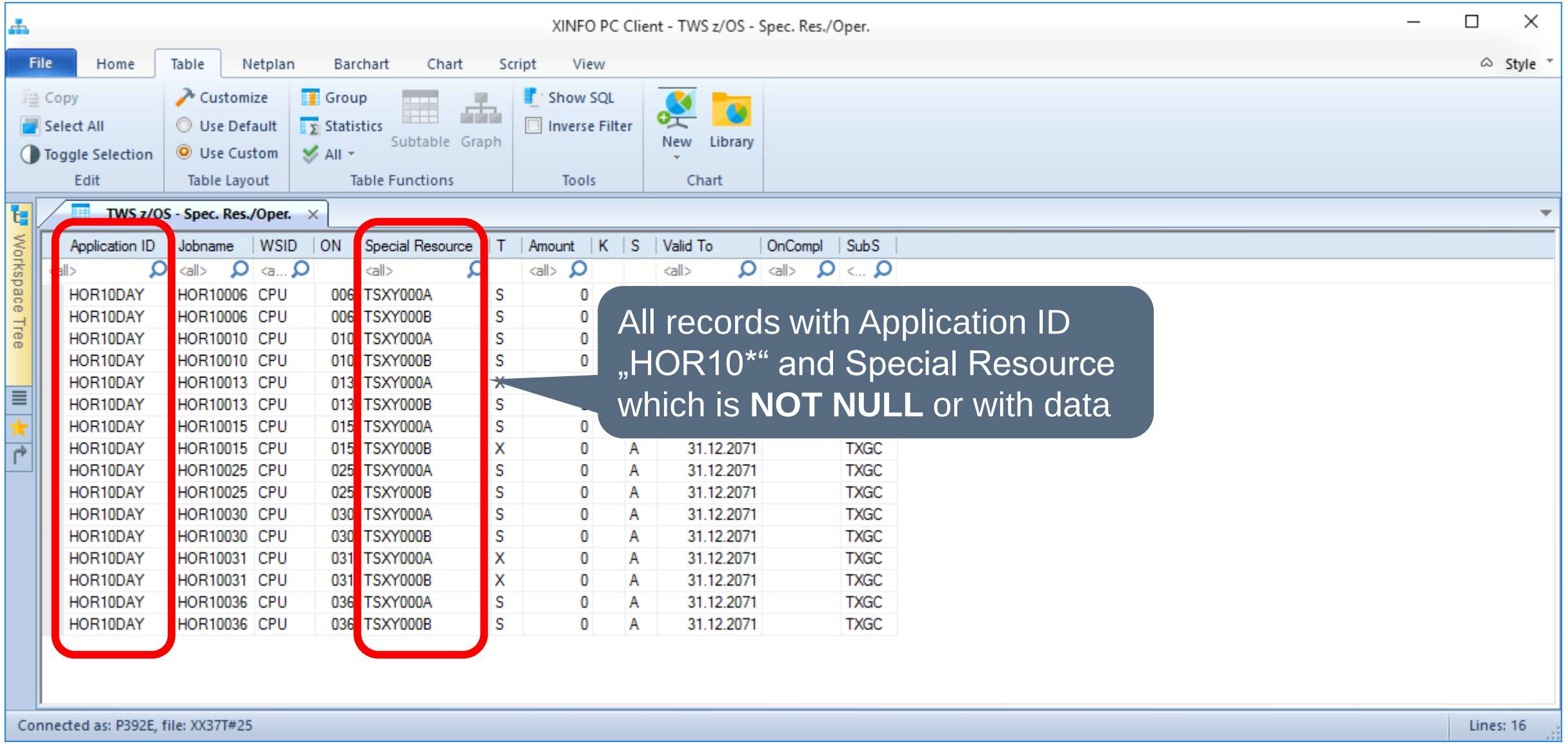
PC Client - IS NULL (2)



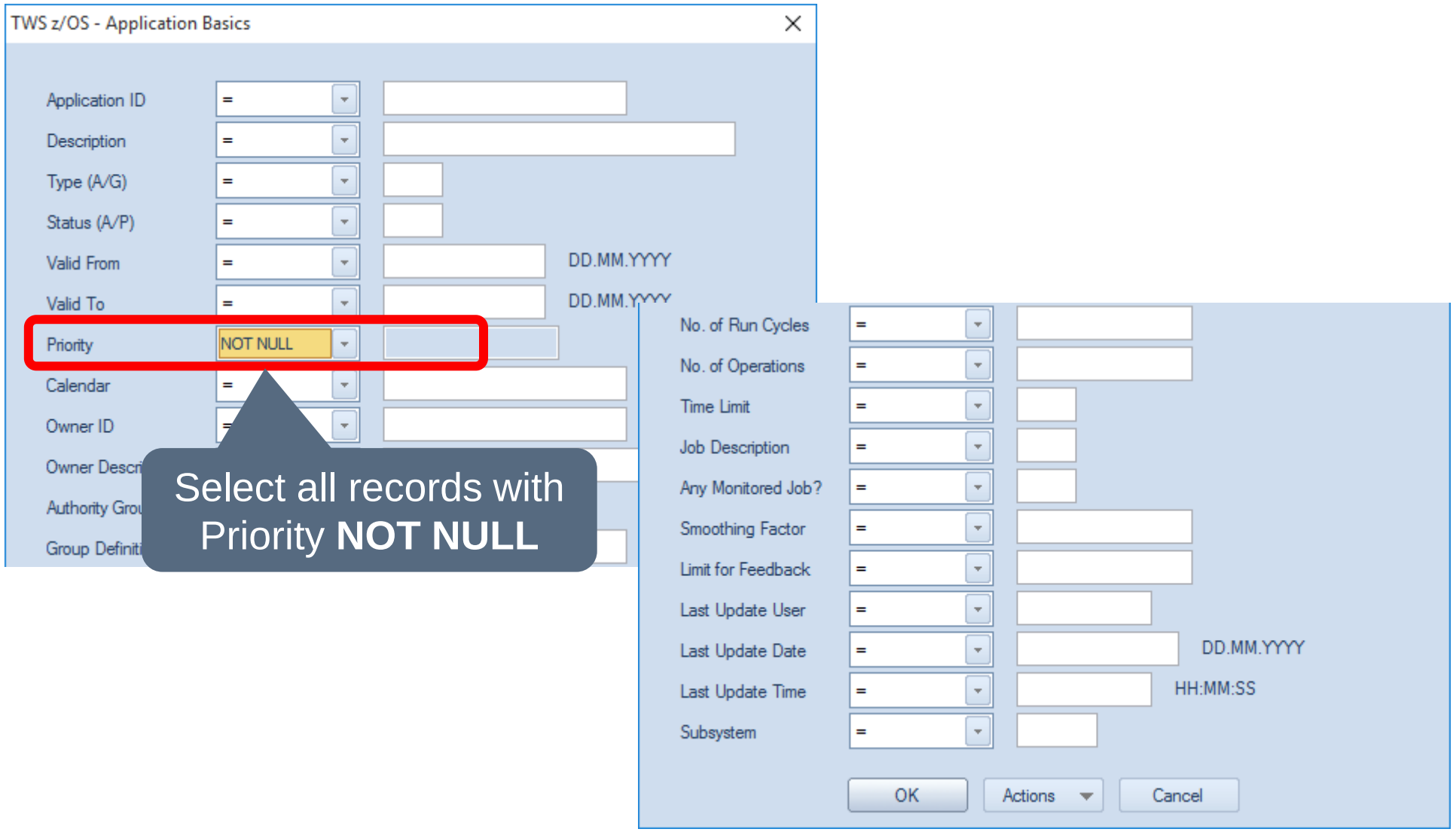
PC Client - NOT NULL (1)



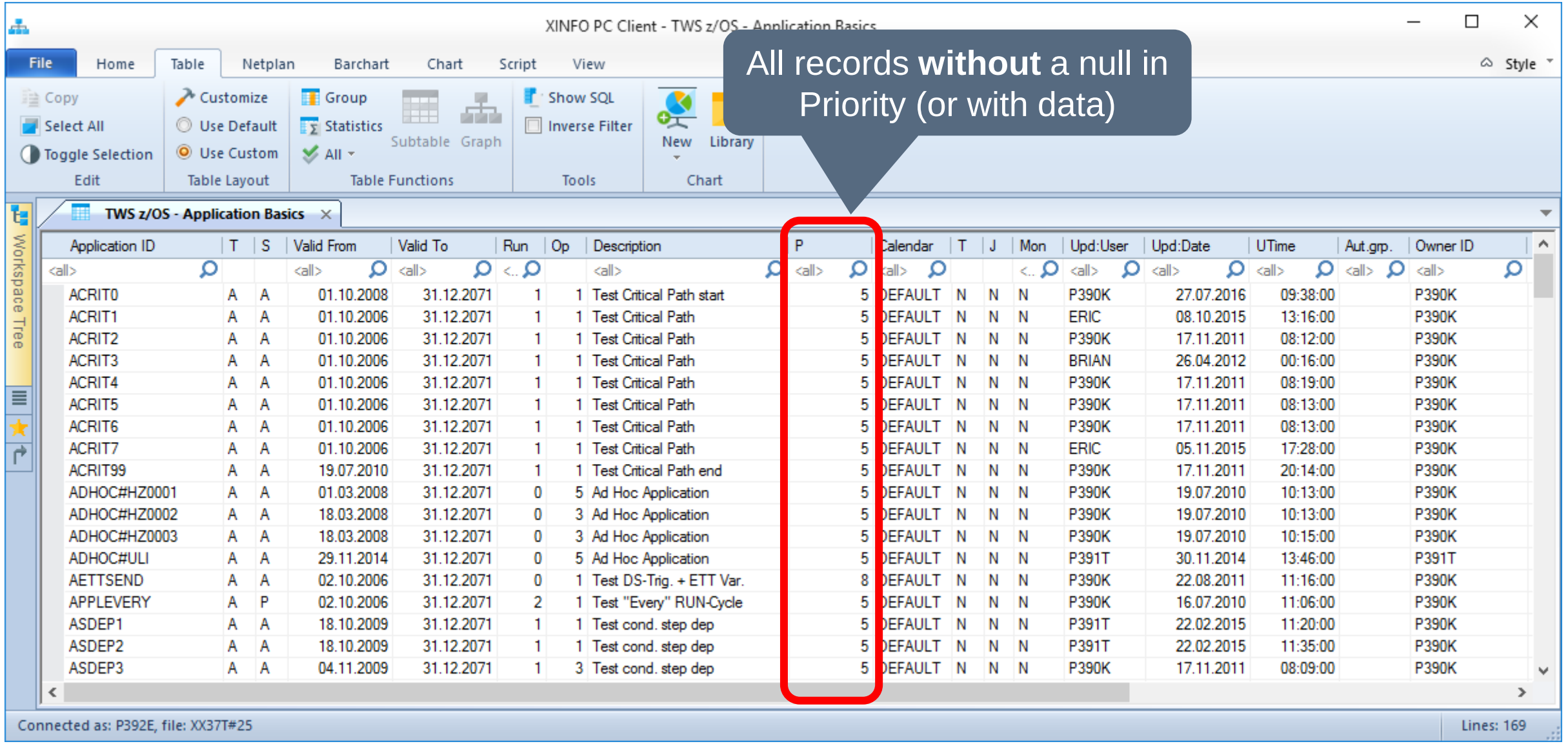
PC Client - NOT NULL (1)



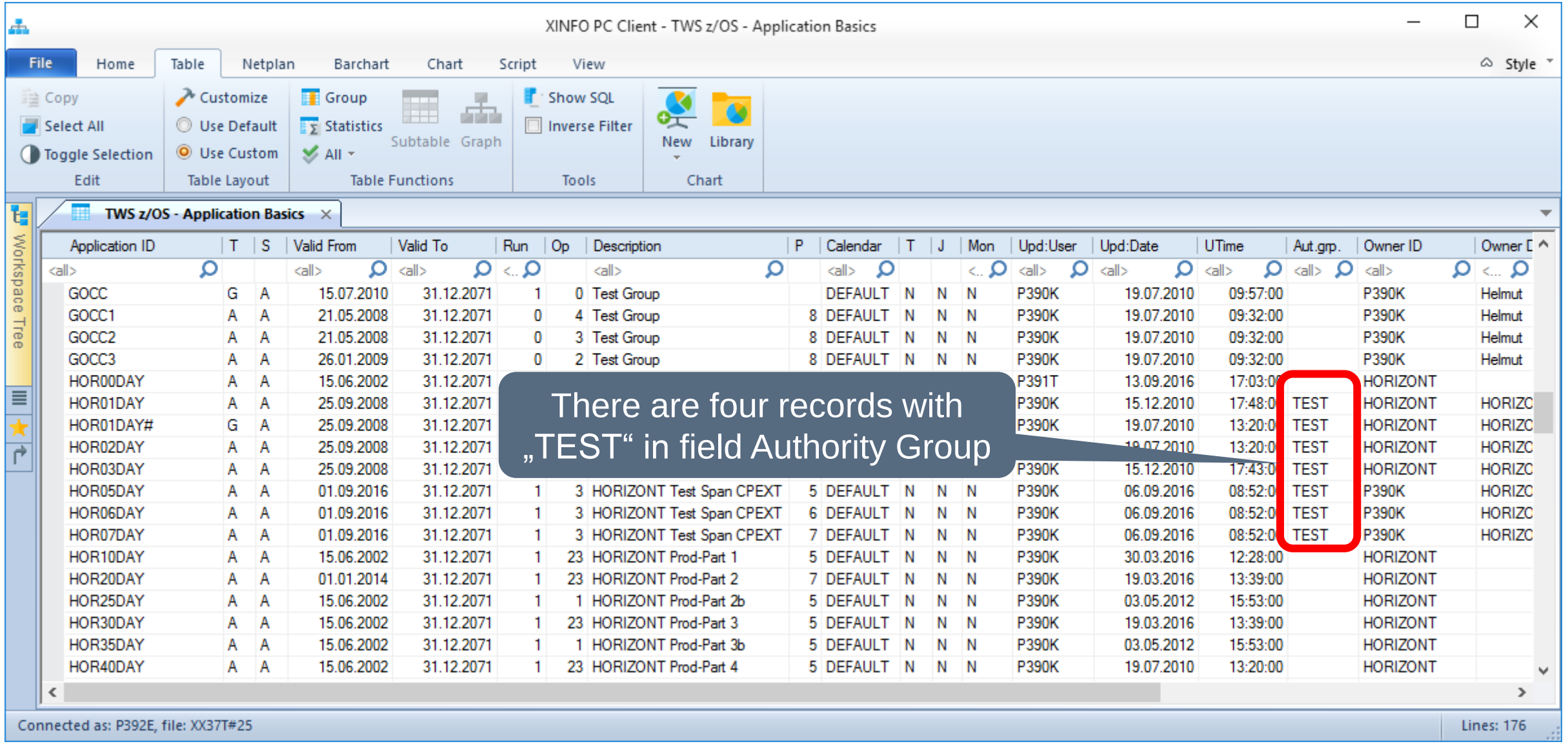
PC Client - NOT NULL (2)



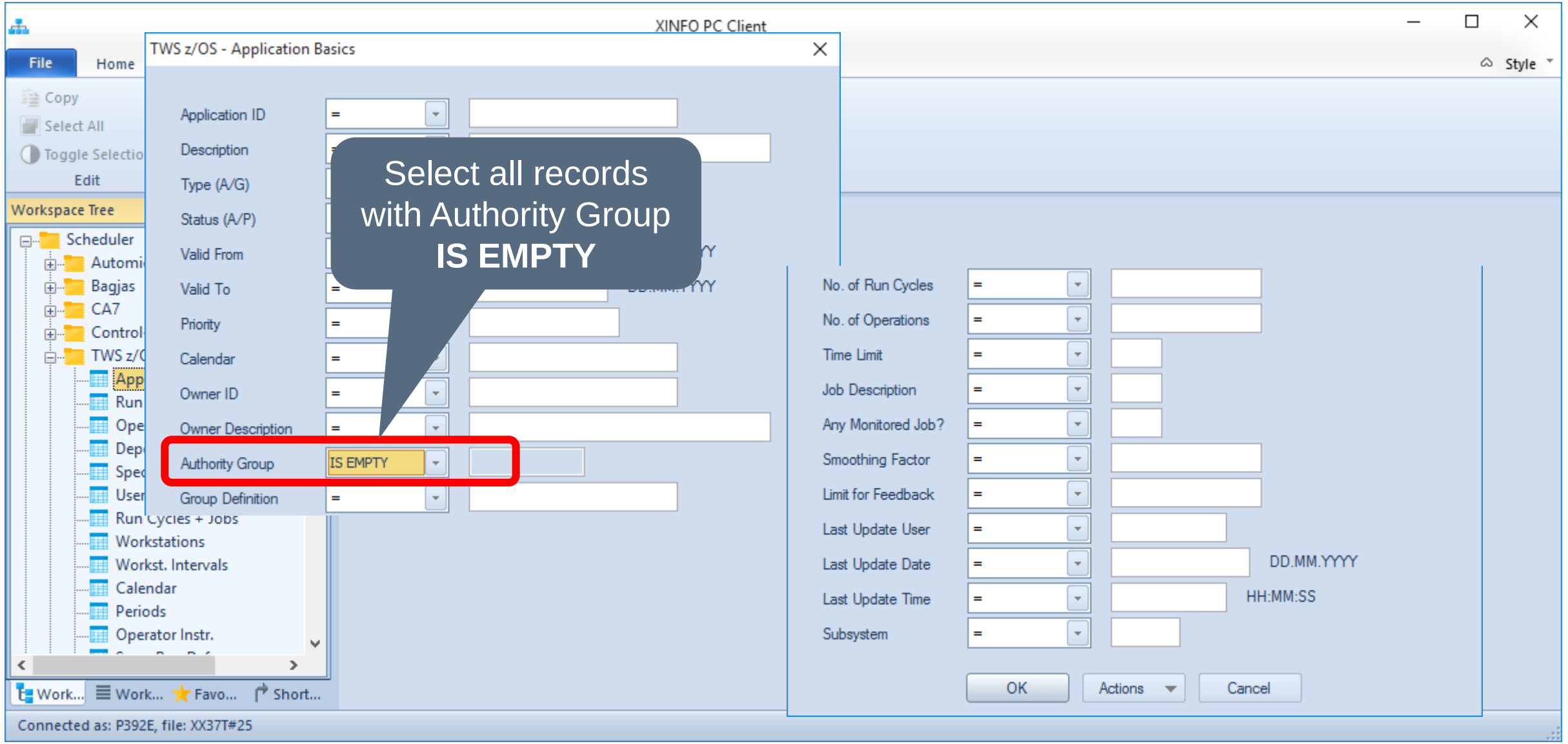
PC Client - NOT NULL (2)



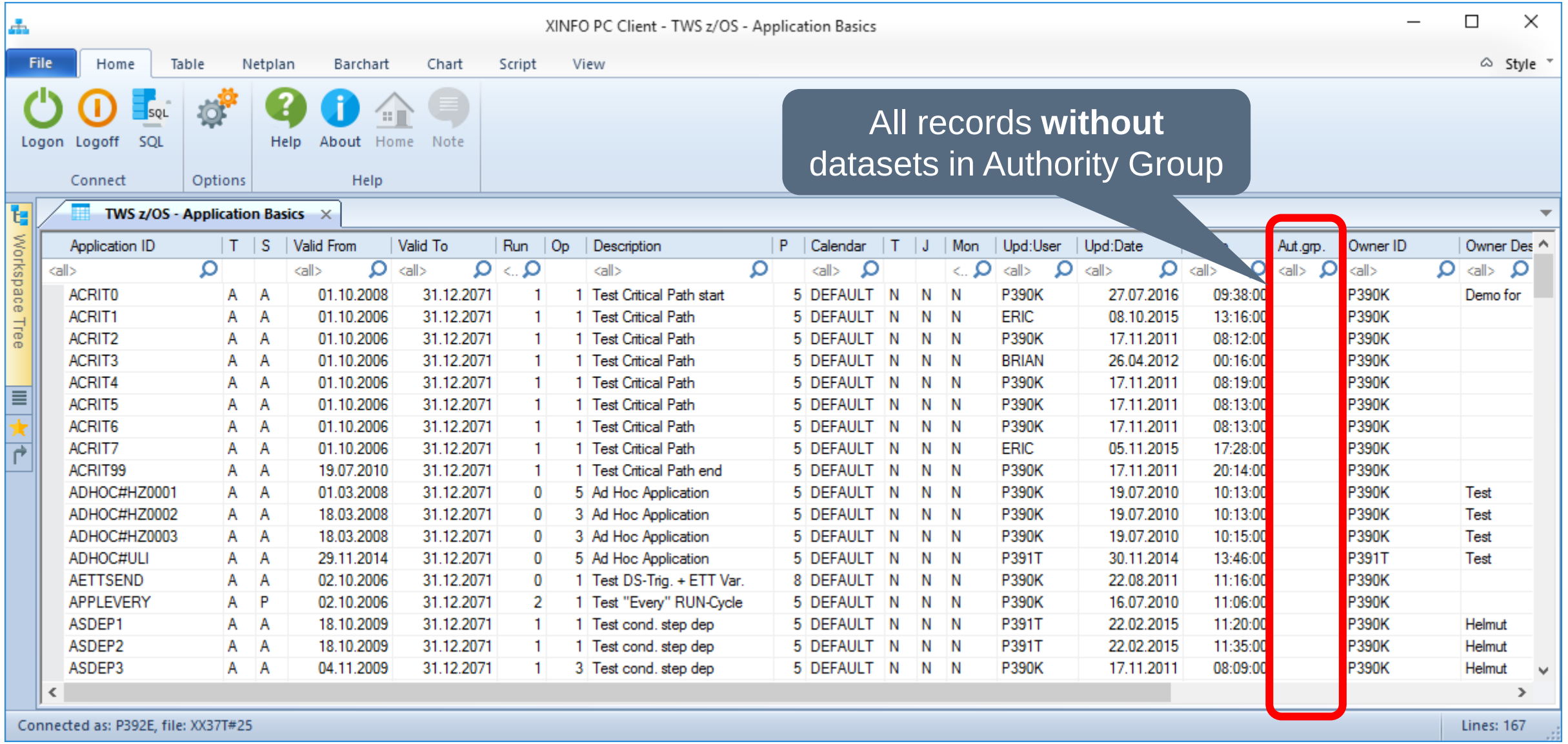
PC Client - IS EMPTY (overview)



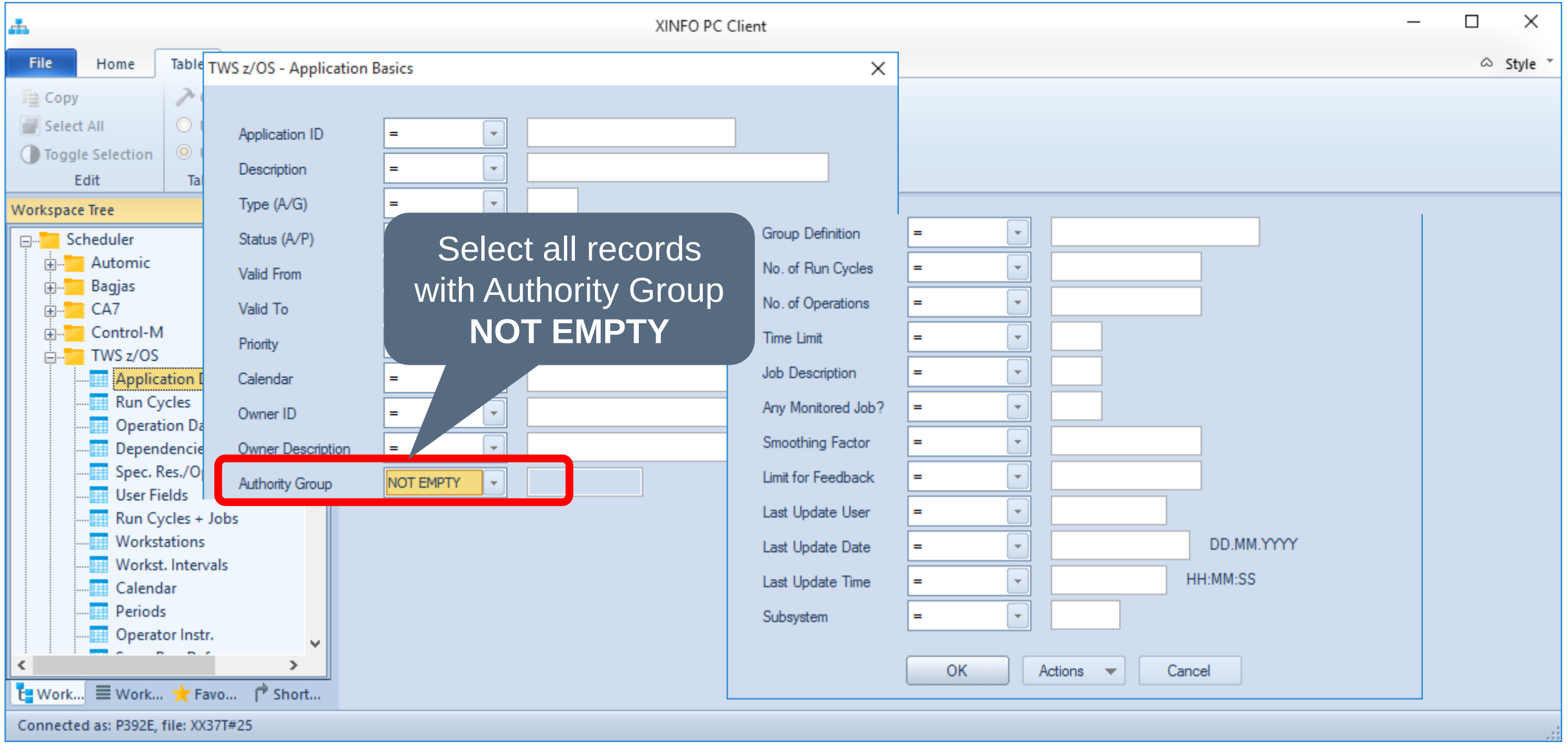
PC Client - IS EMPTY



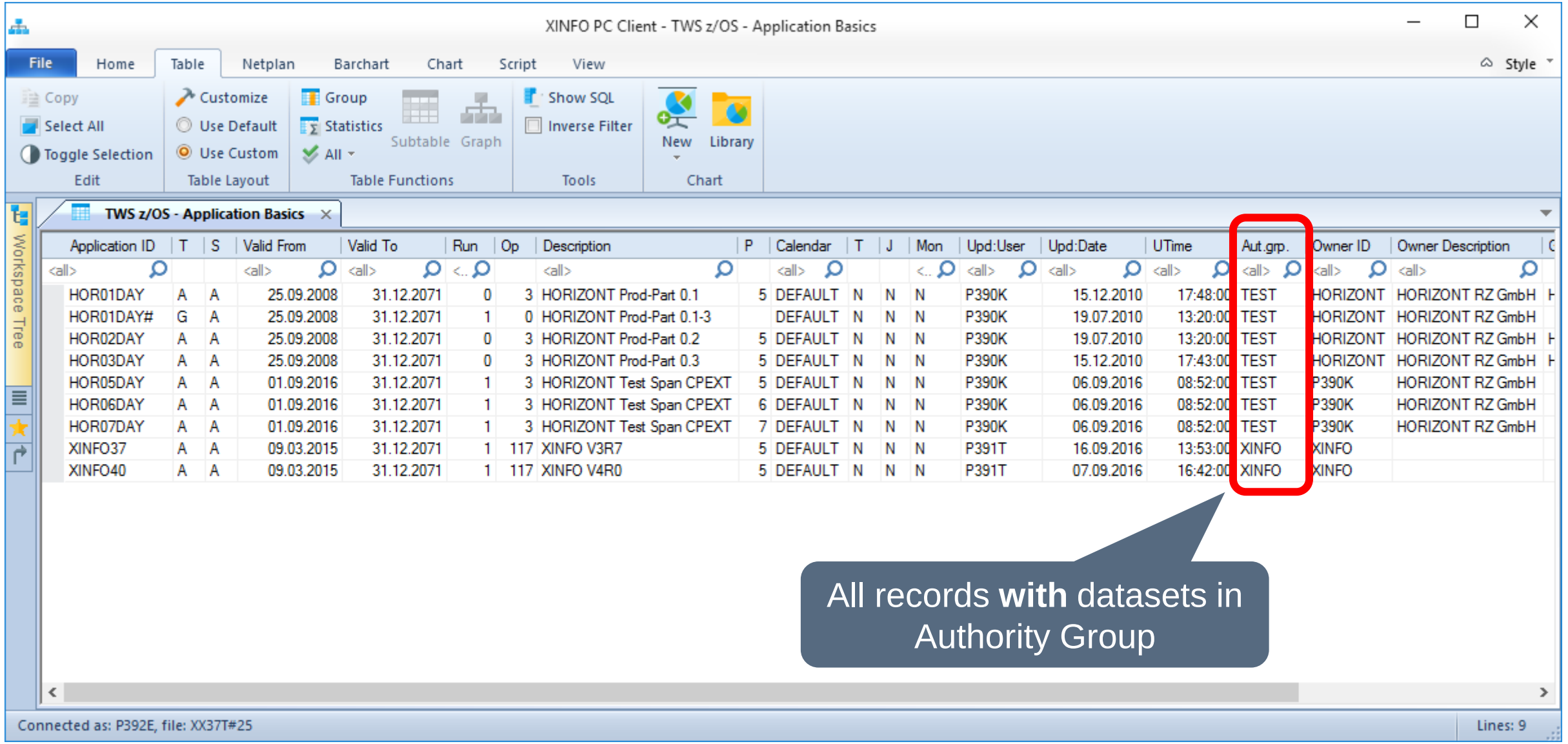
PC Client - IS EMPTY



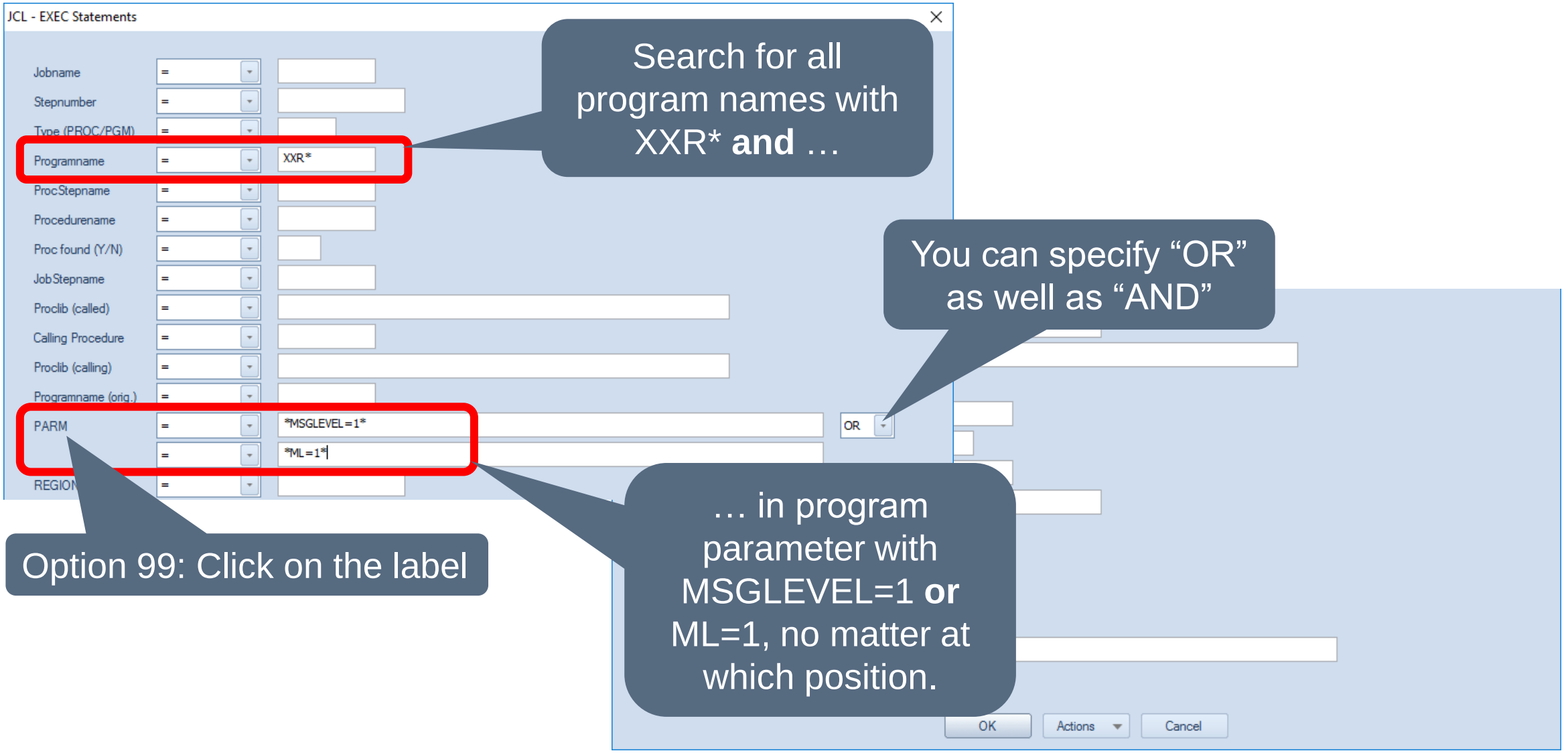
PC Client - NOT EMPTY



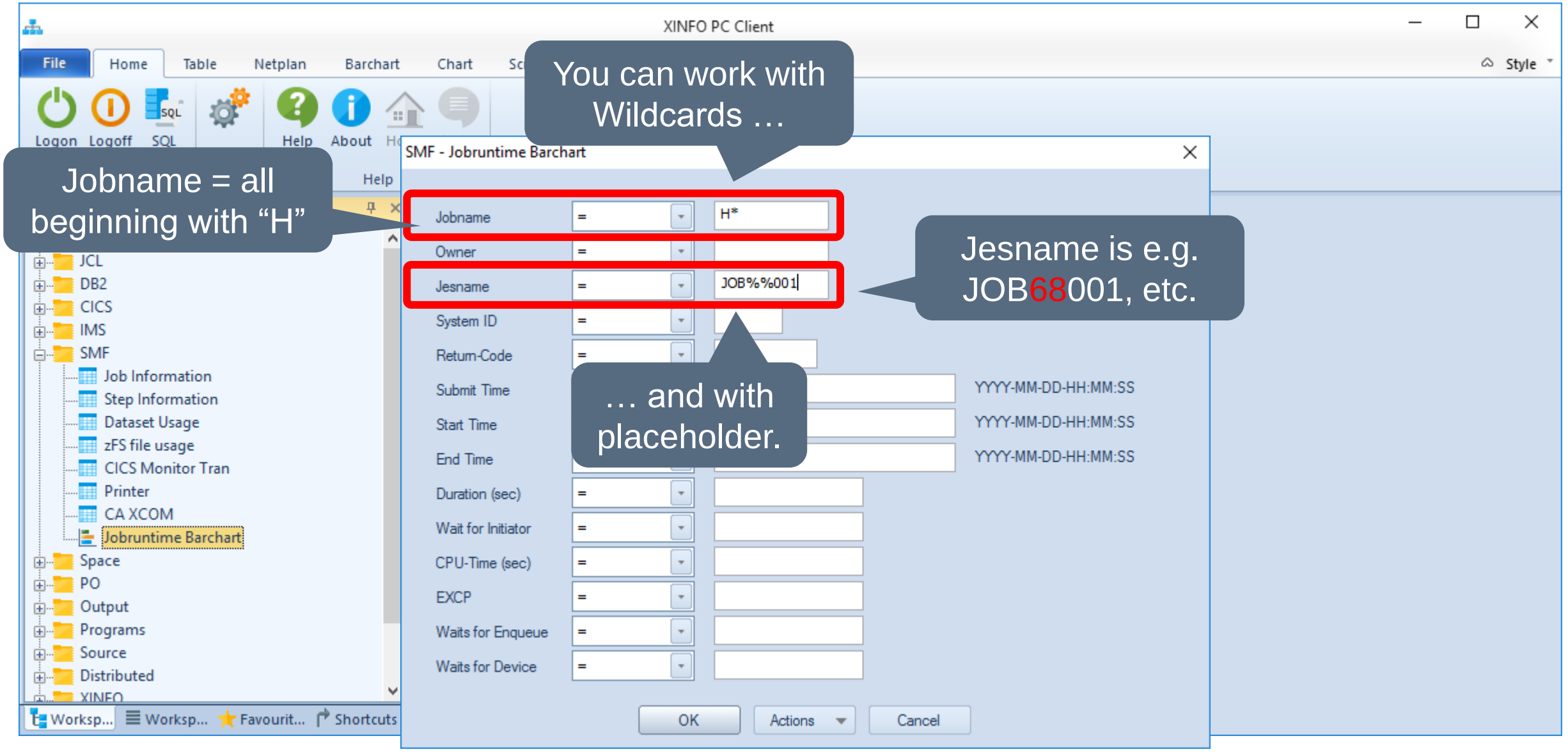
PC Client - NOT EMPTY



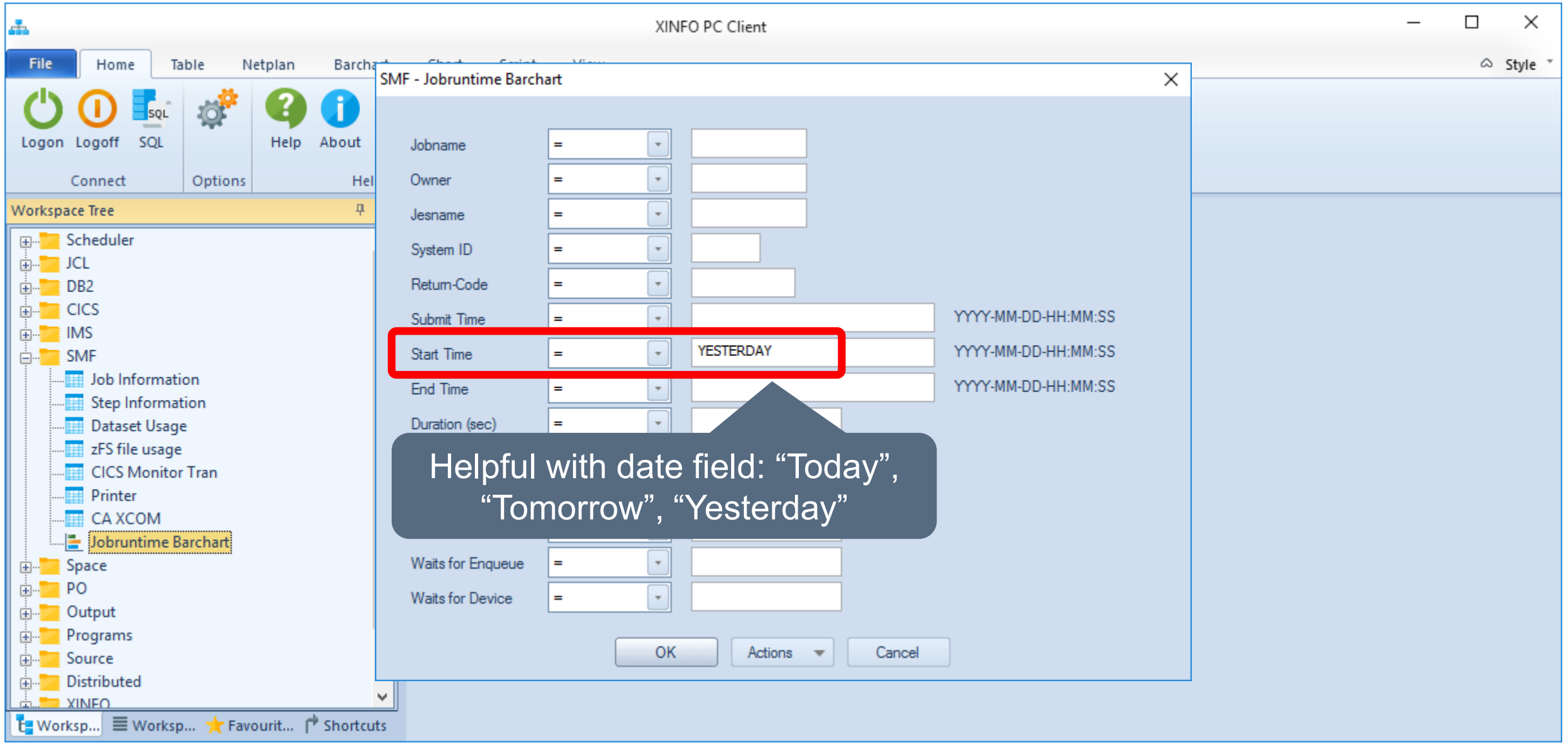
Comparison Operator OR (like command 99 in ISPF dialog)



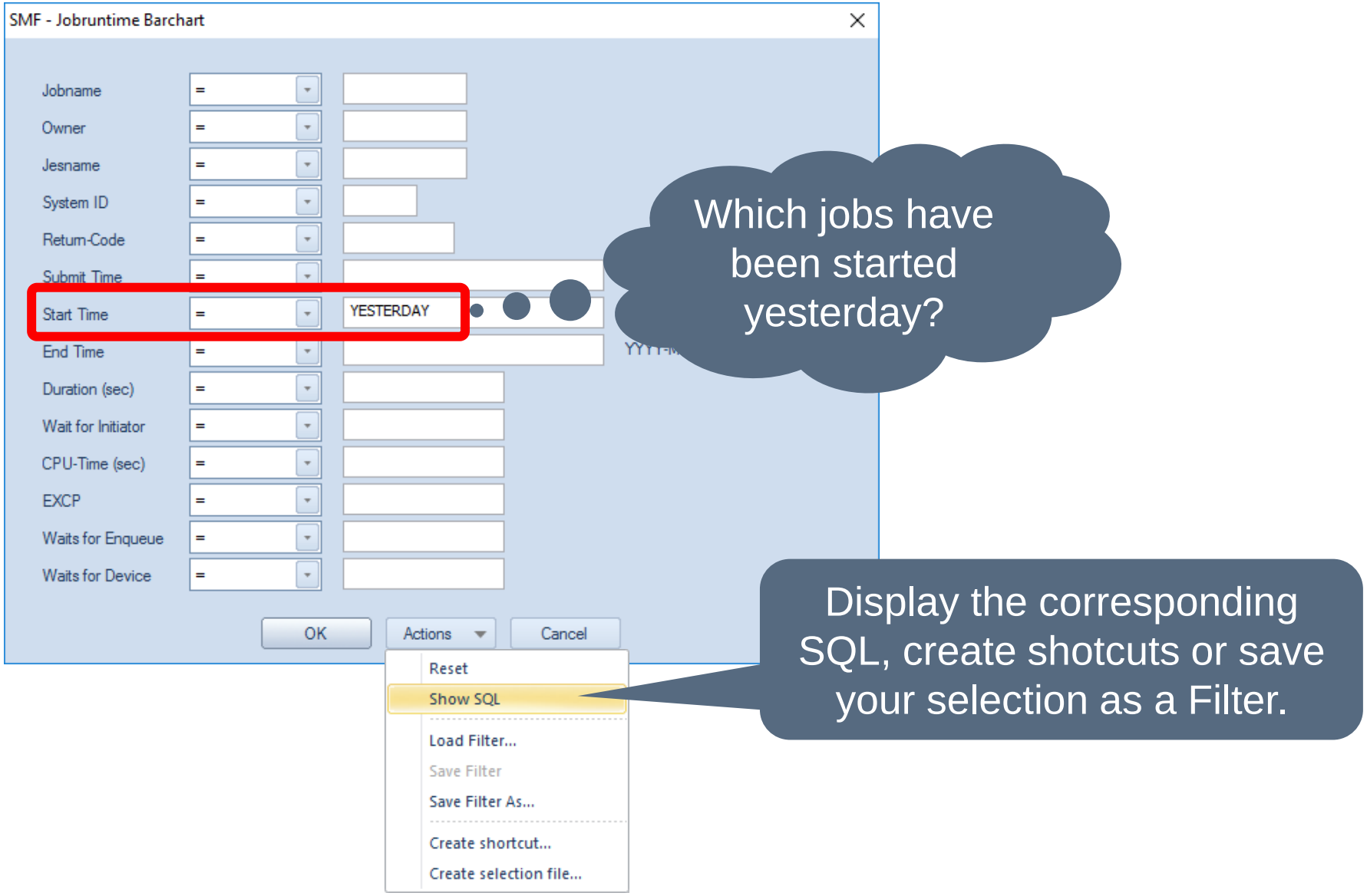
Selection Panel - Details & Tips (1)



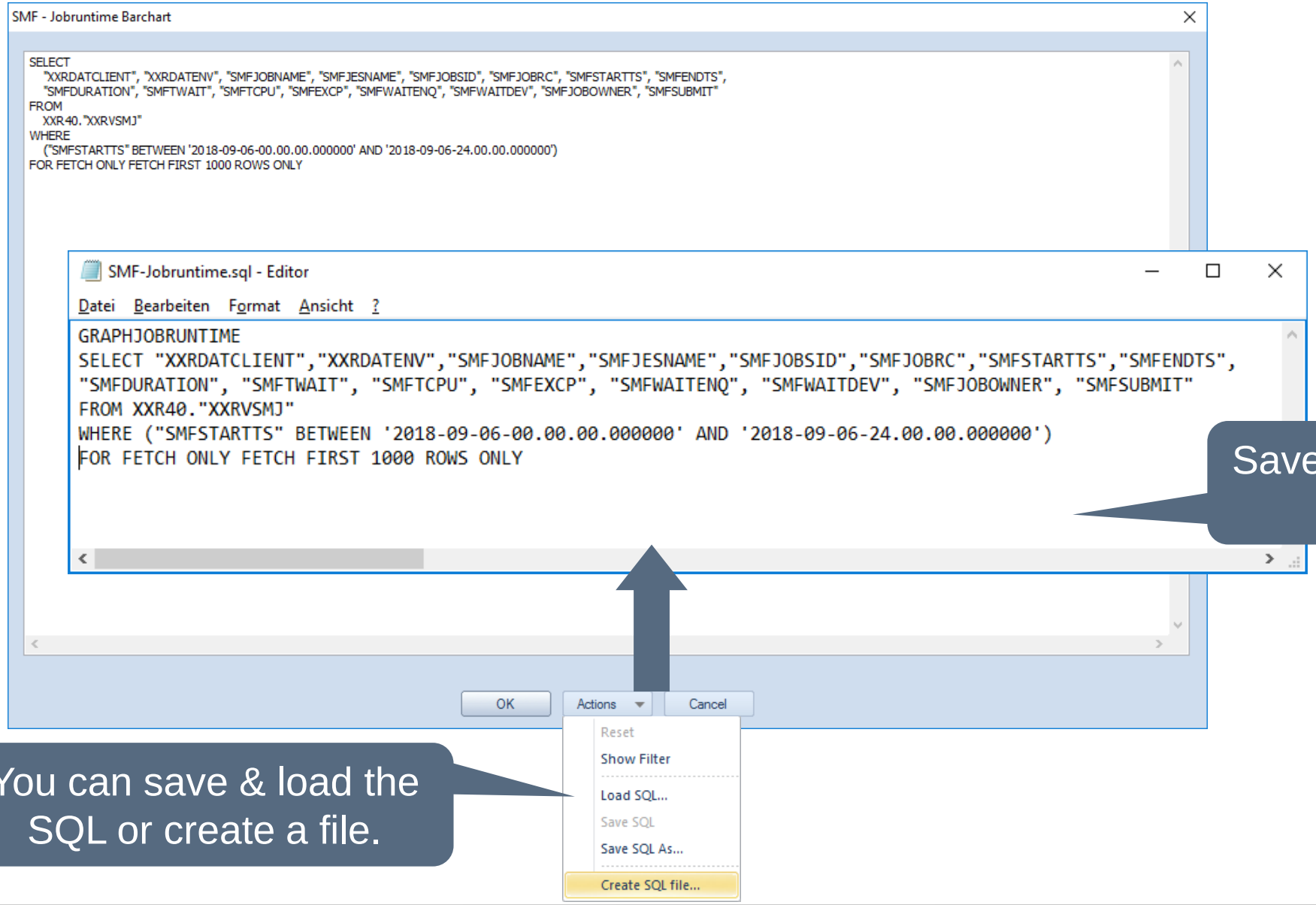
Selection Panel - Details & Tips (2)



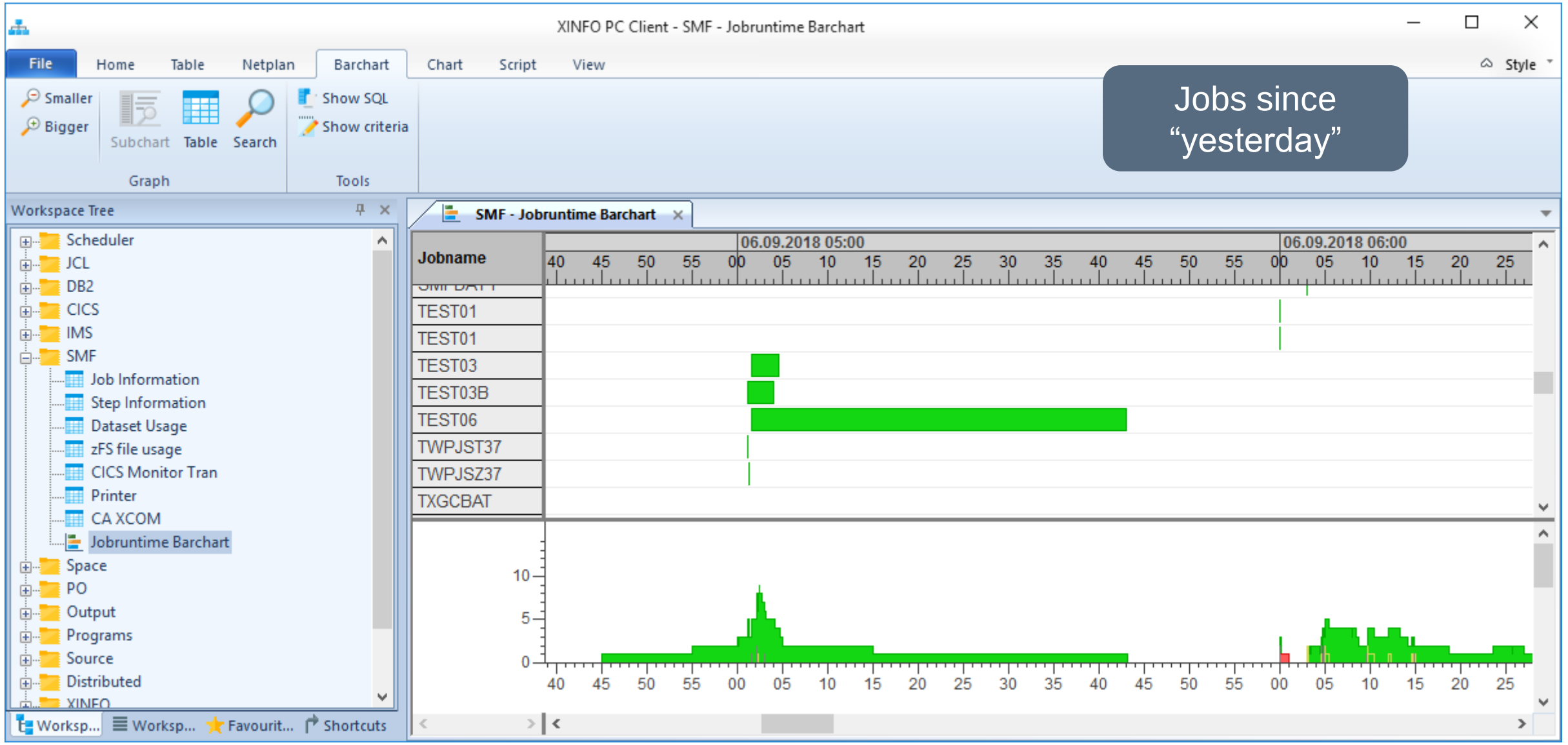
Selection Panel - Details & Tips (3)



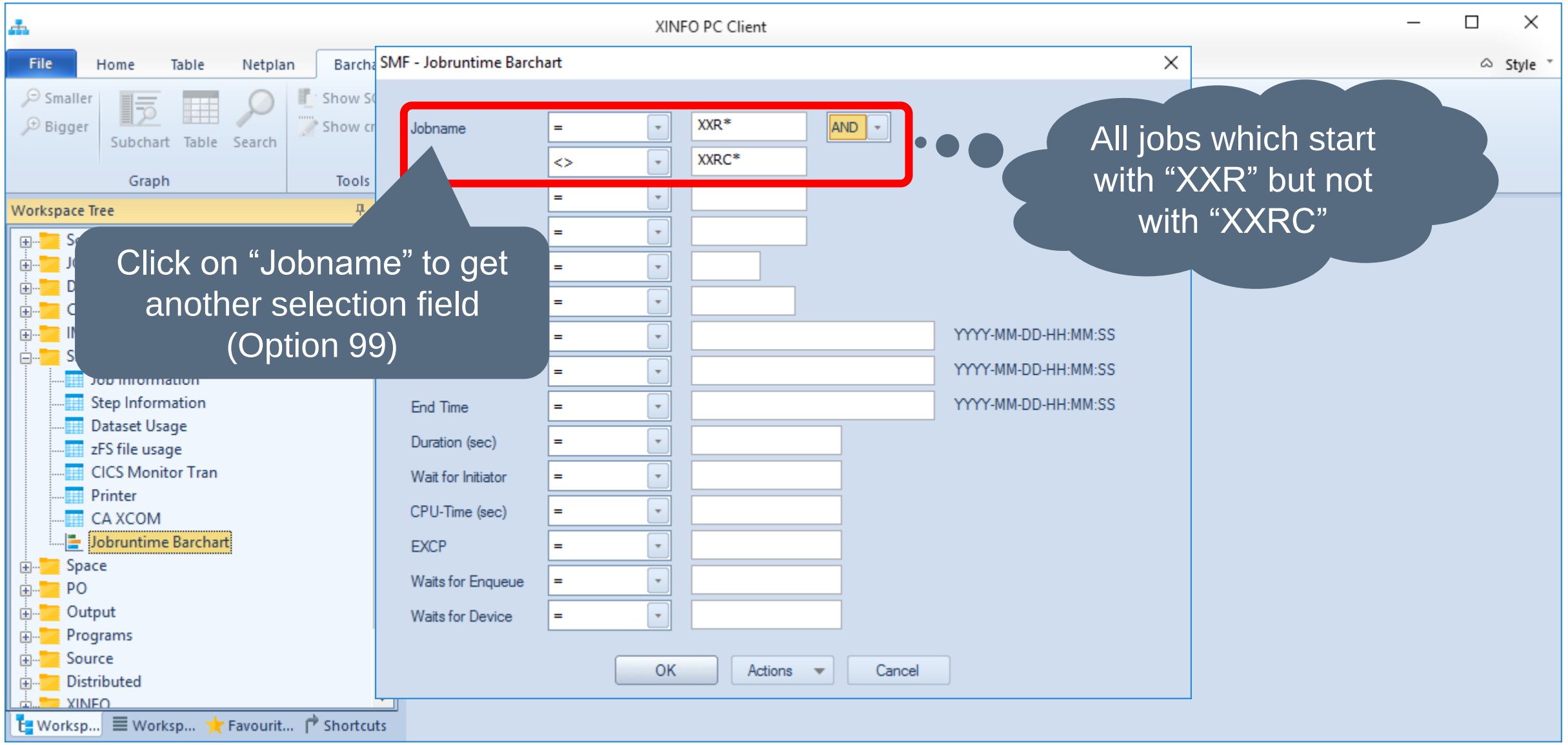
Selection Panel - Details & Tips (4)



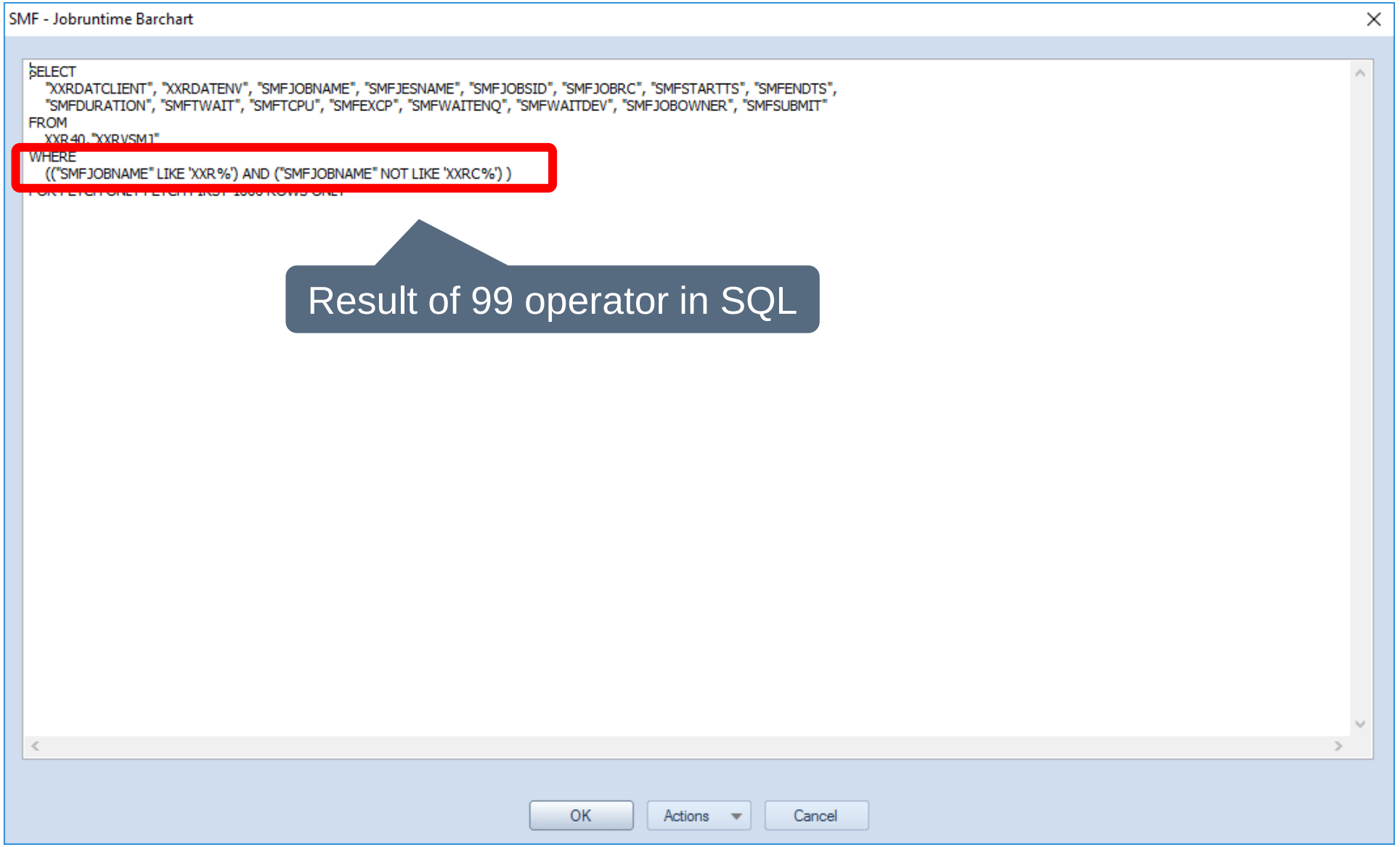
Selection Panel - Details & Tips (5)



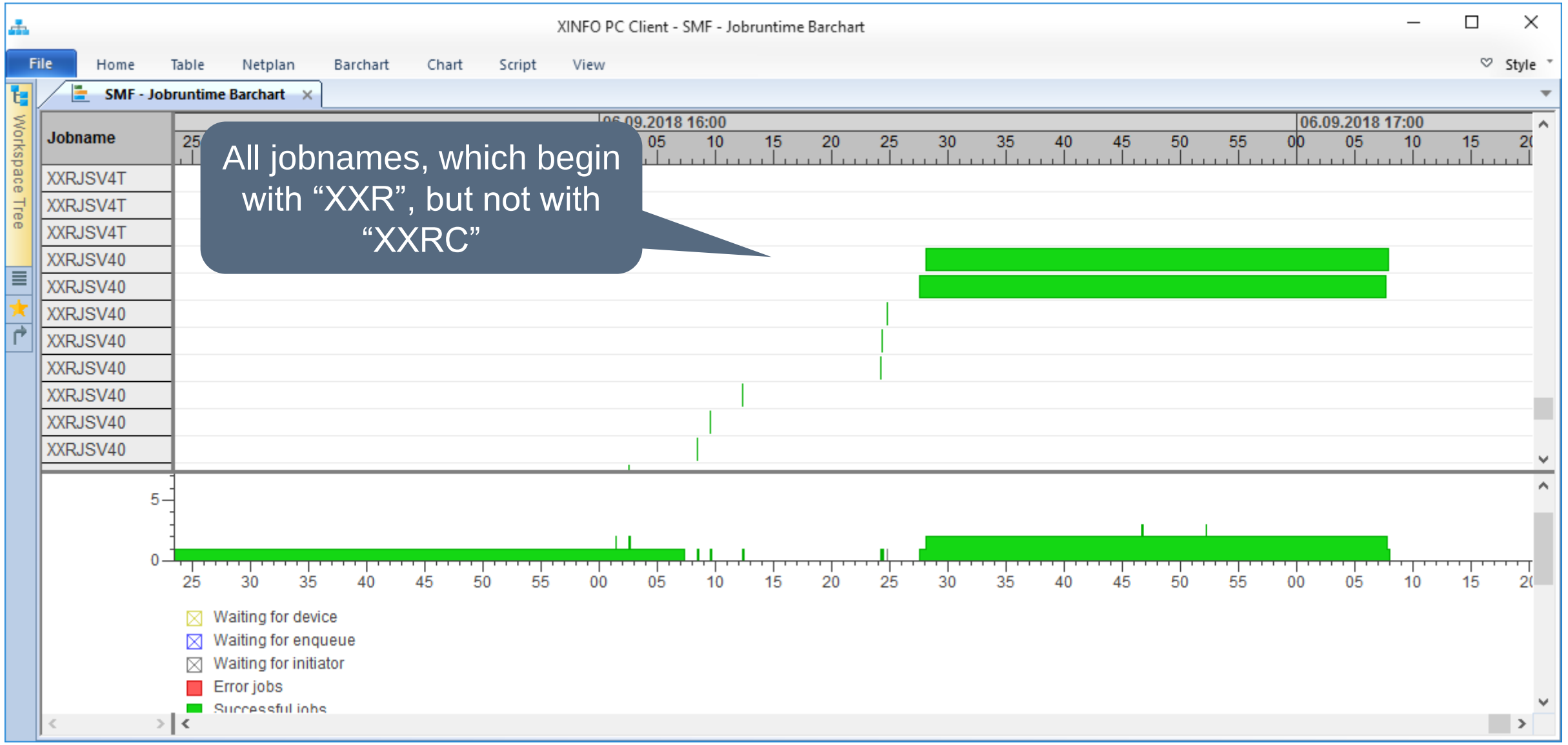
Selection Panel - Details & Tips (6)



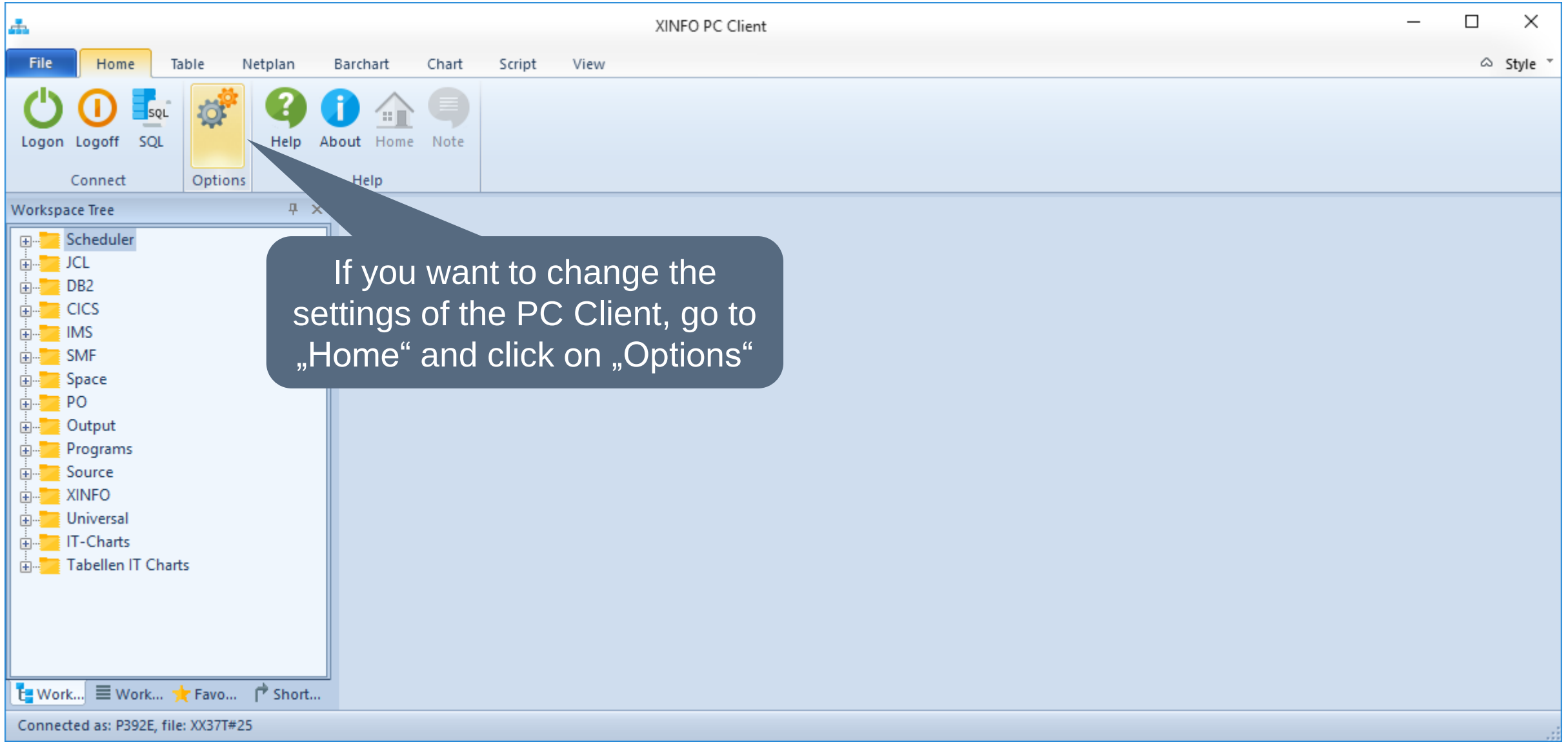
Selection Panel - Details & Tips (7)



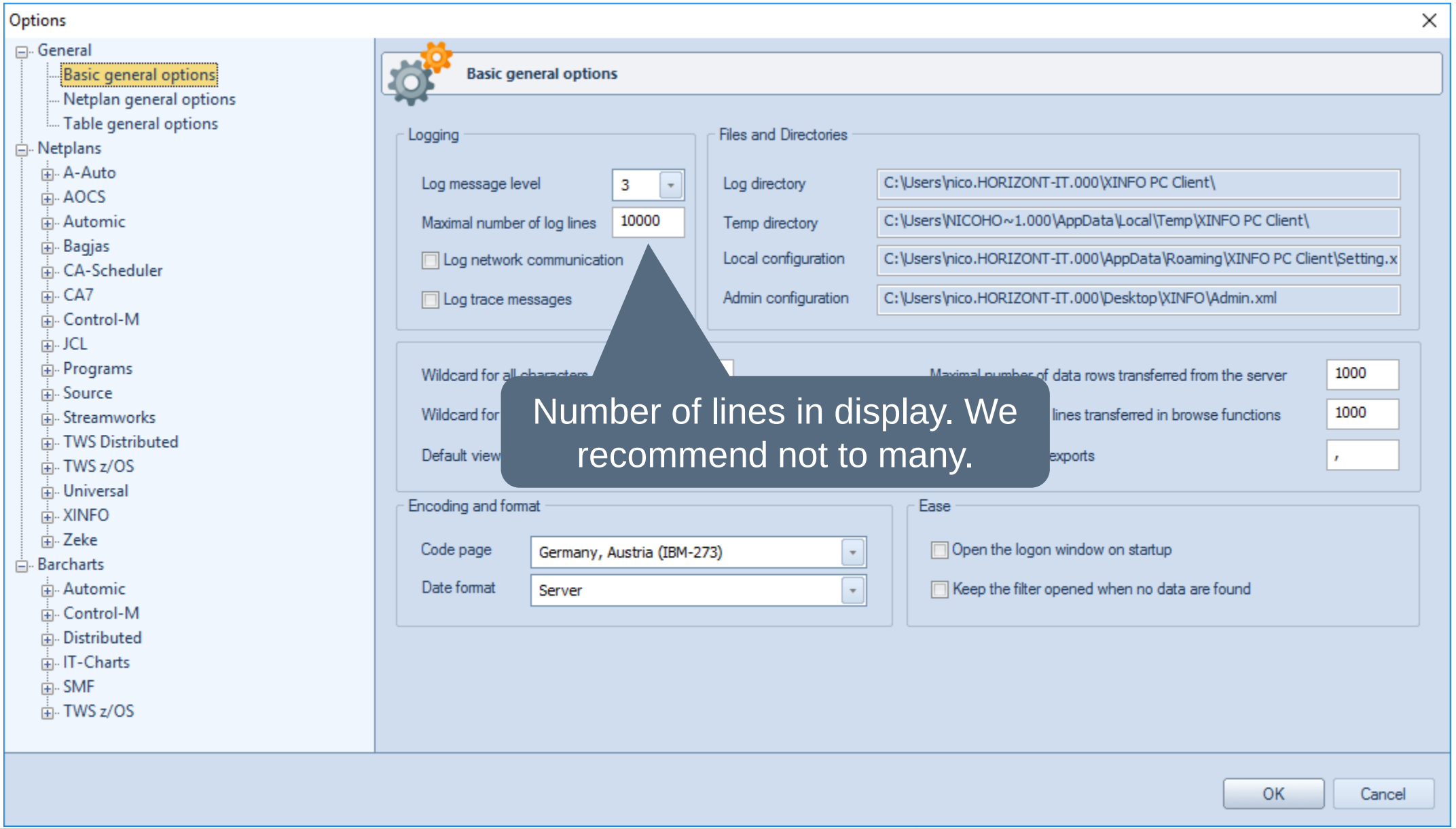
Selection Panel - Details & Tips (8)



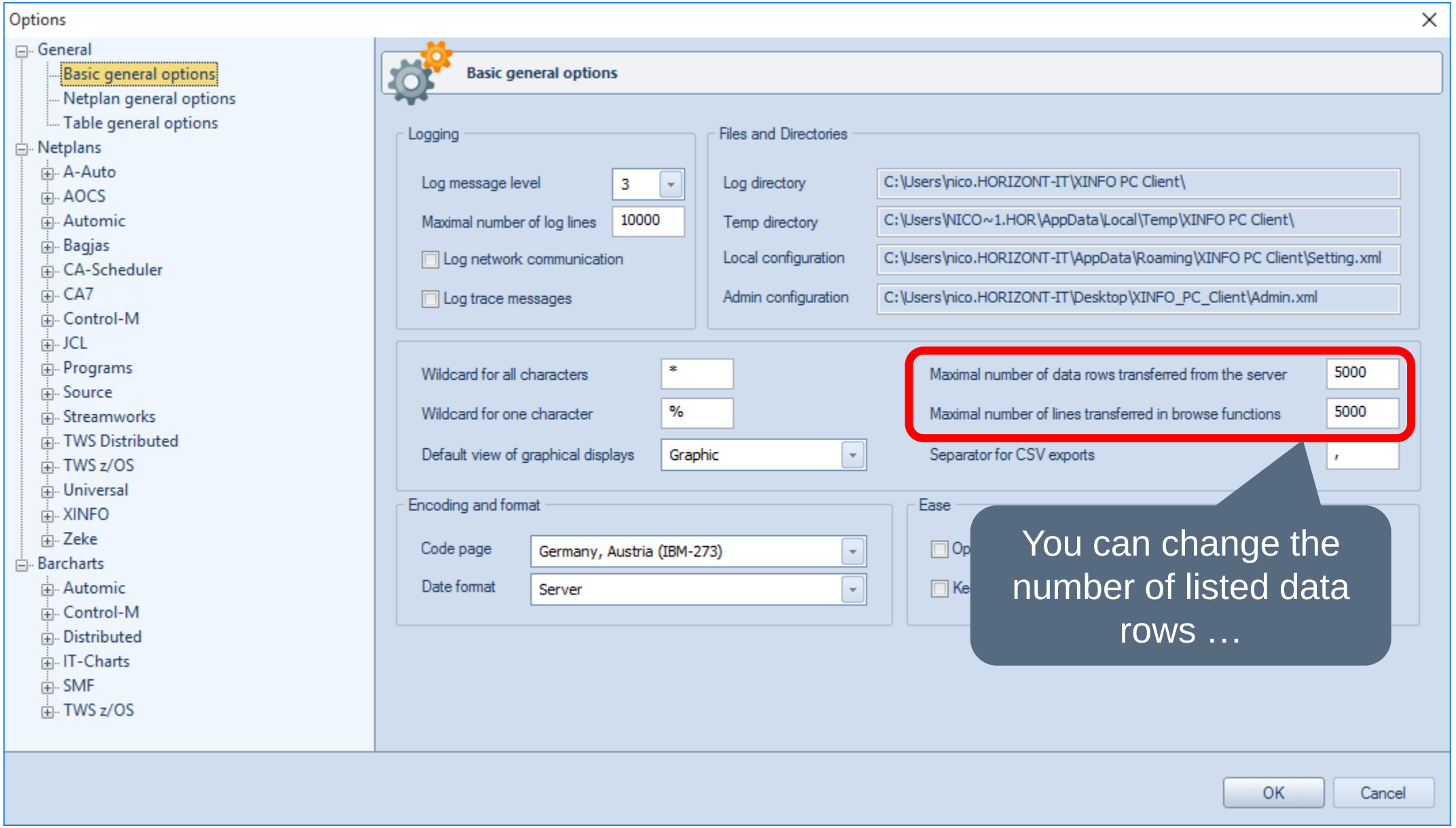
PC Client - Options



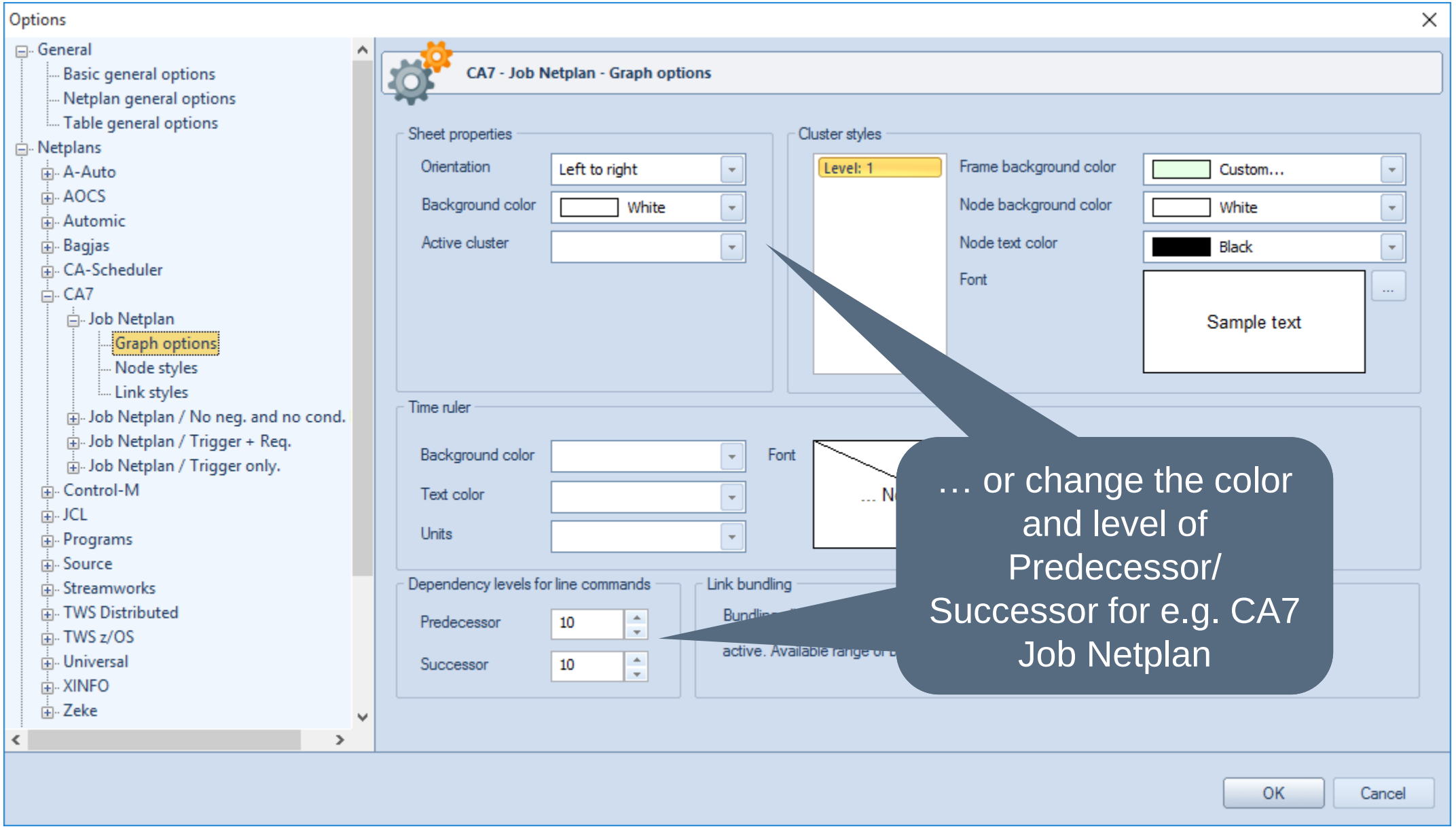
PC Client - General Options (2)



PC Client - Options

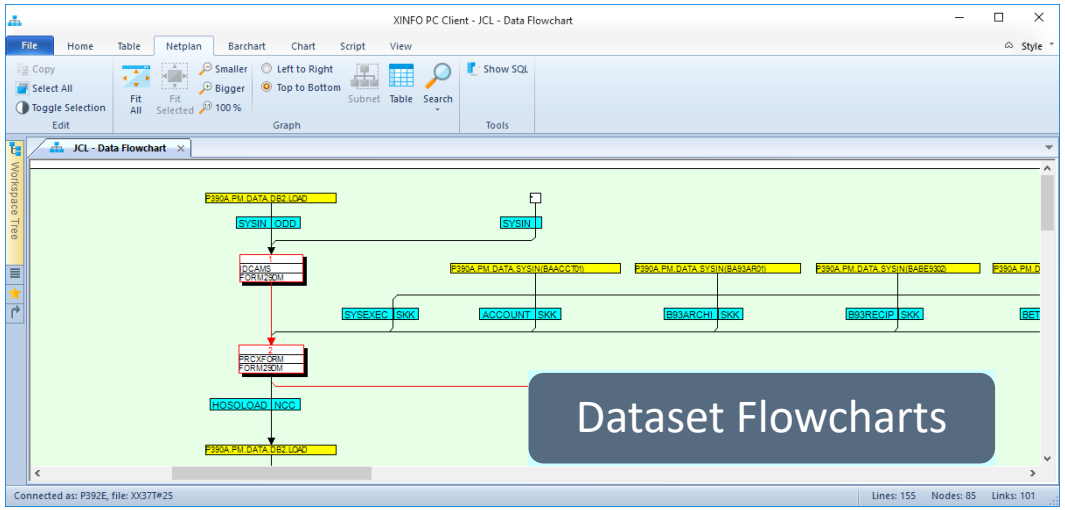


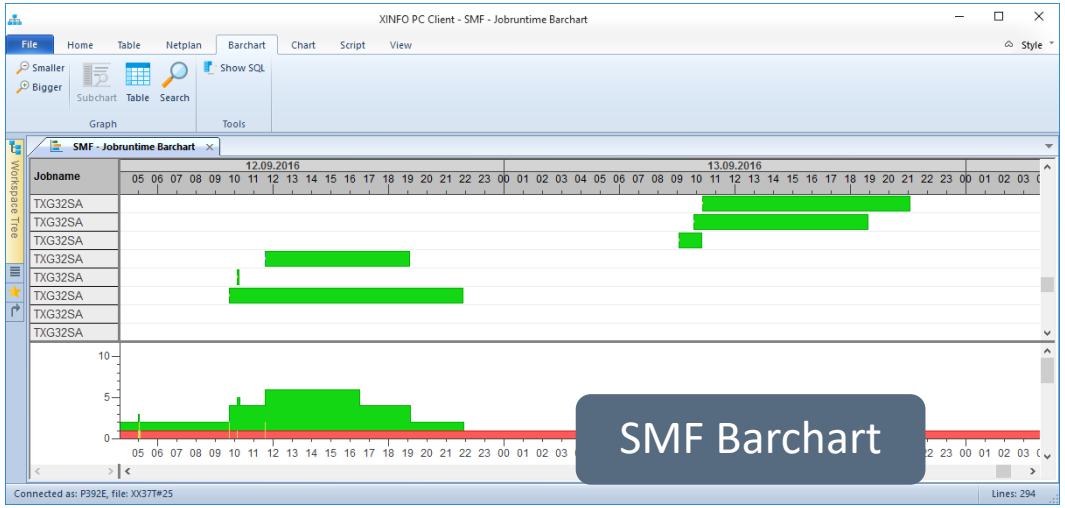
PC Client - Options

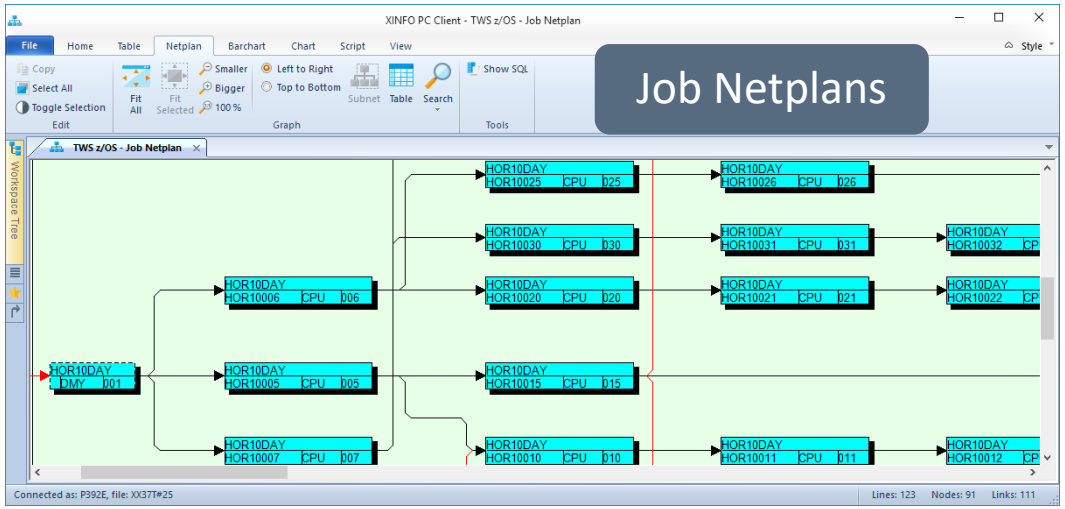


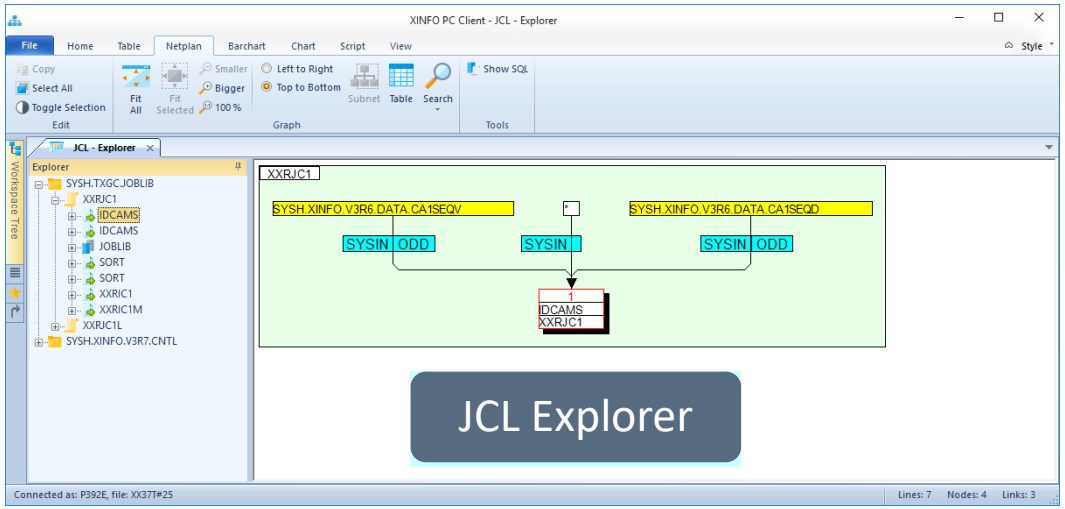
PC Client - Graphics

The XINFO client enables you to create Graphics:





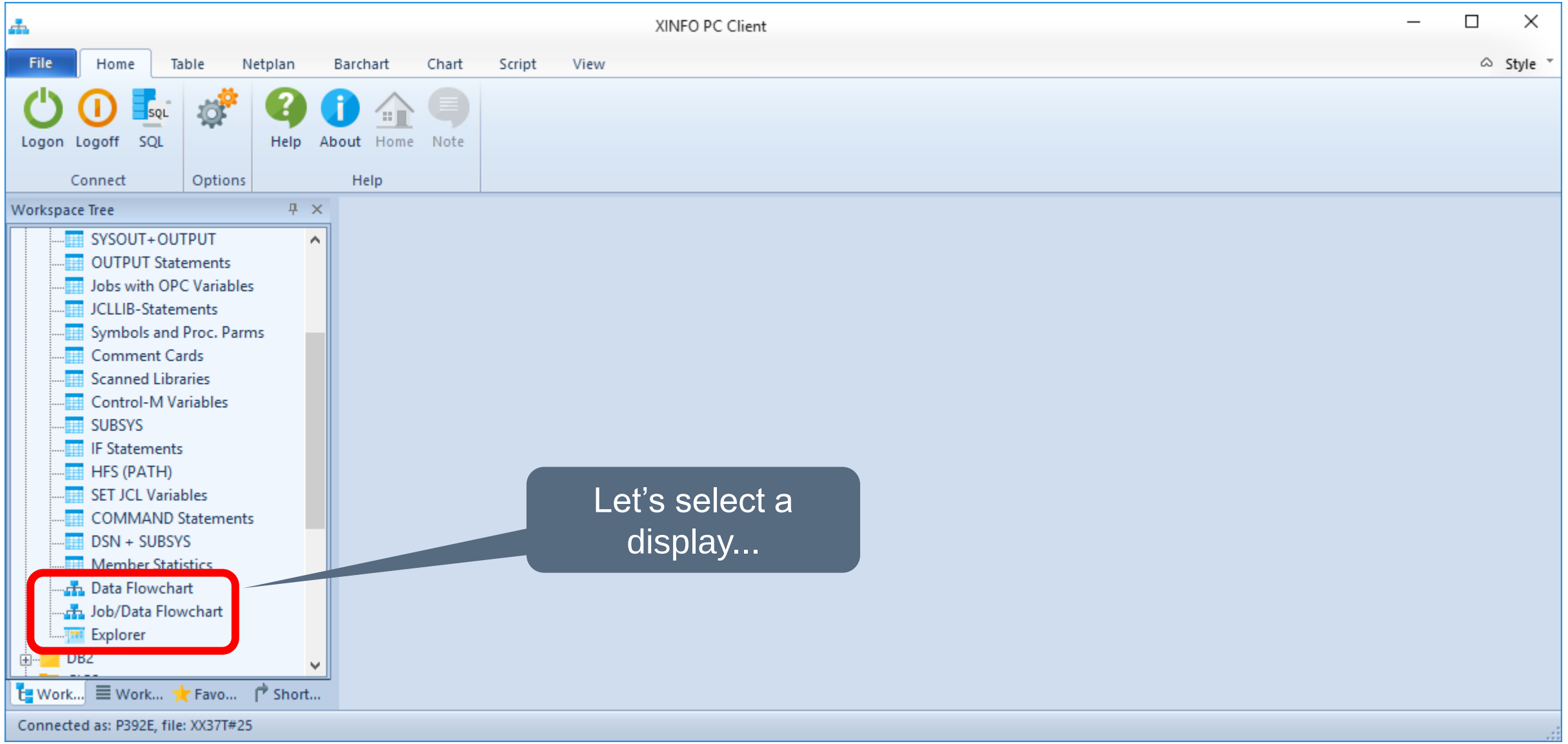




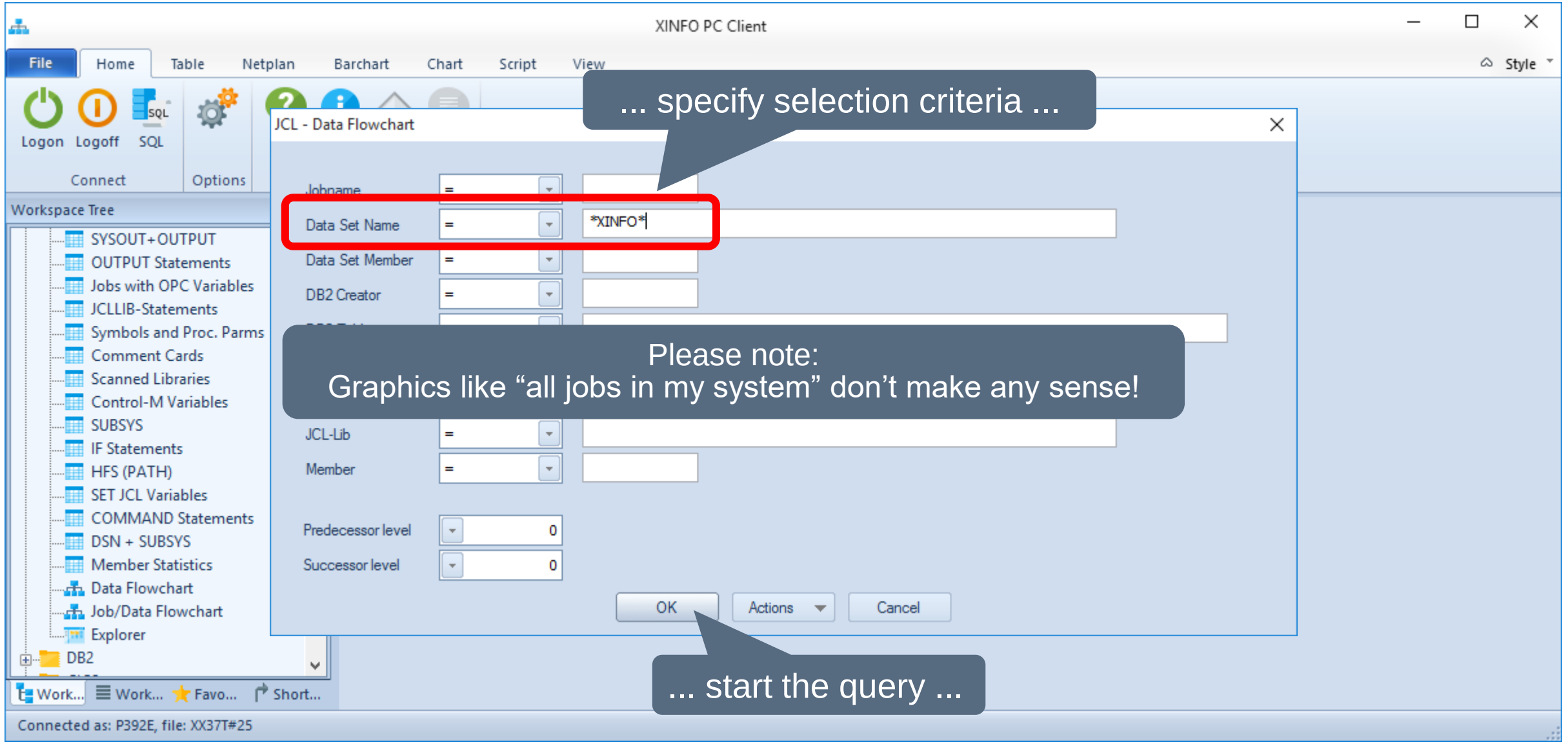
PC Client - Graphics

- Graphic Displays
- Selection Criteria
- Print Graphics
- Dataset Flowchart
- Job Netplan
- JCL Explorer
- SMF Barchart
- More client functions …

PC Client - Graphic Displays

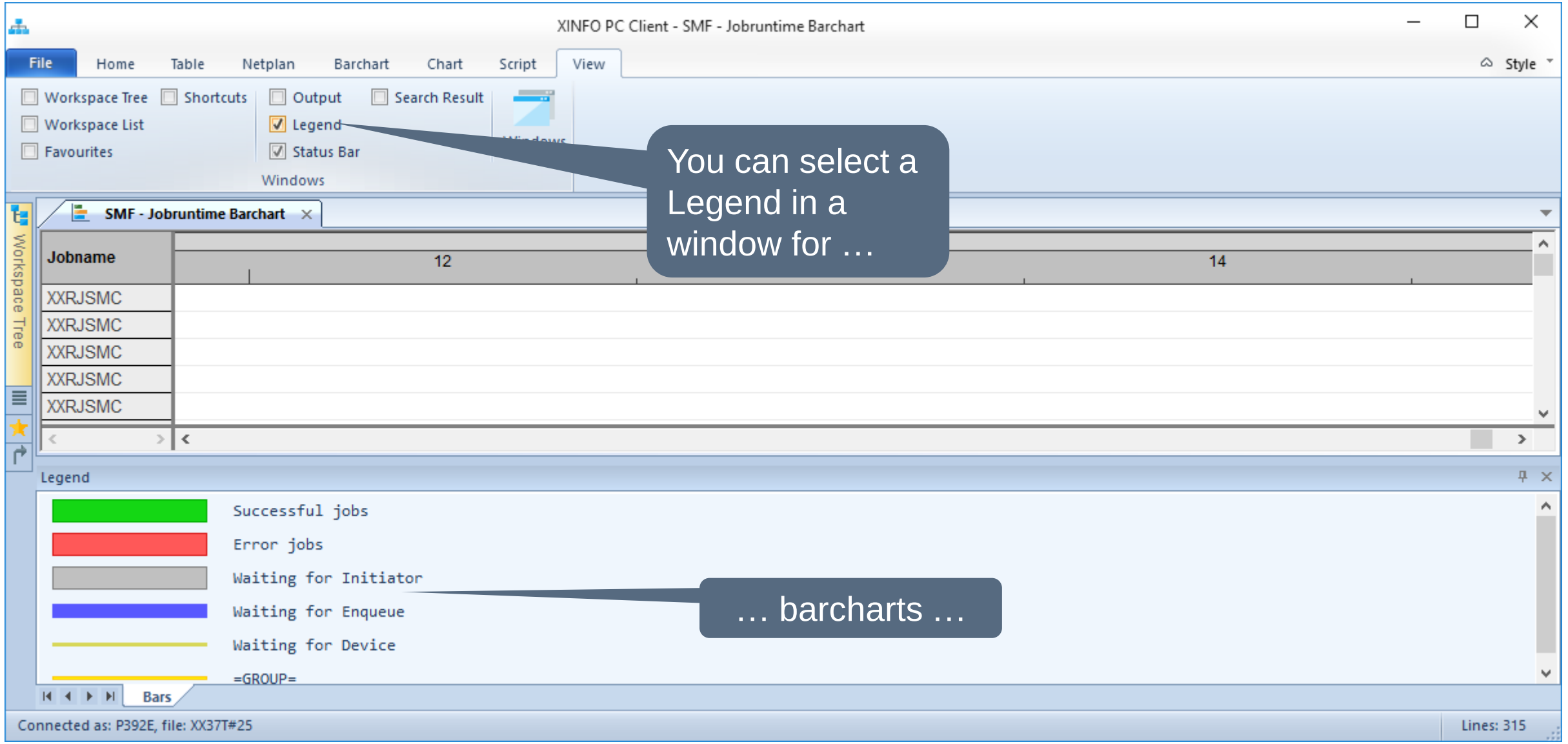


PC Client - Selection Criteria

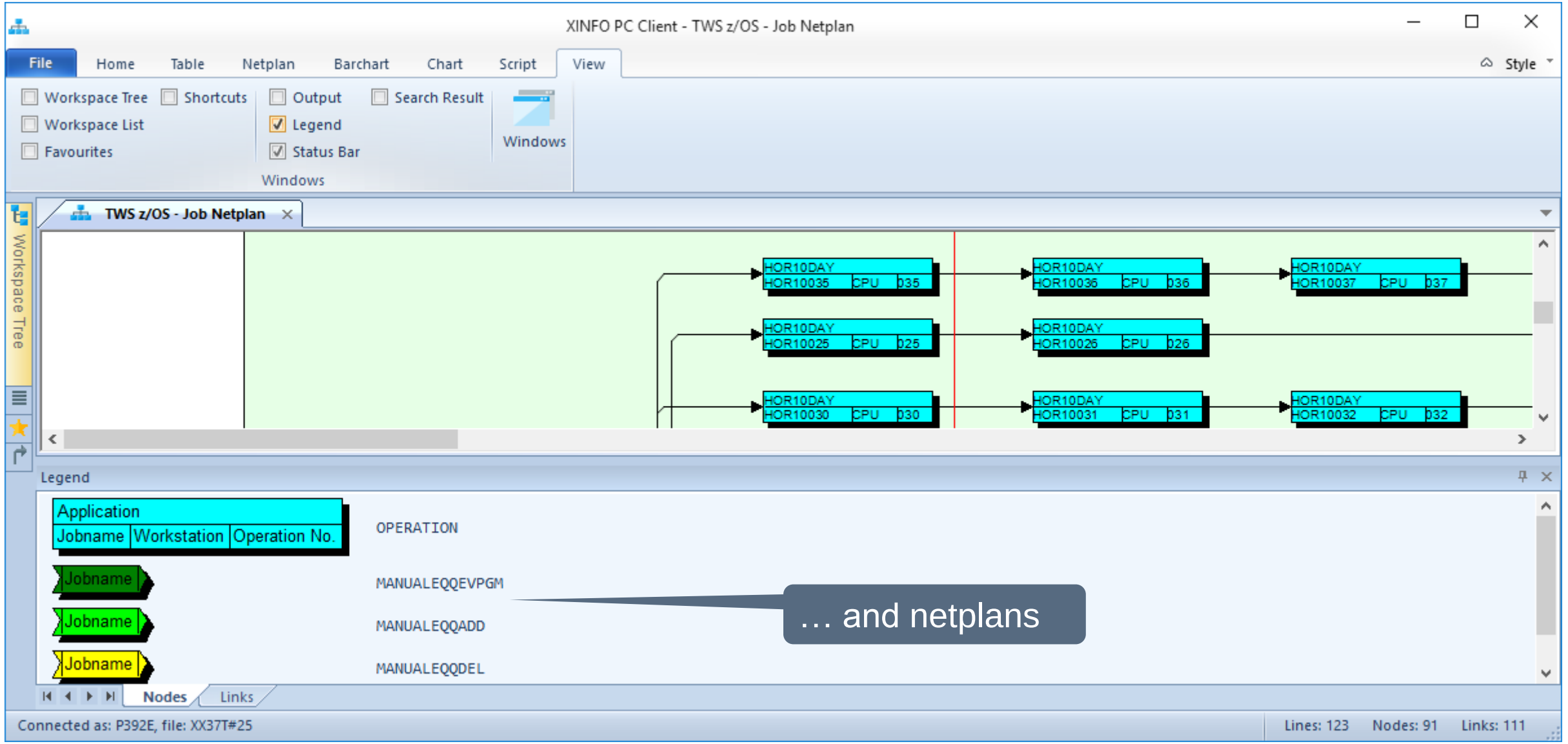


PC Client - Resulting Graphics

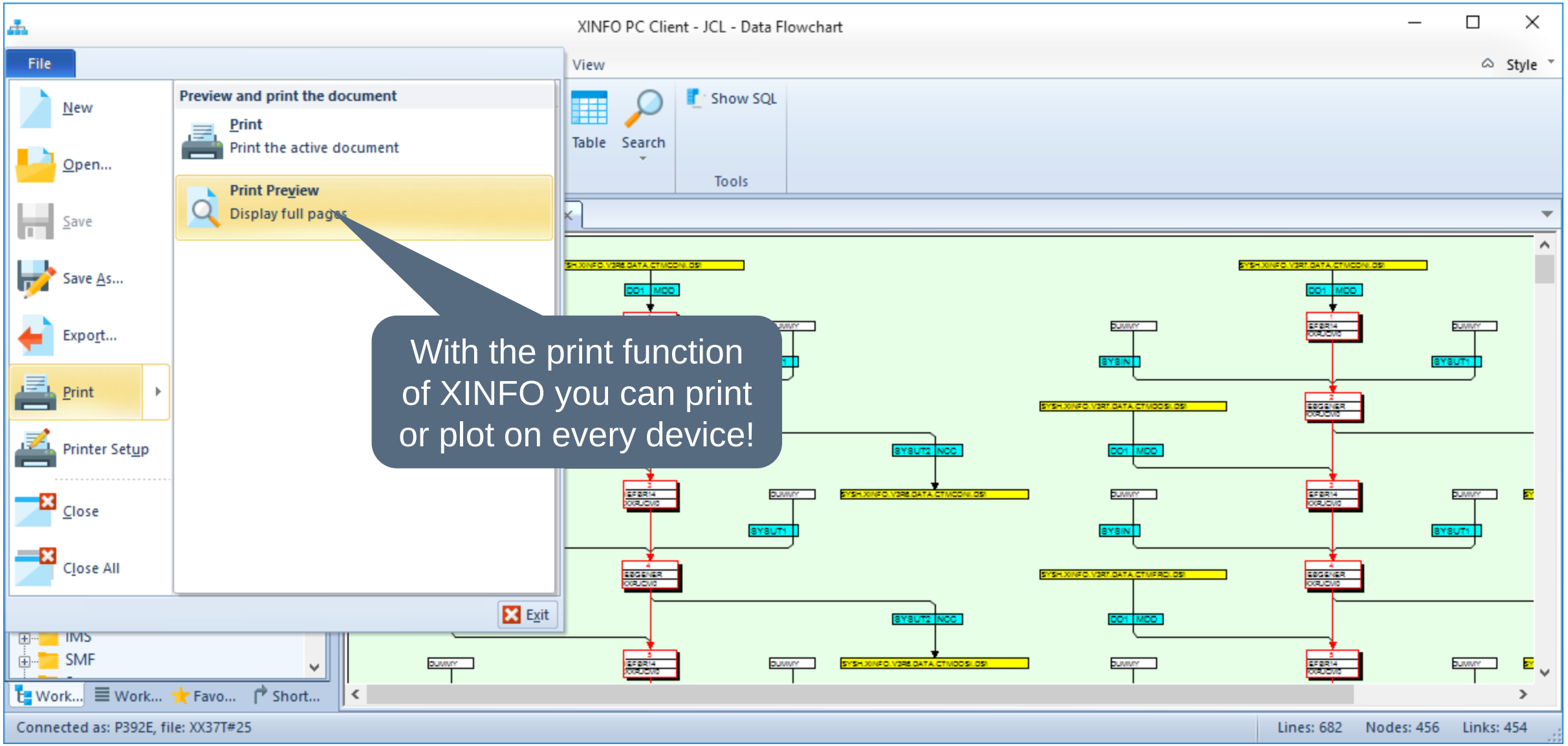
PC Client - Legend



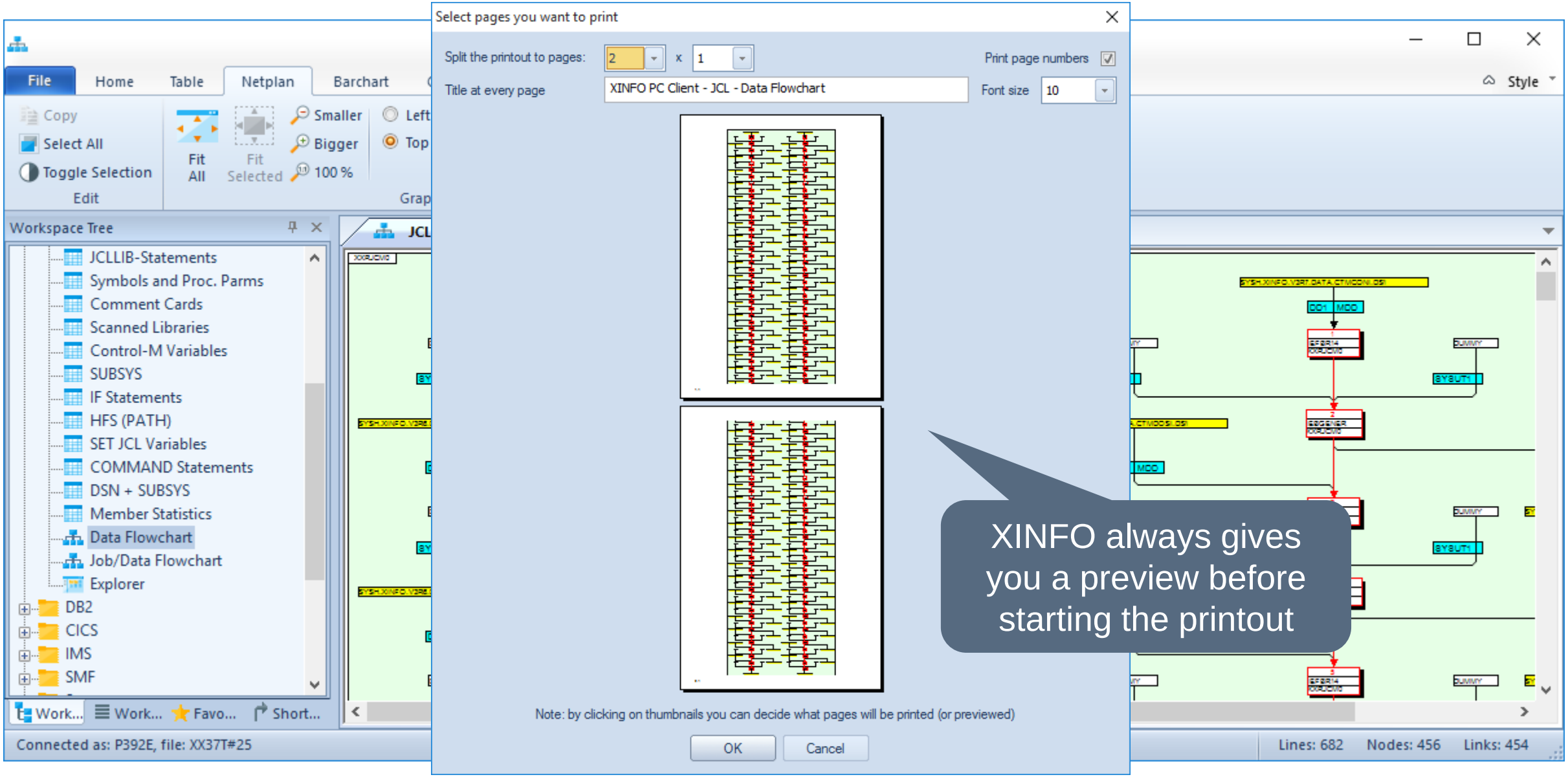
PC Client - Legend



PC Client - Print Graphics



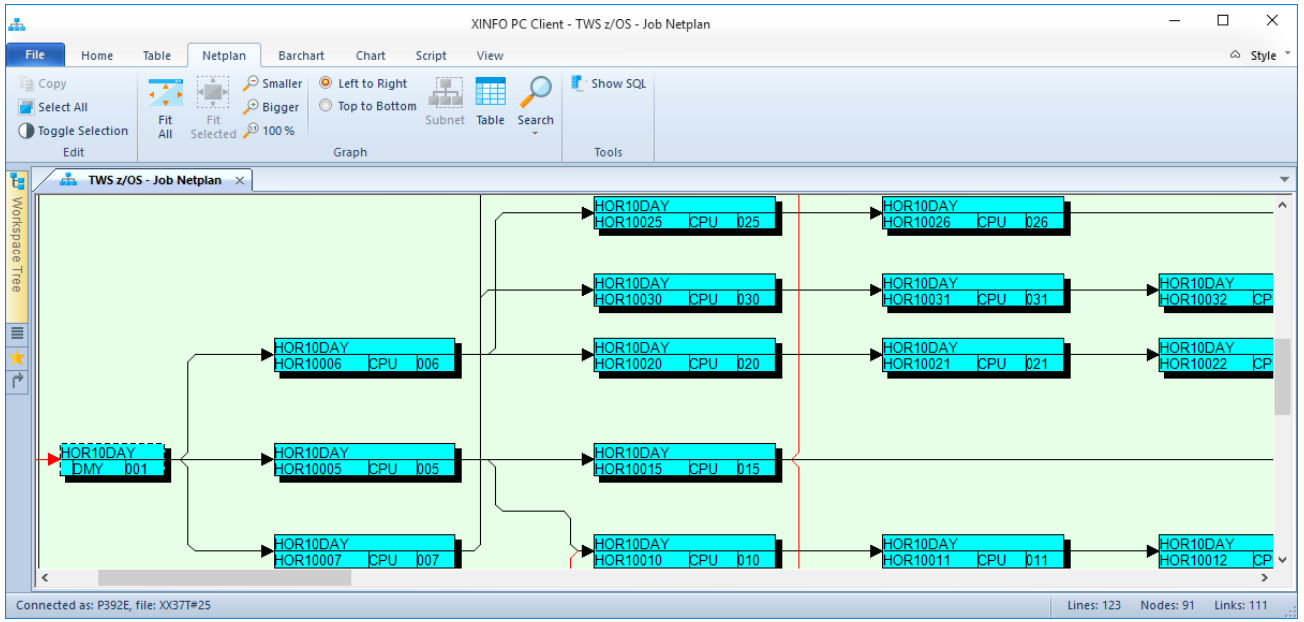
PC Client - Print Graphics



PC Client - Job netplan

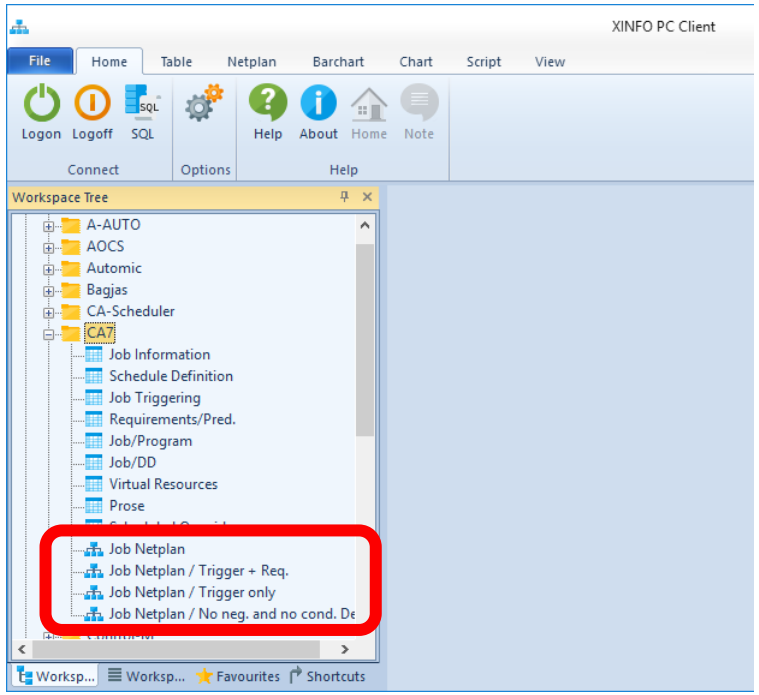
A Job Netplan displays the Jobs which are defined in the Scheduler (IWS, CA7, IWS …) graphically:

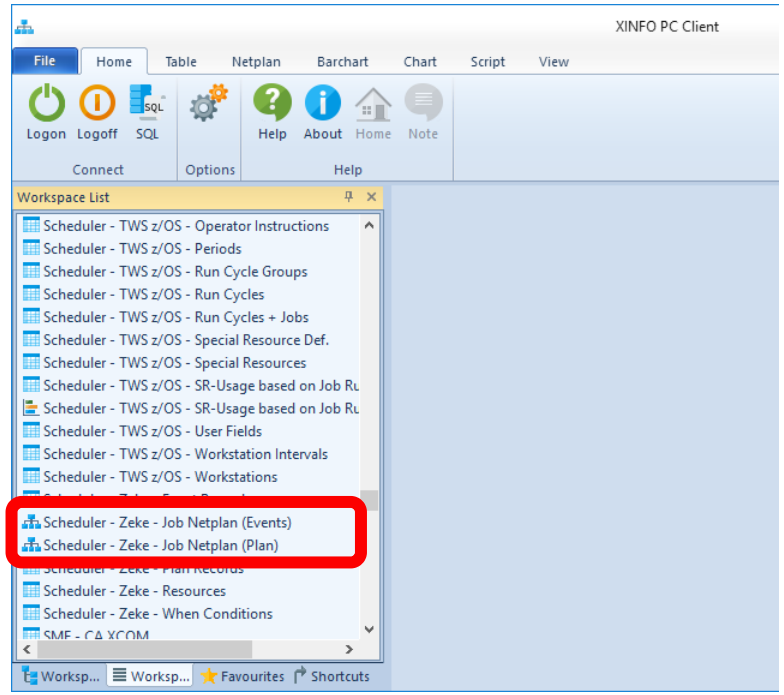
- Jobs
- Predecessors
- Successors
- Trigger (CA7)
- Conditions (Control-M, Zeke)
- Datasets (CA7, Zeke, IWS)
- Prompts (IWS)



PC Client - Job netplan

- Job netplans can be created through different ways
  - Over the Workspace list
  - or over Menu Scheduler, Submenu of your scheduling system and submenu job netplan

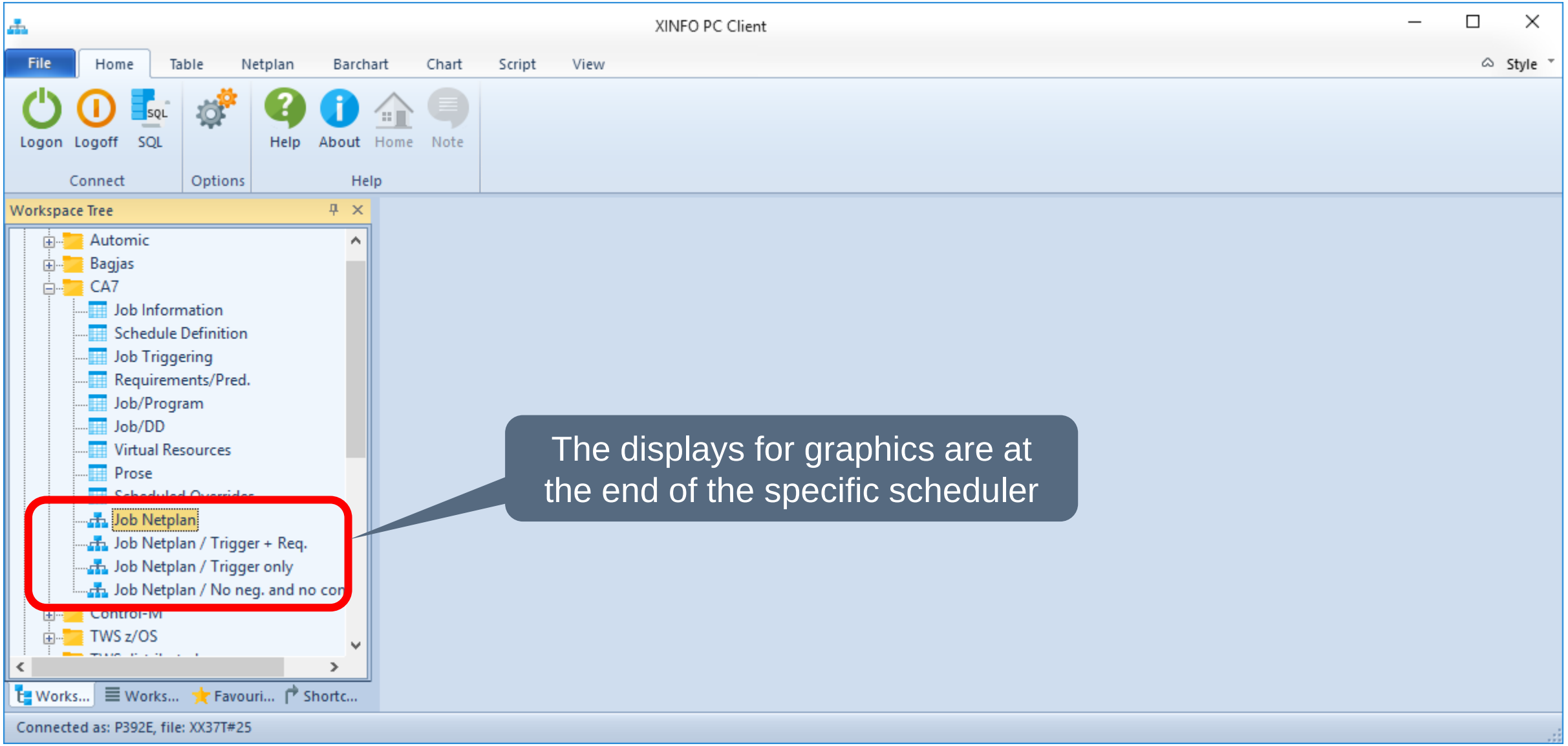




PC Client - Netplan innovations

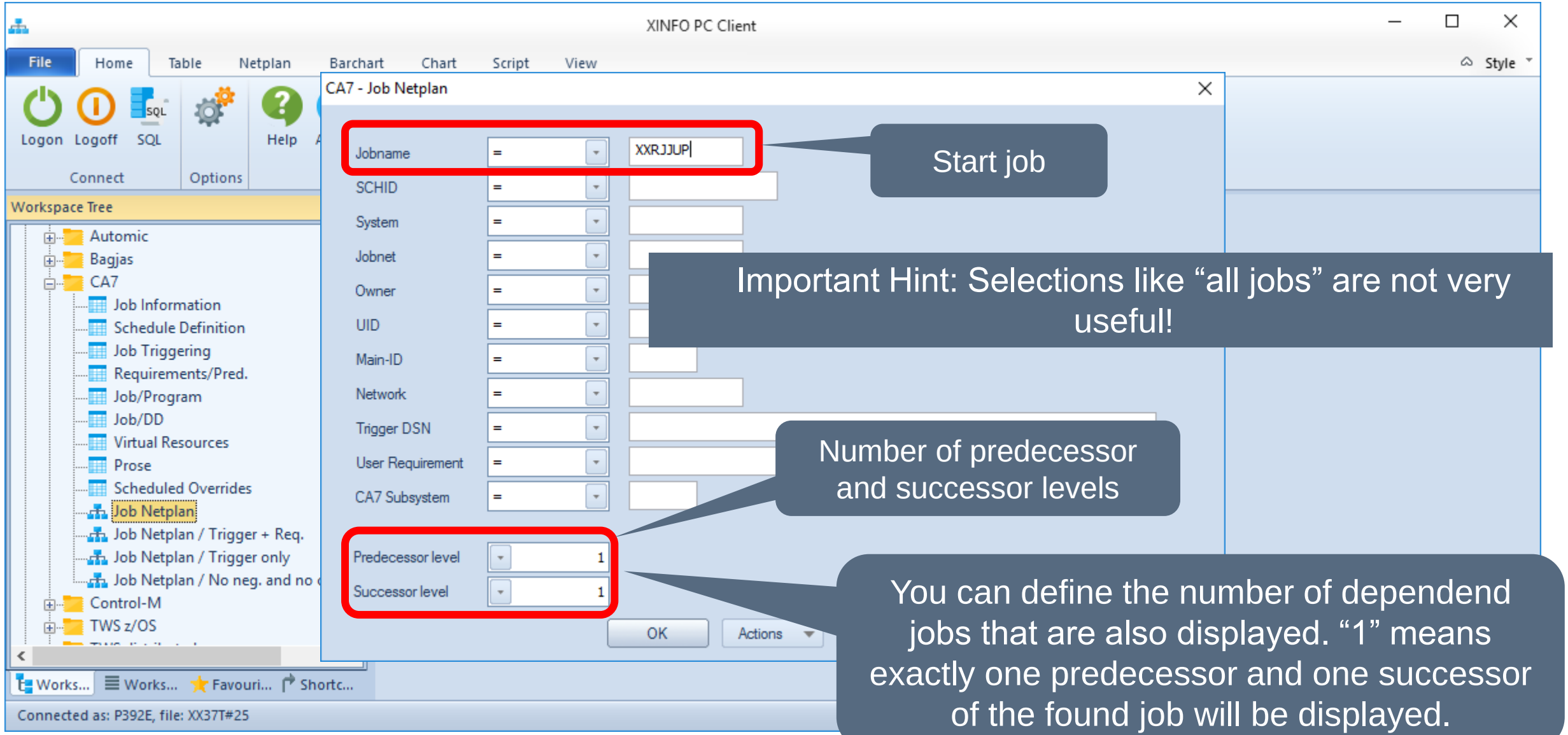
- Improved search for
  - loops
  - redundant links
  - critical path in netplan
- New search for outes between two nodes in netplan
- Performance improvements on netplan rendering
- Support nested clusters in netplans
- (Tooltips for netplan graphics
- Critical path time)

PC Client - Graphic Displays

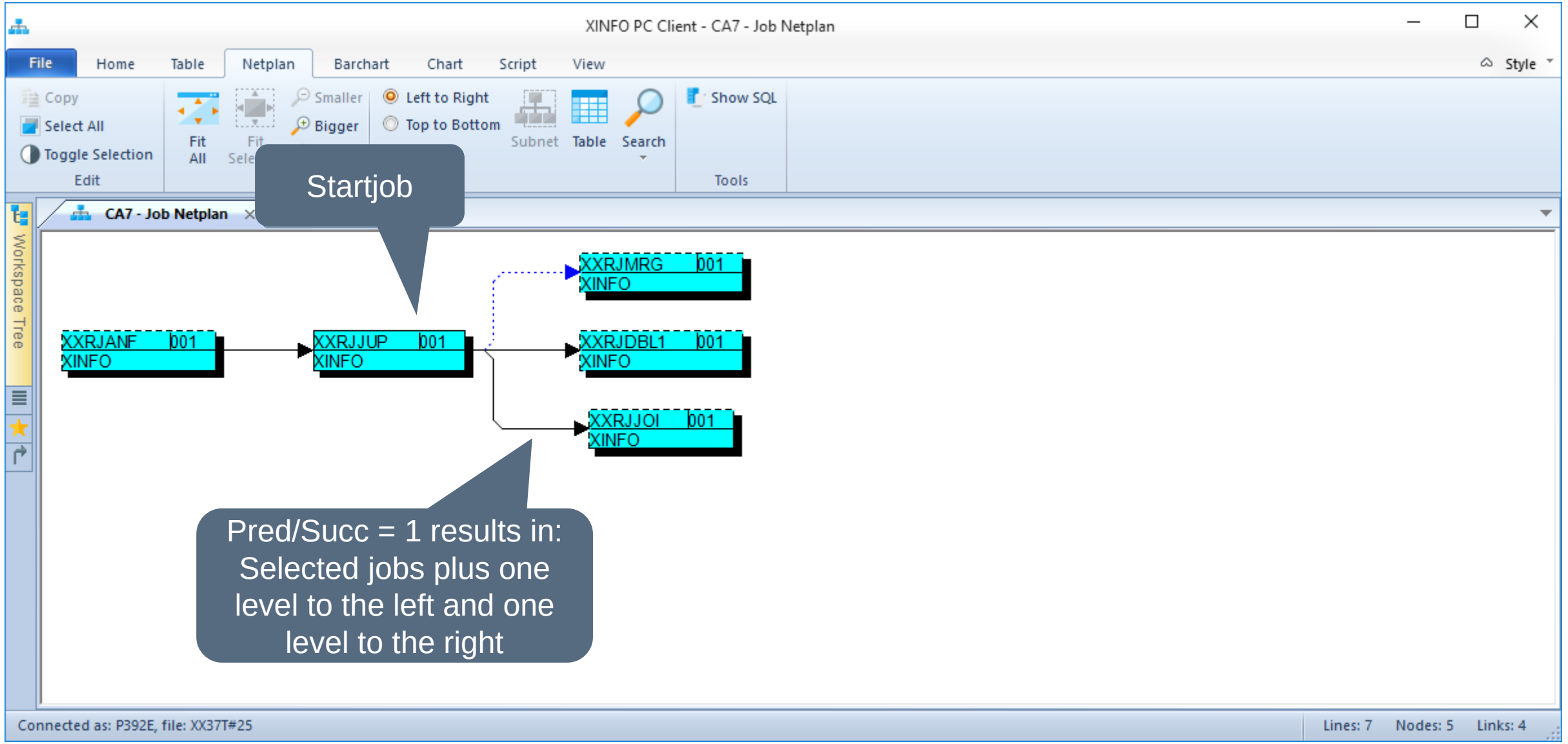


PC Client - Graphic Displays

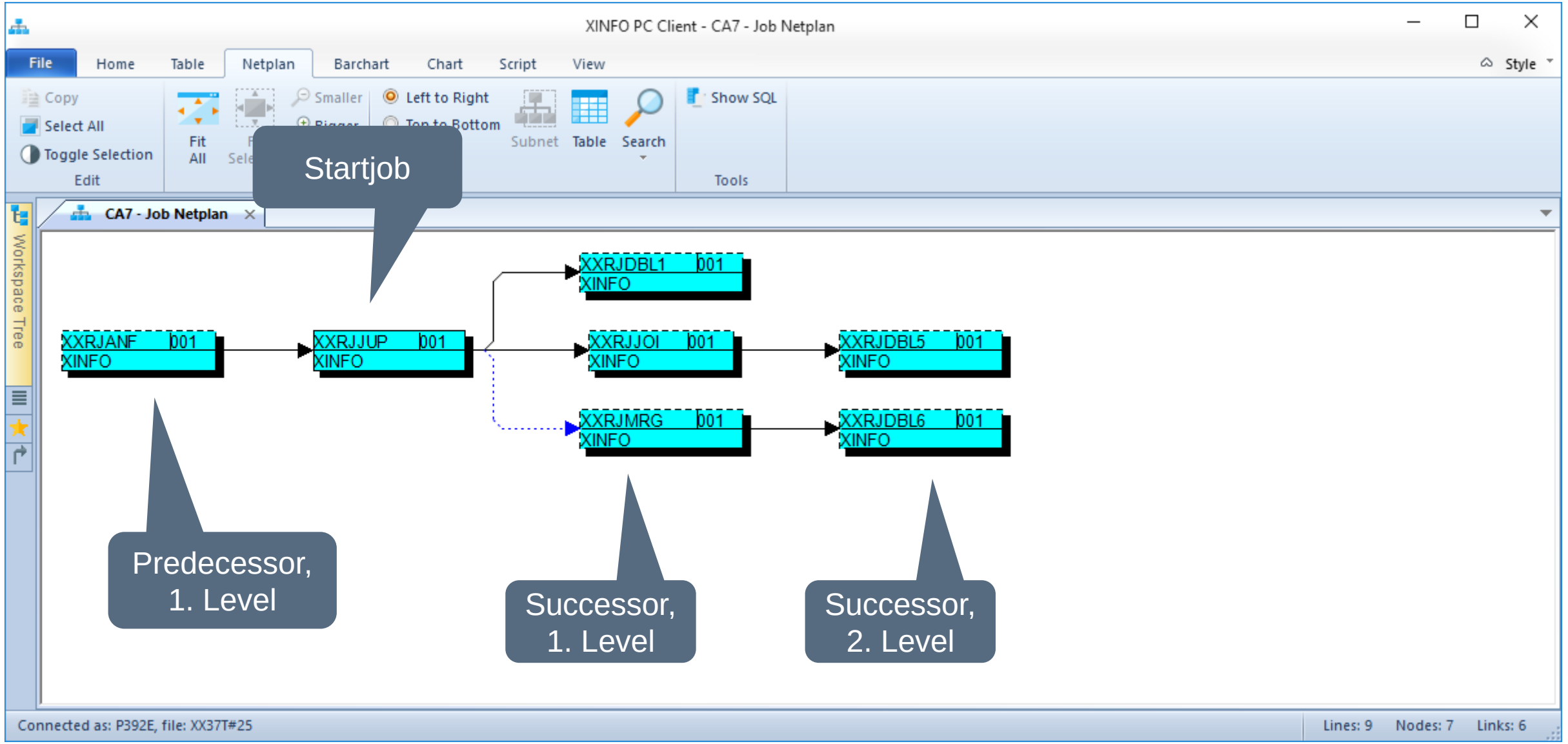
PC Client - Selection



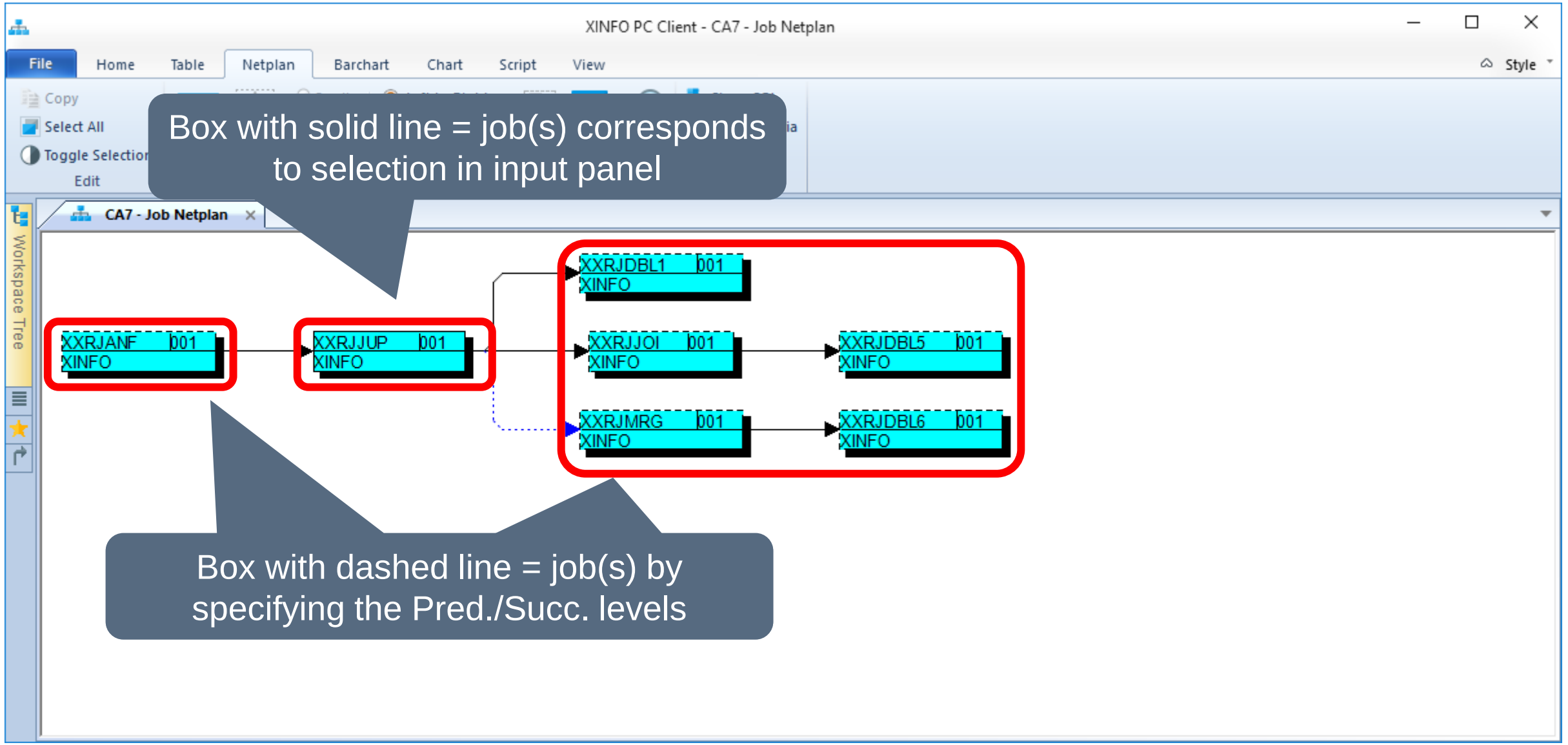
PC Client - Result for Pred/Succ = 1



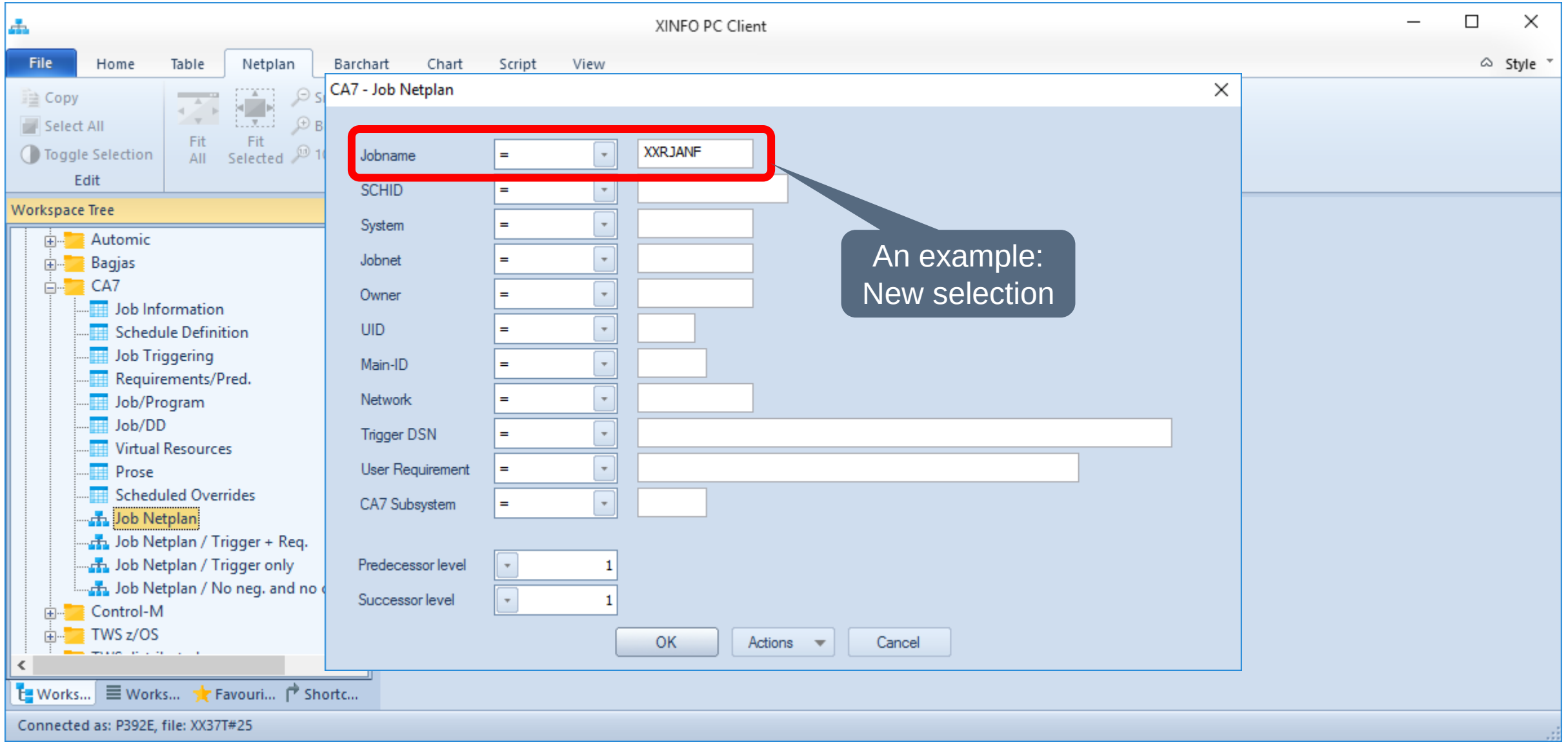
PC Client - Result Pred/Succ = 2



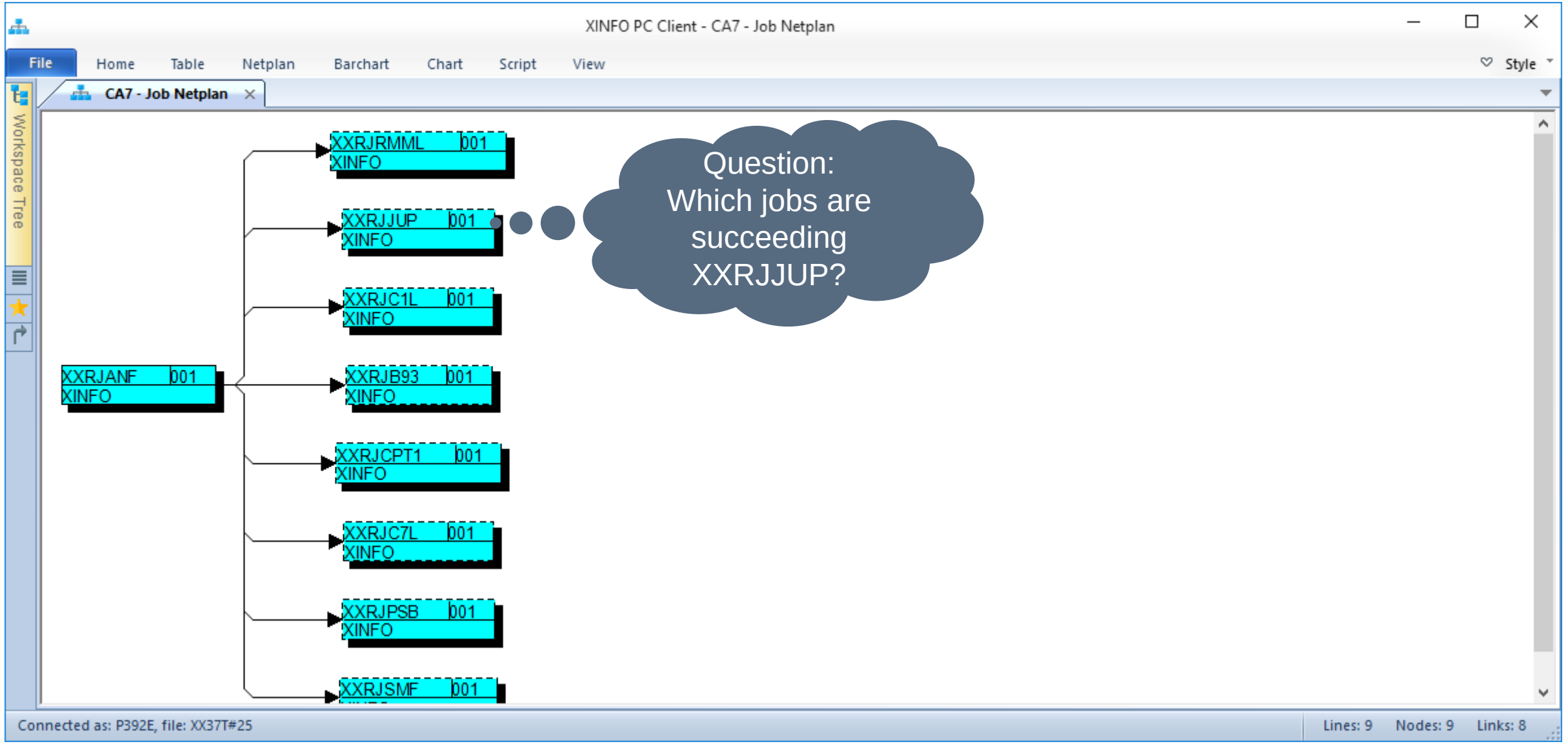
PC Client - Job netplan - Node layout



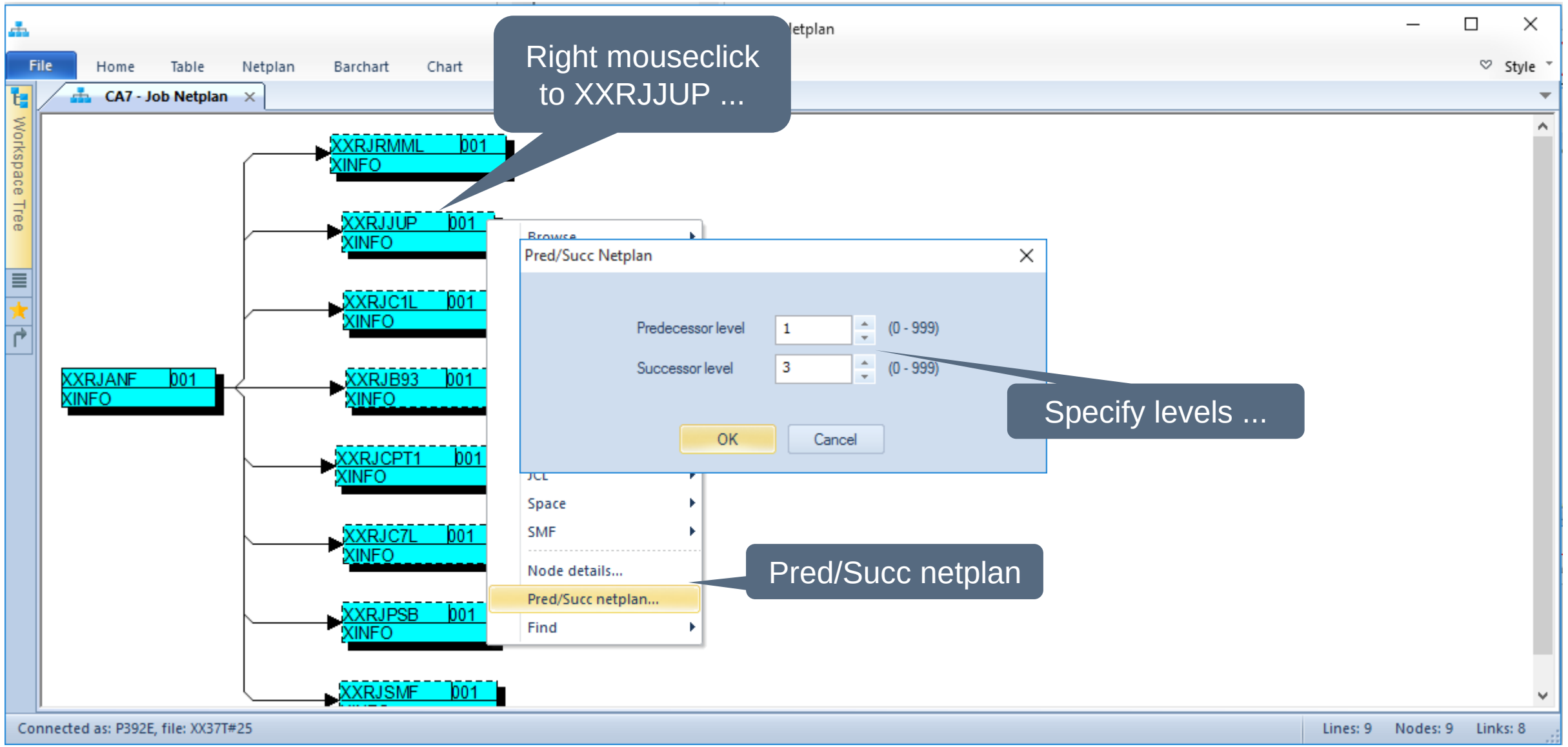
PC Client - Successors and Predecessors (1)



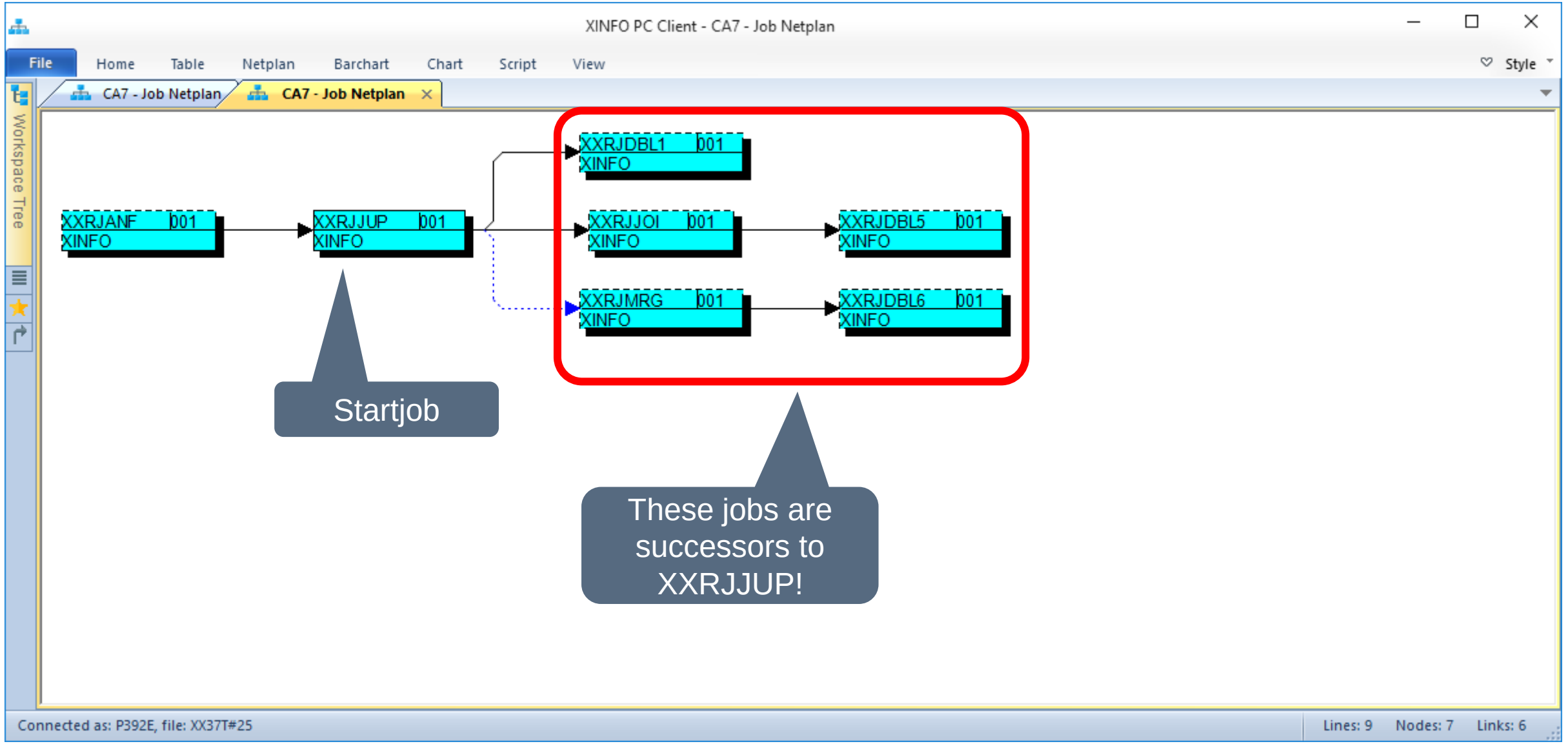
PC Client - Successors and Predecessors (2)



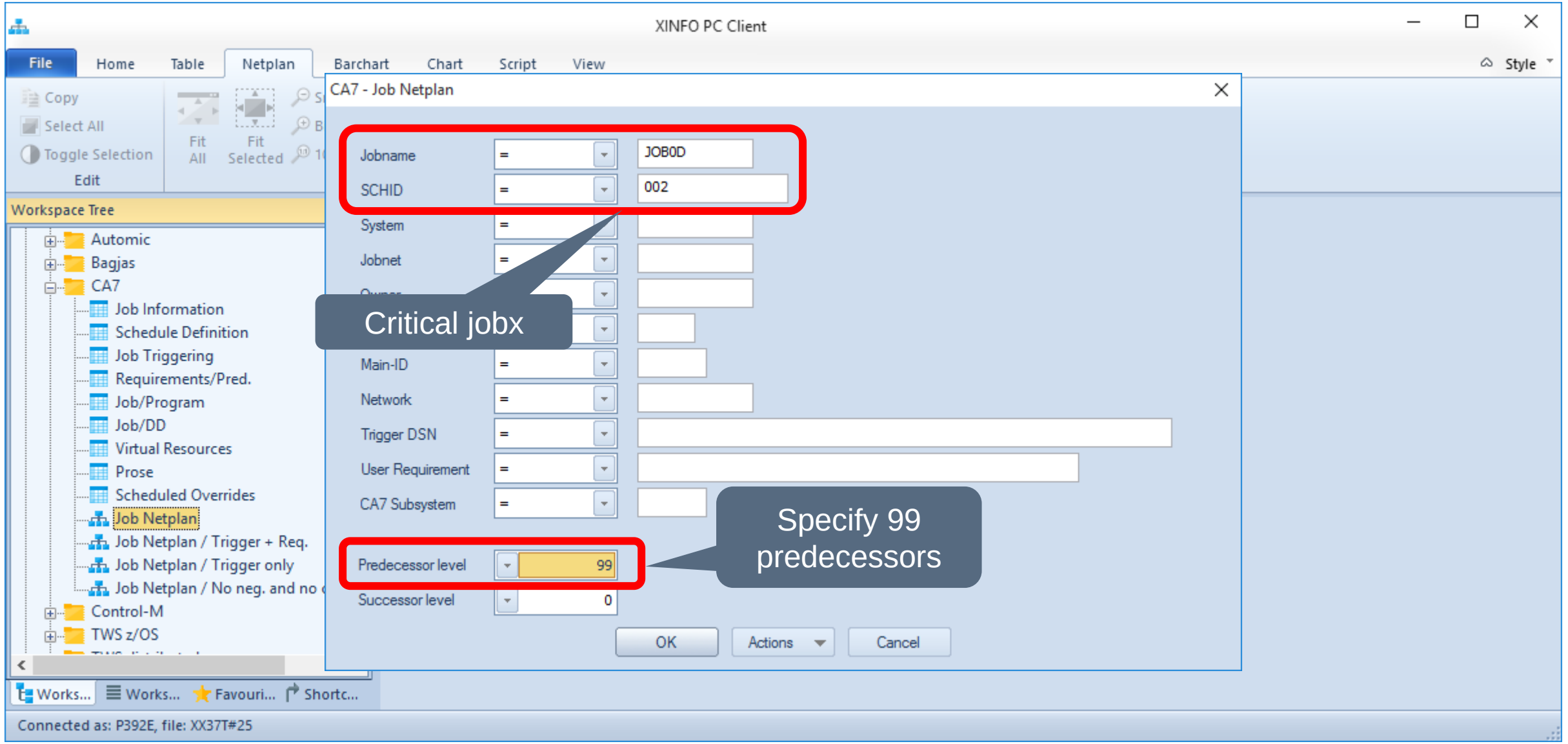
PC Client - Successors and Predecessors (3)



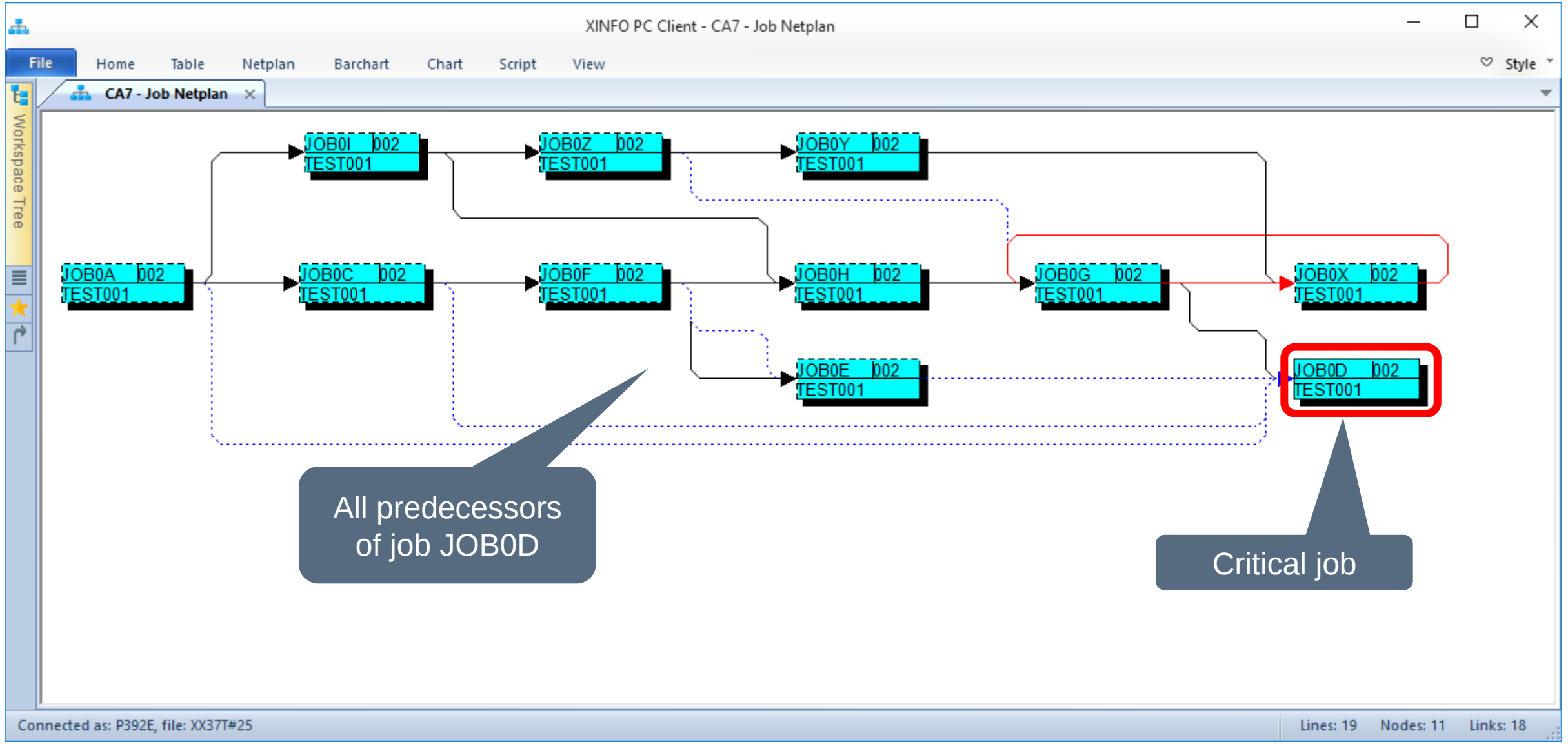
PC Client - Successors and Predecessors (4)



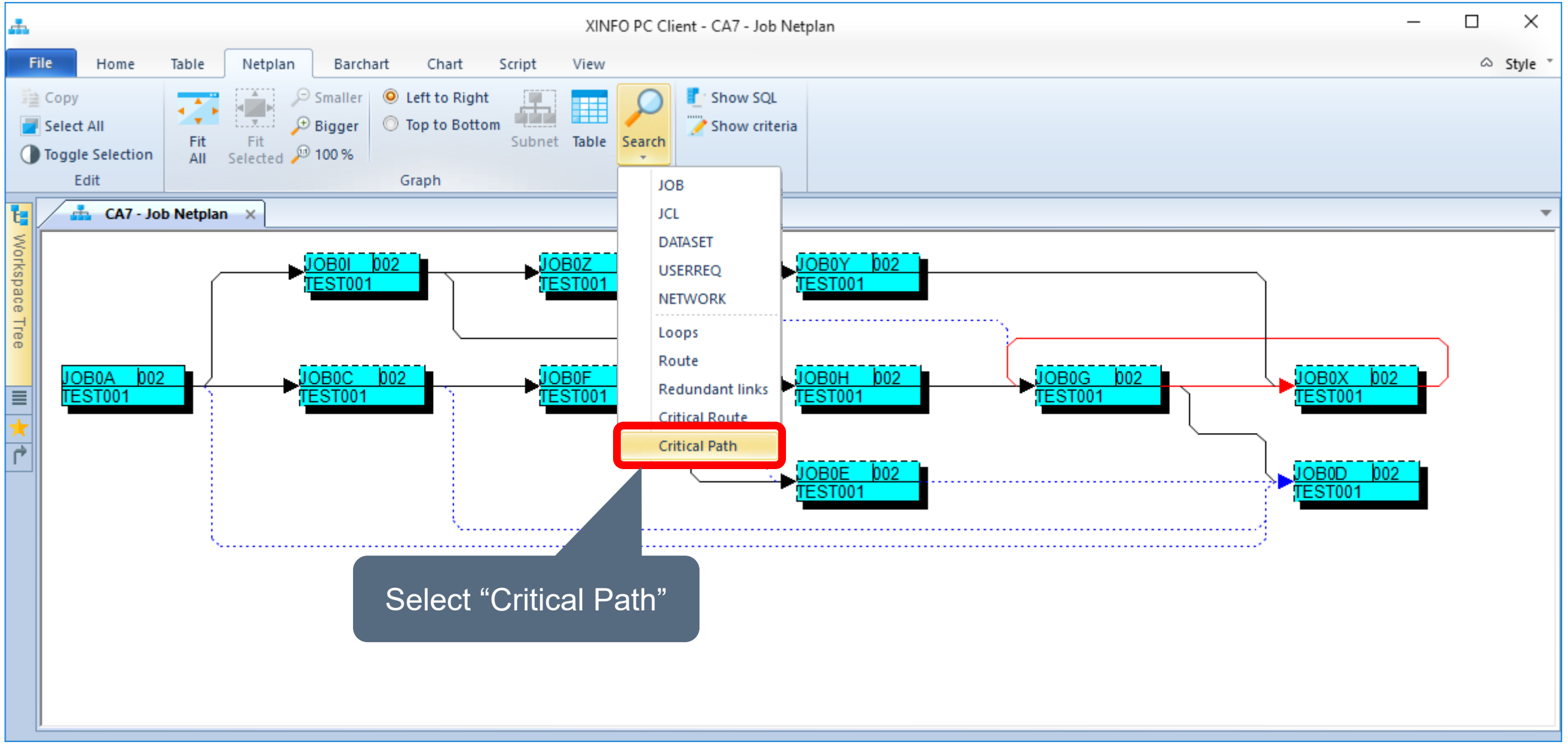
PC Client - Critical Job



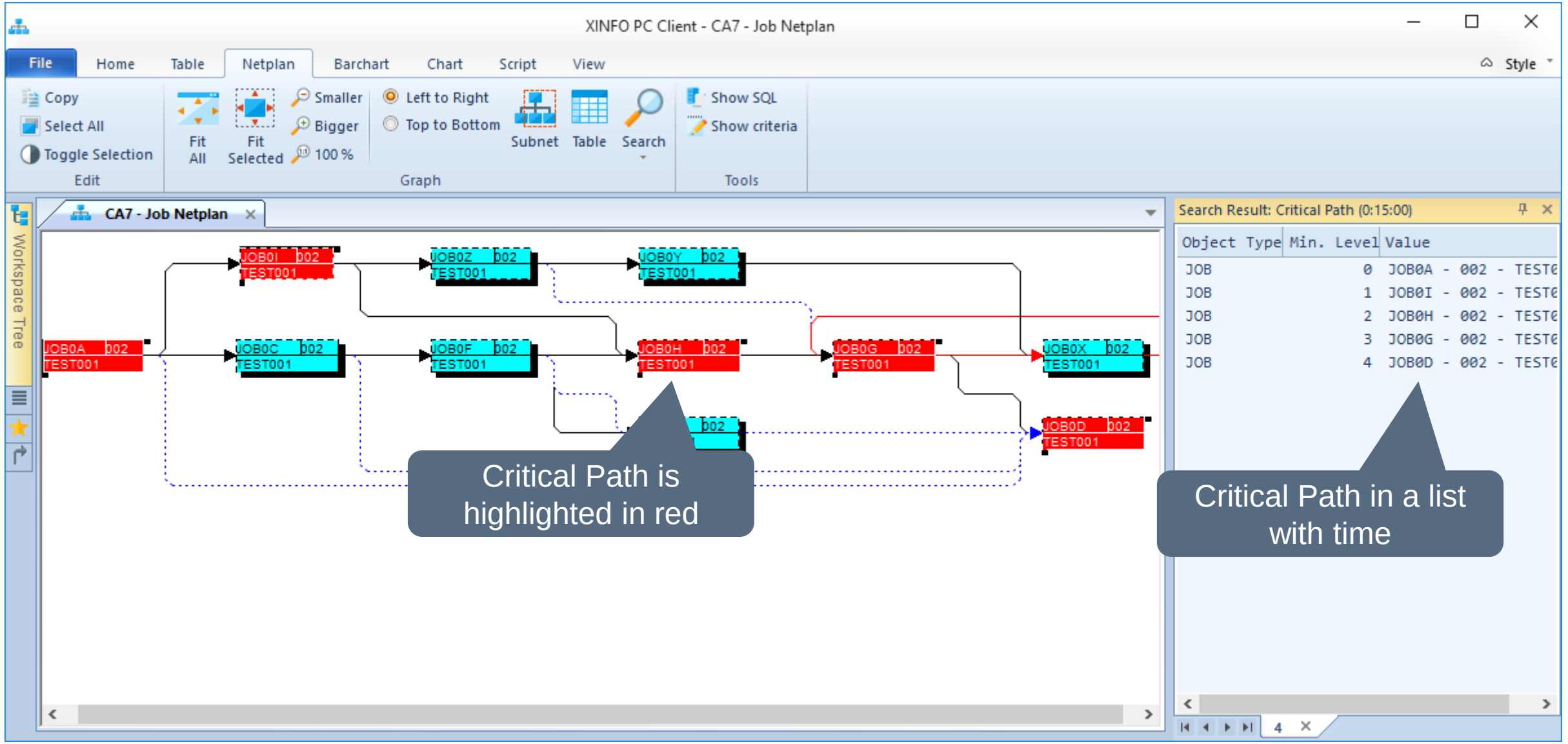
PC Client - Critical Job



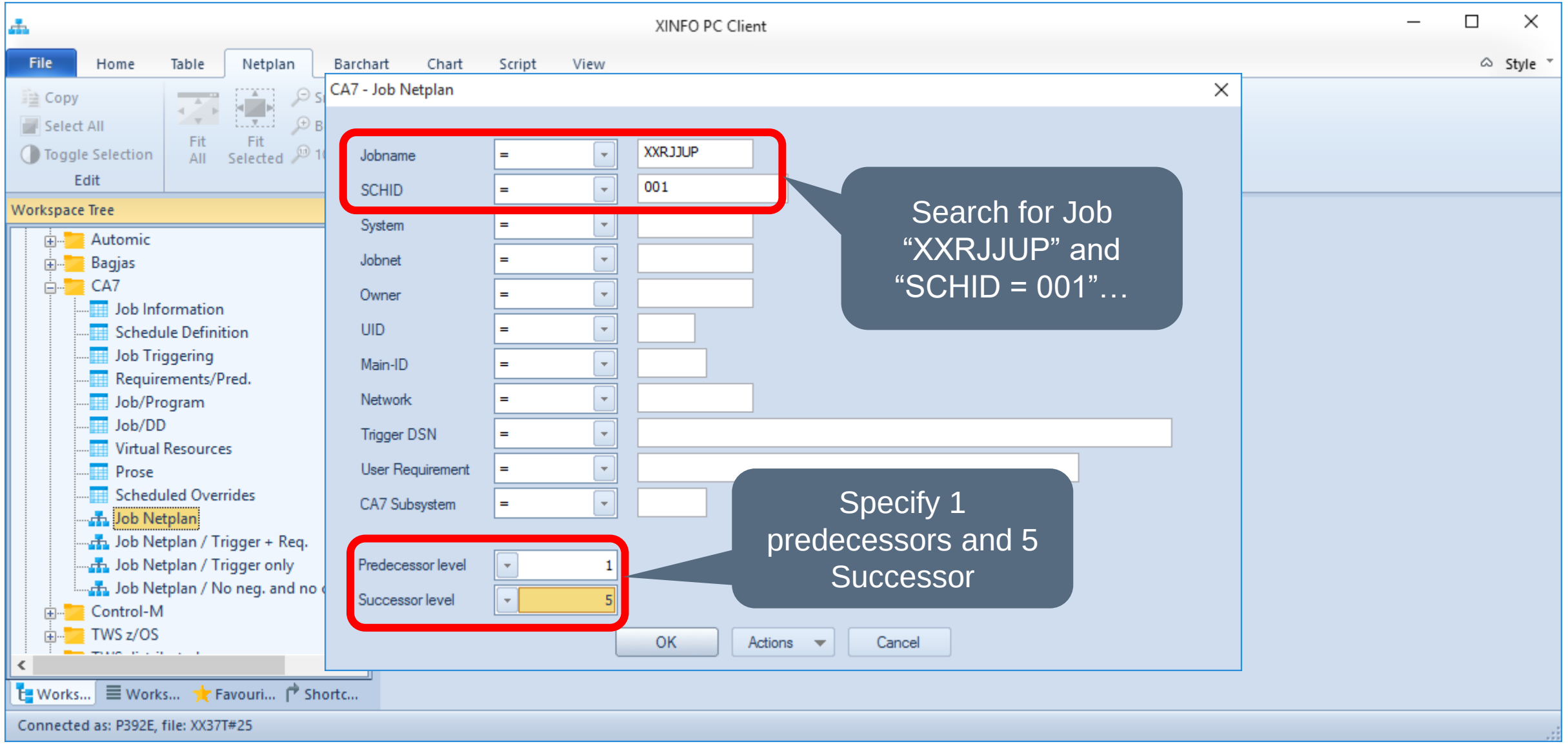
PC Client - Critical Path



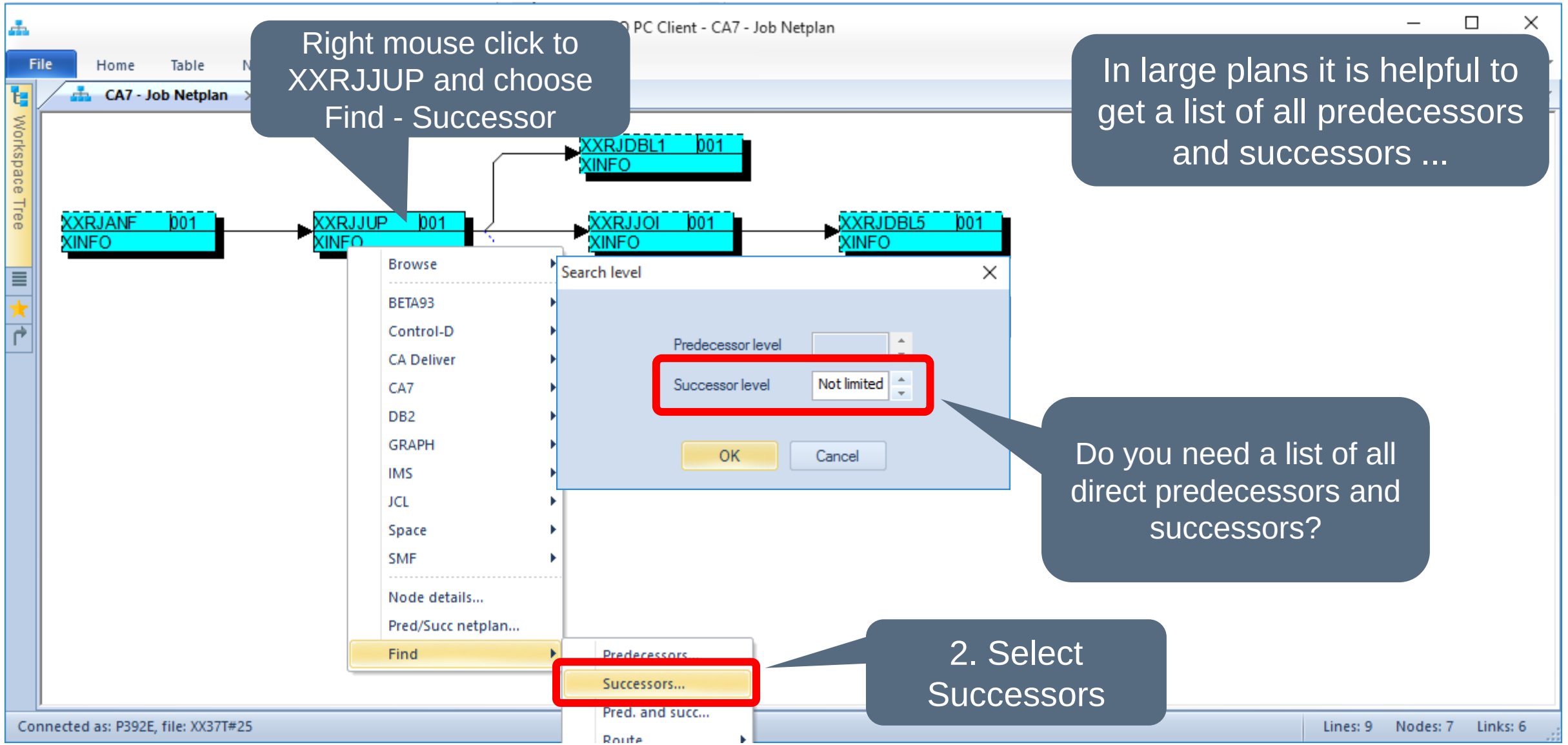
PC Client - Critical Path



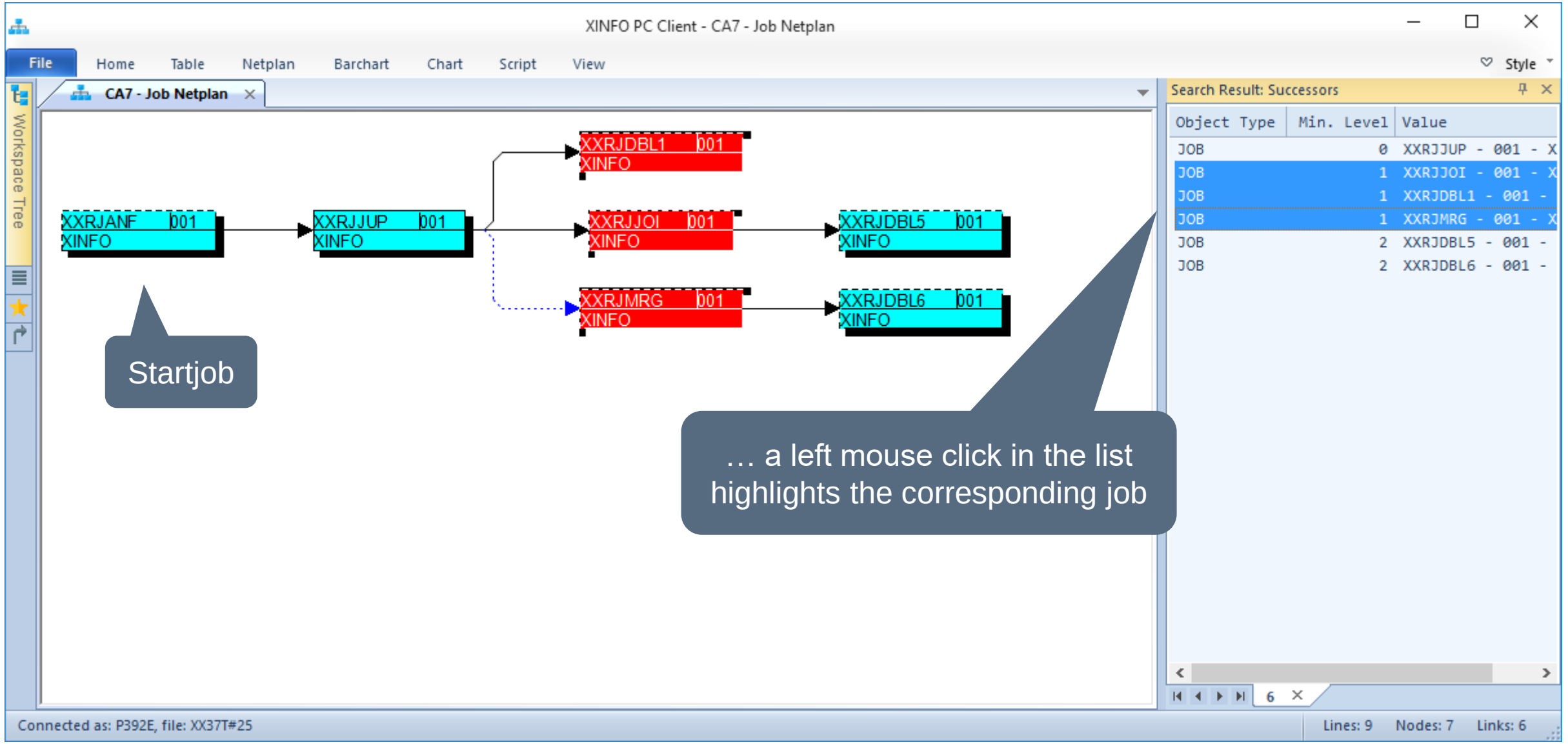
PC Client - More Commands (1)



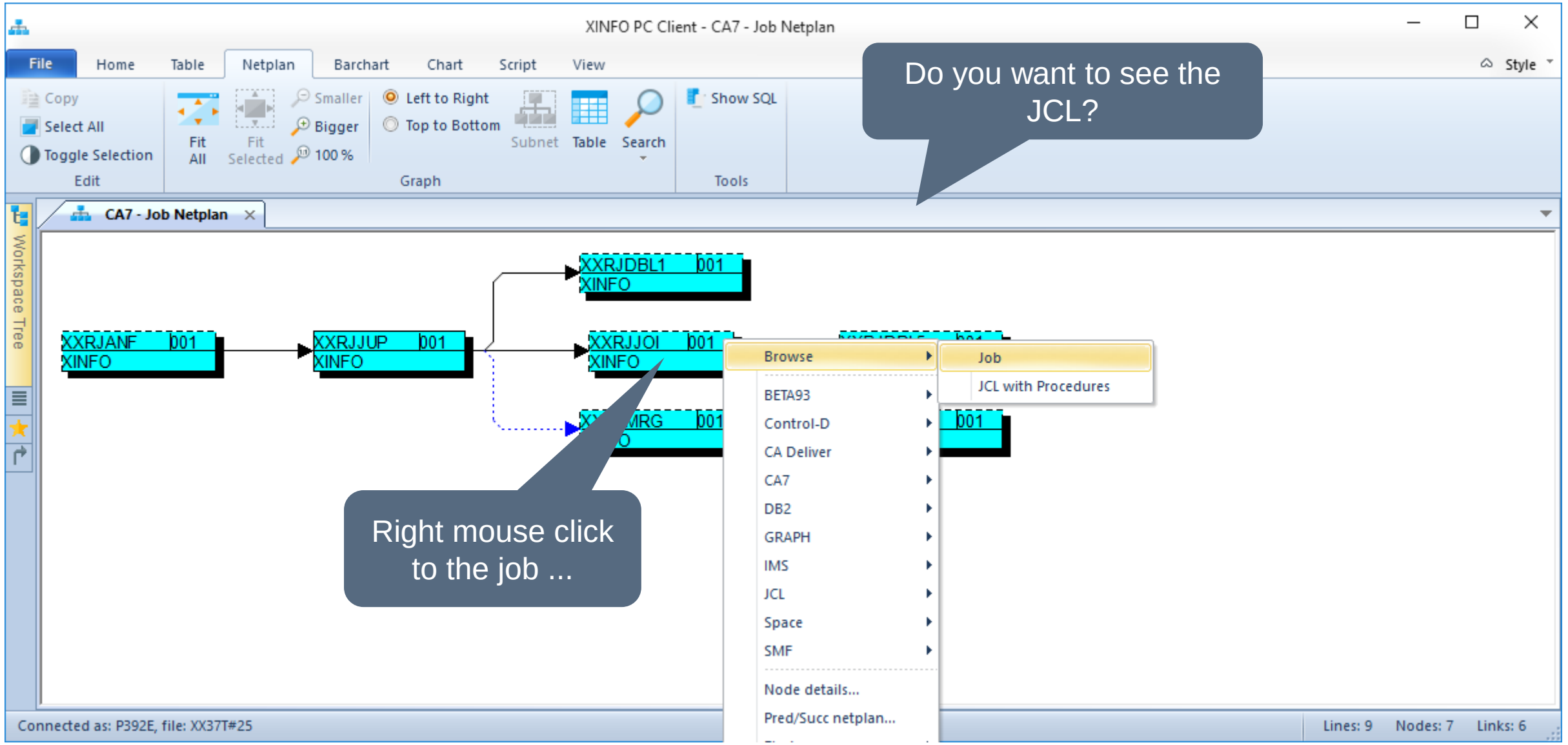
PC Client - More Commands (2)



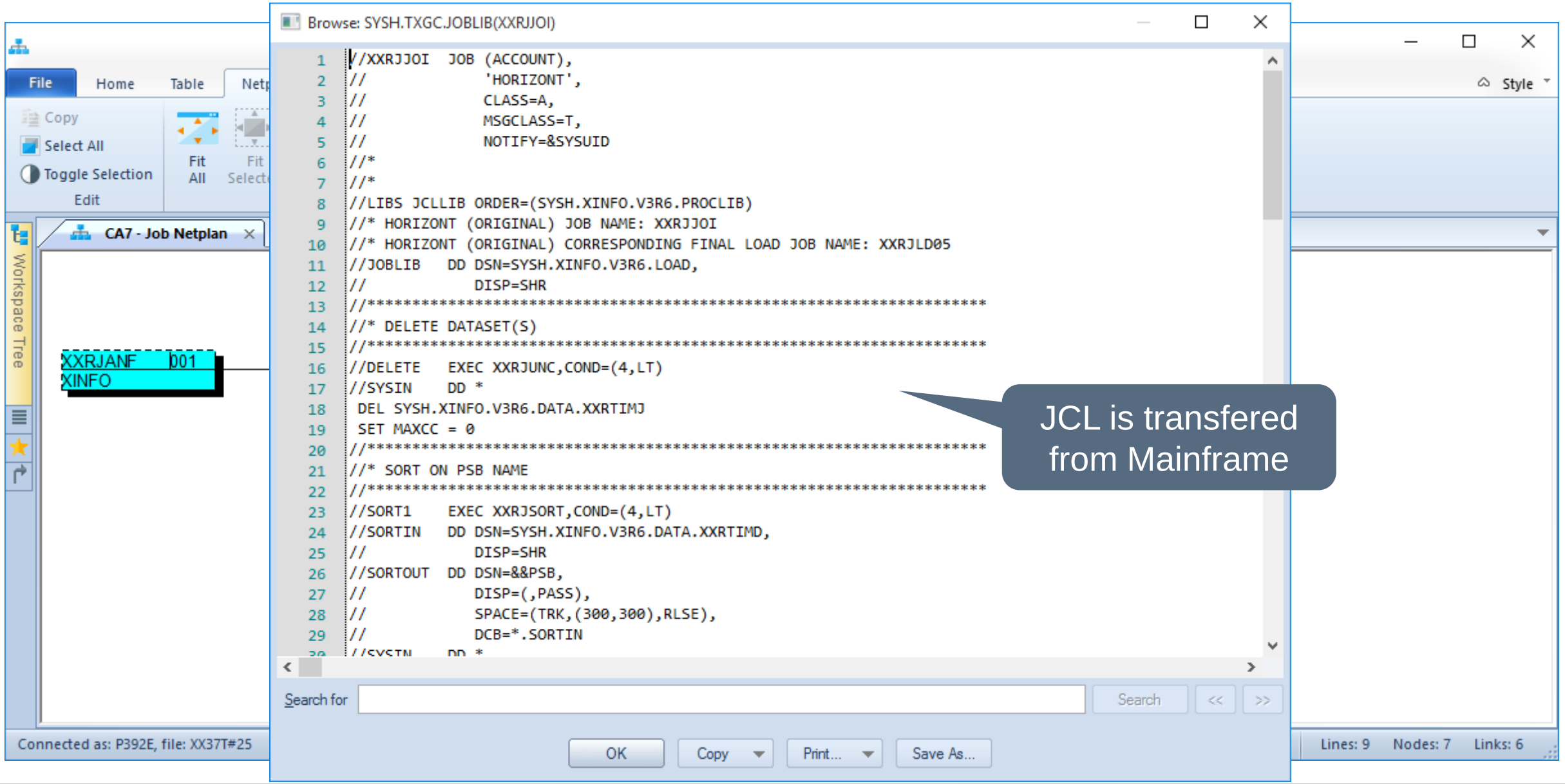
PC Client - More Commands (3)



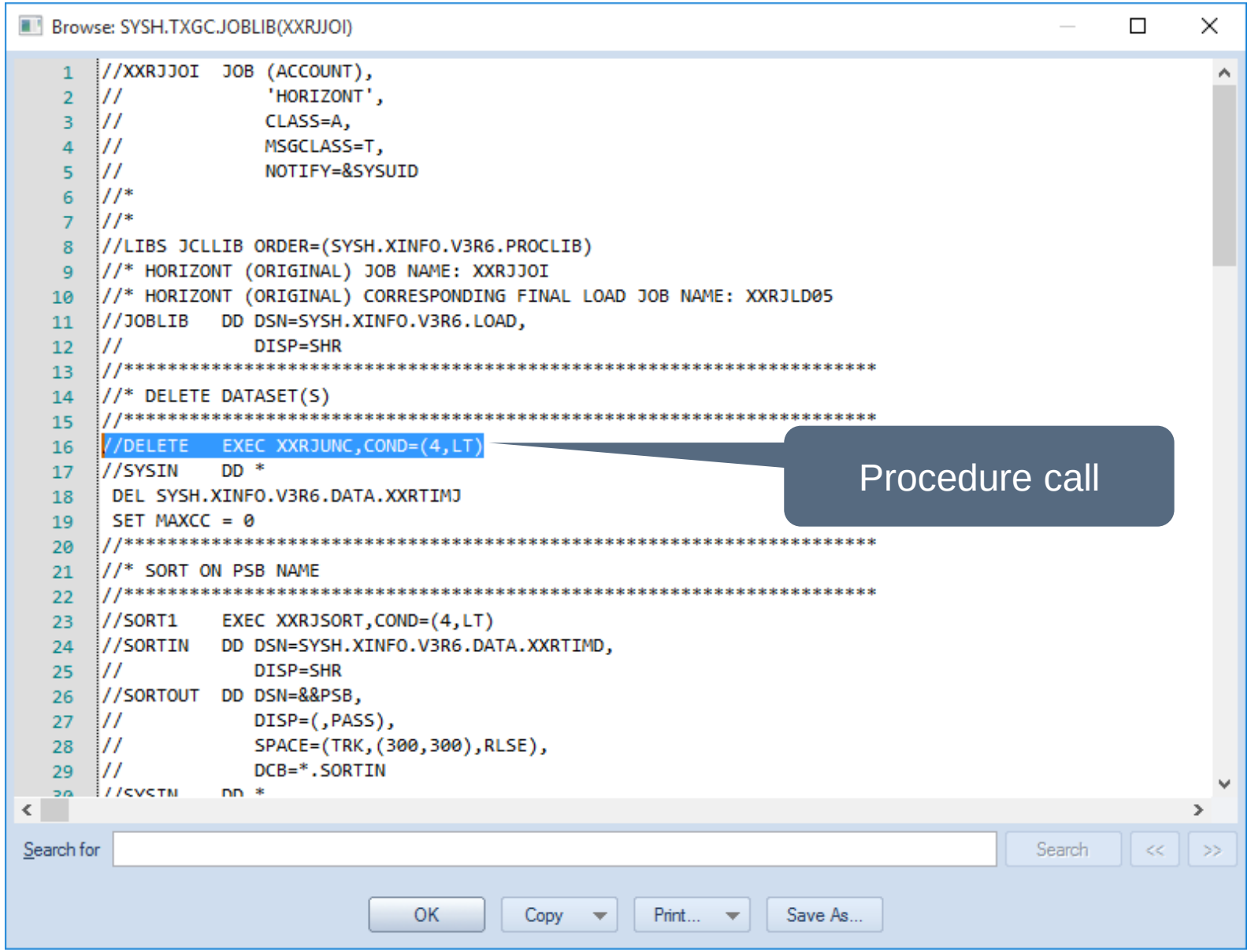
PC Client - More Commands (4)



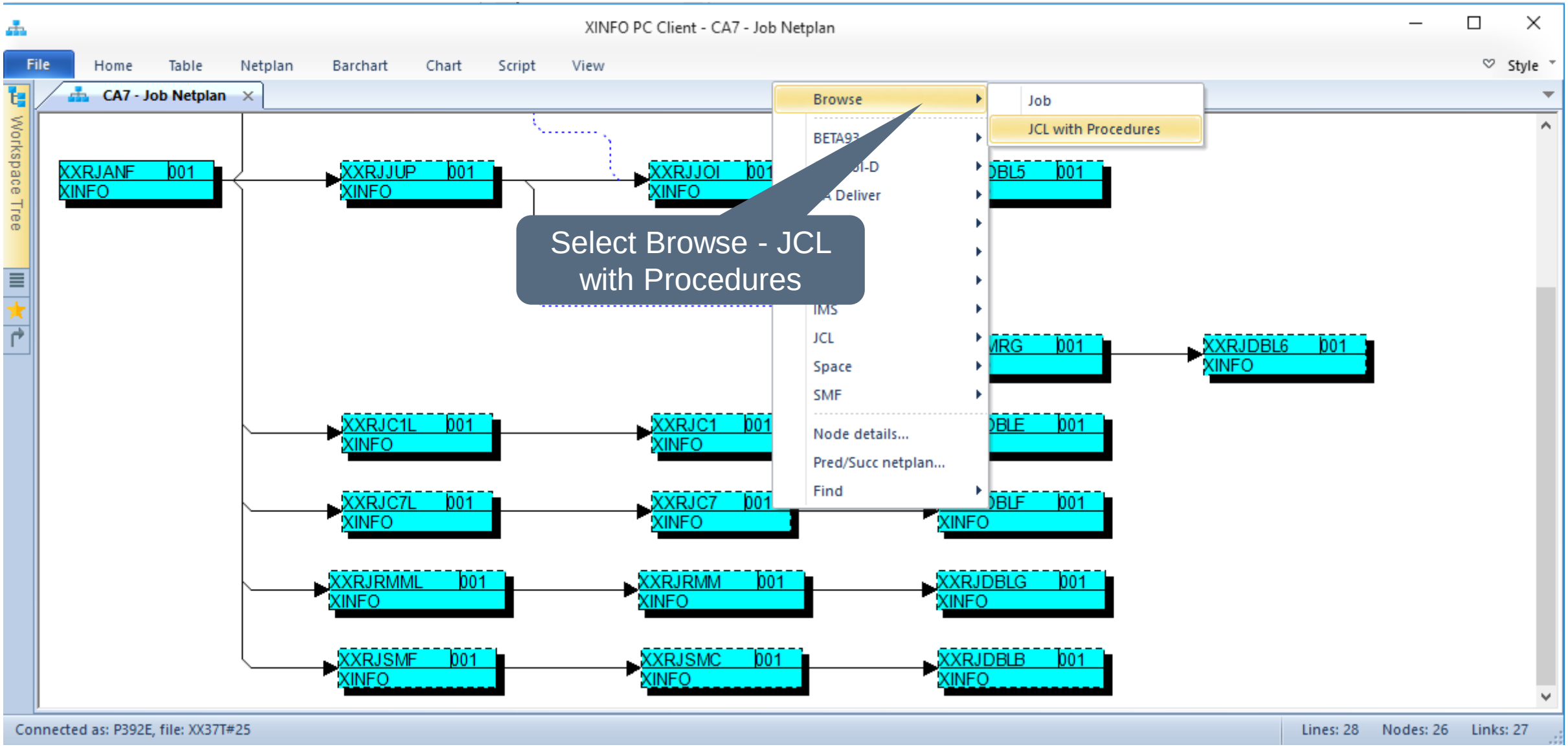
PC Client - More Commands (5)



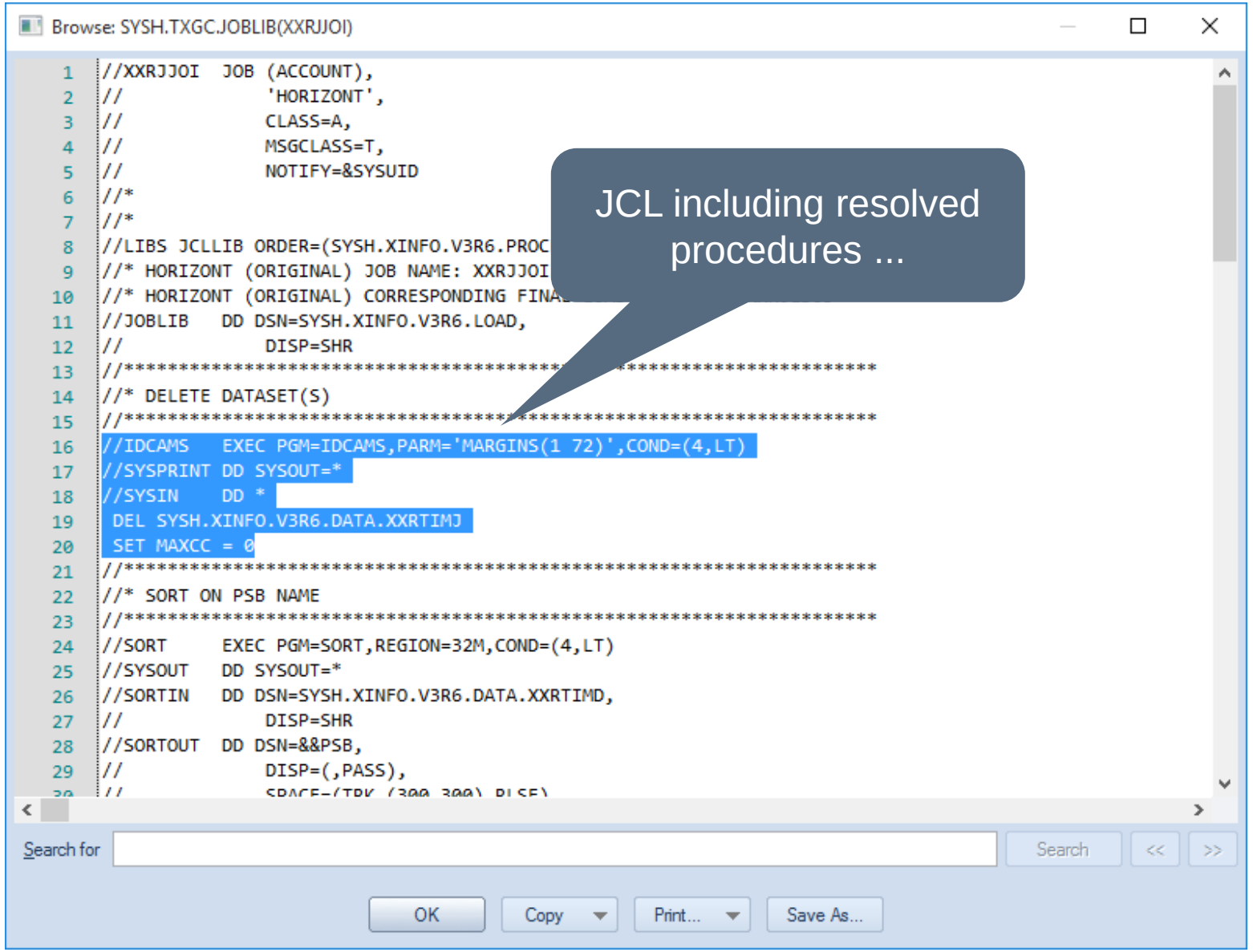
PC Client - More Commands (6)



PC Client - More Commands (7)



PC Client - More Commands (8)



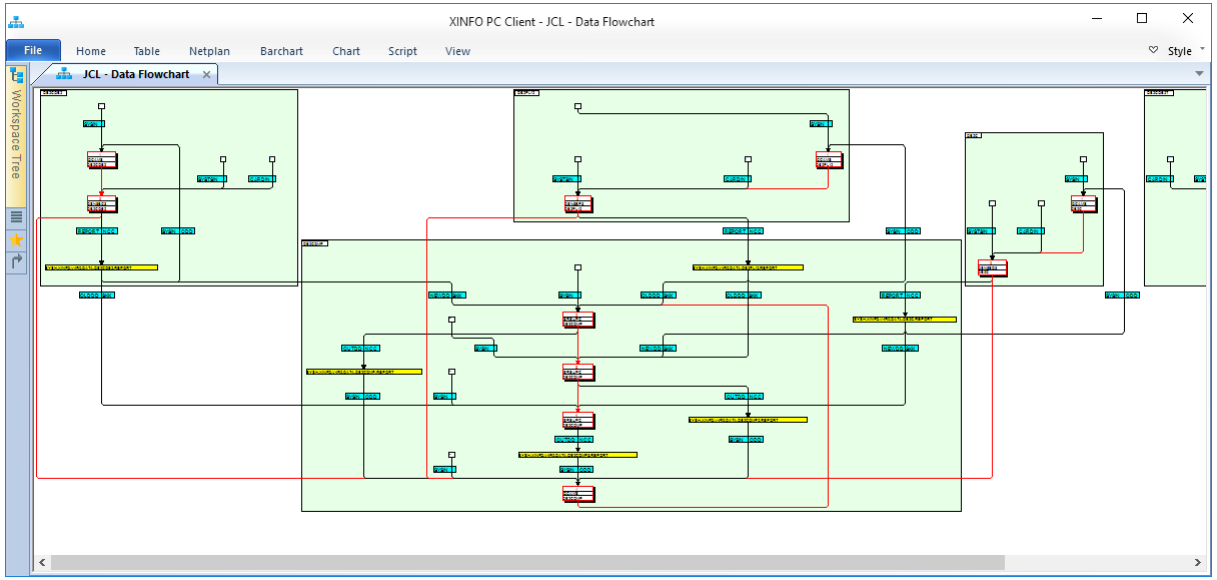

```
1  //XXRJJOI  JOB (ACCOUNT),
2  //             'HORIZONT',
3  //             CLASS=A,
4  //             MSGCLASS=T,
5  //             NOTIFY=&SYSUID
6  //*
7  //*
8  //LIBS JCLLIB ORDER=(SYSH.XINFO.V3R6.PROC
9  //* HORIZONT (ORIGINAL) JOB NAME: XXRJJOI
10 //* HORIZONT (ORIGINAL) CORRESPONDING FINA
11 //JOBLIB   DD DSN=SYSH.XINFO.V3R6.LOAD,
12 //             DISP=SHR
13 //*************************************************************************
14 //* DELETE DATASET(S)
15 //*************************************************************************
16 //IDCAMS   EXEC PGM=IDCAMS,PARM='MARGINS(1 72)',COND=(4,LT)
17 //SYSPRINT DD SYSOUT=*
18 //SYSIN    DD *
19  DEL SYSH.XINFO.V3R6.DATA.XXRTIMJ
20  SET MAXCC = 0
21 //*************************************************************************
22 //* SORT ON PSB NAME
23 //*************************************************************************
24 //SORT     EXEC PGM=SORT,REGION=32M,COND=(4,LT)
25 //SYSOUT   DD SYSOUT=*
26 //SORTIN   DD DSN=SYSH.XINFO.V3R6.DATA.XXRTIMD,
27 //             DISP=SHR
28 //SORTOUT  DD DSN=&&PSB,
29 //             DISP=(,PASS),
30 //             SPACE=(TRK,(300,300),RLSE)
```

PC Client - Dataset Flowchart

A Dataset Flowchart displays the JCL graphically.

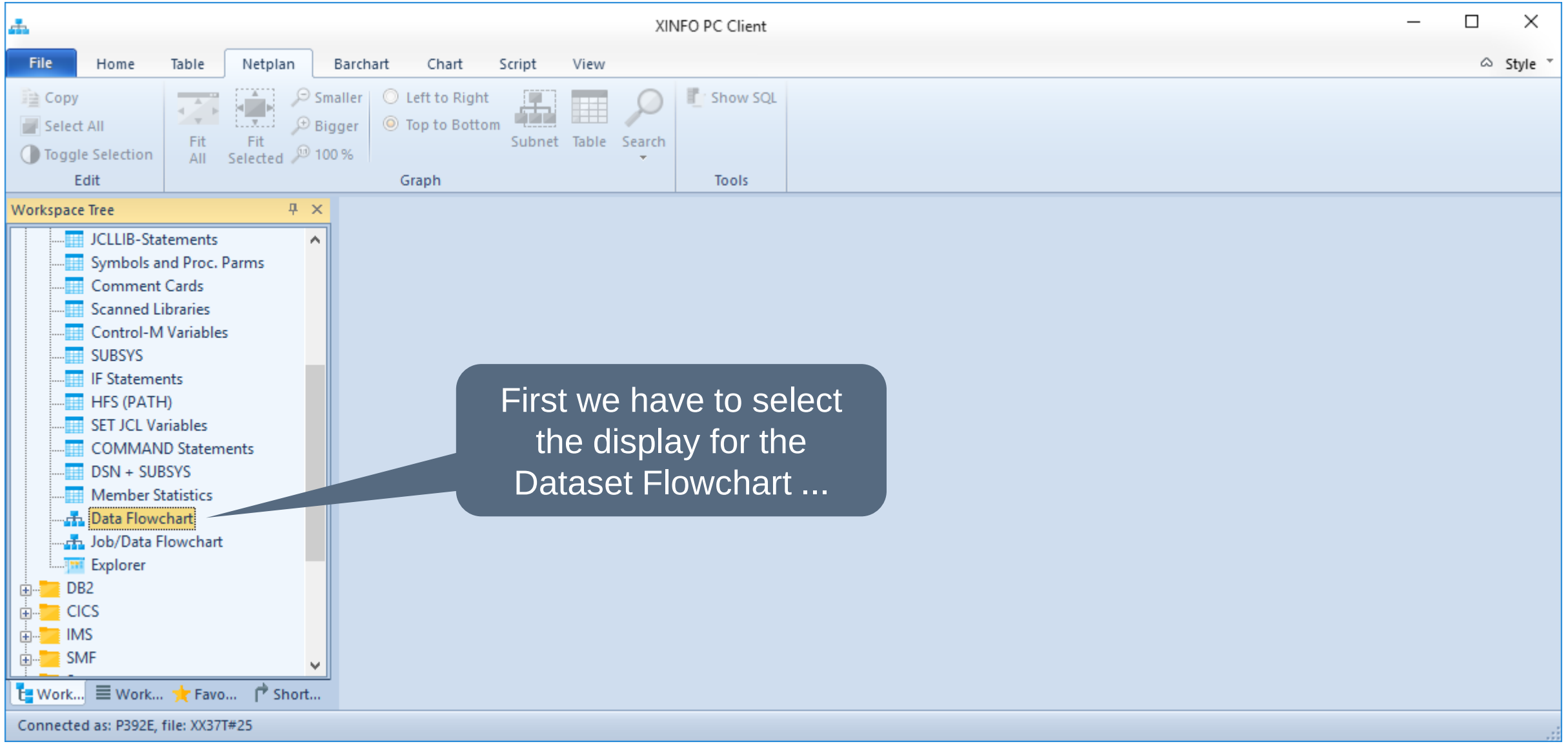
Following information is taken into account:

- Jobs
- Joblibs
- Steps
- Programs
- DD
- DSN

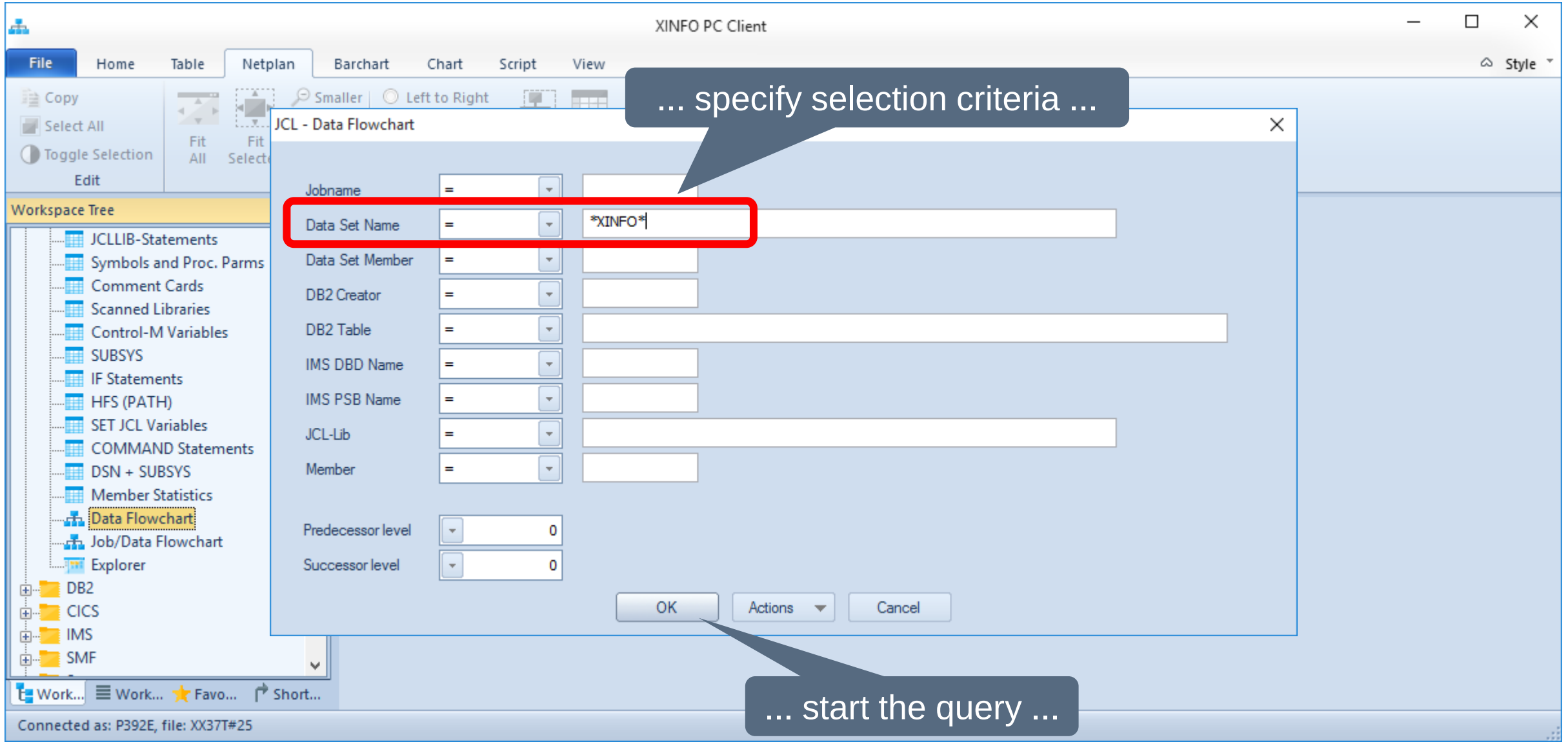


Hint: HORIZONT is working on a version which also displays DB2 tables and IMS databases, but currently DBs are not visible in the Dataset Flowchart!

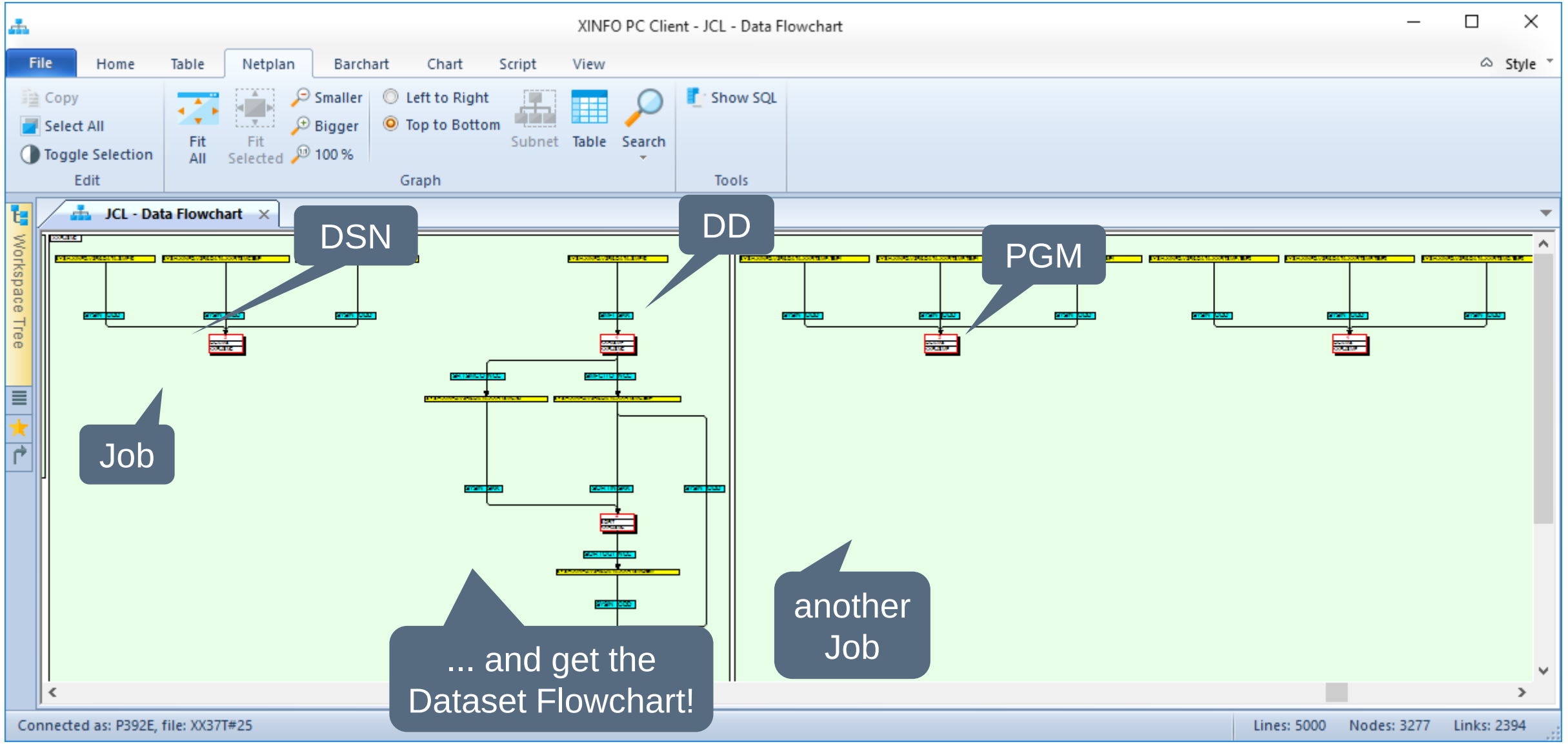
PC Client - Dataset Flowchart - Select Display



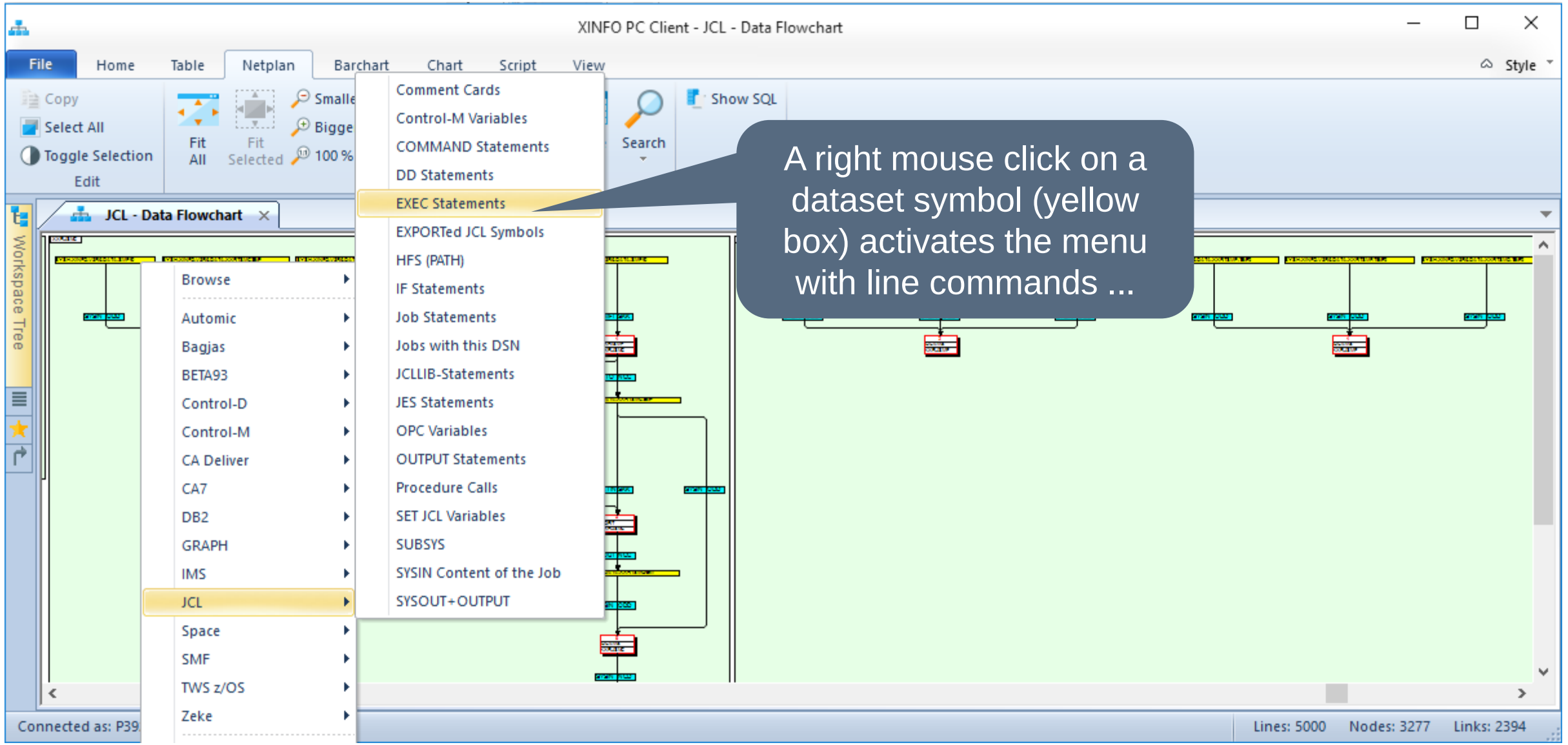
PC Client - Dataset Flowchart - Selection Criteria



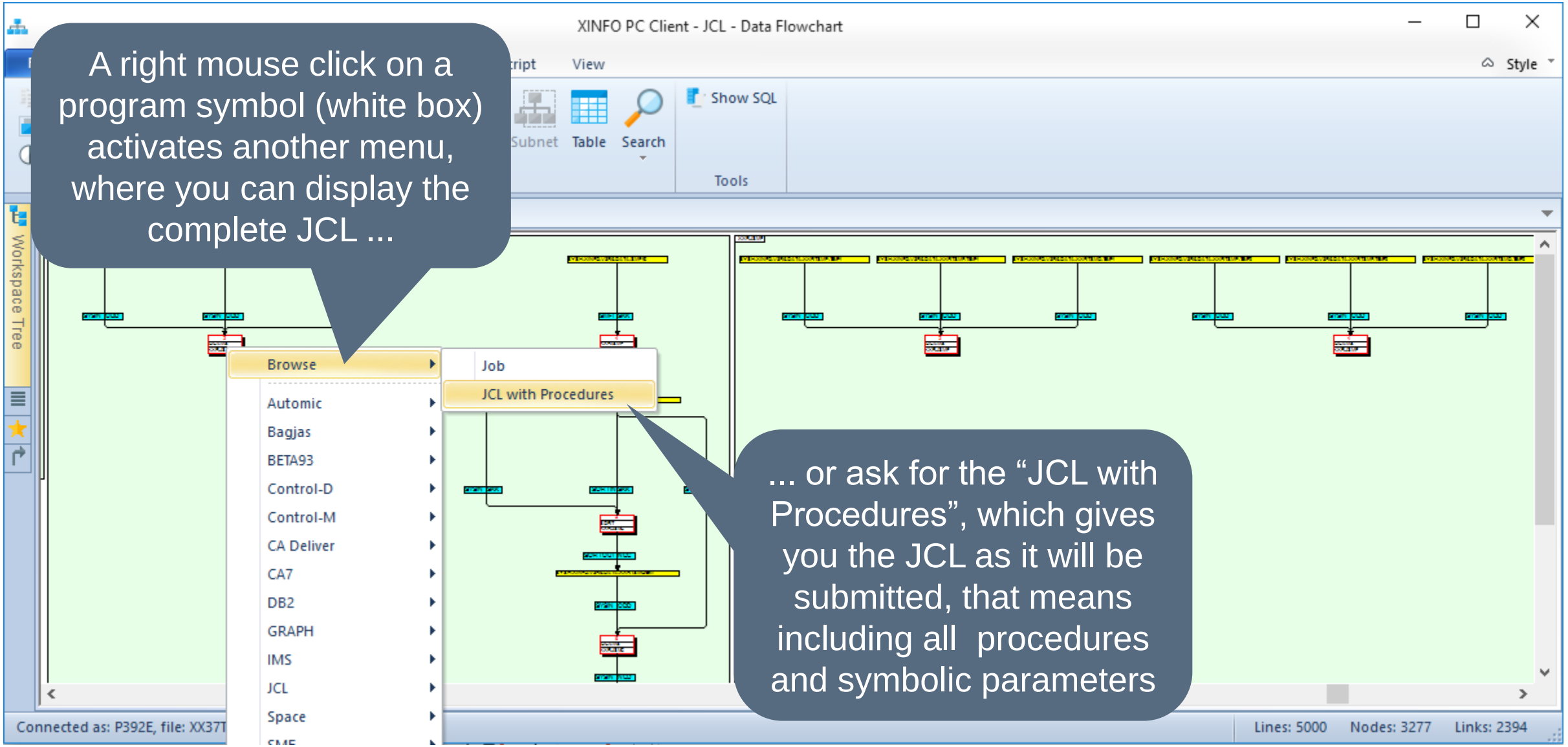
PC Client - Dataset Flowchart Overview



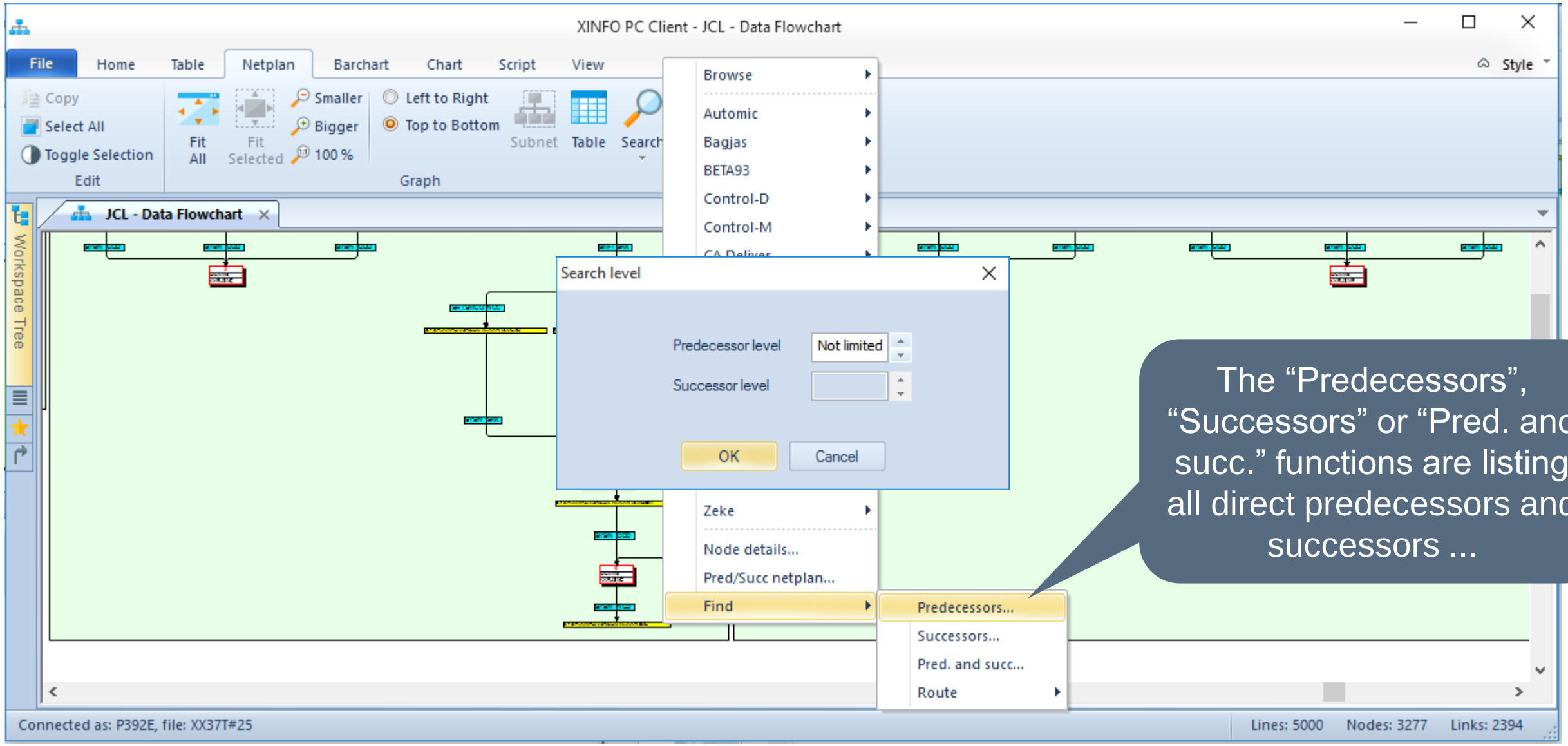
PC Client - Dataset Flowchart Line Commands



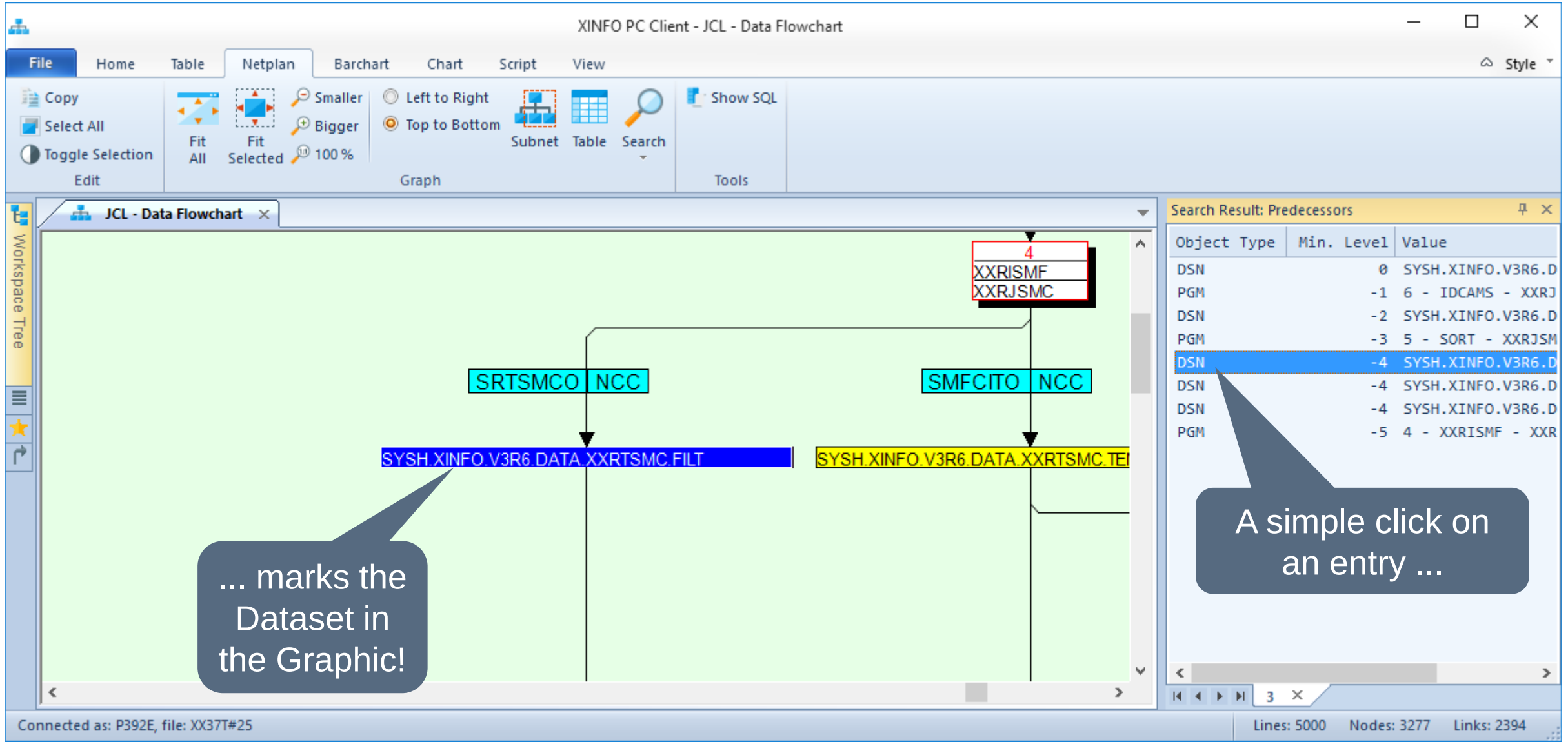
PC Client - Dataset Flowchart JCL



PC Client - Dataset Flowchart Preds and Succs



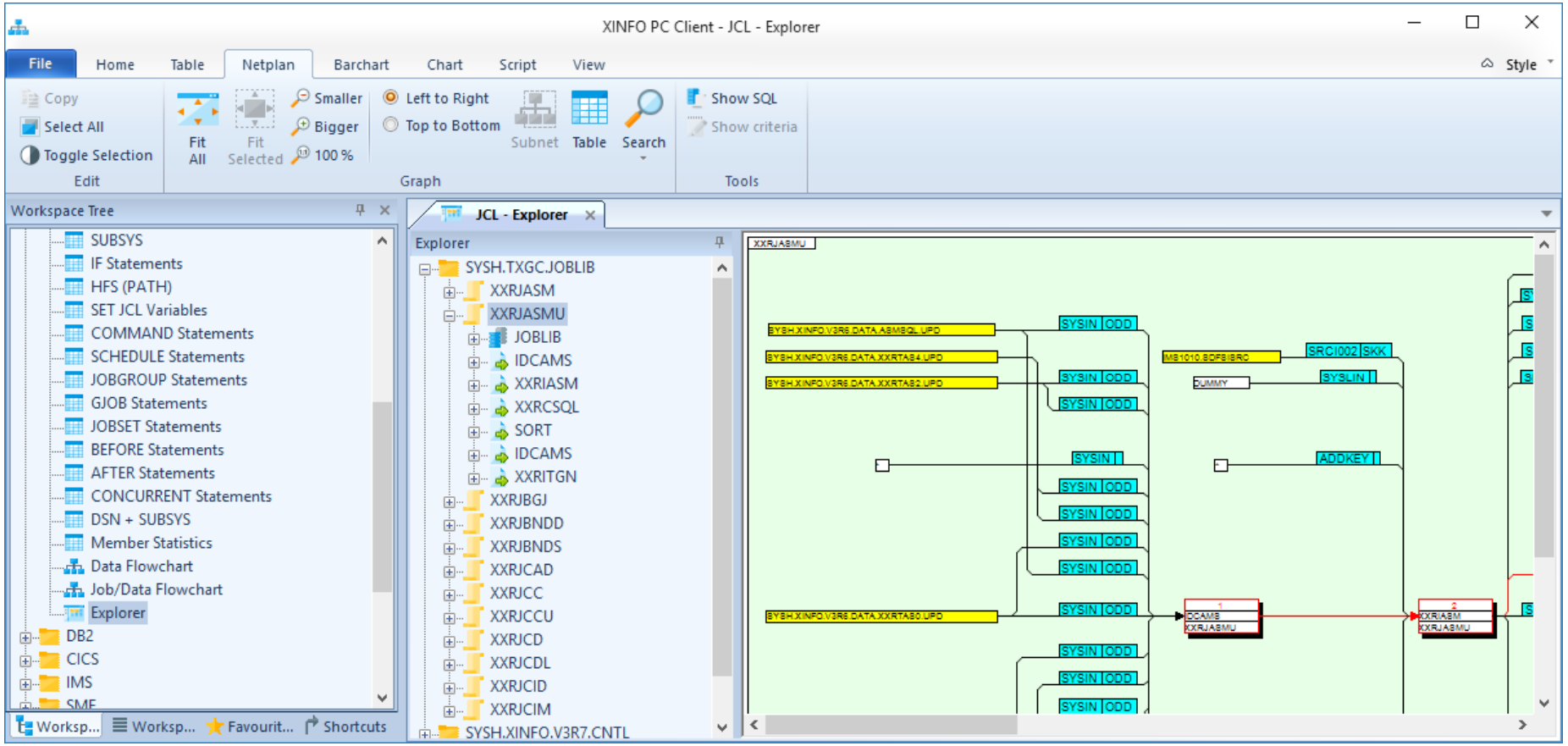
PC Client - Dataset Flowchart Preds and Succs



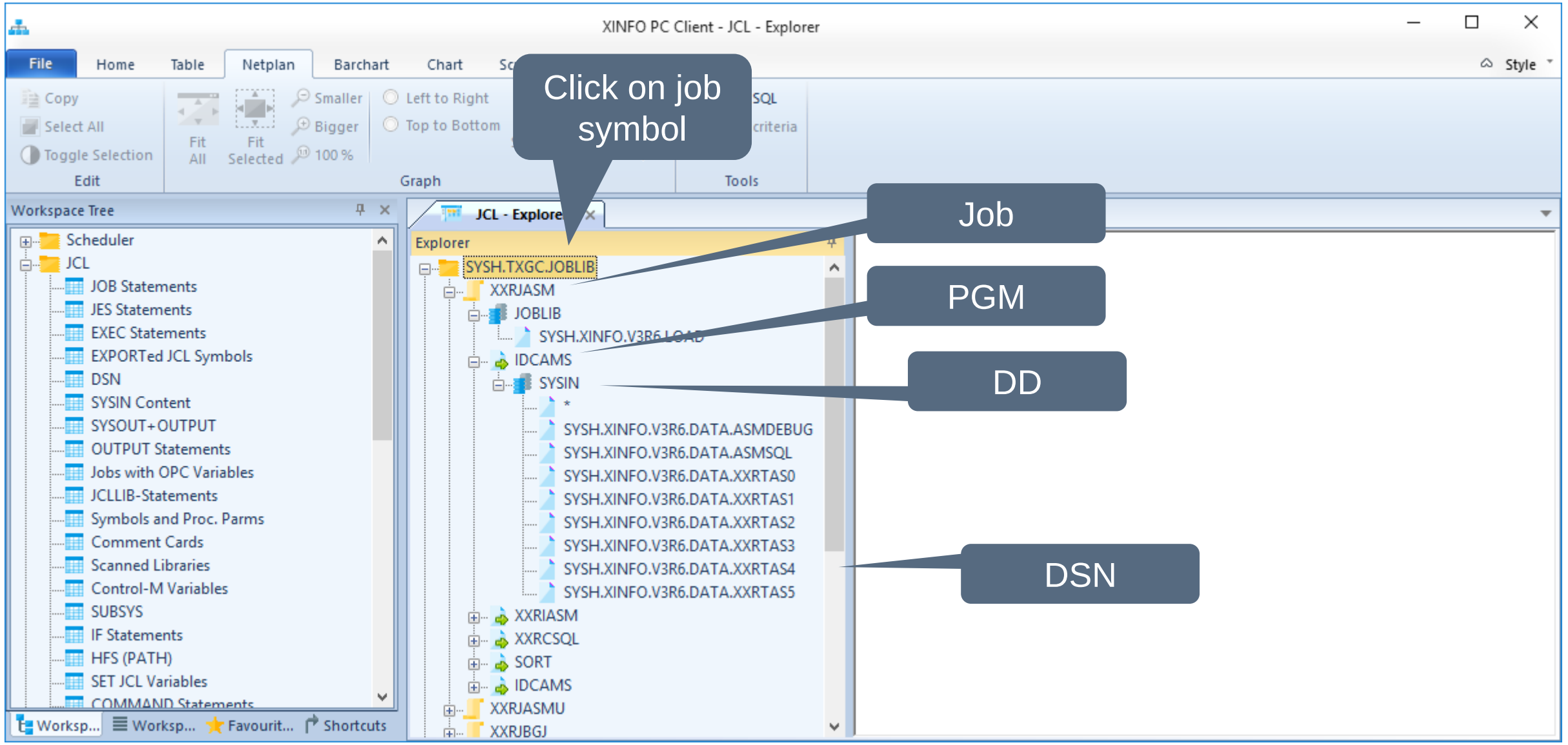
PC Client - JCL Explorer

The JCL Explorer displays the JCL (and the called procedures) in a tree containing:

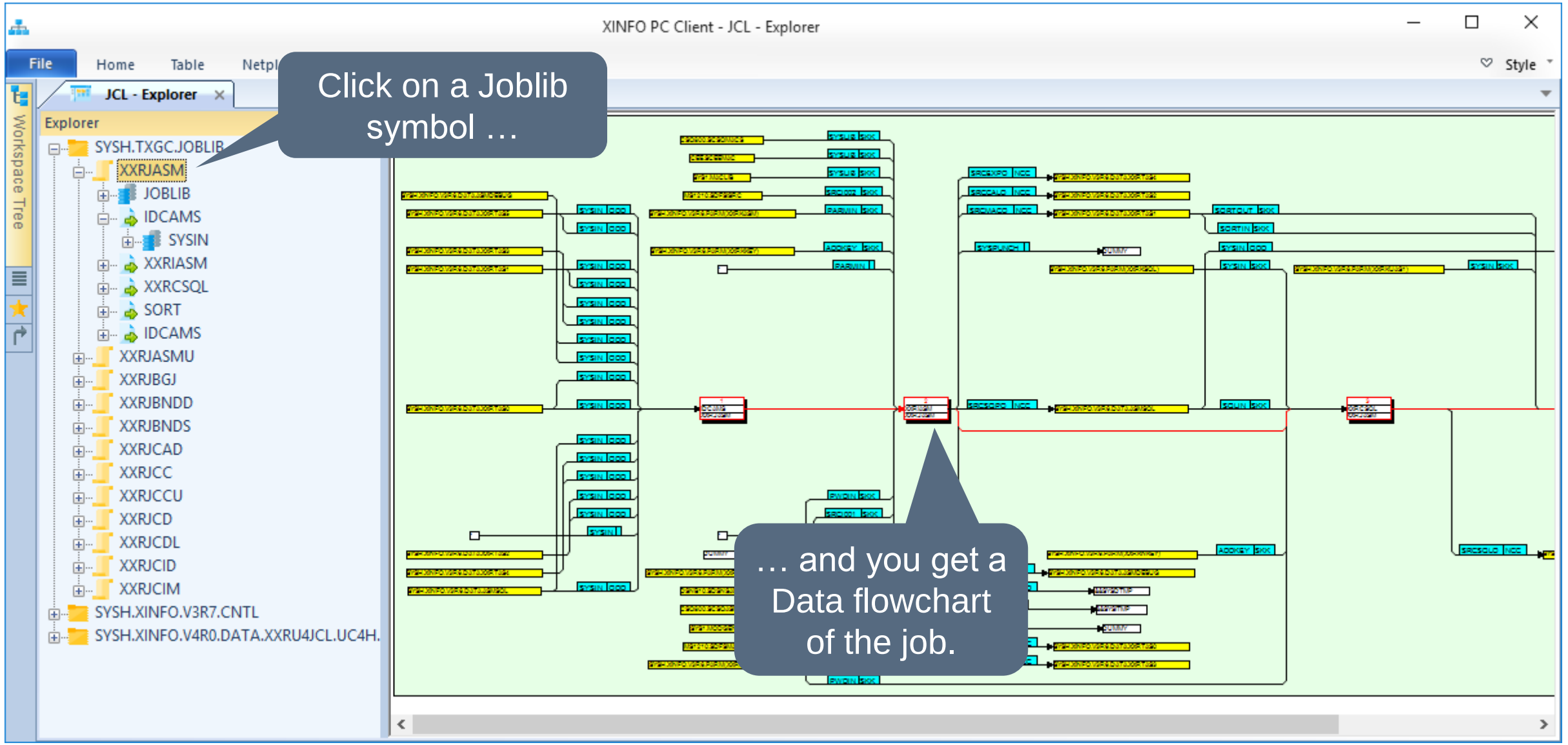
- Jobs
- Joblibs
- Steps
- Steplibs
- Programs
- DD
- DSN



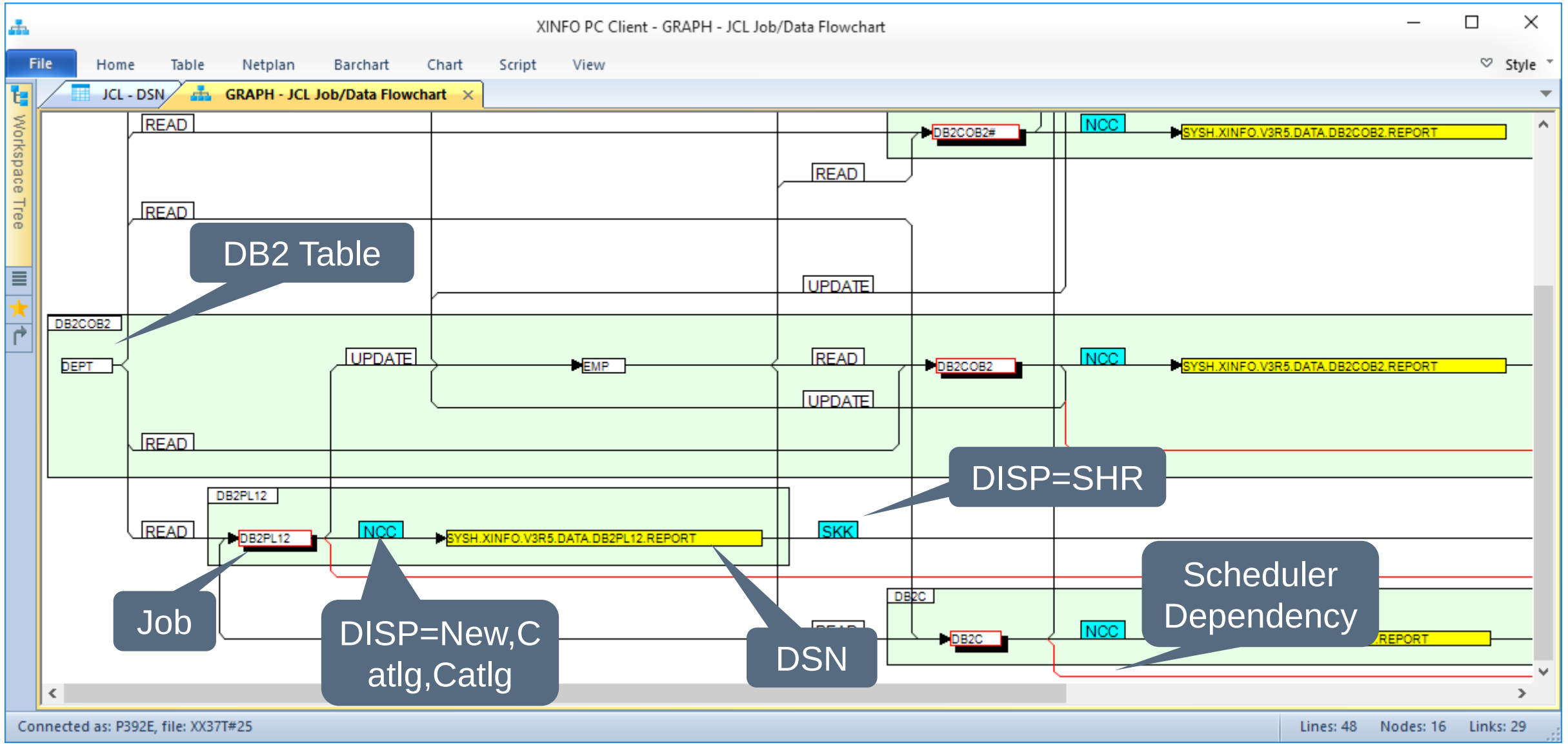
PC Client - JCL Explorer - Overview



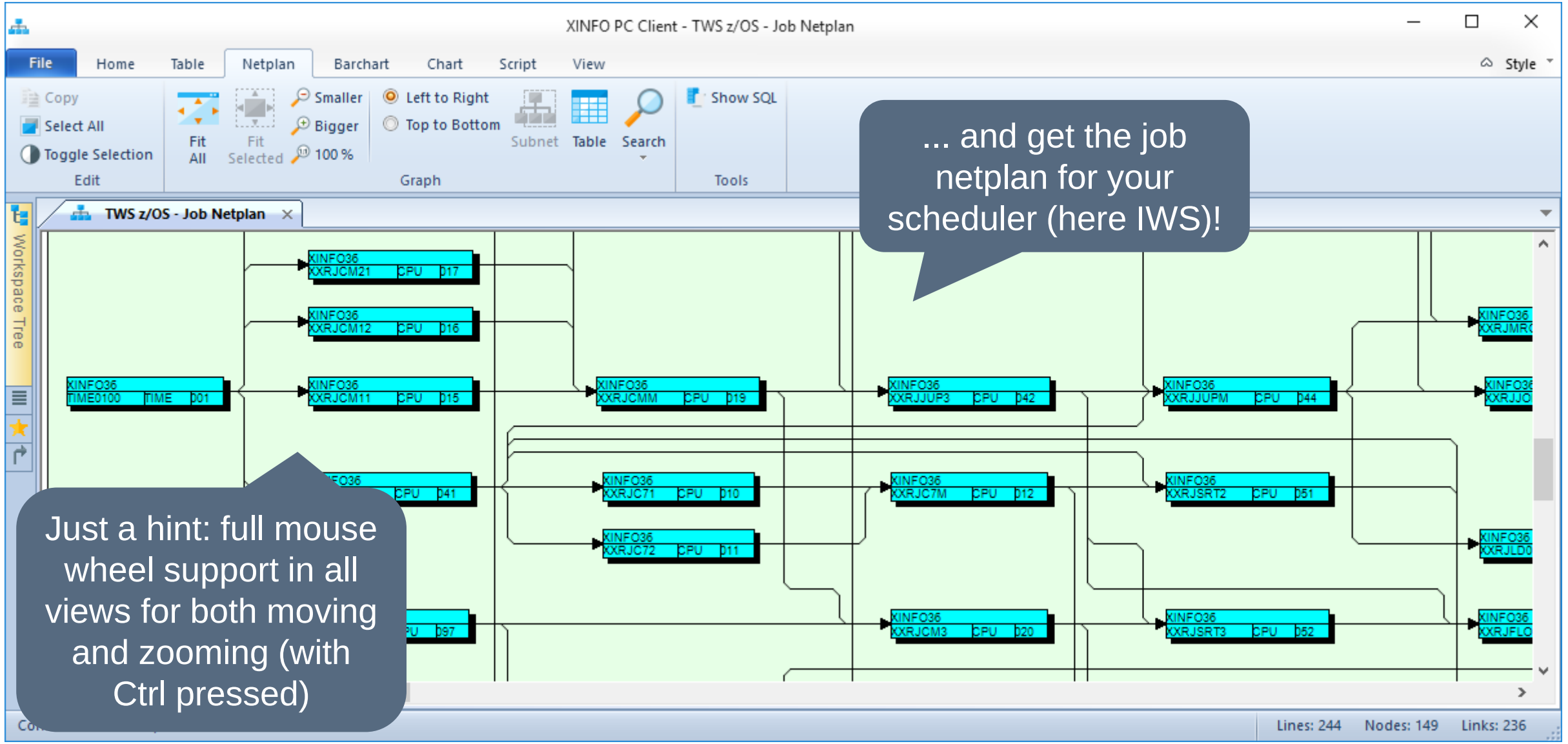
PC Client - JCL Explorer - Data flowchart



PC Client - JCL Explorer - Job netplan



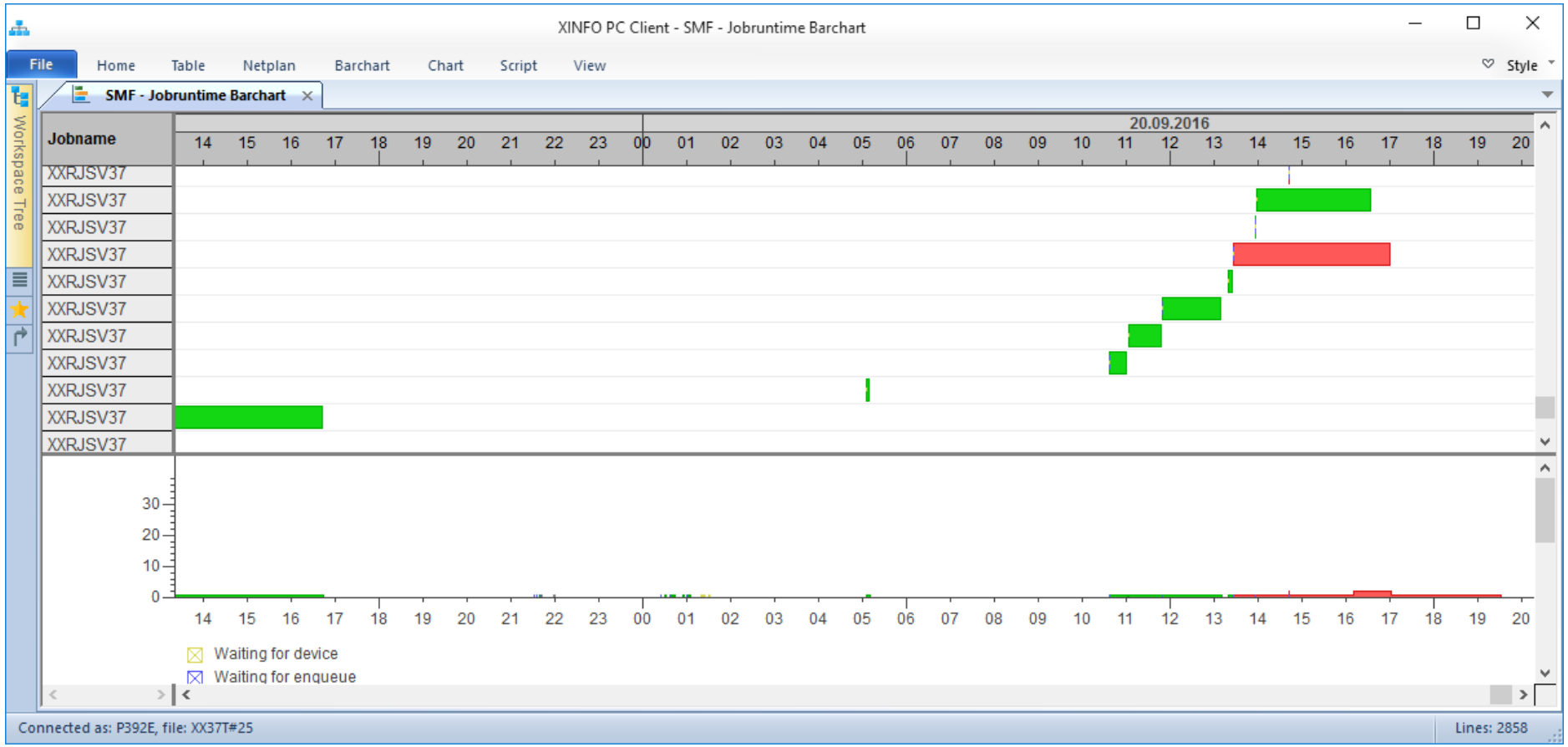
PC Client - JCL Explorer - Job netplan



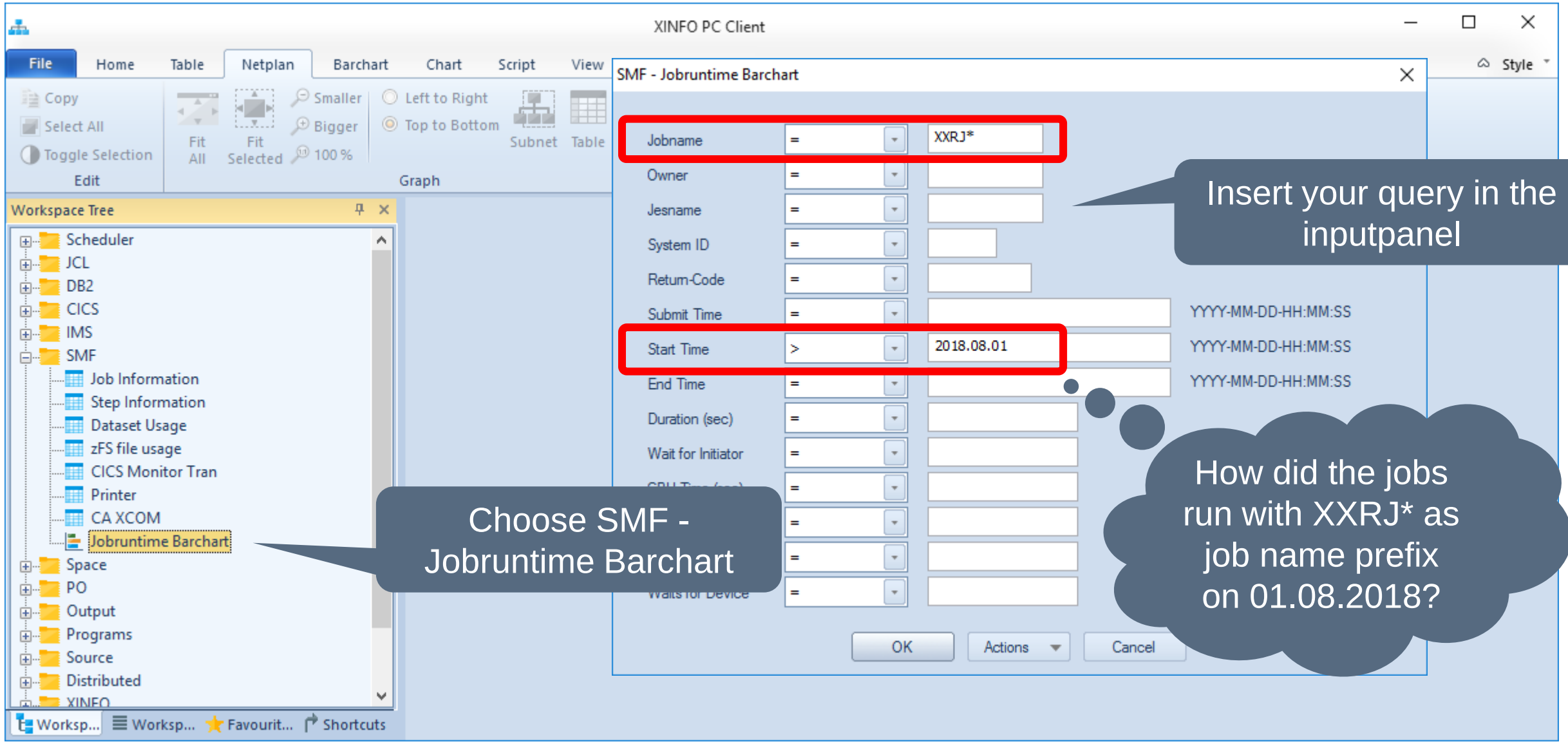
PC Client - SMF Barchart

A SMF Barchart displays SMF Information graphically

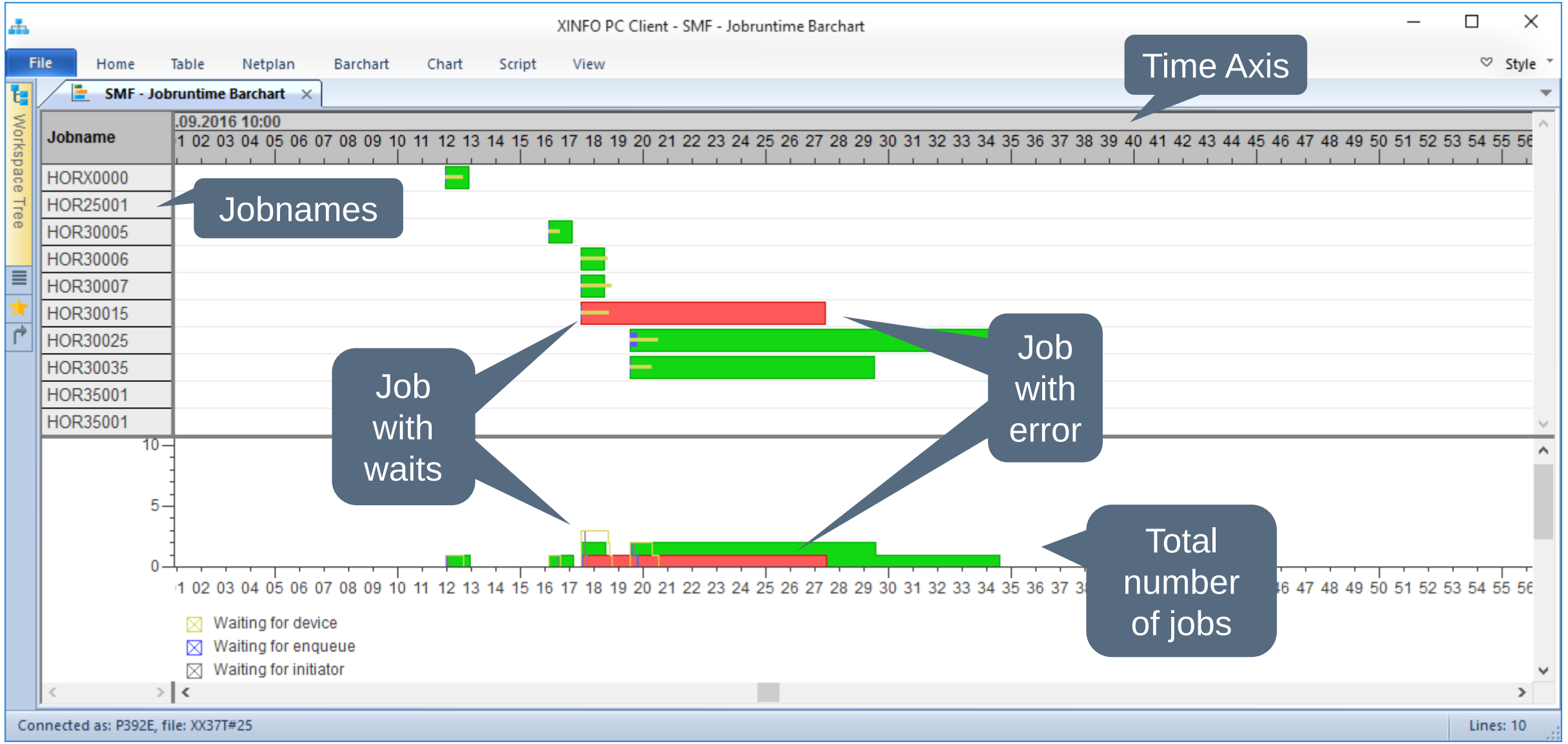
- Jobnames
- Starttime
- Endtime
- Waittime
- Errorjobs
- Summary Curve



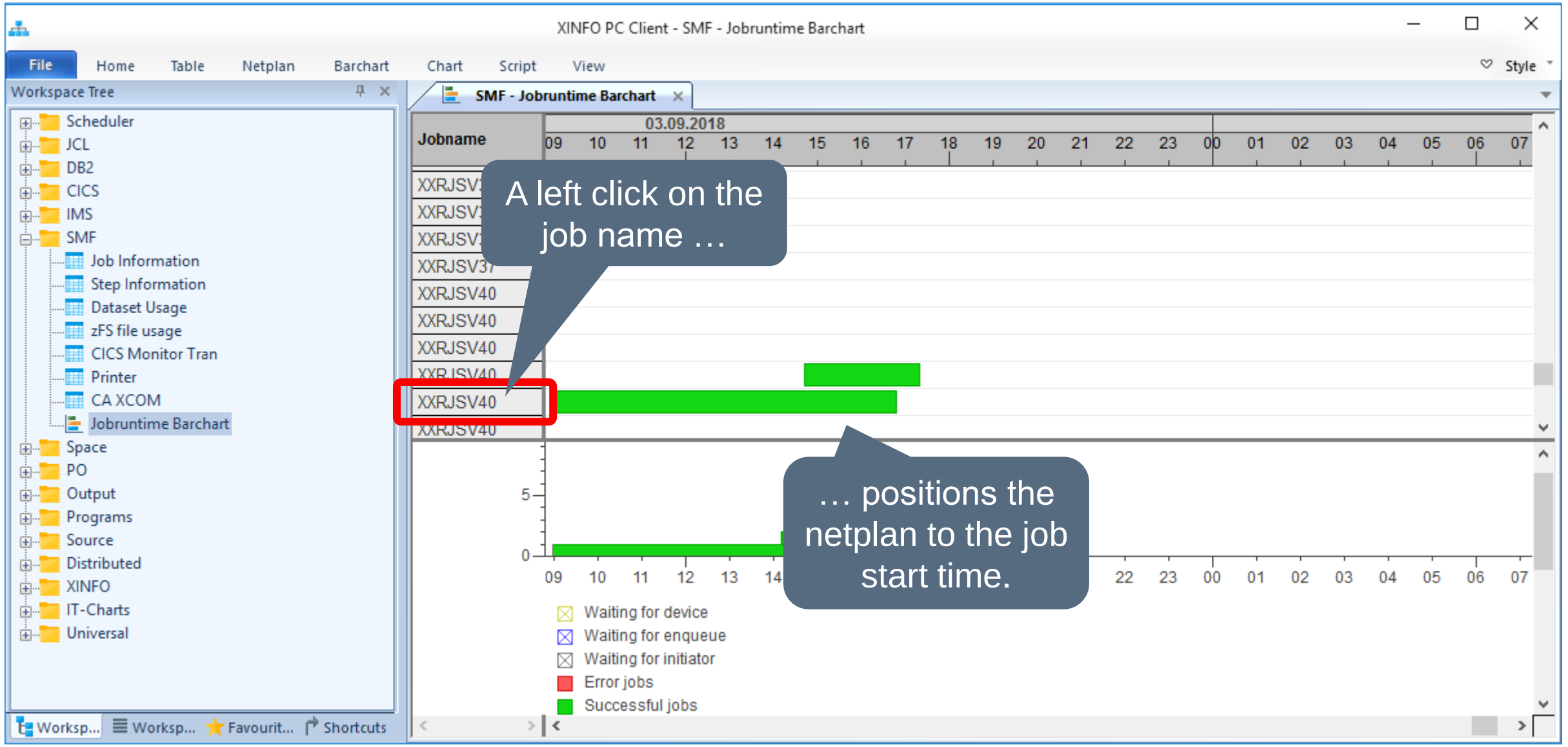
PC Client - SMF Barchart



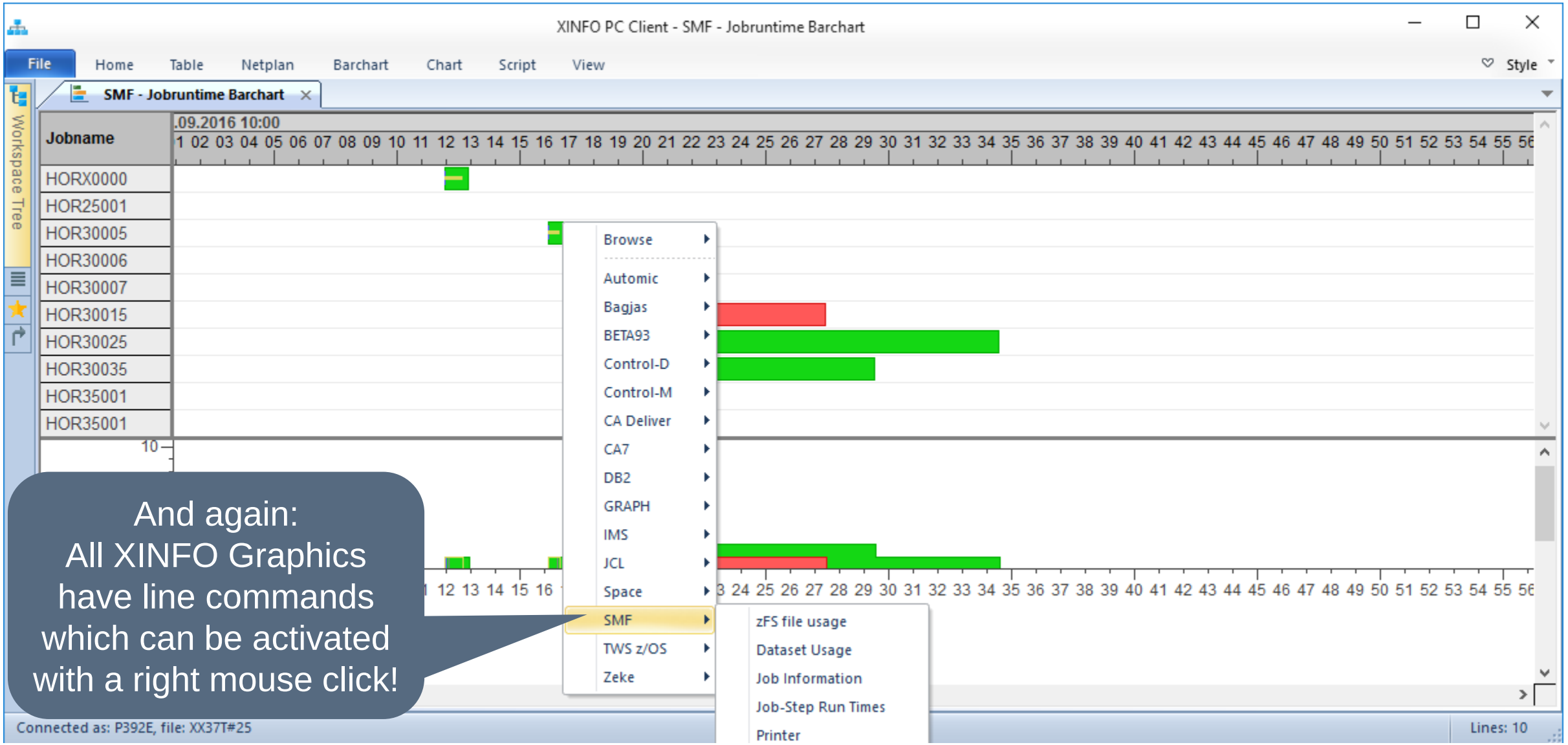
PC Client - SMF Barchart Overview



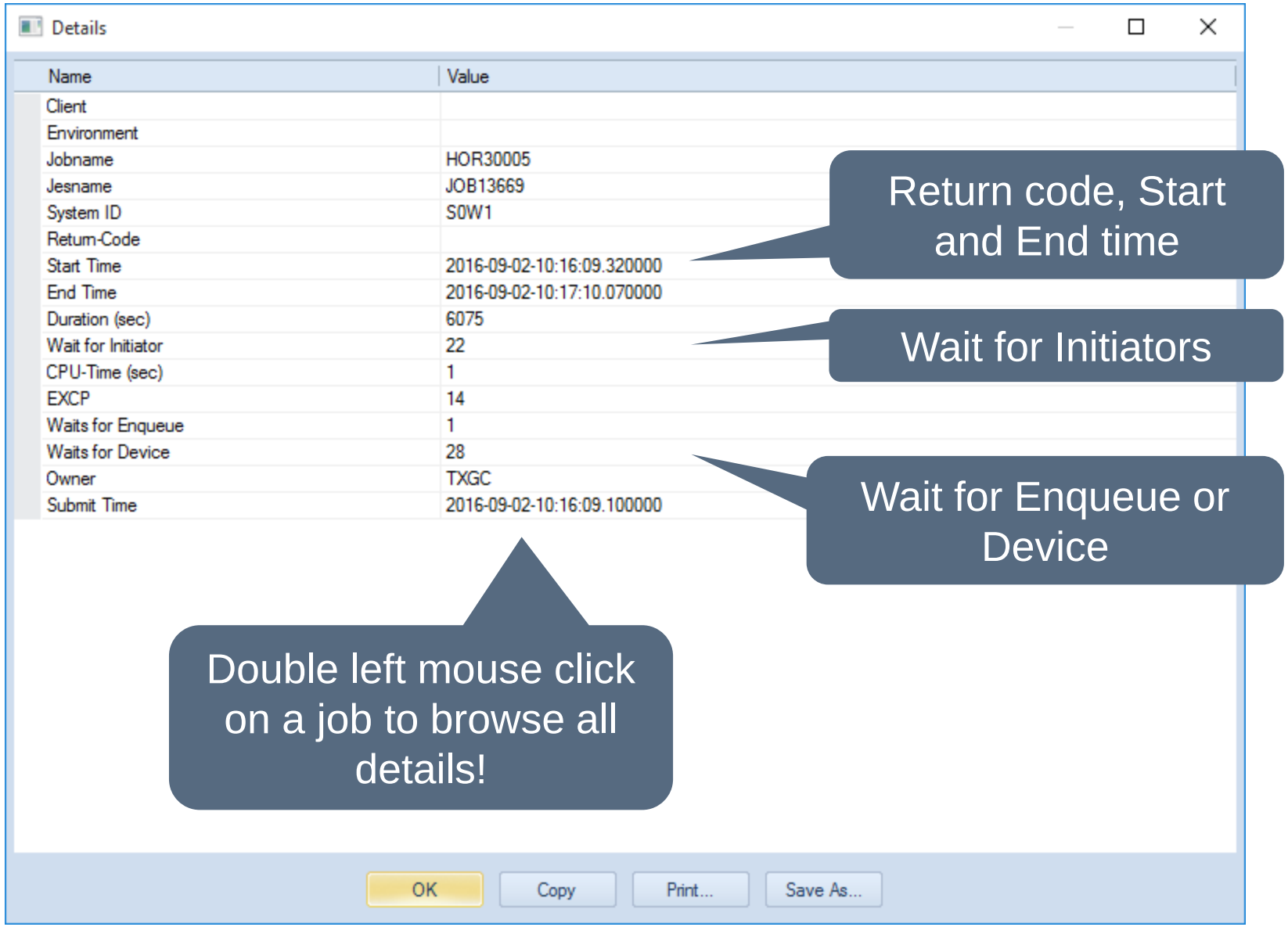
PC Client - Barchart



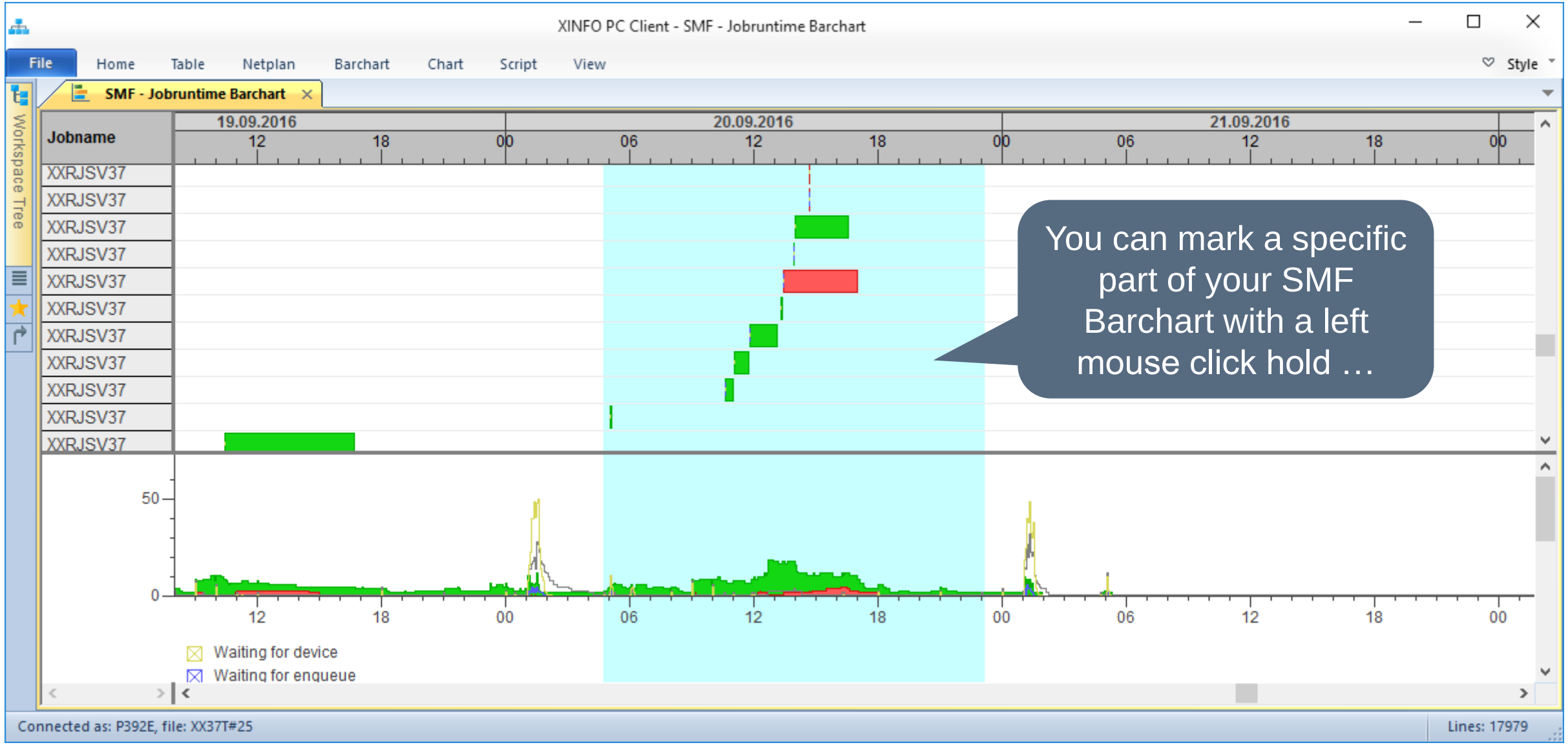
PC Client - SMF Barchart Line Commands



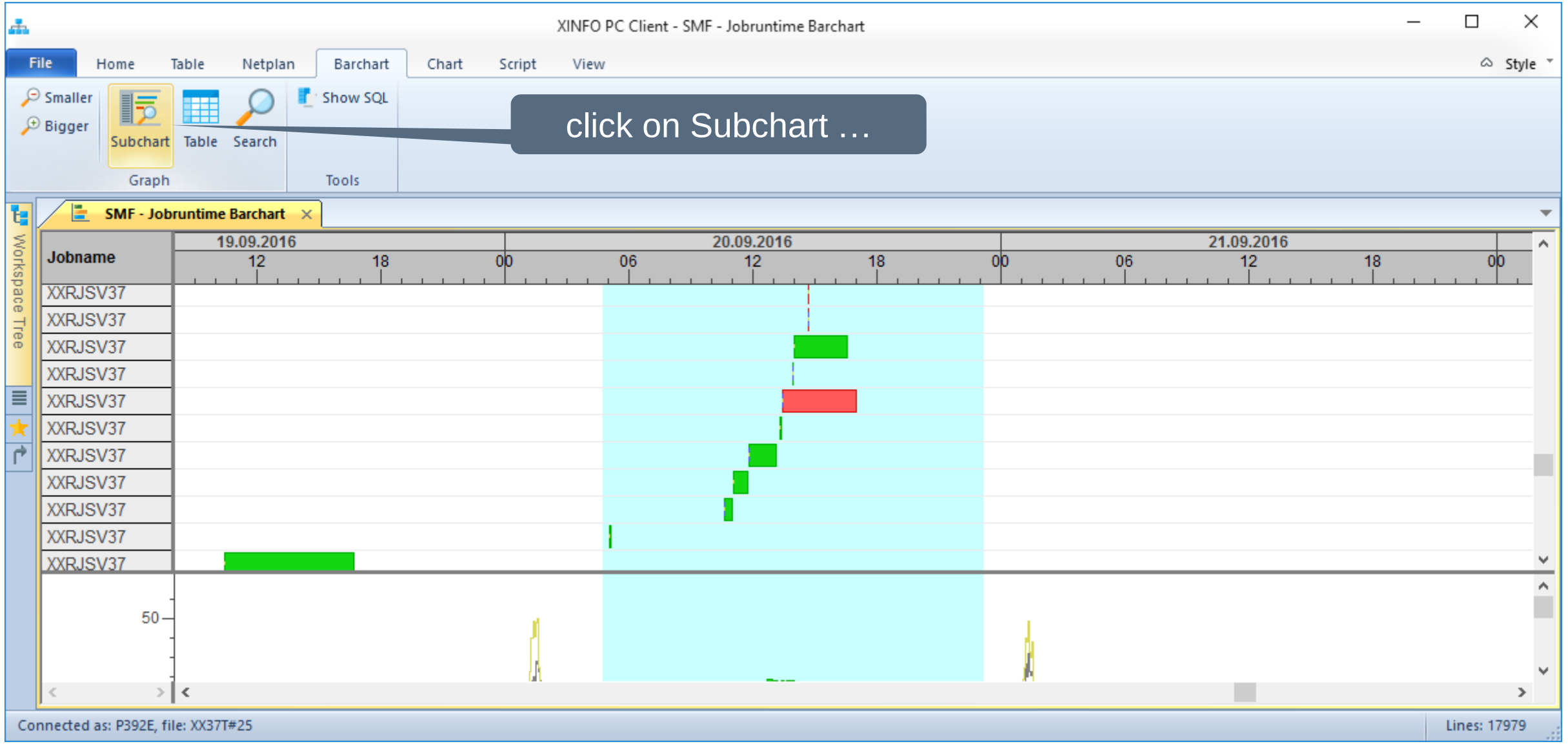
PC Client - SMF Barchart Line Commands



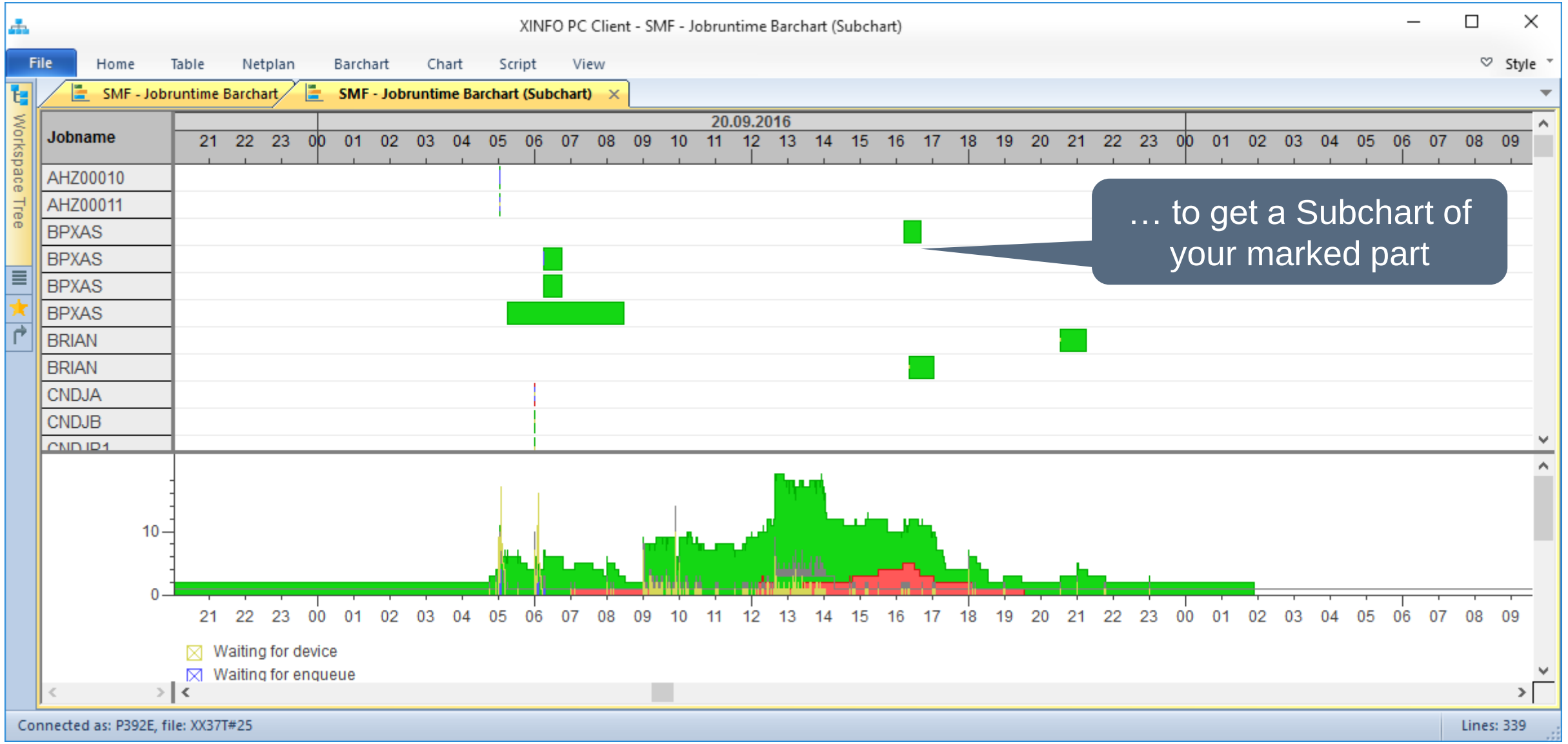
PC Client - SMF Barchart Subchart



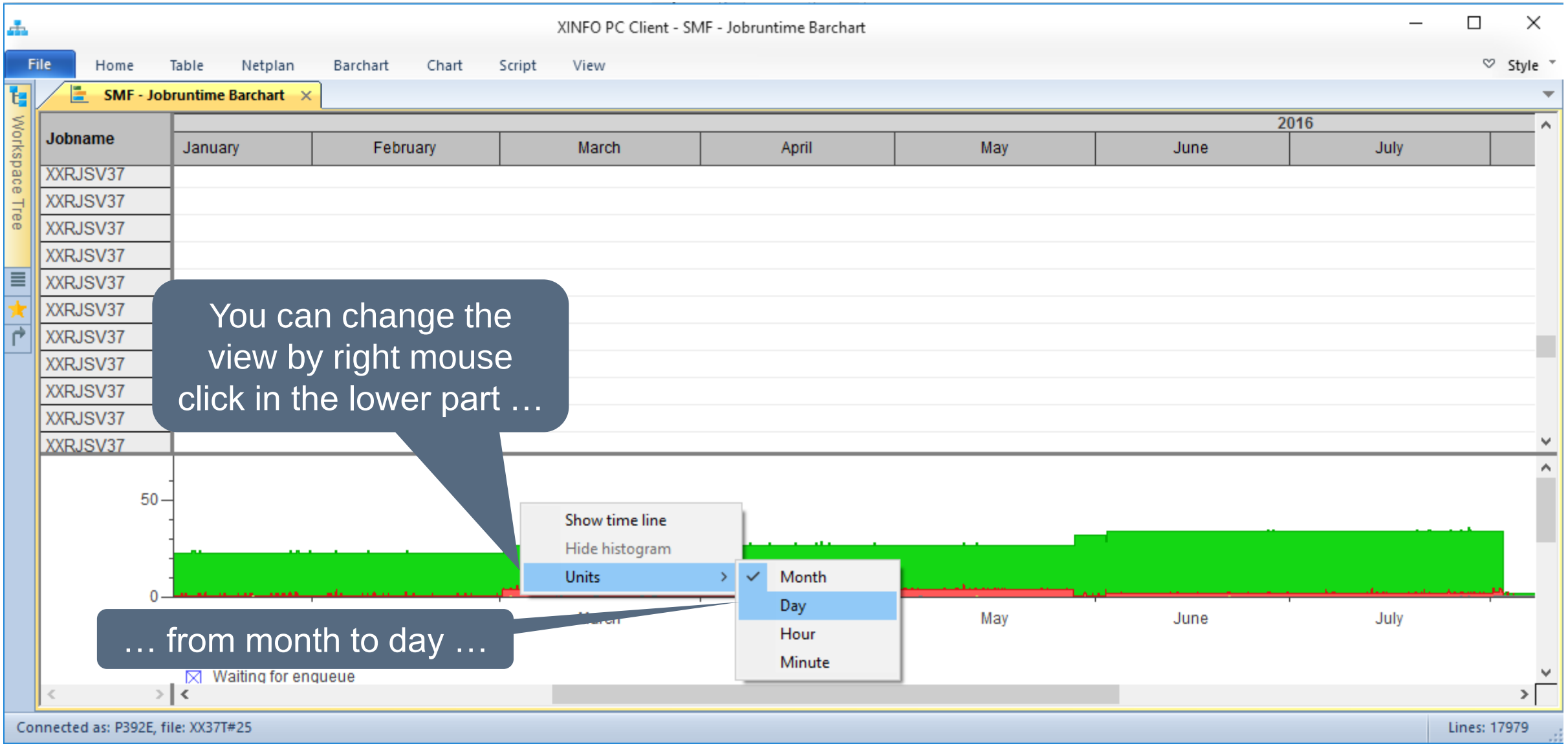
PC Client - SMF Barchart Subchart



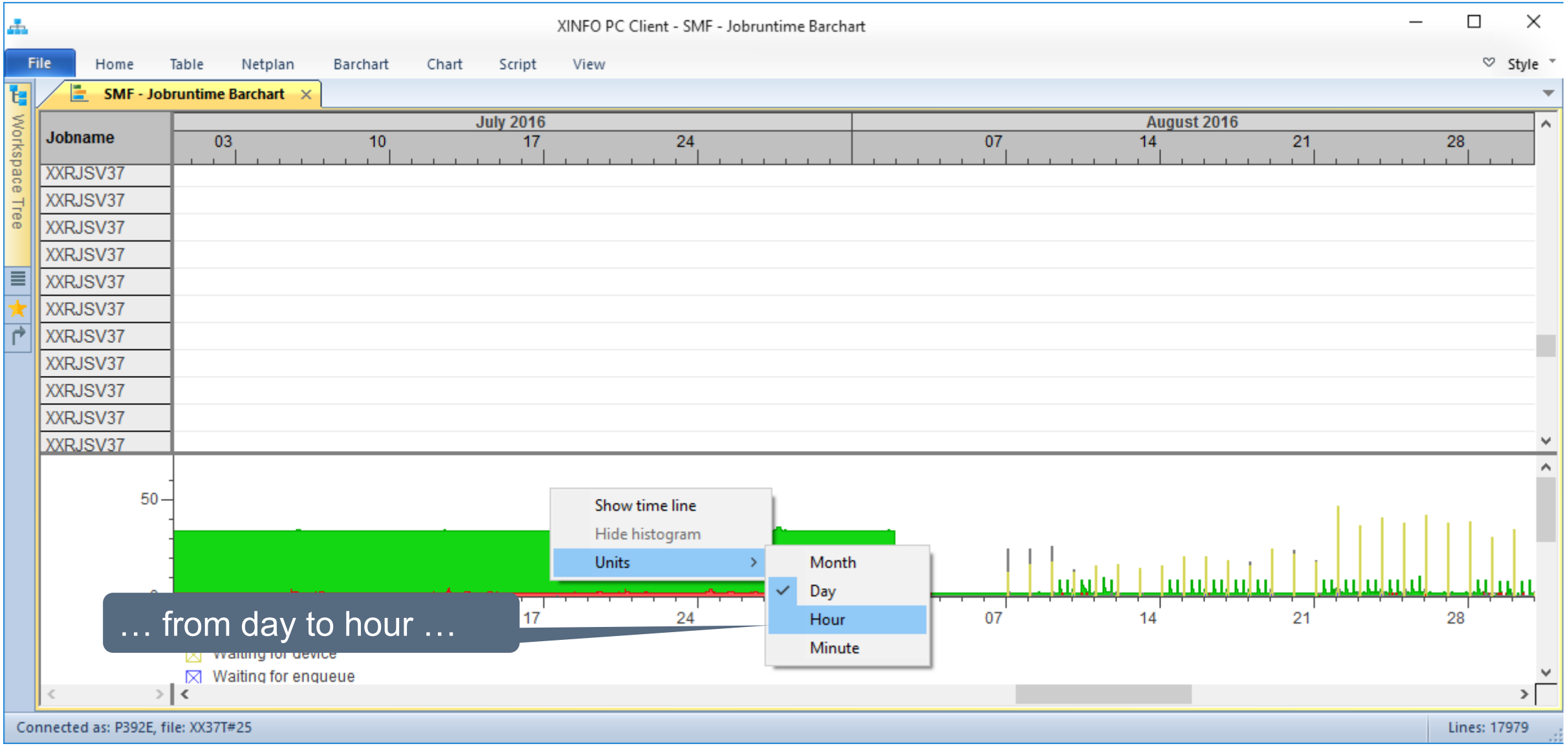
PC Client - SMF Barchart Subchart



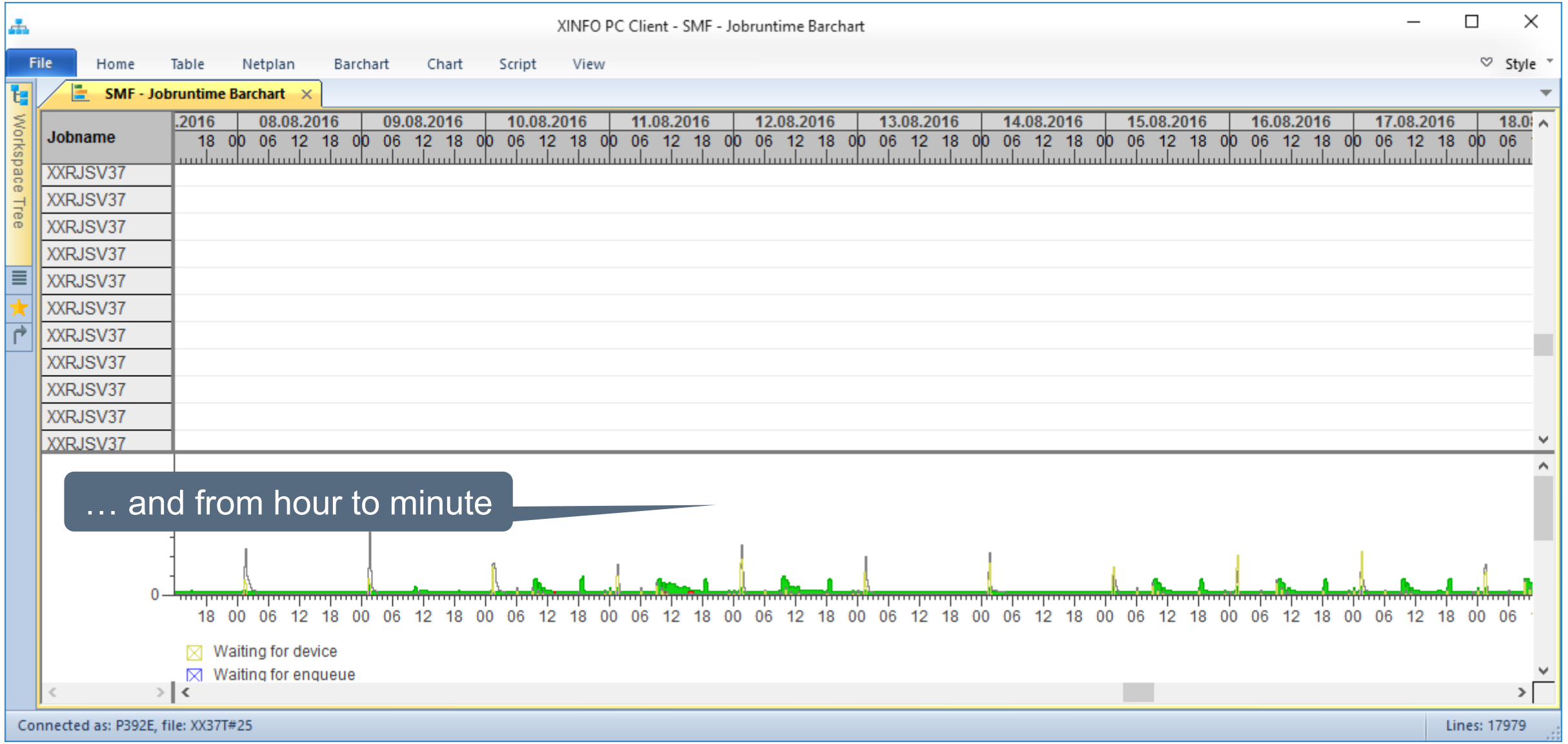
PC Client - SMF Barchart



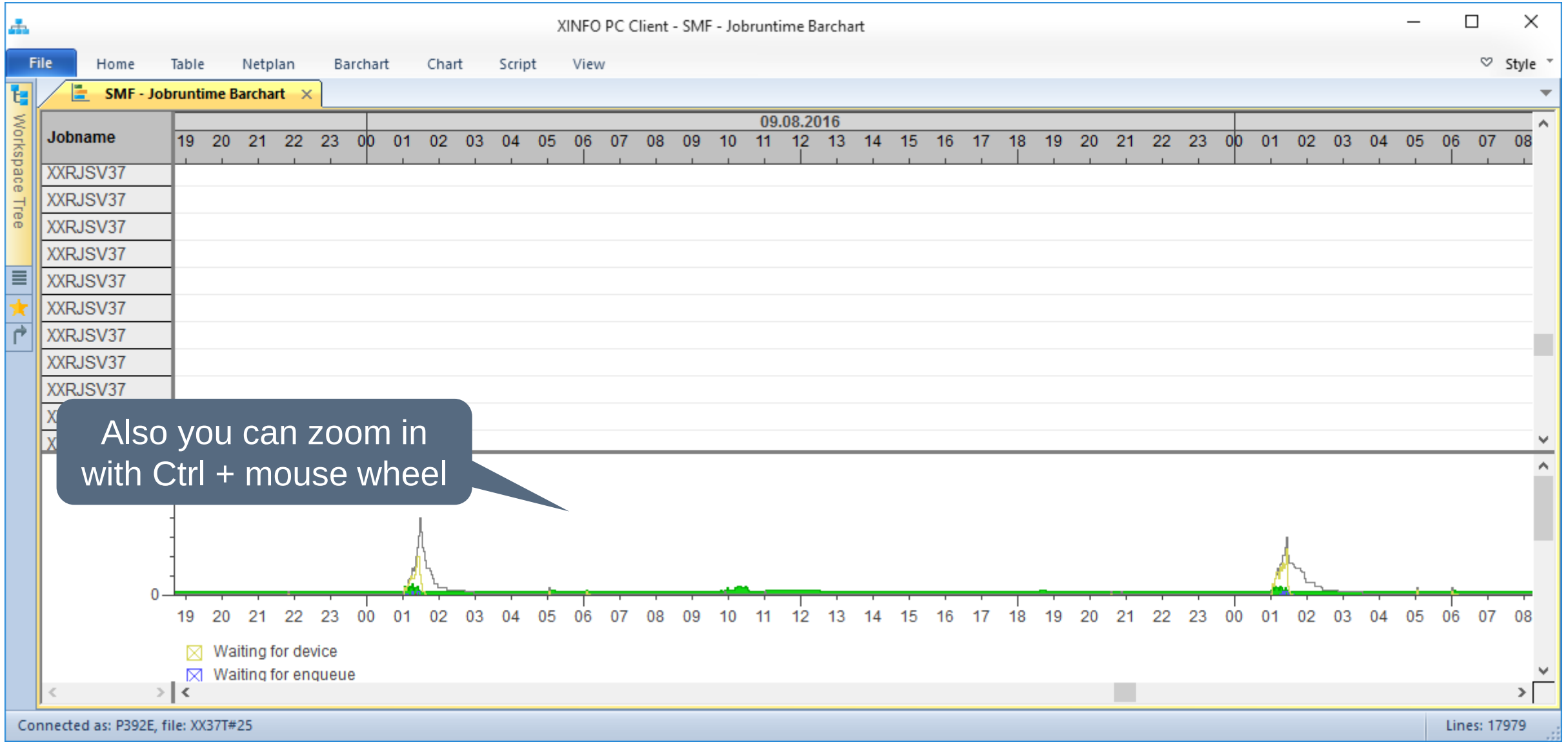
PC Client - SMF Barchart



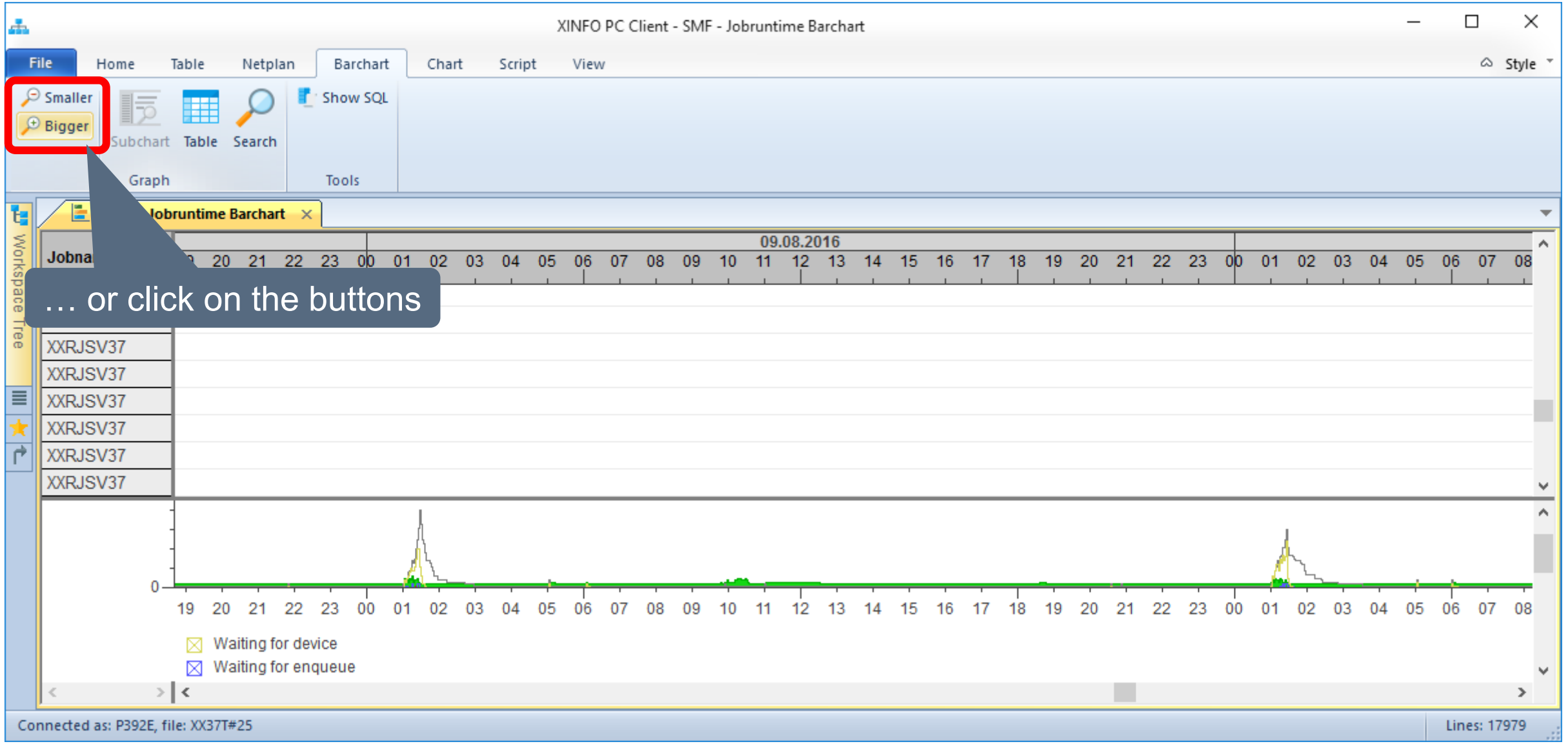
PC Client - SMF Barchart



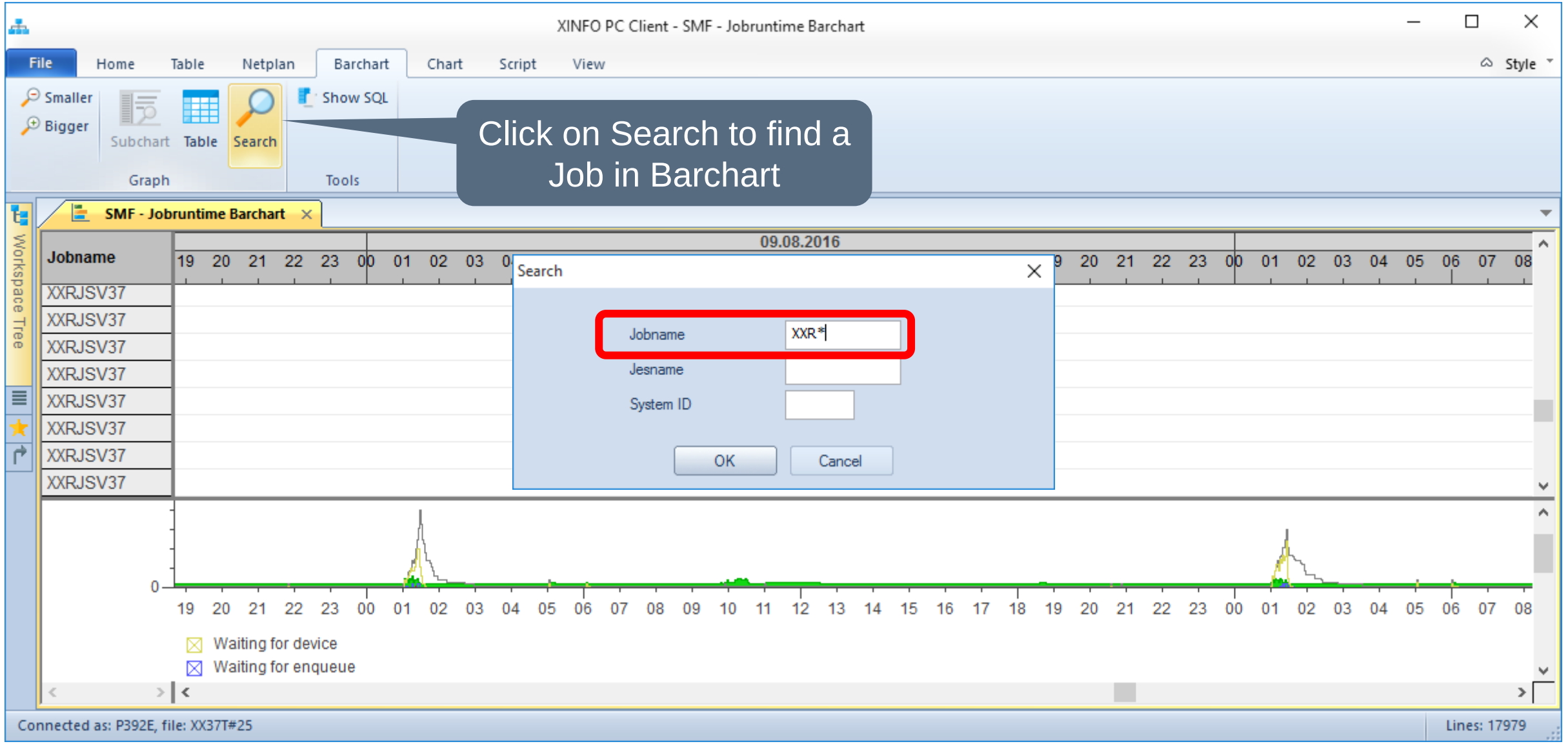
PC Client - SMF Barchart Zoom



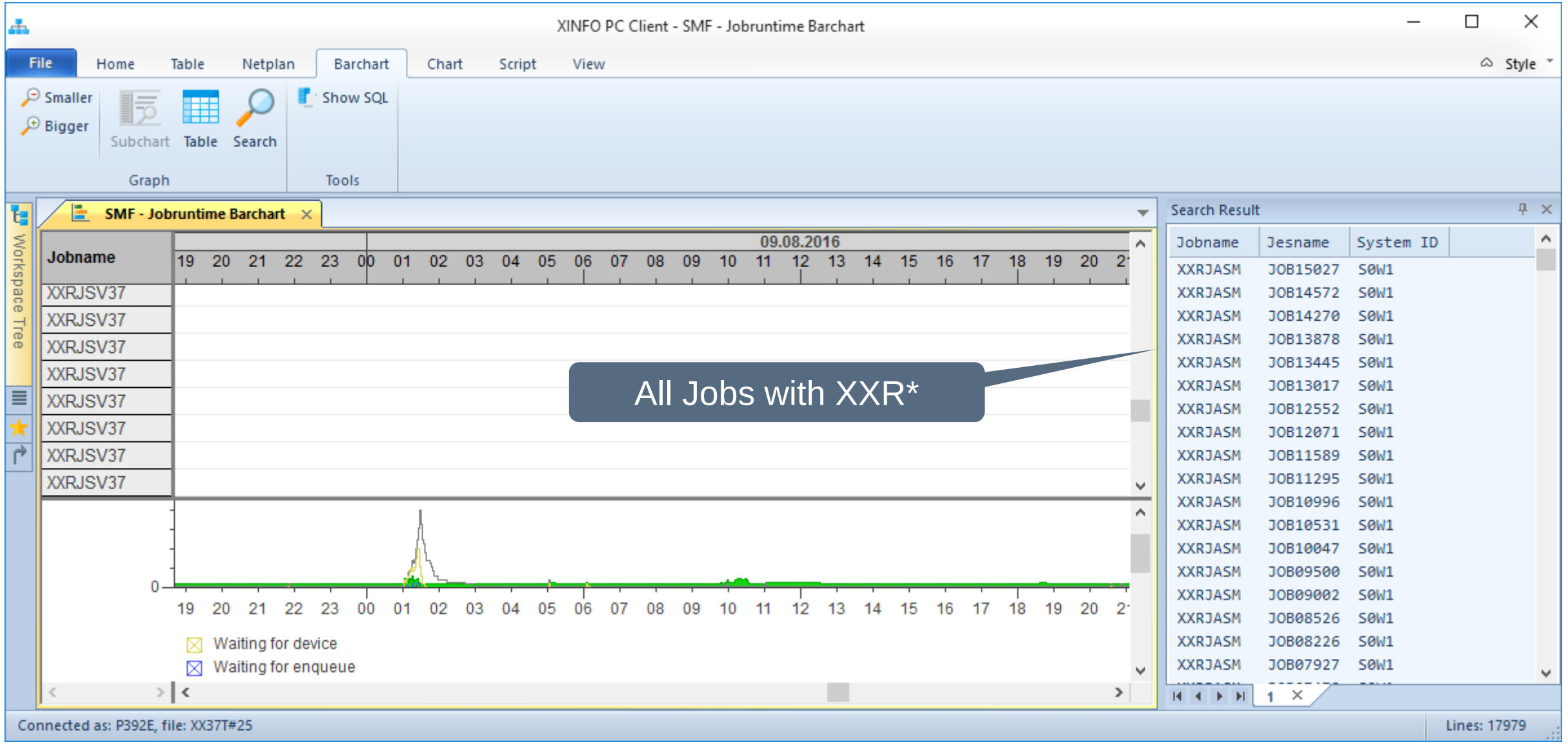
PC Client - SMF Barchart Zoom



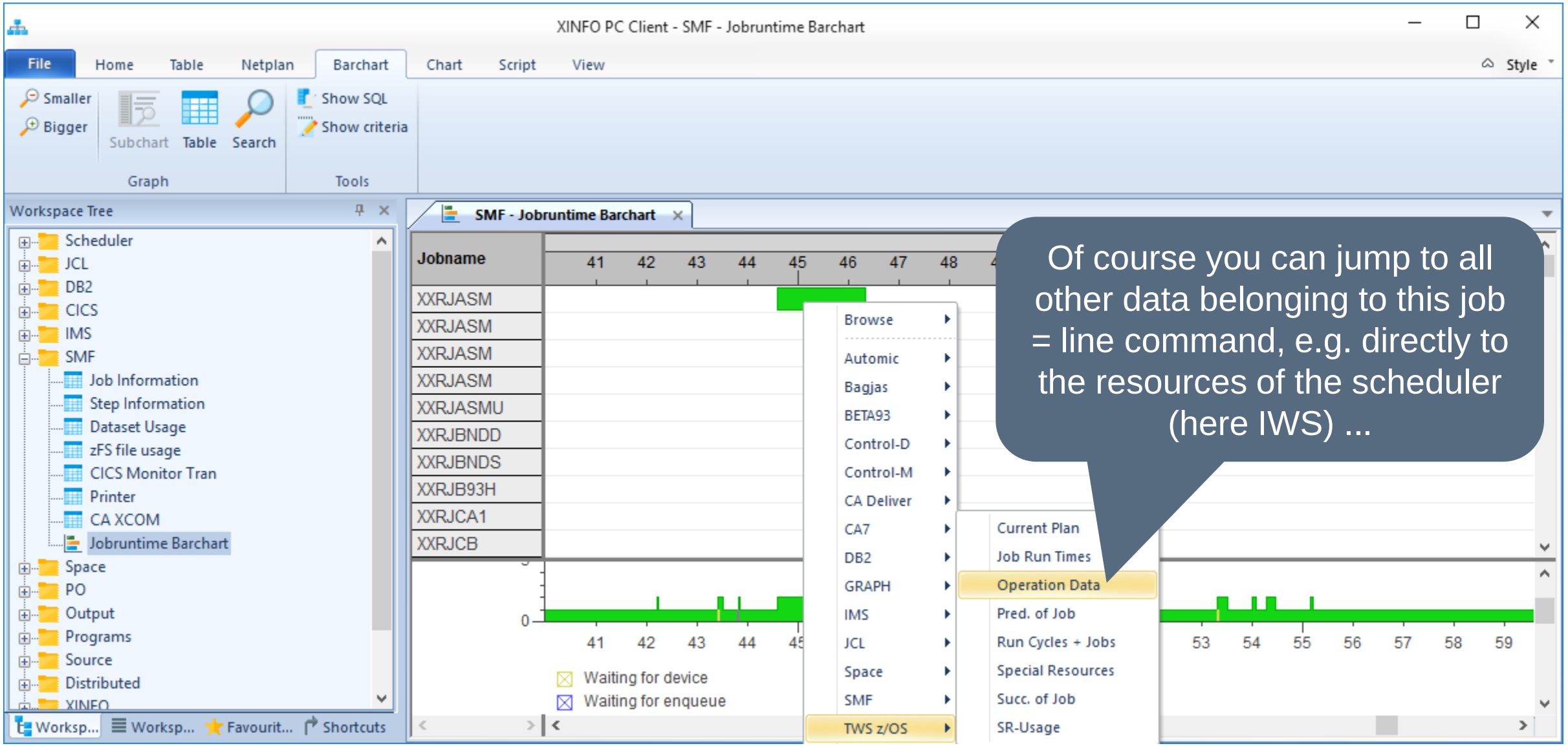
PC Client - SMF Barchart Search



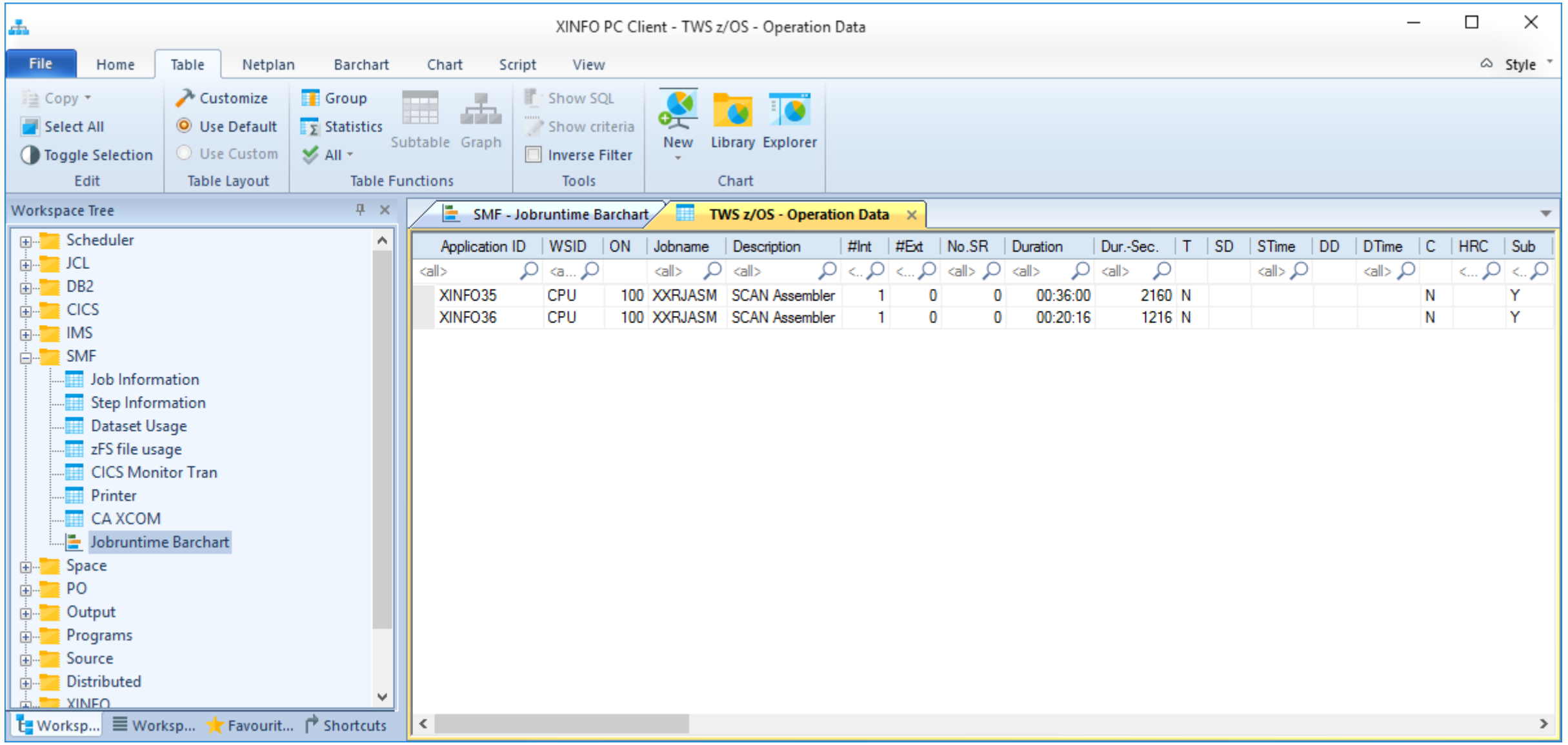
PC Client - SMF Barchart Search



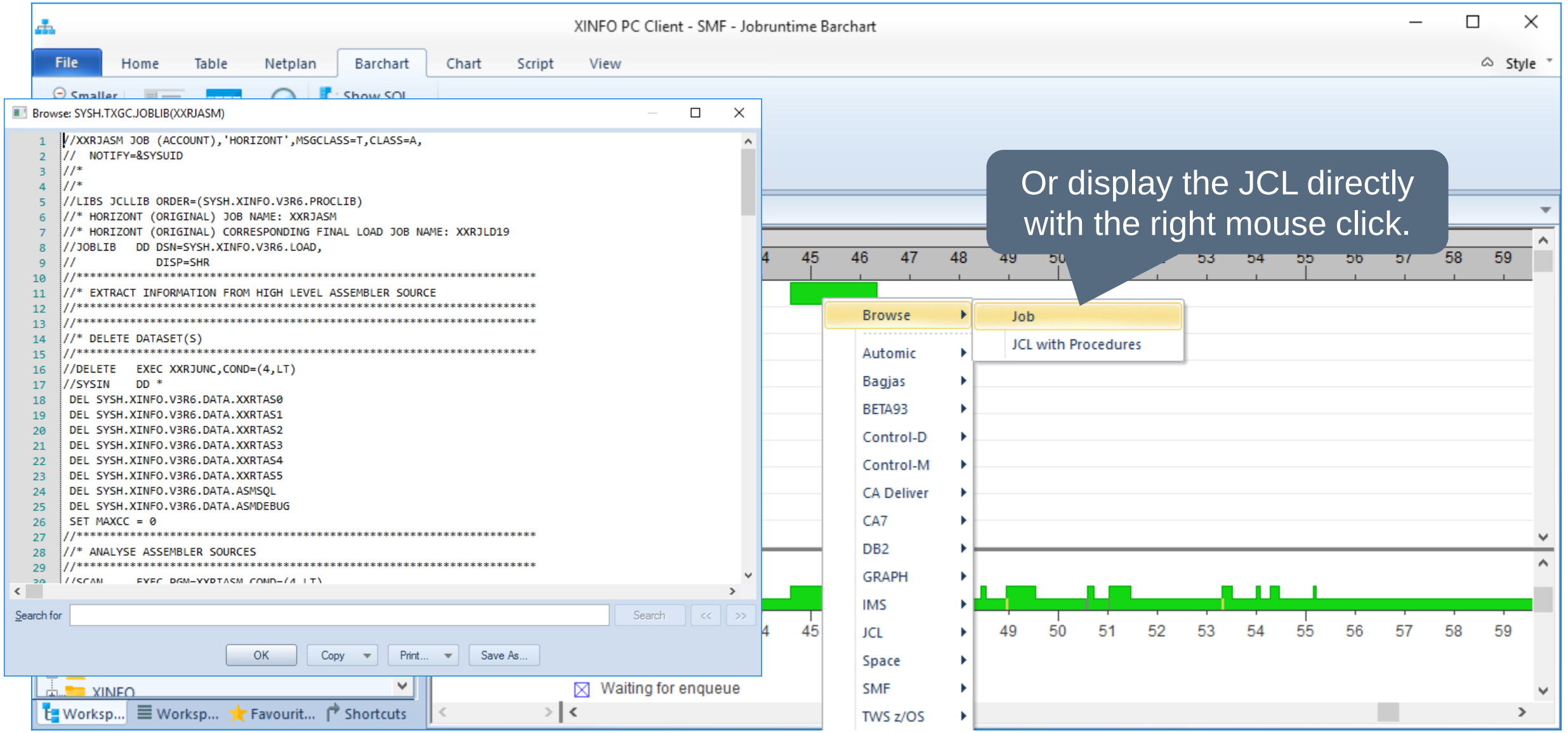
PC Client - SMF Barchart Line commands



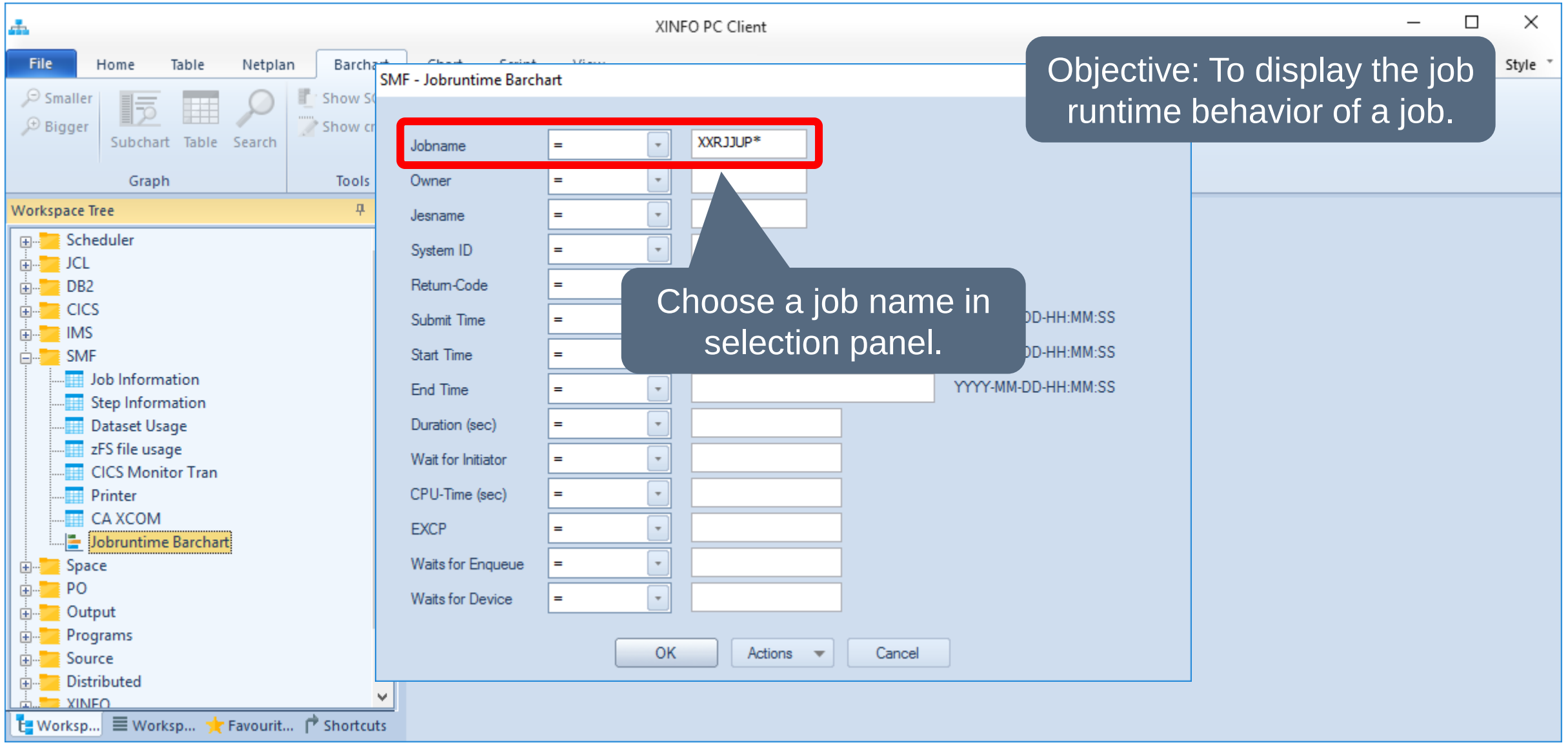
PC Client - SMF Barchart Line commands



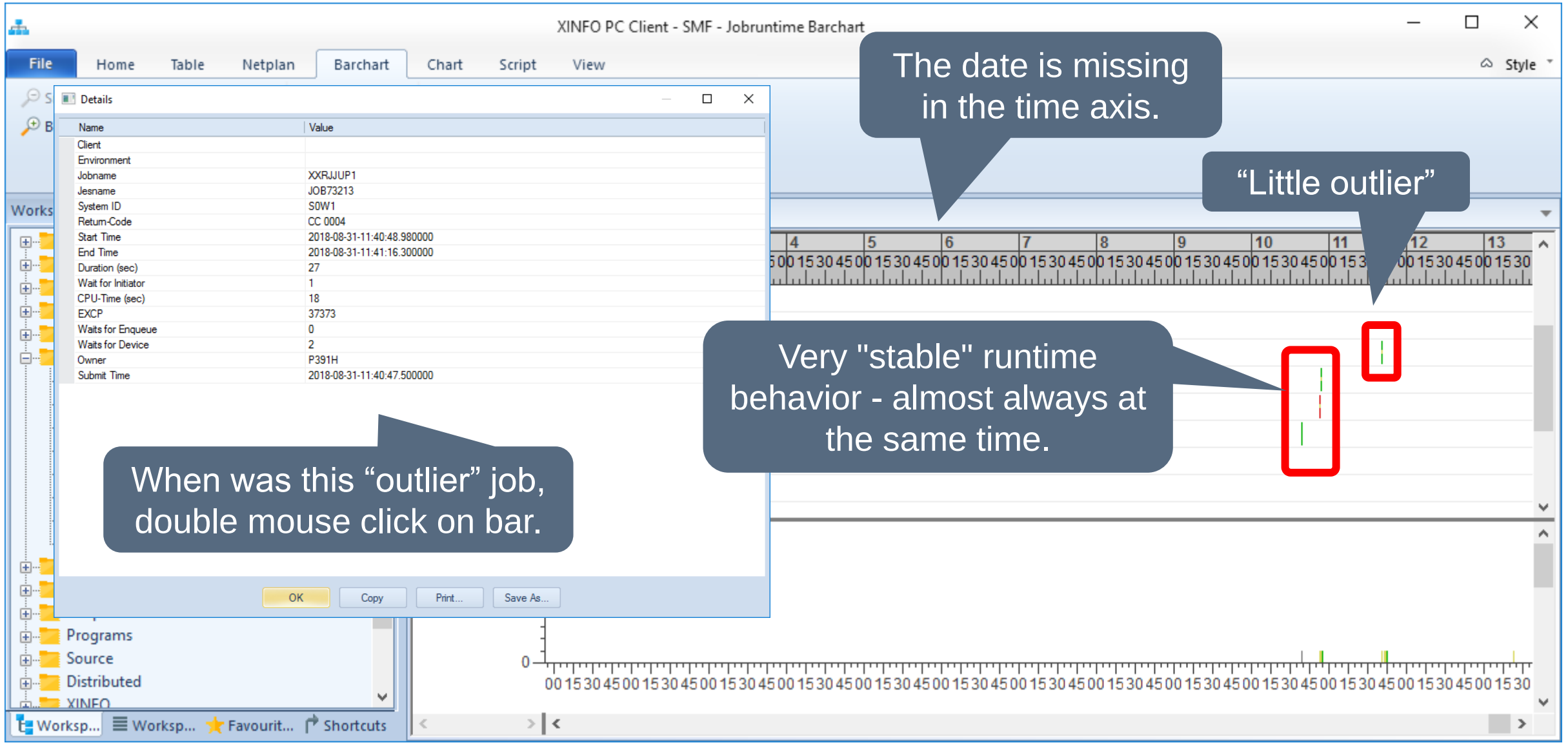
PC Client - SMF Barchart Line commands



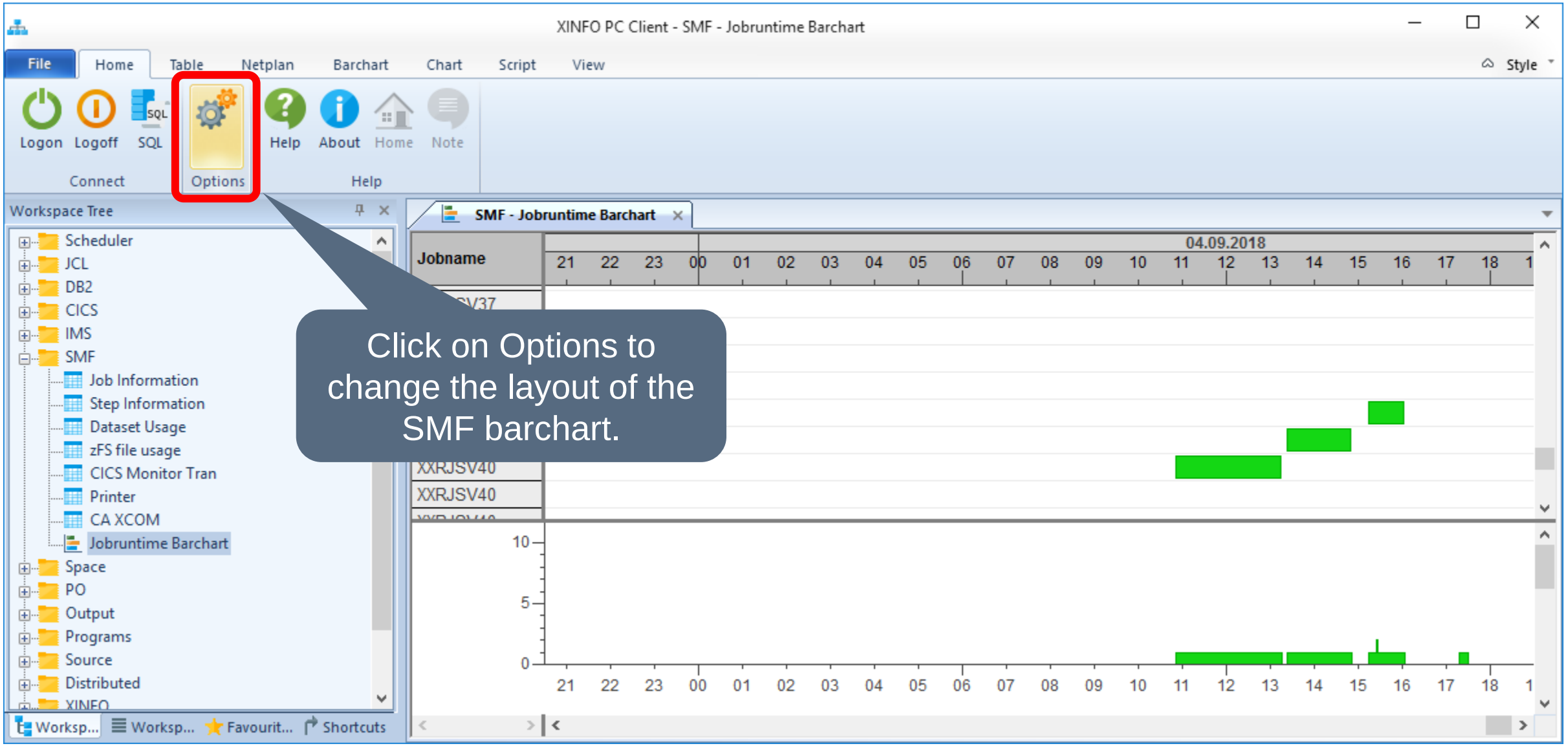
PC Client - SMF Barchart of a job



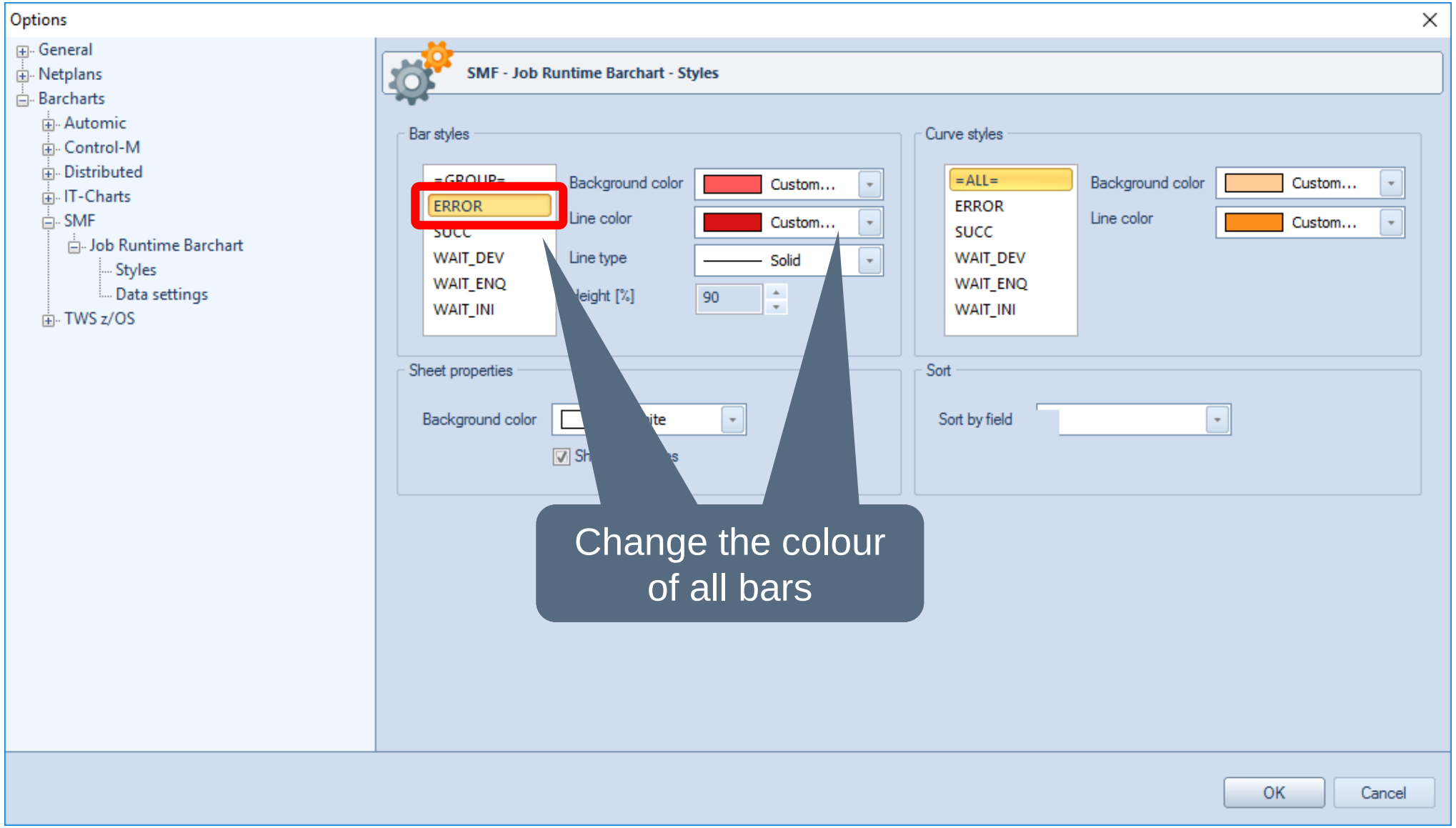
PC Client - SMF Barchart of a job



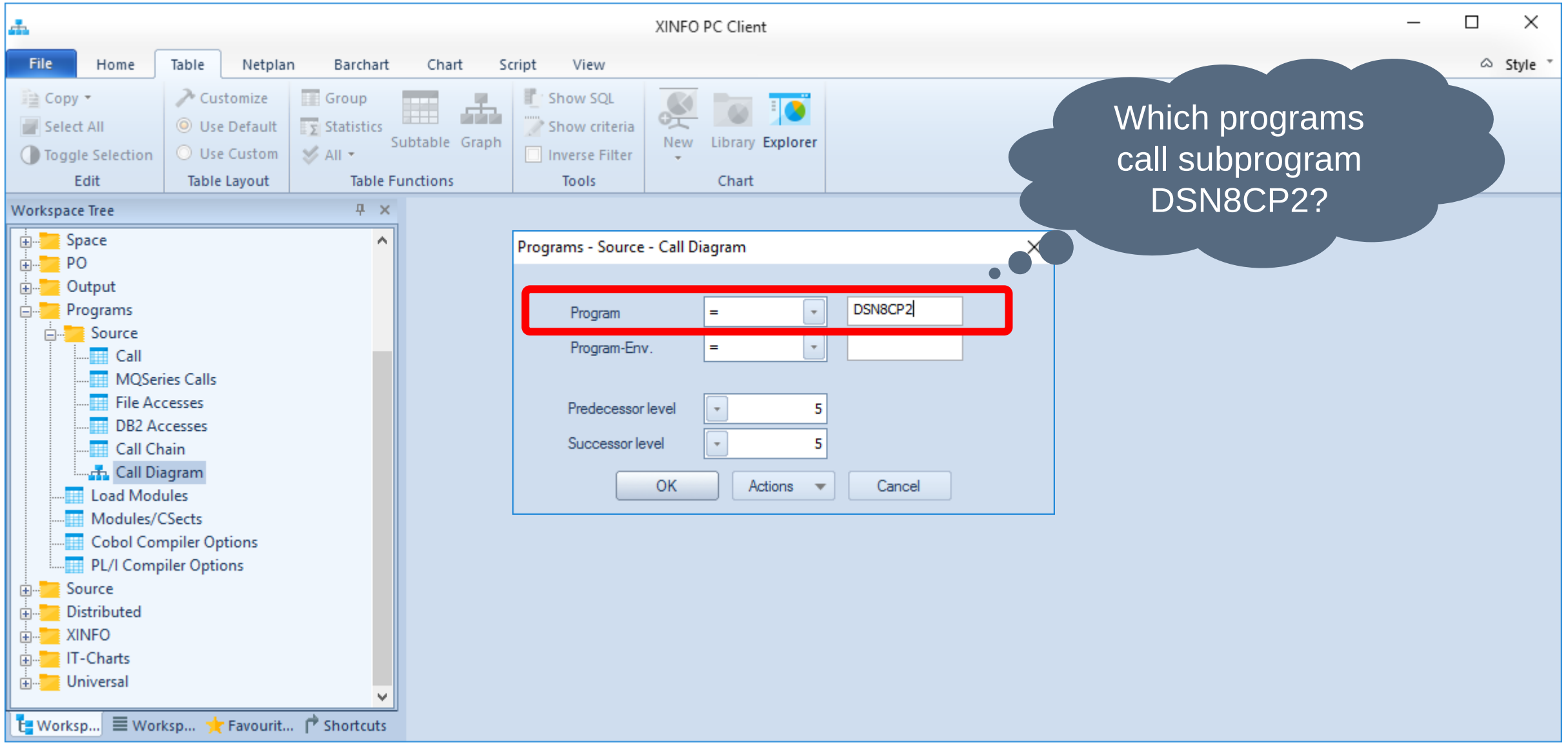
PC Client - Barchart Options



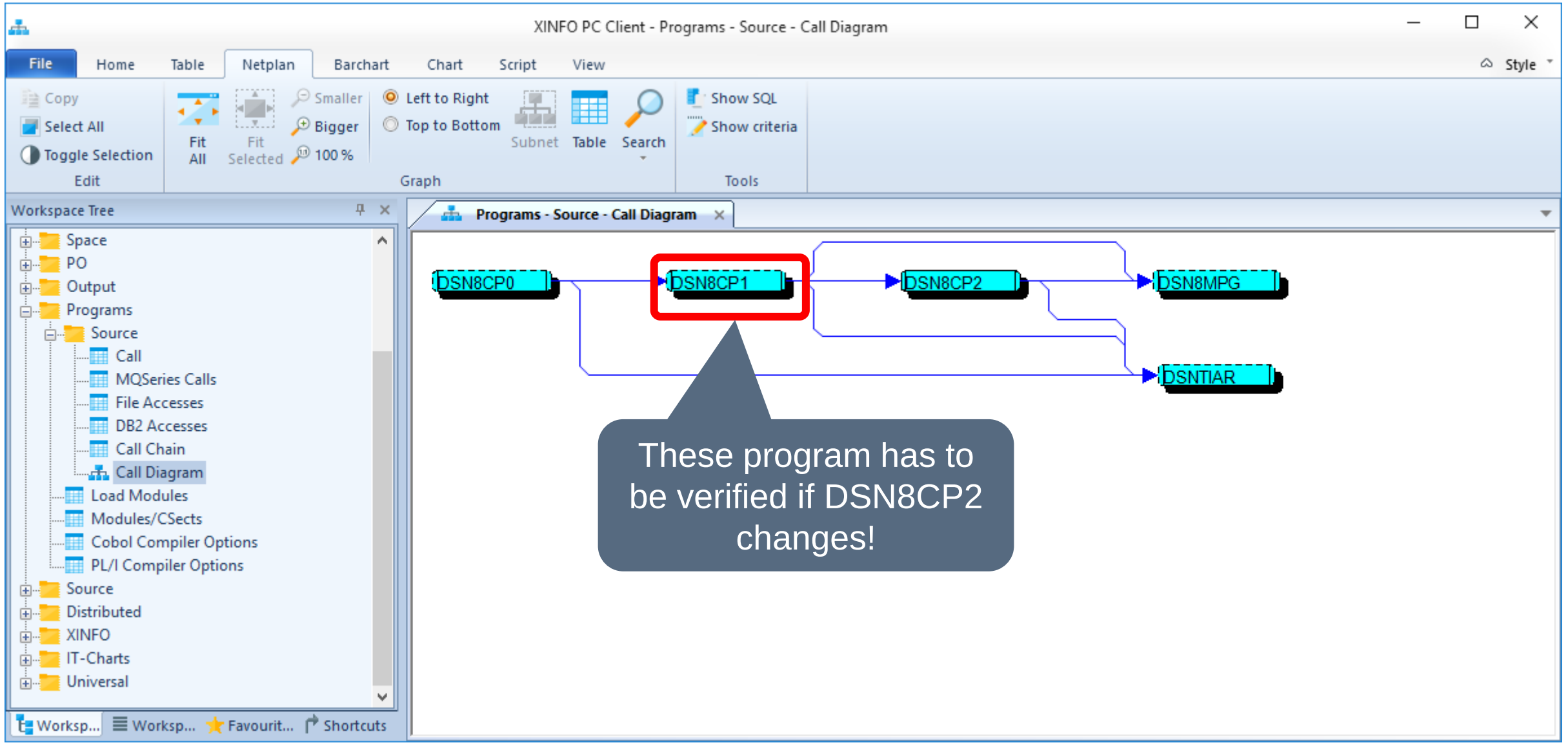
PC Client - Barchart Options



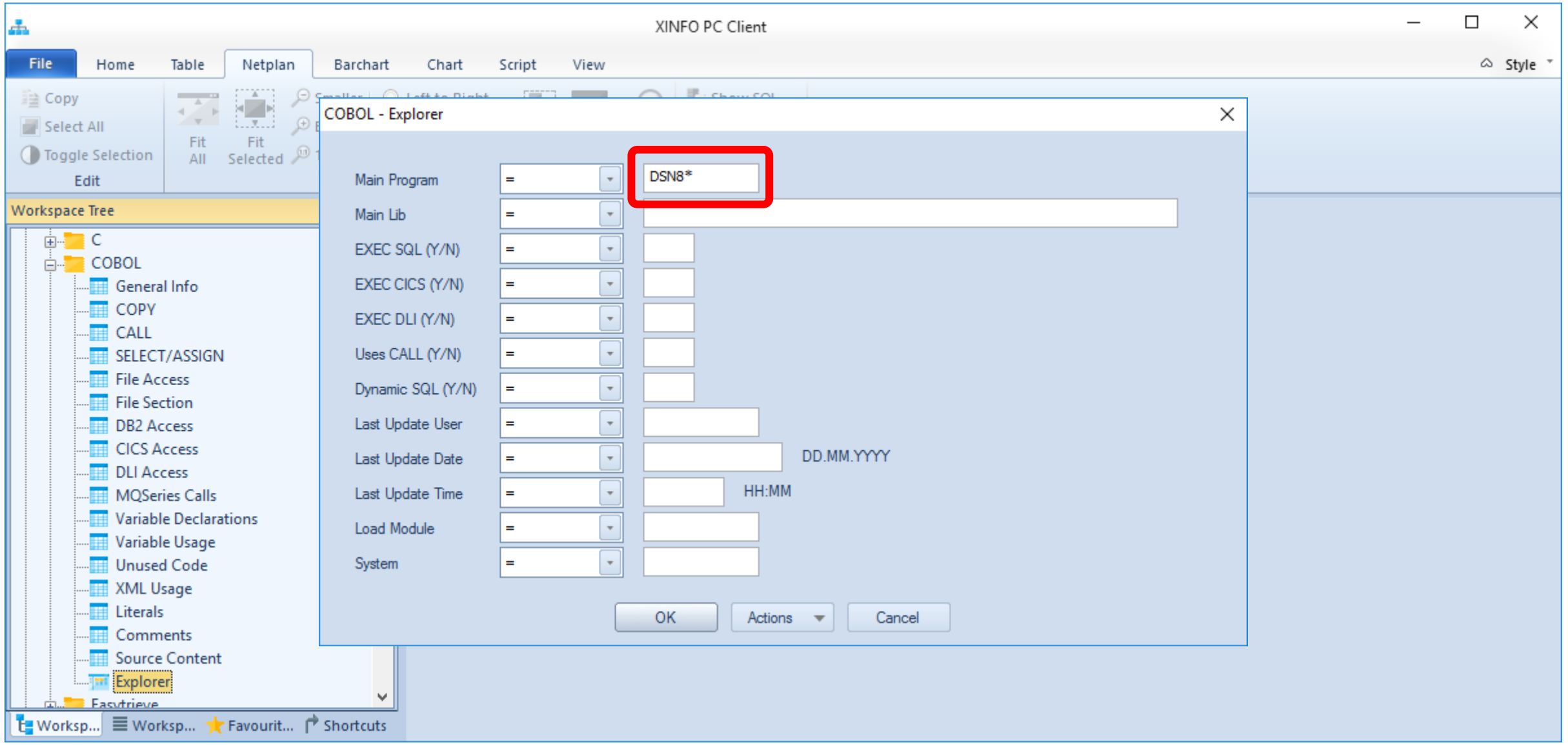
PC Client - Call Diagram



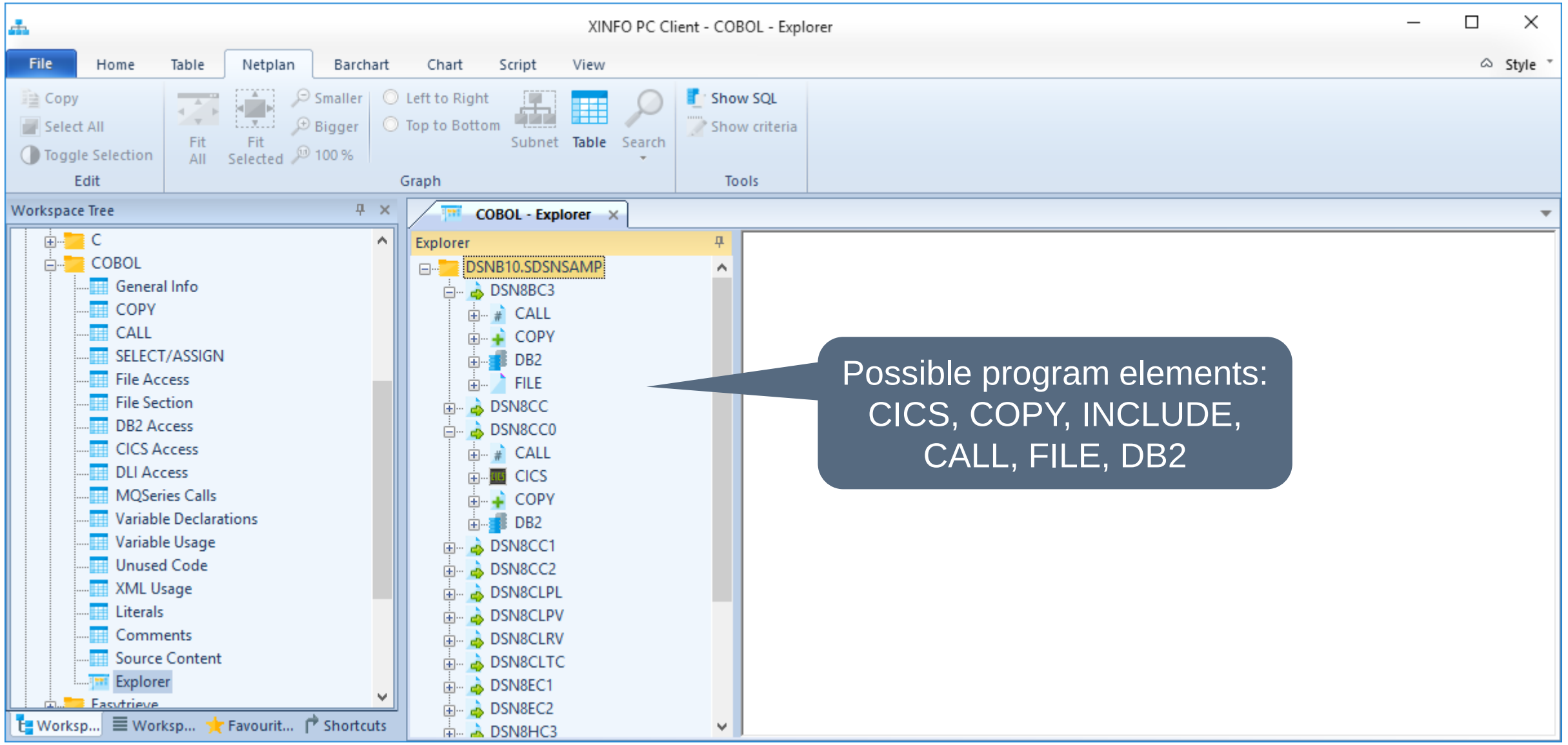
PC Client - Call Diagram



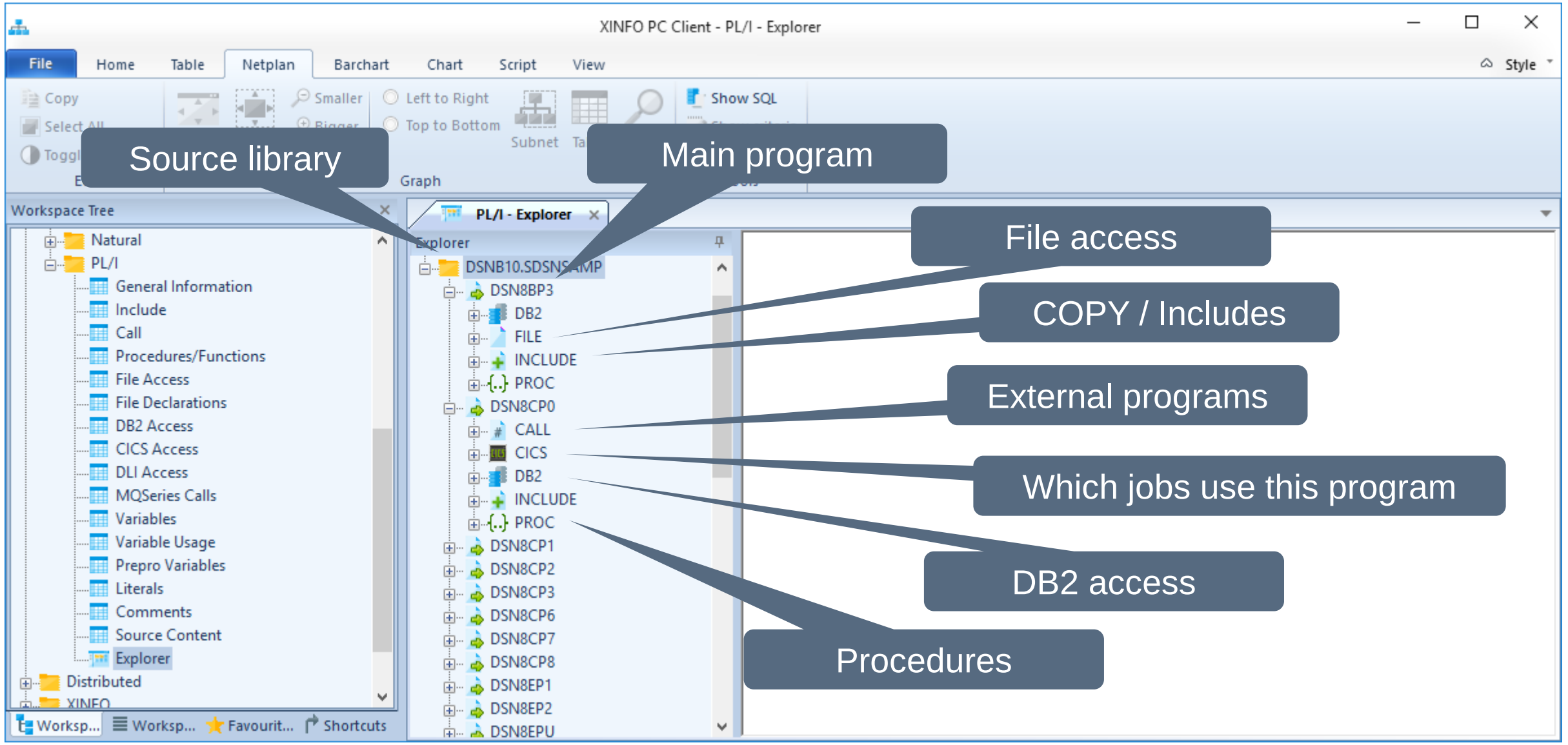
PC Client - Source Explorer



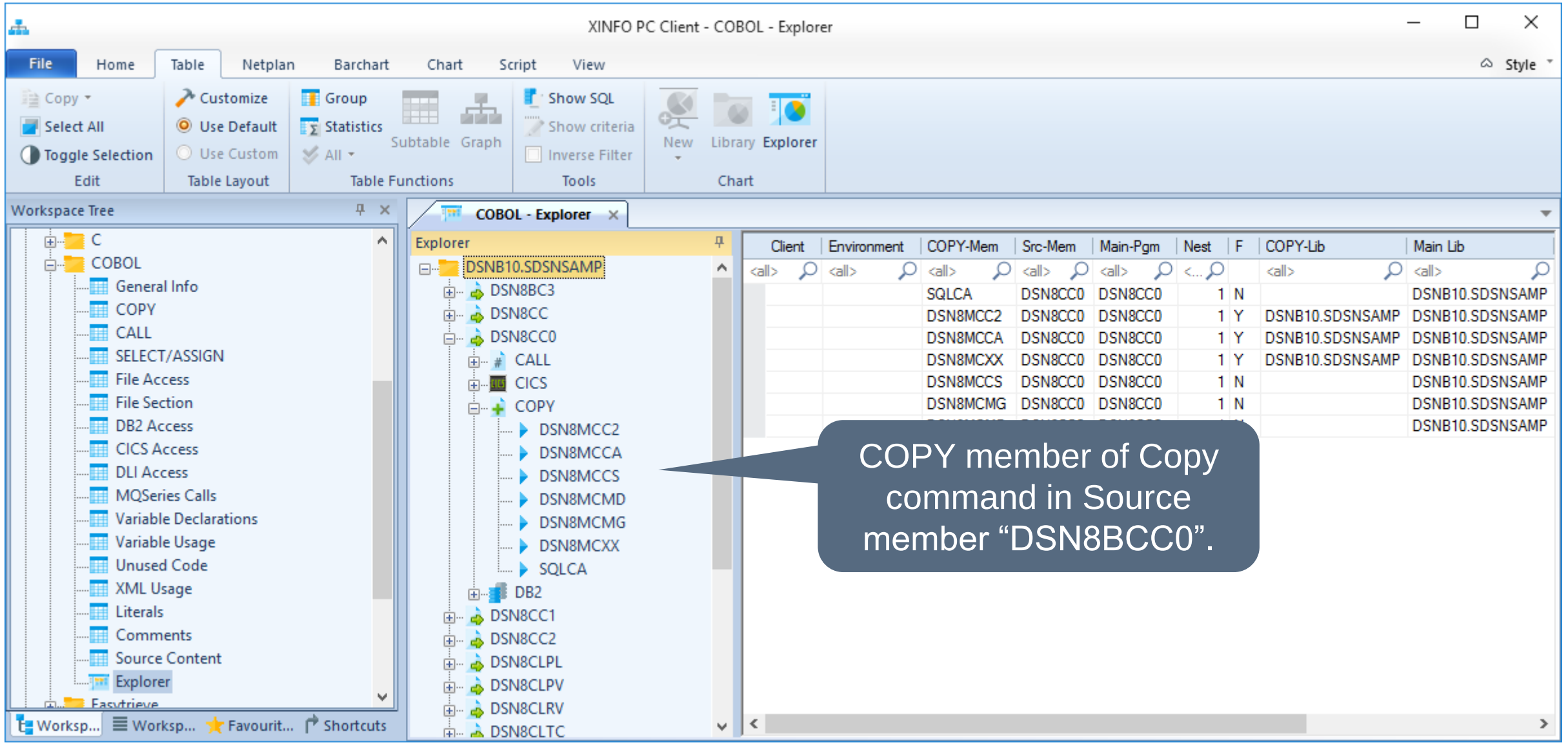
PC Client - Source Explorer



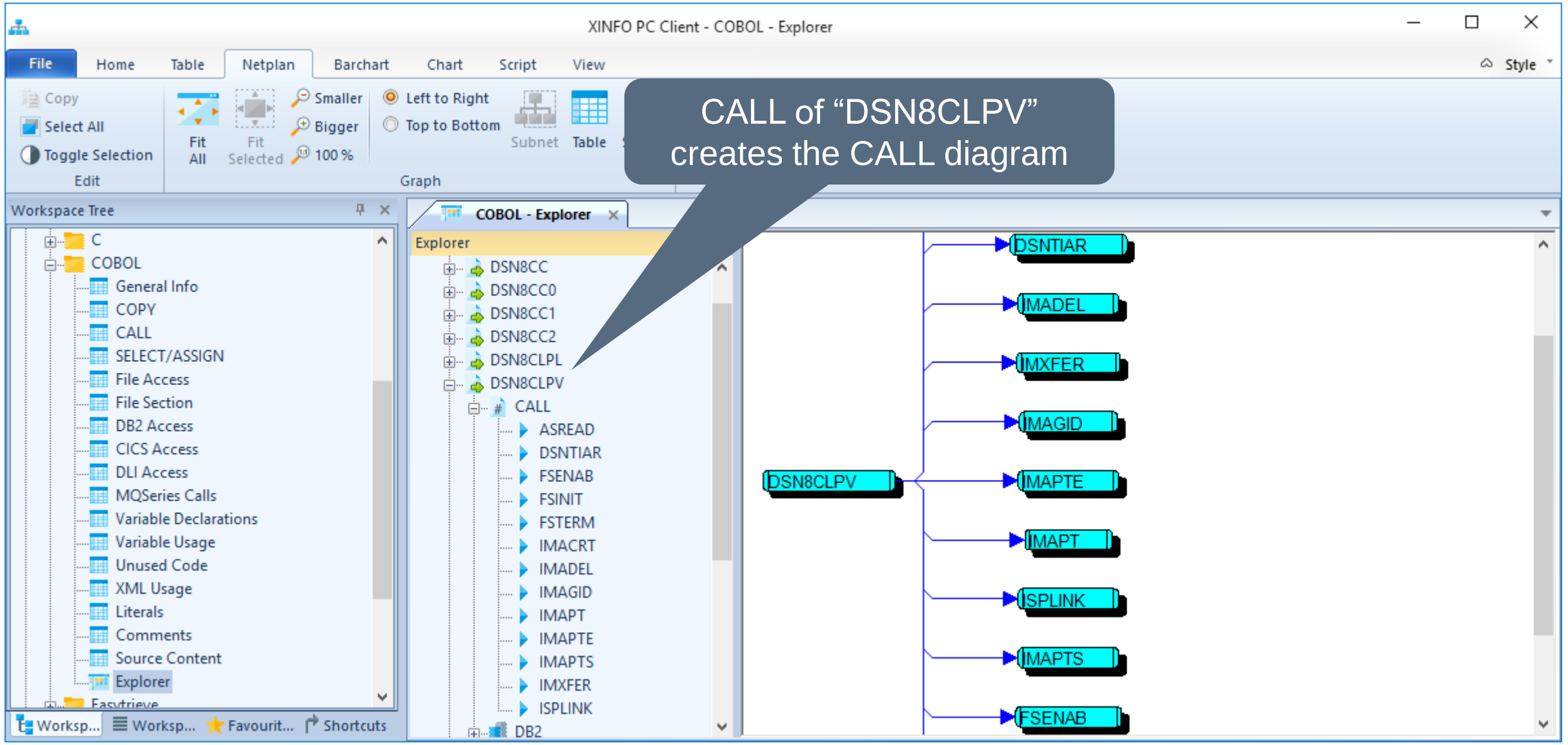
PC Client - Source Explorer



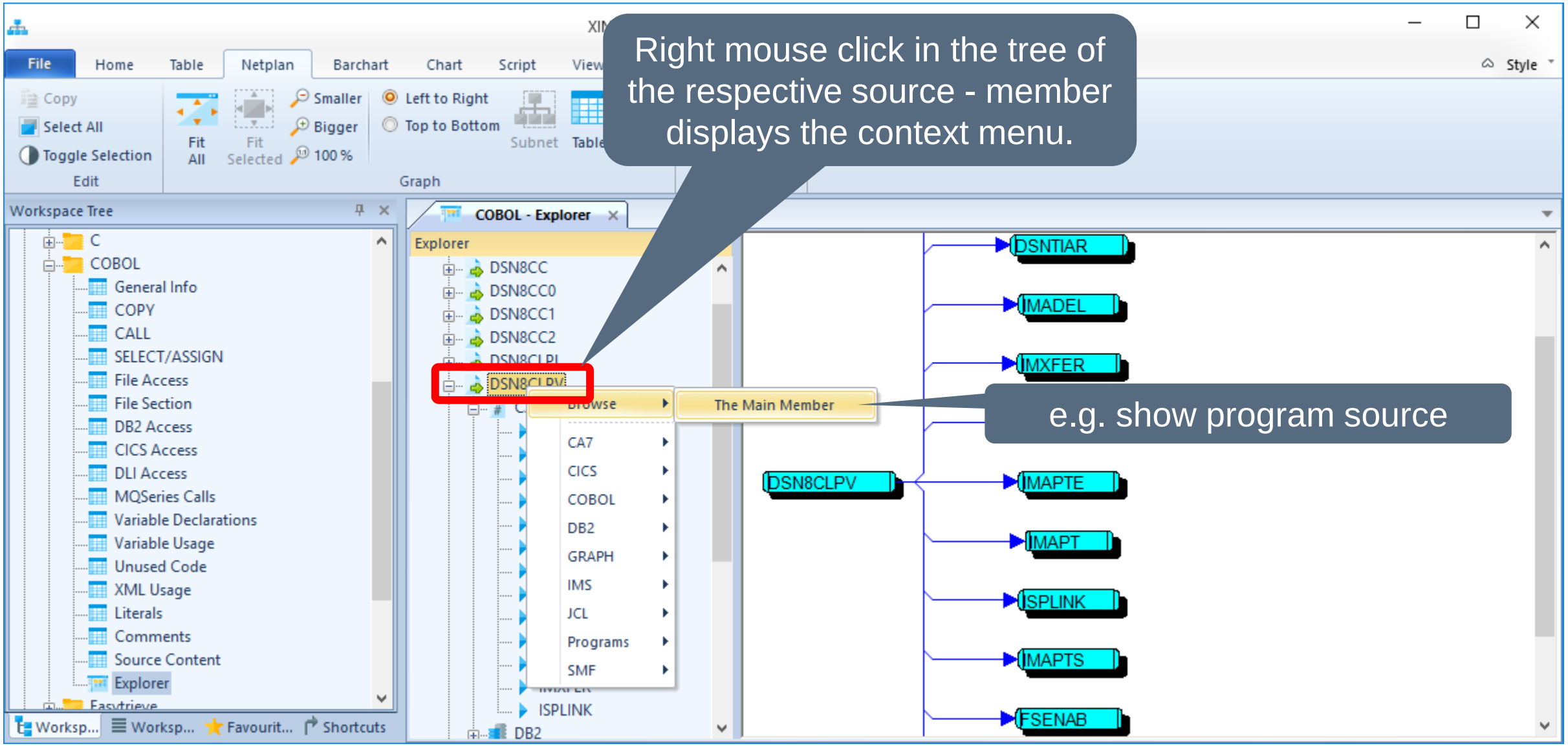
PC Client - Source Explorer



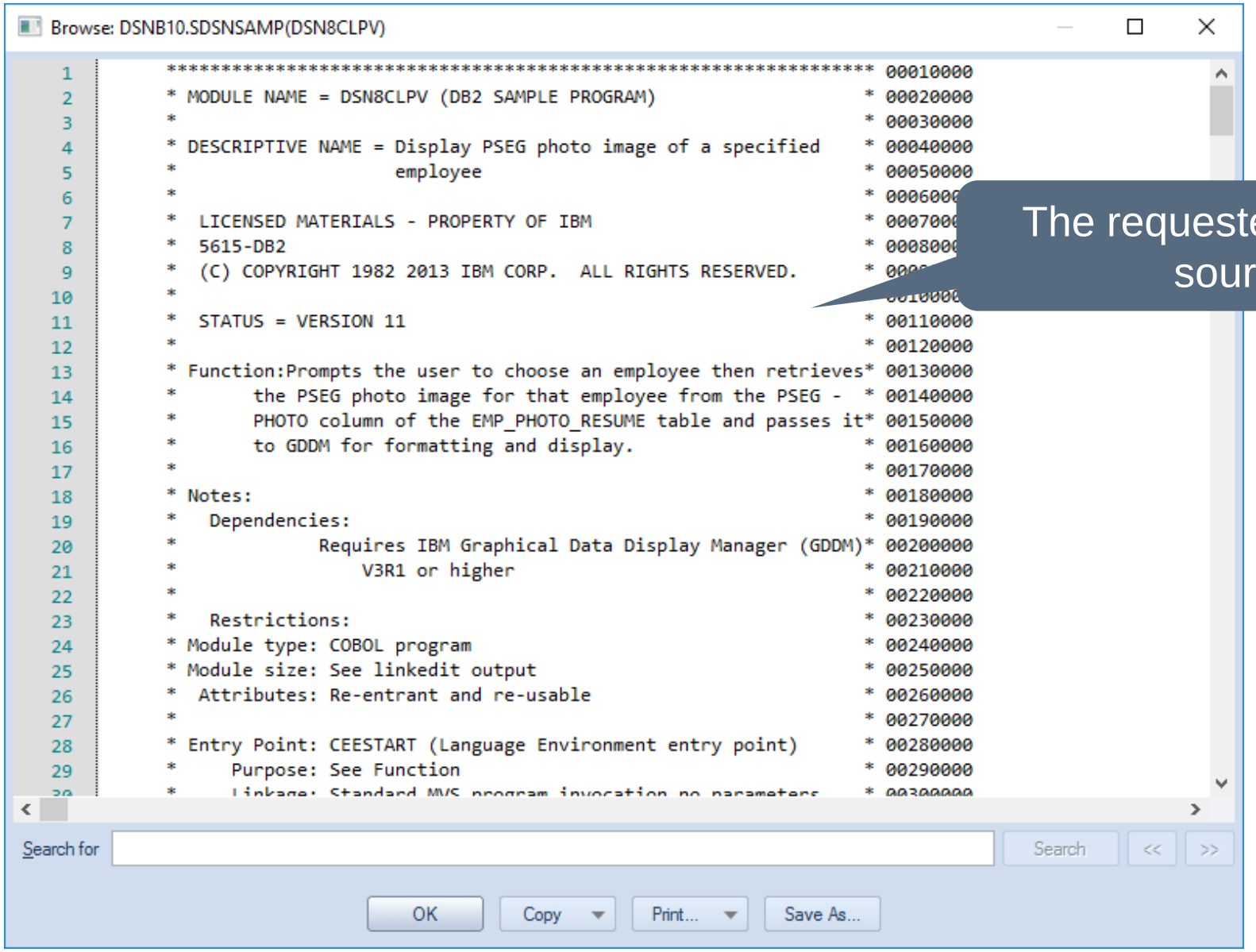
PC Client - Source Explorer



PC Client - Source Explorer



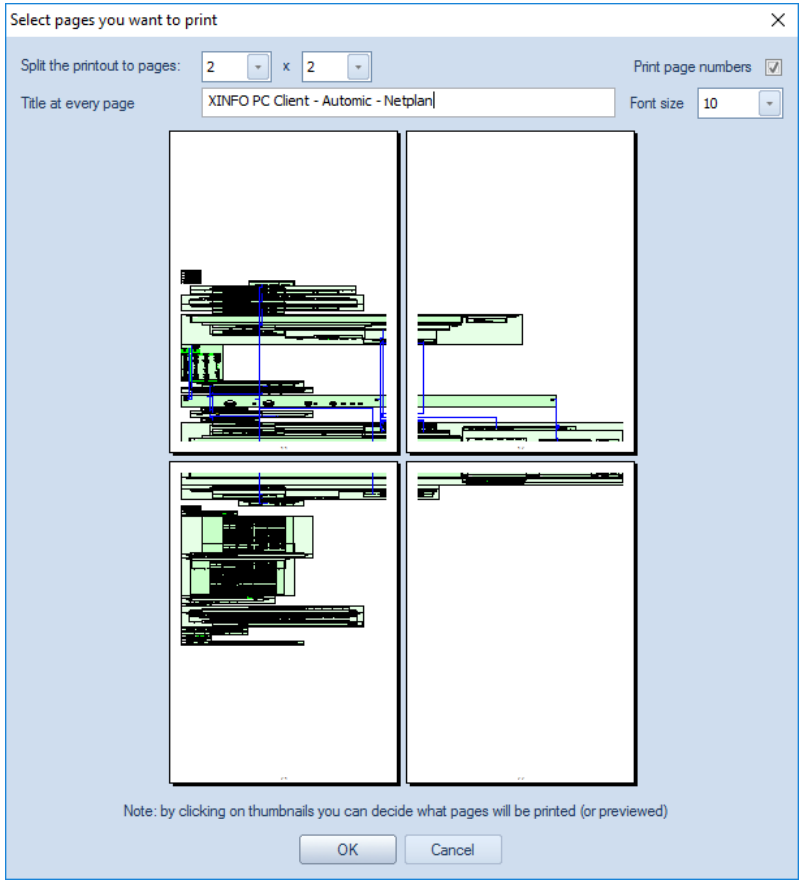
PC Client - Source Explorer



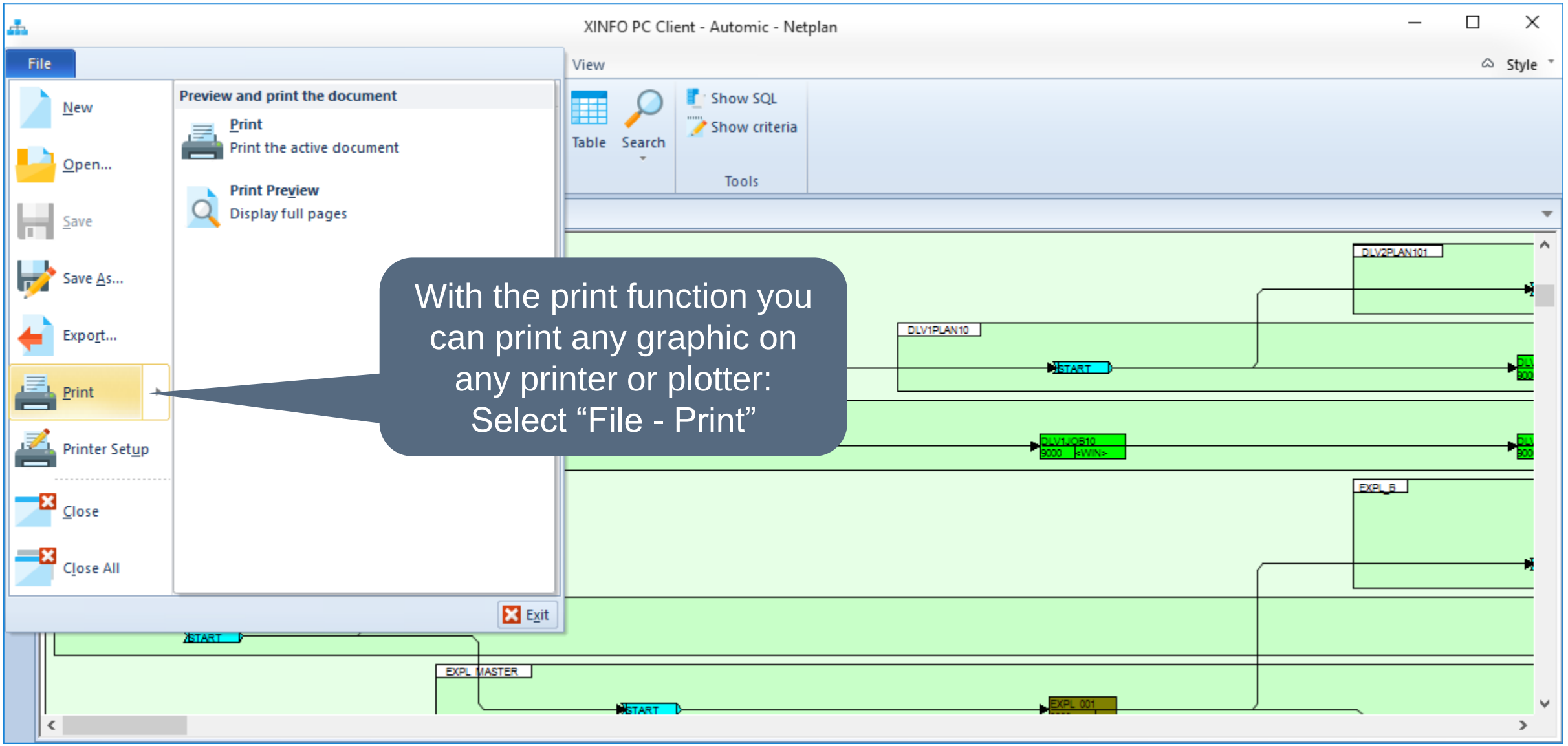
PC Client - Print Function

All graphics can be printed on printers or plotters with a uniform print function.

- Job netplans
- SMF barcharts
- Data flowcharts
- CALL diagrams



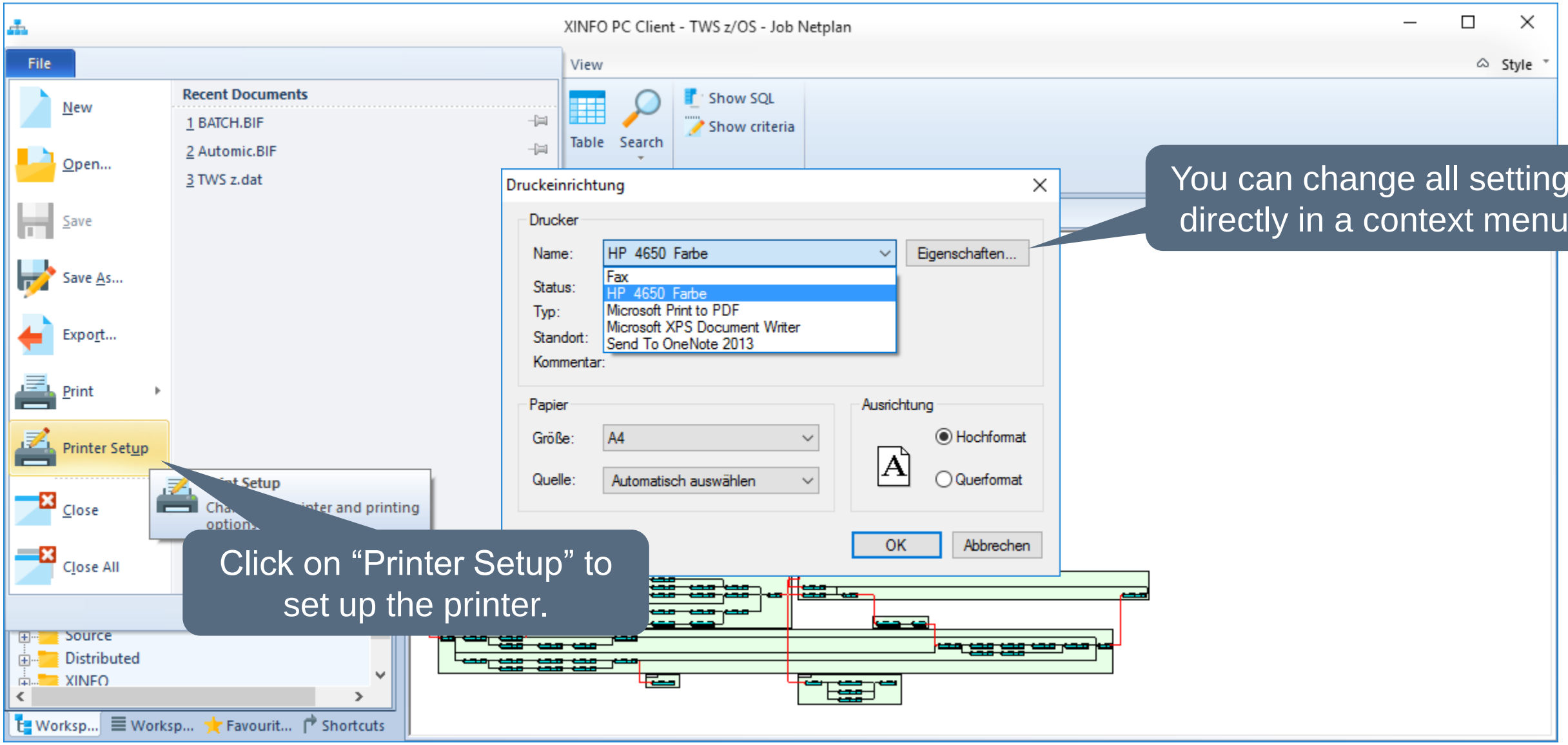
PC Client - Print Graphics



PC Client - Print Preview

The print preview

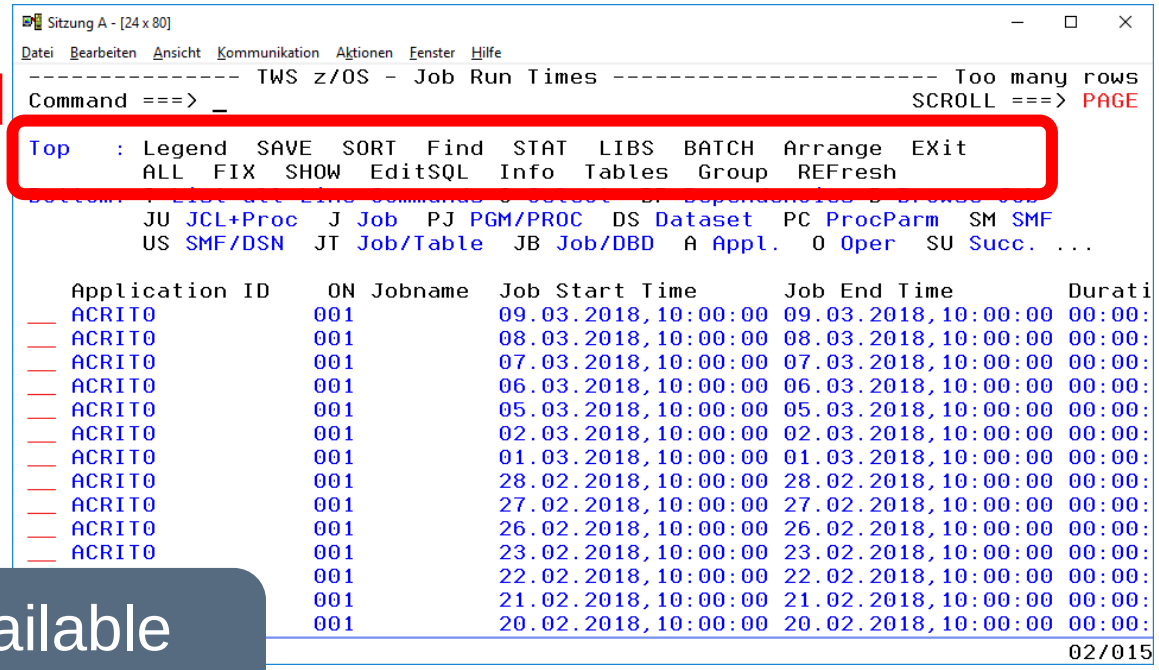
PC Client - Page Settings



PC Client - More Client functions

- Sort
- Arrange
- Fix
- Statistics
- Group
- All

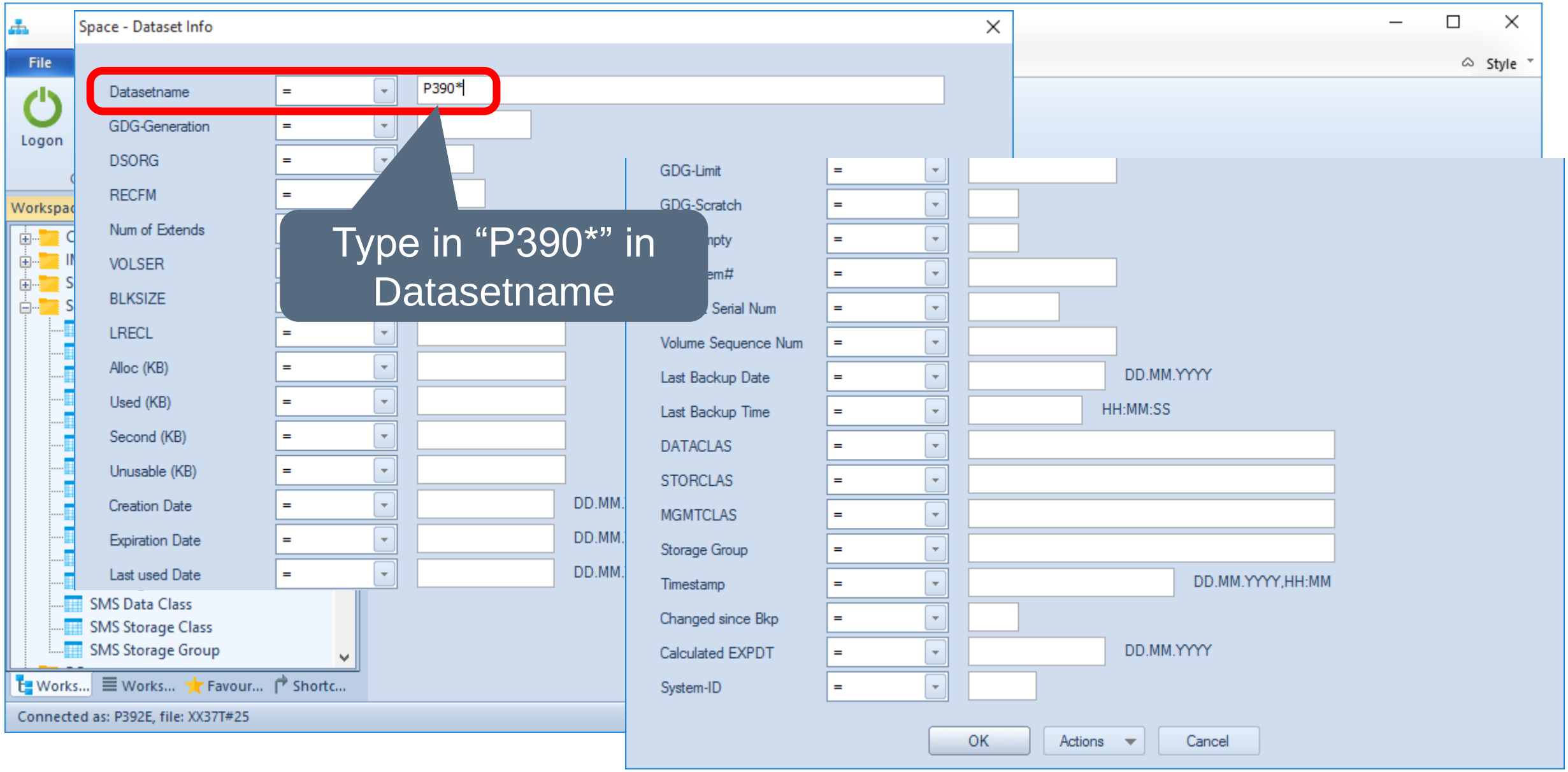
like ISPF Dialog



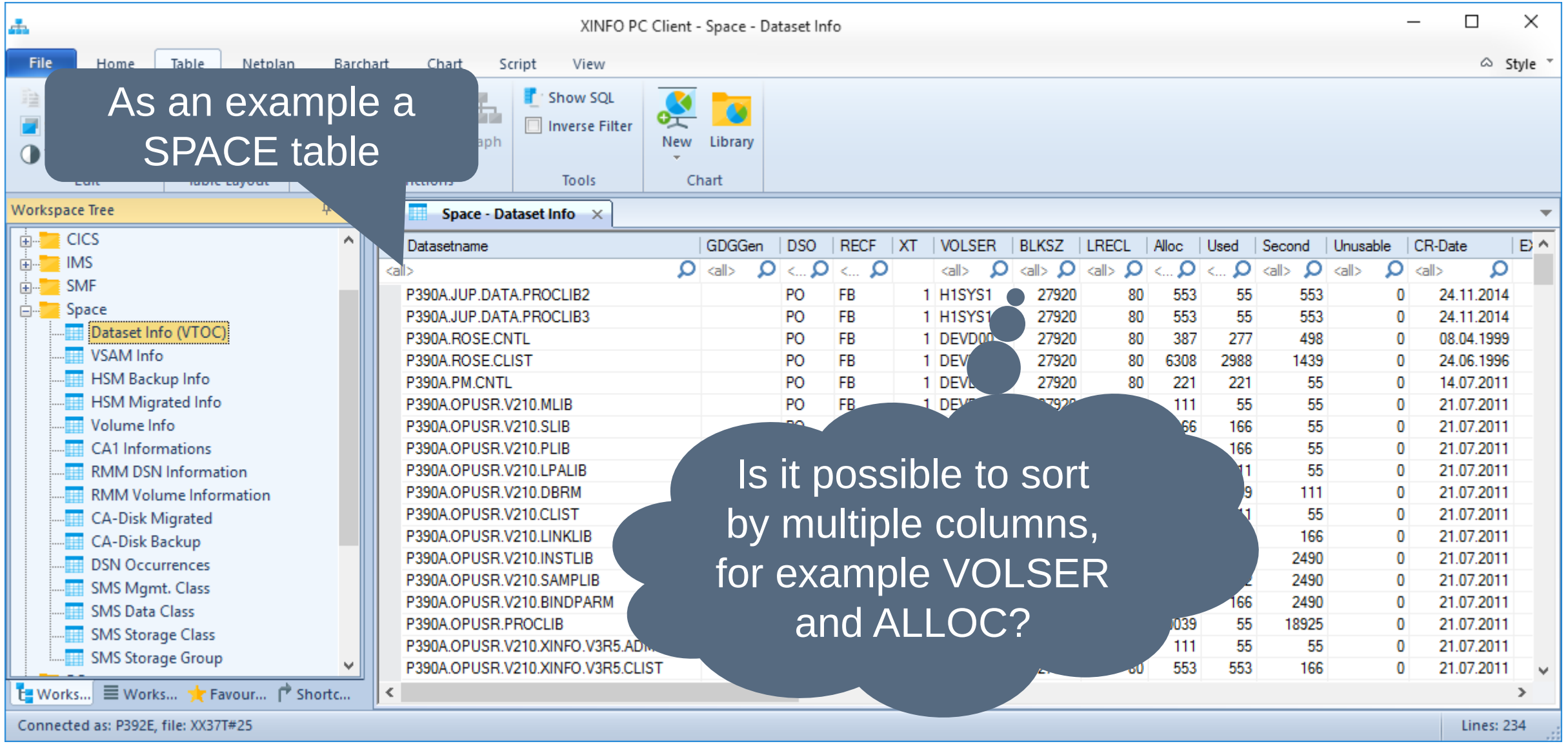
- Line commands for multiple lines
- Subtable
- Export/Import
- Save/Load Selection
- Cut and Paste

Only available with the PC Client

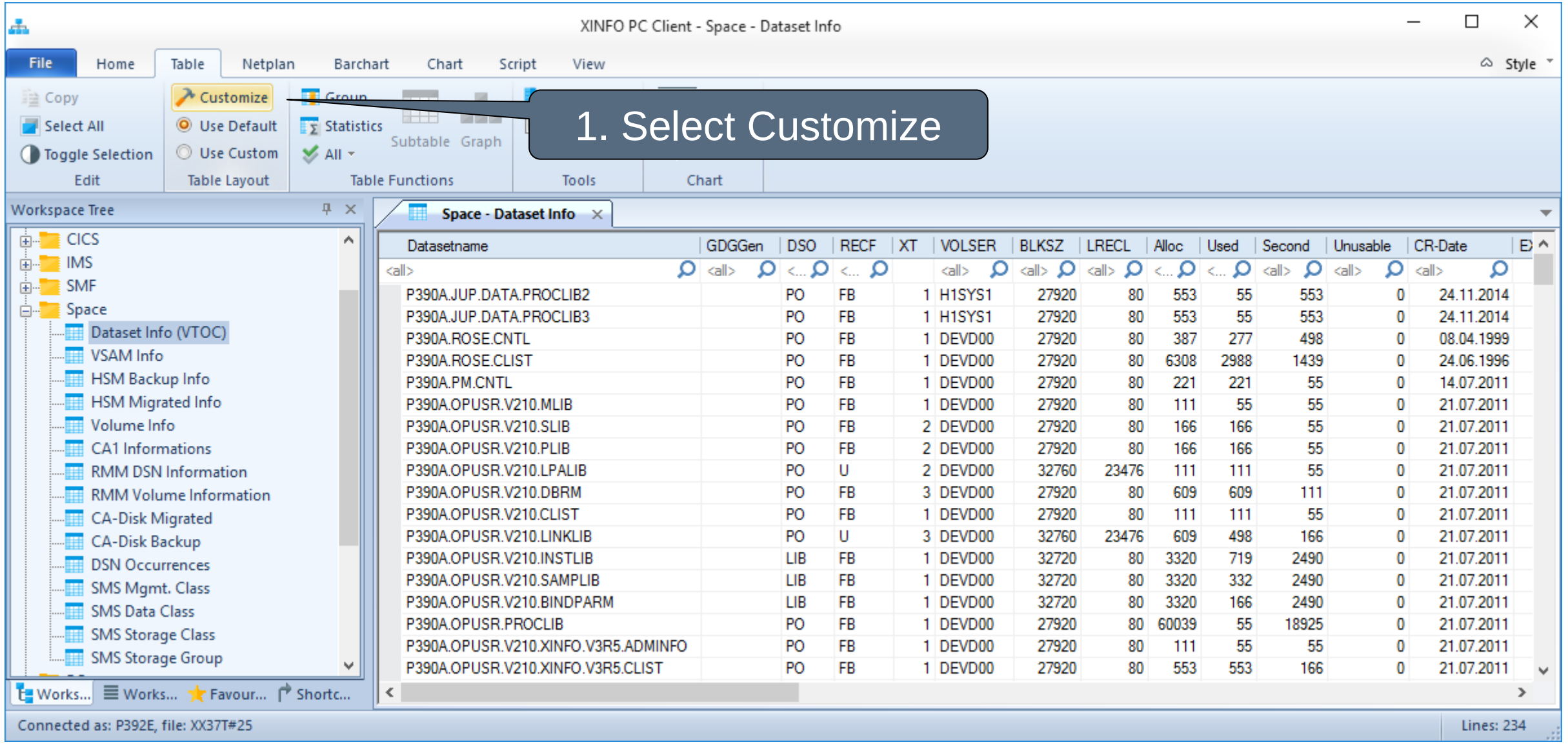
PC Client - SORT (1)



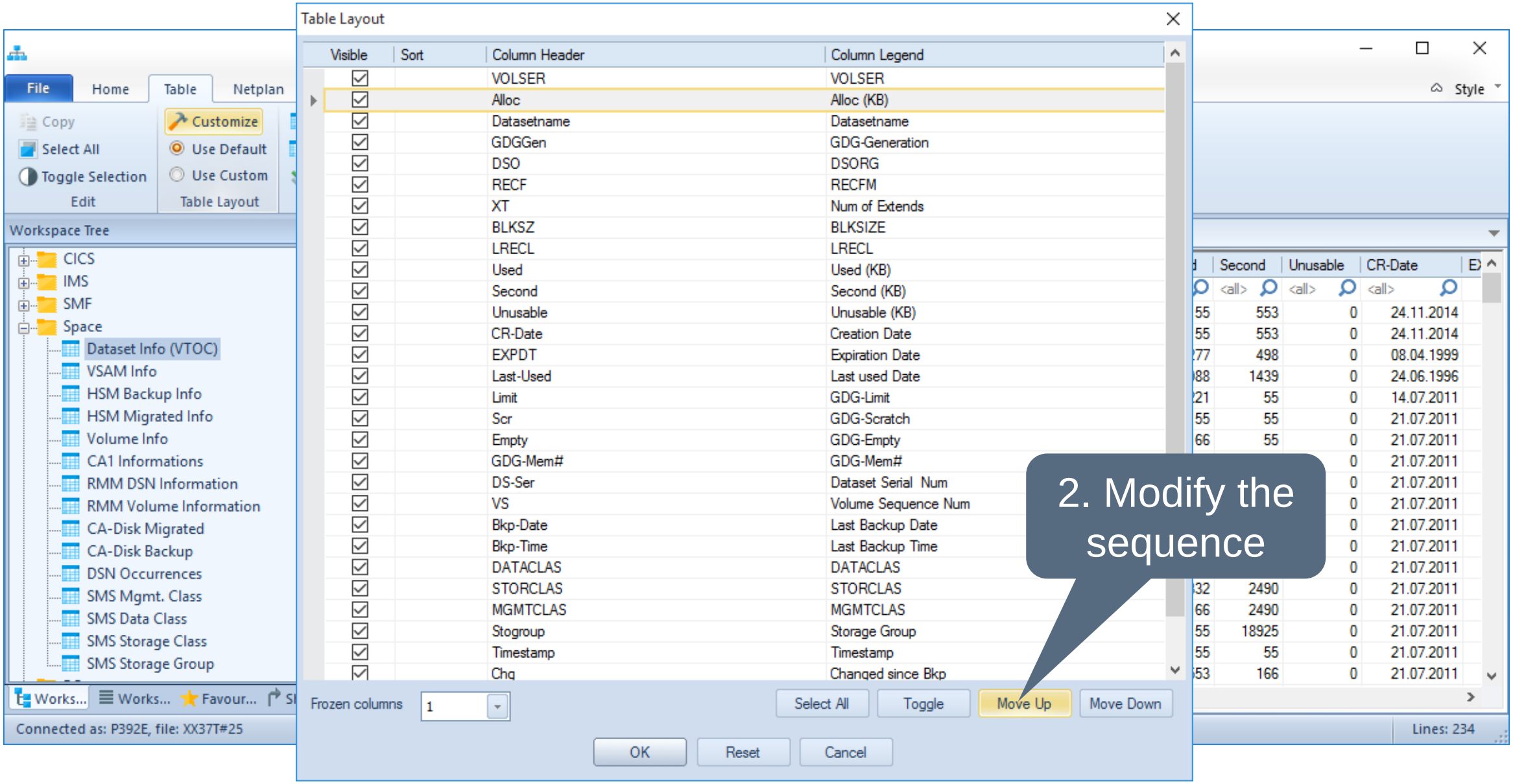
PC Client - SORT (2)



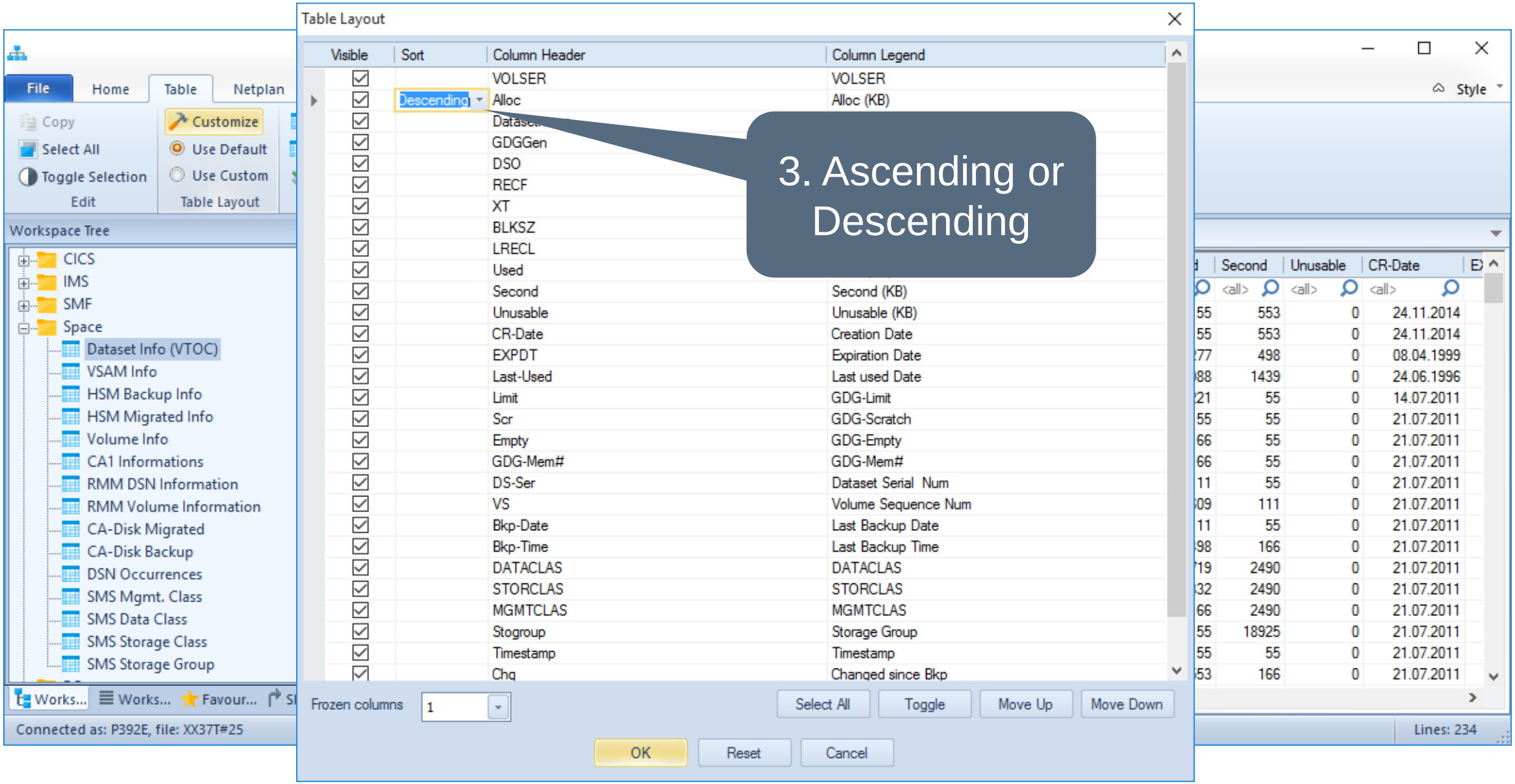
PC Client - SORT (3)



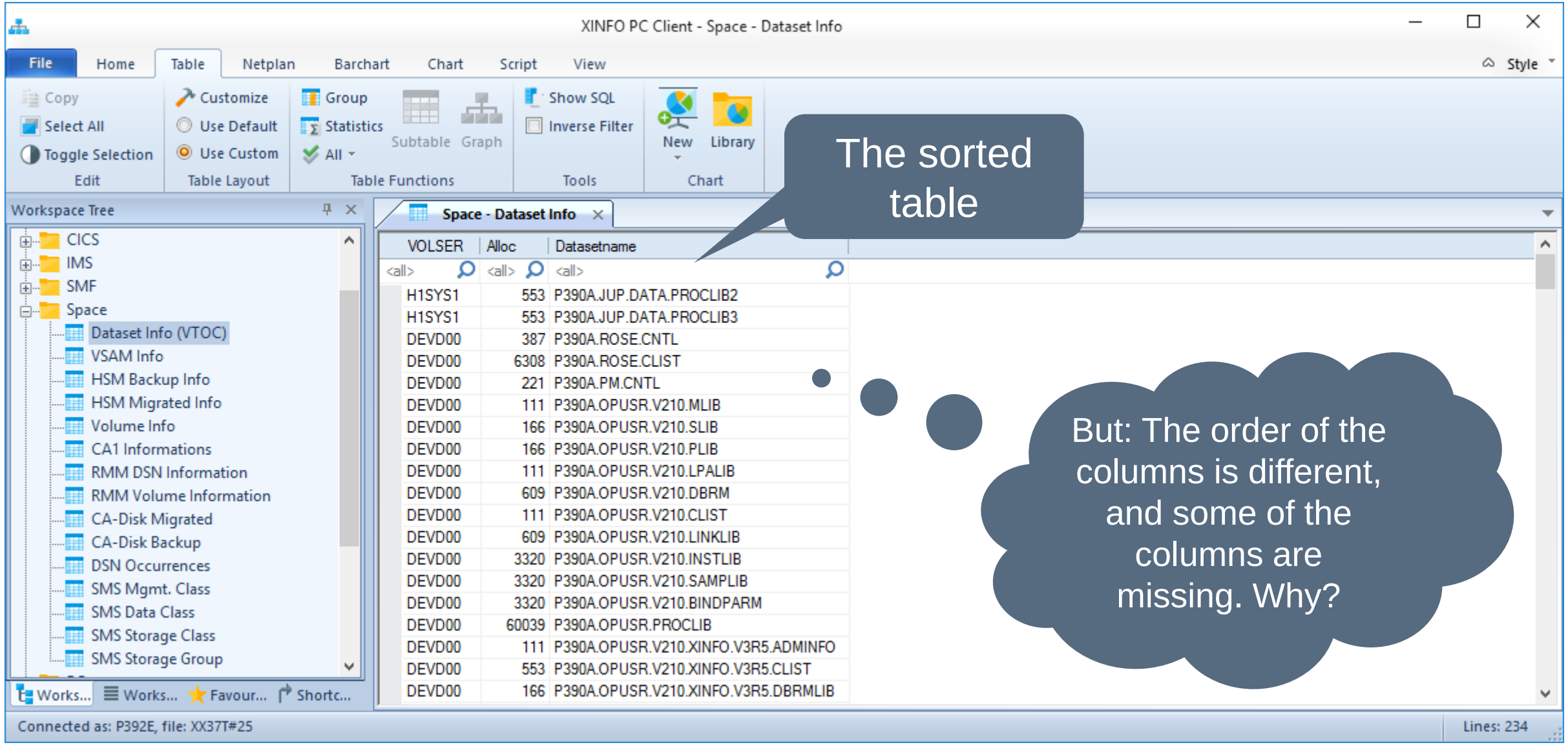
PC Client - Sort (4)



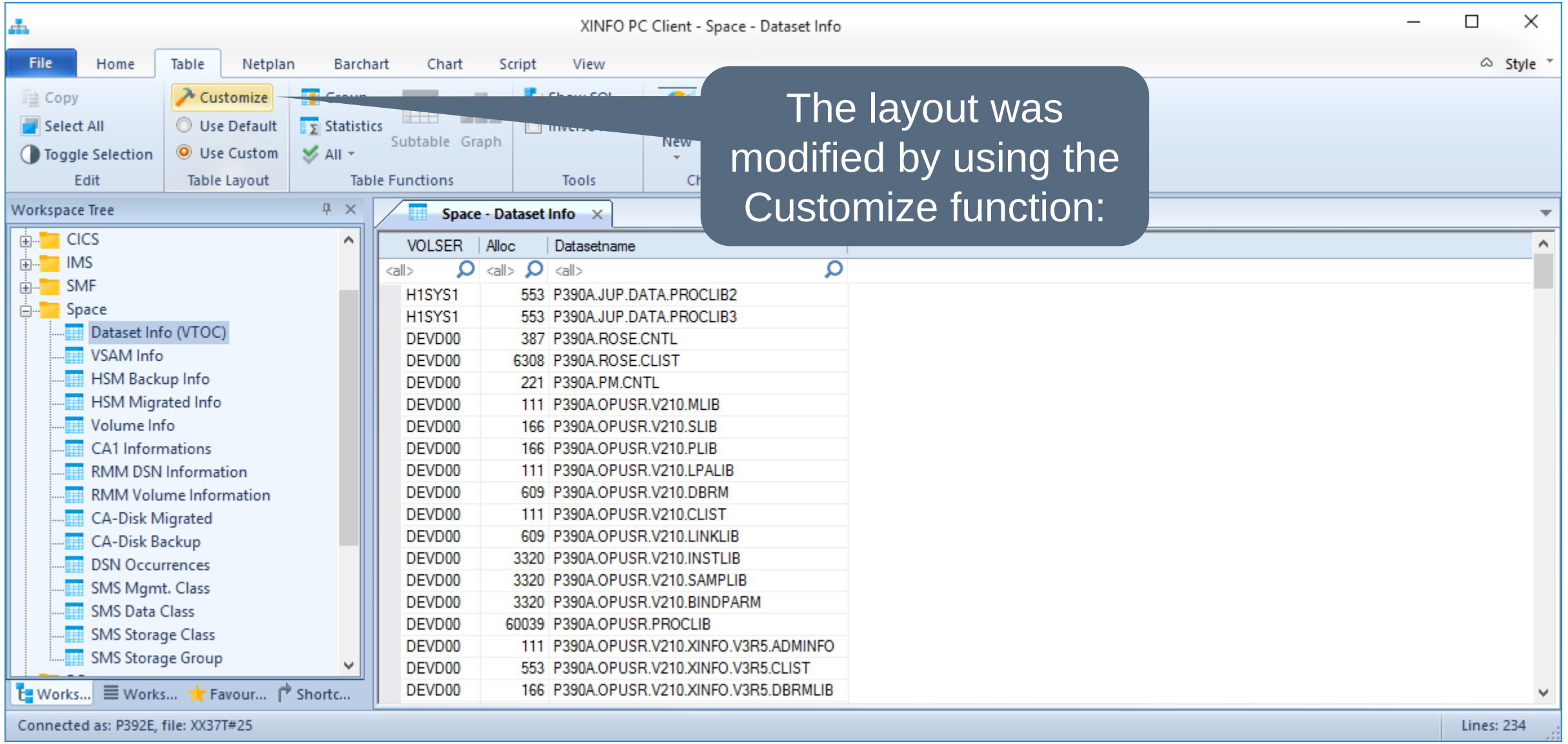
PC Client - SORT (5)



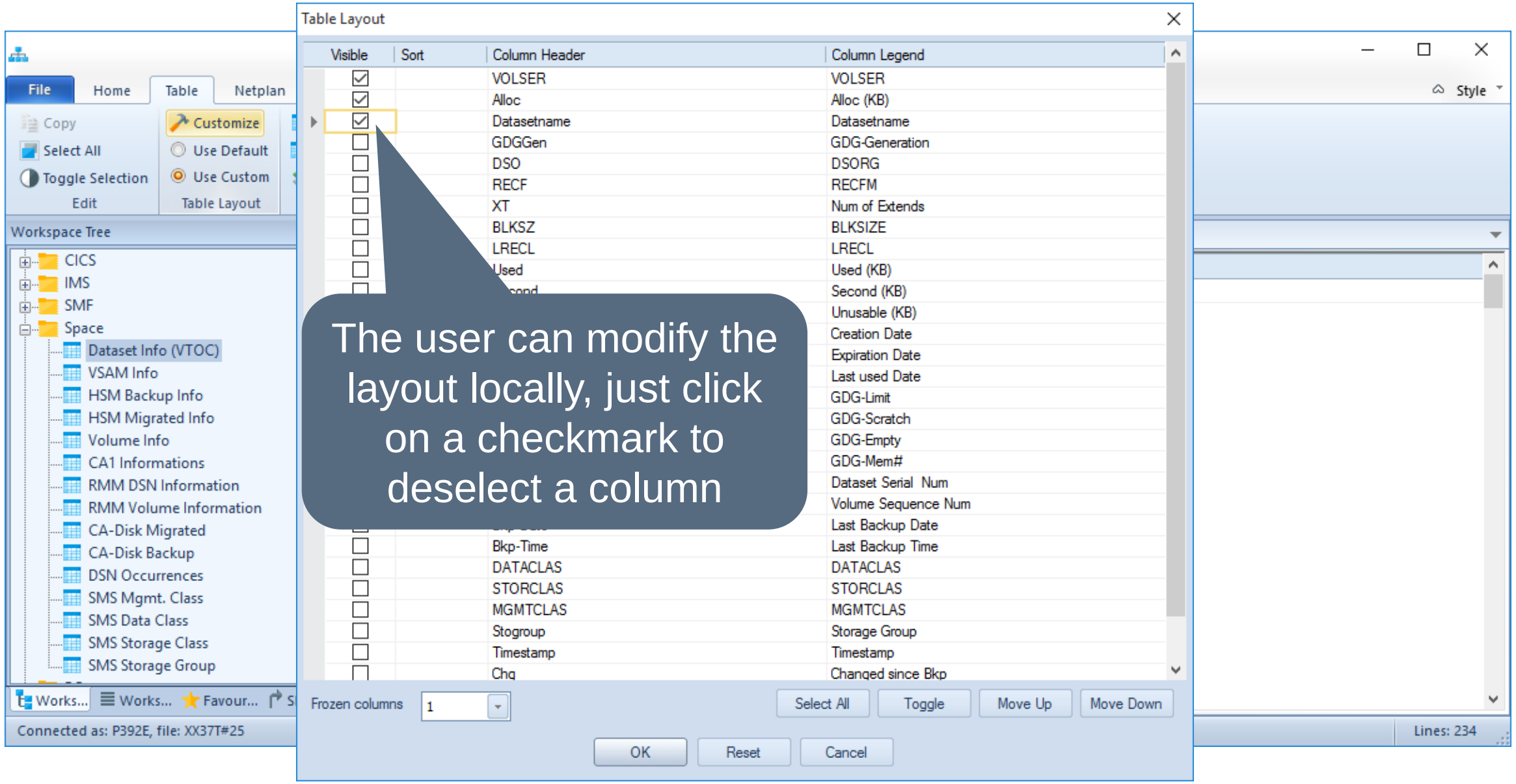
PC Client - SORT (6)



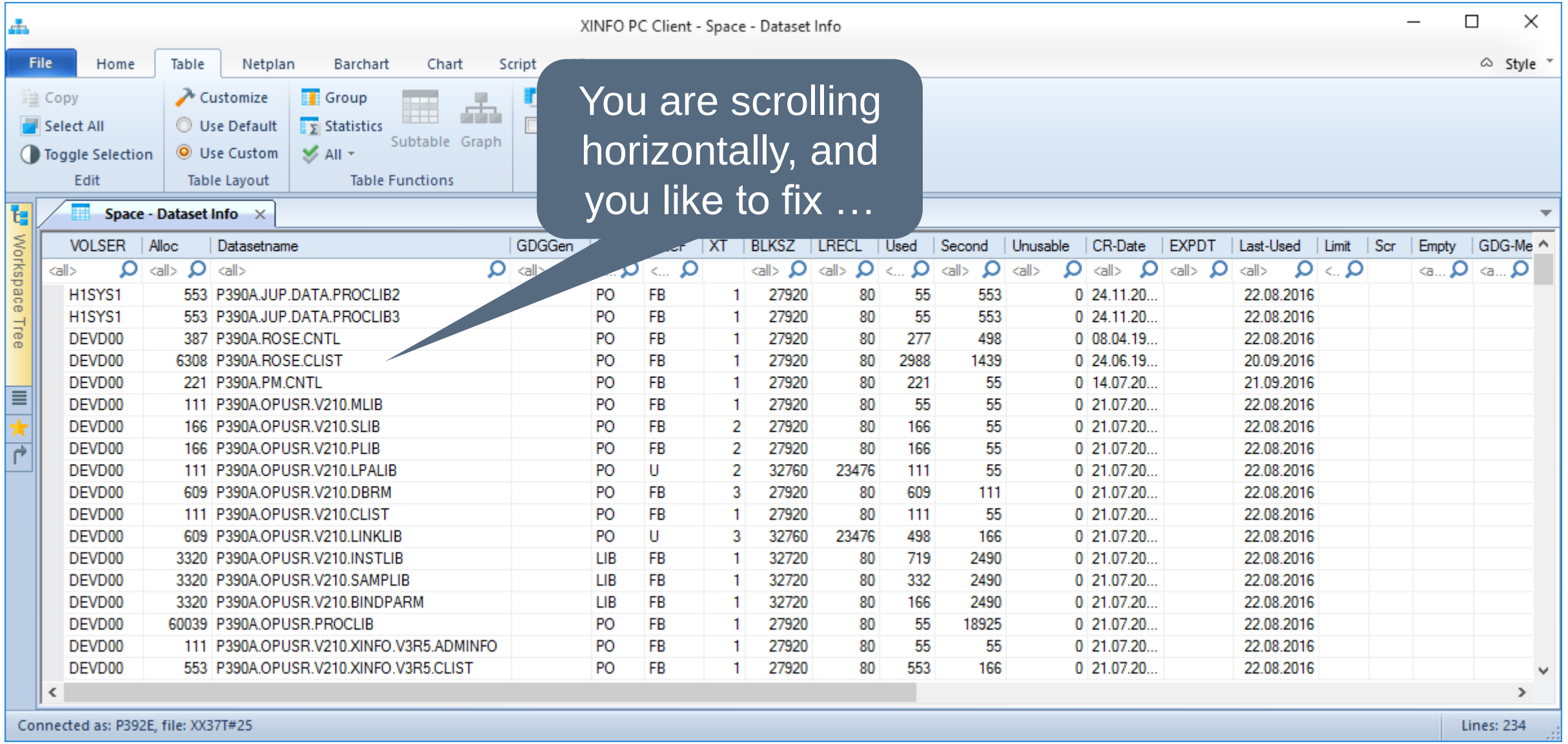
PC Client - ARRANGE (1)



PC Client - ARRANGE (2)

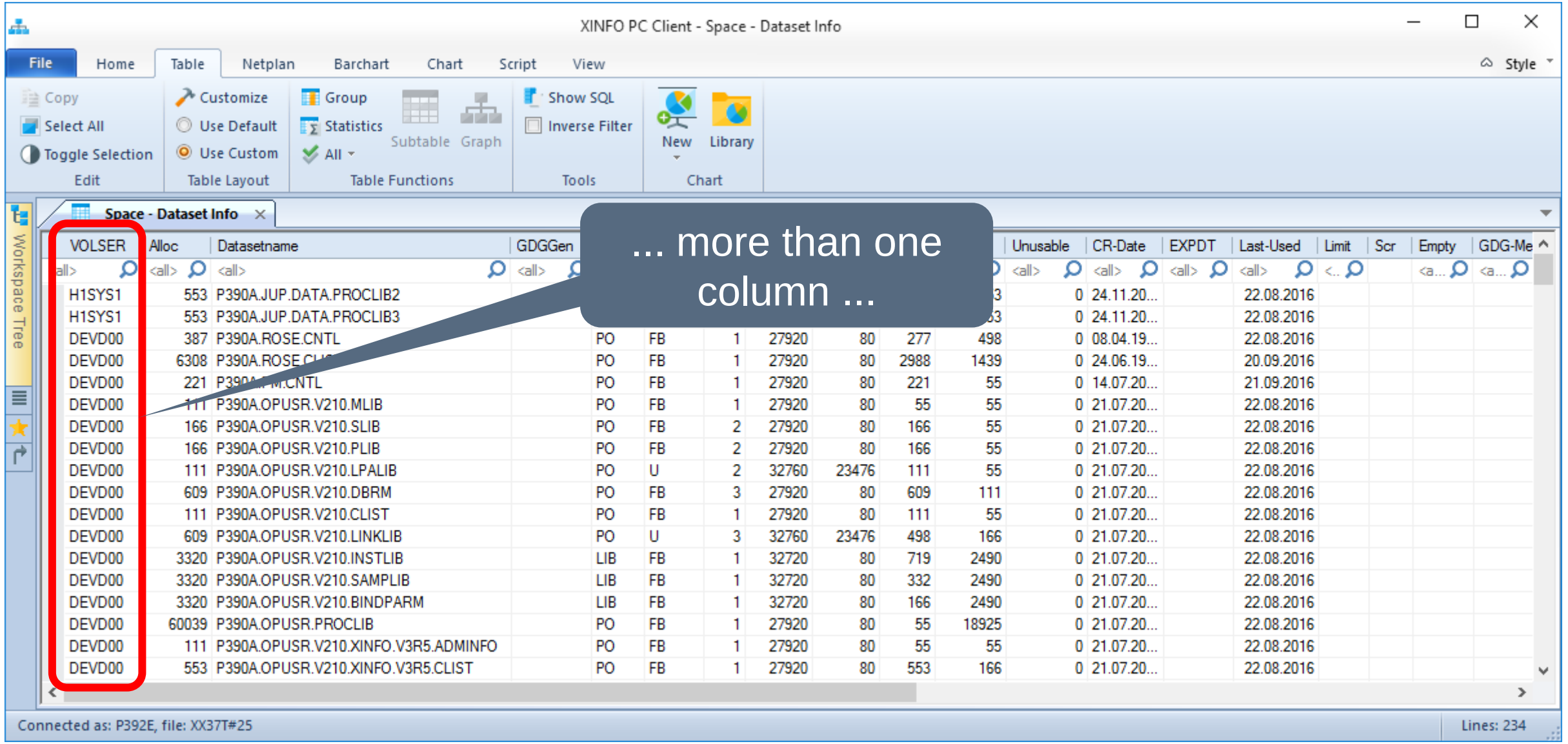


PC Client - FIX (1)



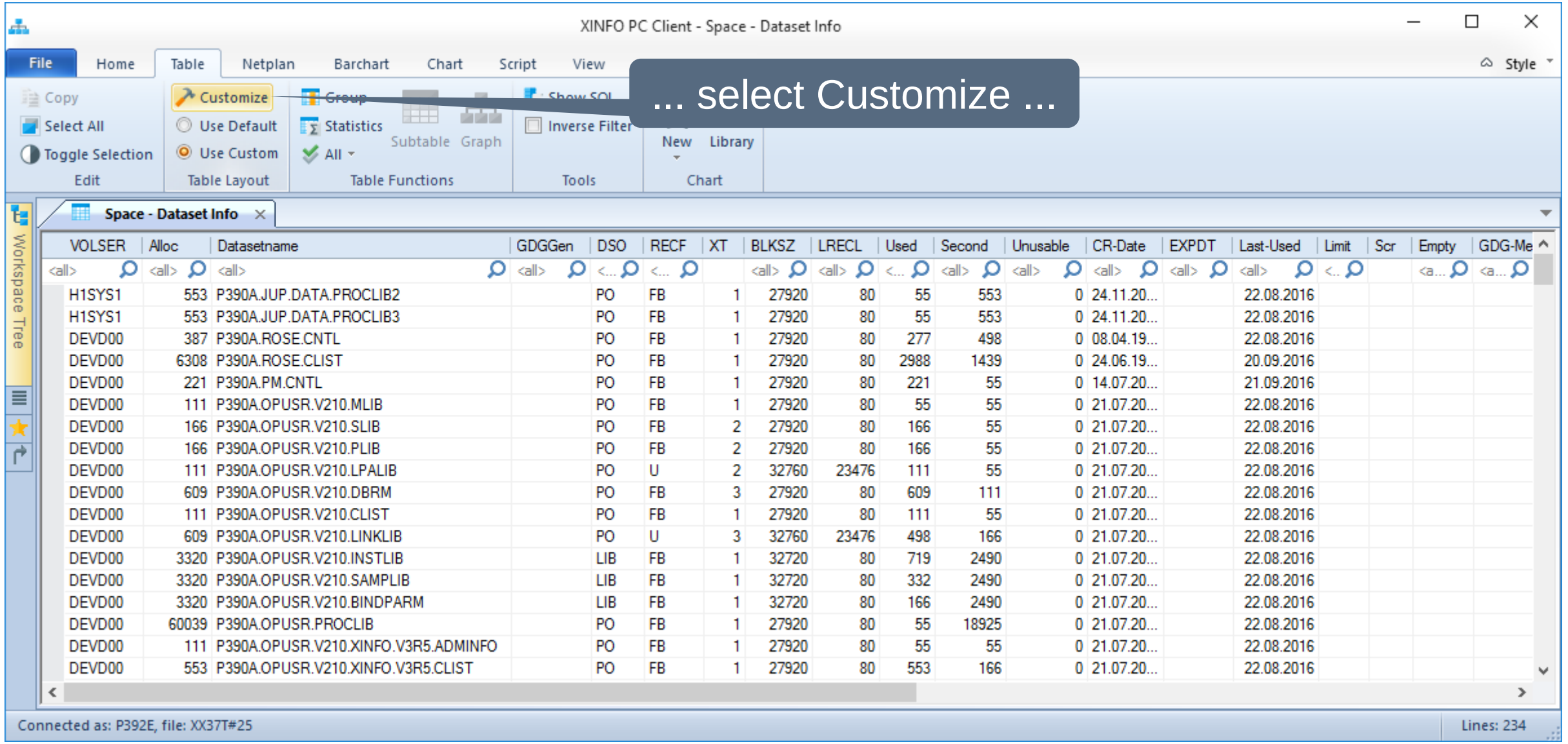
VOLSER	Alloc	Datasetname	GDGGen			XT	BLKSZ	LRECL	Used	Second	Unusable	CR-Date	EXPDT	Last-Used	Limit	Scr	Empty	GDG-Me
H1SYS1	553	P390A.JUP.DATA.PROCLIB2		PO	FB	1	27920	80	55	553	0	24.11.20...		22.08.2016				
H1SYS1	553	P390A.JUP.DATA.PROCLIB3		PO	FB	1	27920	80	55	553	0	24.11.20...		22.08.2016				
DEVD00	387	P390A.ROSE.CNTL		PO	FB	1	27920	80	277	498	0	08.04.19...		22.08.2016				
DEVD00	6308	P390A.ROSE.CLIST		PO	FB	1	27920	80	2988	1439	0	24.06.19...		20.09.2016				
DEVD00	221	P390A.PM.CNTL		PO	FB	1	27920	80	221	55	0	14.07.20...		21.09.2016				
DEVD00	111	P390A.OPUSR.V210.MLIB		PO	FB	1	27920	80	55	55	0	21.07.20...		22.08.2016				
DEVD00	166	P390A.OPUSR.V210.SLIB		PO	FB	2	27920	80	166	55	0	21.07.20...		22.08.2016				
DEVD00	166	P390A.OPUSR.V210.PLIB		PO	FB	2	27920	80	166	55	0	21.07.20...		22.08.2016				
DEVD00	111	P390A.OPUSR.V210.LPALIB		PO	U	2	32760	23476	111	55	0	21.07.20...		22.08.2016				
DEVD00	609	P390A.OPUSR.V210.DBRM		PO	FB	3	27920	80	609	111	0	21.07.20...		22.08.2016				
DEVD00	111	P390A.OPUSR.V210.CLIST		PO	FB	1	27920	80	111	55	0	21.07.20...		22.08.2016				
DEVD00	609	P390A.OPUSR.V210.LINKLIB		PO	U	3	32760	23476	498	166	0	21.07.20...		22.08.2016				
DEVD00	3320	P390A.OPUSR.V210.INSTLIB		LIB	FB	1	32720	80	719	2490	0	21.07.20...		22.08.2016				
DEVD00	3320	P390A.OPUSR.V210.SAMPLIB		LIB	FB	1	32720	80	332	2490	0	21.07.20...		22.08.2016				
DEVD00	3320	P390A.OPUSR.V210.BINDPARM		LIB	FB	1	32720	80	166	2490	0	21.07.20...		22.08.2016				
DEVD00	60039	P390A.OPUSR.PROCLIB		PO	FB	1	27920	80	55	18925	0	21.07.20...		22.08.2016				
DEVD00	111	P390A.OPUSR.V210.XINFO.V3R5.ADMINFO		PO	FB	1	27920	80	55	55	0	21.07.20...		22.08.2016				
DEVD00	553	P390A.OPUSR.V210.XINFO.V3R5.CLIST		PO	FB	1	27920	80	553	166	0	21.07.20...		22.08.2016				

PC Client - FIX (2)

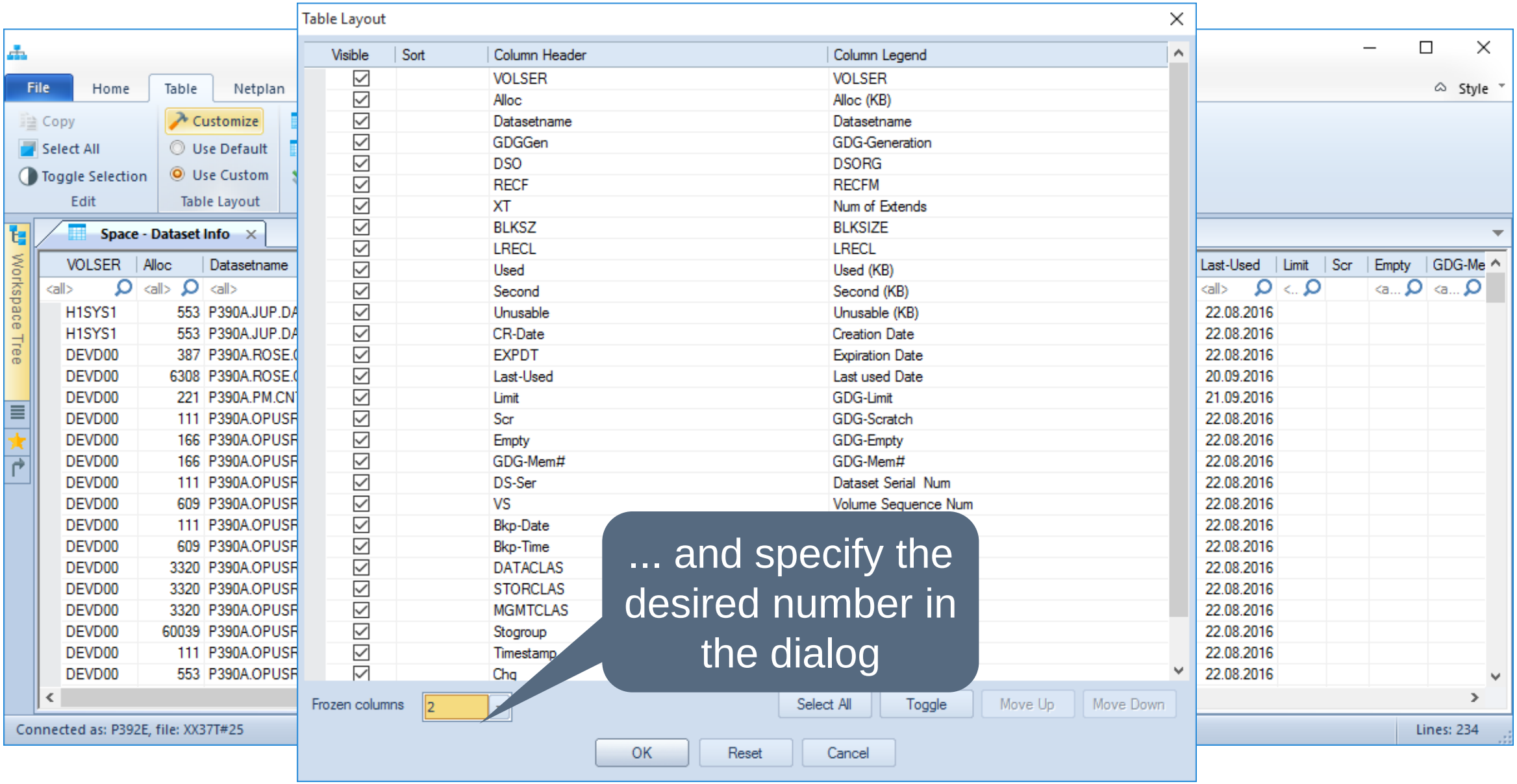


VOLSER	Alloc	Datasetname	GDGGen								Unusable	CR-Date	EXPDT	Last-Used	Limit	Scr	Empty	GDG-Me
<all>	<all>	<all>	<all>								<all>	<all>	<all>	<all>	<..		<a...	<a...
H1SYS1	553	P390A.JUP.DATA.PROCLIB2									0	24.11.20...		22.08.2016				
H1SYS1	553	P390A.JUP.DATA.PROCLIB3									0	24.11.20...		22.08.2016				
DEVD00	387	P390A.ROSE.CNTL		PO	FB	1	27920	80	277	498	0	08.04.19...		22.08.2016				
DEVD00	6308	P390A.ROSE.CU...		PO	FB	1	27920	80	2988	1439	0	24.06.19...		20.09.2016				
DEVD00	221	P390A.M.CNTL		PO	FB	1	27920	80	221	55	0	14.07.20...		21.09.2016				
DEVD00	111	P390A.OPUSR.V210.MLIB		PO	FB	1	27920	80	55	55	0	21.07.20...		22.08.2016				
DEVD00	166	P390A.OPUSR.V210.SLIB		PO	FB	2	27920	80	166	55	0	21.07.20...		22.08.2016				
DEVD00	166	P390A.OPUSR.V210.PLIB		PO	FB	2	27920	80	166	55	0	21.07.20...		22.08.2016				
DEVD00	111	P390A.OPUSR.V210.LPALIB		PO	U	2	32760	23476	111	55	0	21.07.20...		22.08.2016				
DEVD00	609	P390A.OPUSR.V210.DBRM		PO	FB	3	27920	80	609	111	0	21.07.20...		22.08.2016				
DEVD00	111	P390A.OPUSR.V210.CLIST		PO	FB	1	27920	80	111	55	0	21.07.20...		22.08.2016				
DEVD00	609	P390A.OPUSR.V210.LINKLIB		PO	U	3	32760	23476	498	166	0	21.07.20...		22.08.2016				
DEVD00	3320	P390A.OPUSR.V210.INSTLIB		LIB	FB	1	32720	80	719	2490	0	21.07.20...		22.08.2016				
DEVD00	3320	P390A.OPUSR.V210.SAMPLIB		LIB	FB	1	32720	80	332	2490	0	21.07.20...		22.08.2016				
DEVD00	3320	P390A.OPUSR.V210.BINDPARM		LIB	FB	1	32720	80	166	2490	0	21.07.20...		22.08.2016				
DEVD00	60039	P390A.OPUSR.PROCLIB		PO	FB	1	27920	80	55	18925	0	21.07.20...		22.08.2016				
DEVD00	111	P390A.OPUSR.V210.XINFO.V3R5.ADMINFO		PO	FB	1	27920	80	55	55	0	21.07.20...		22.08.2016				
DEVD00	553	P390A.OPUSR.V210.XINFO.V3R5.CLIST		PO	FB	1	27920	80	553	166	0	21.07.20...		22.08.2016				

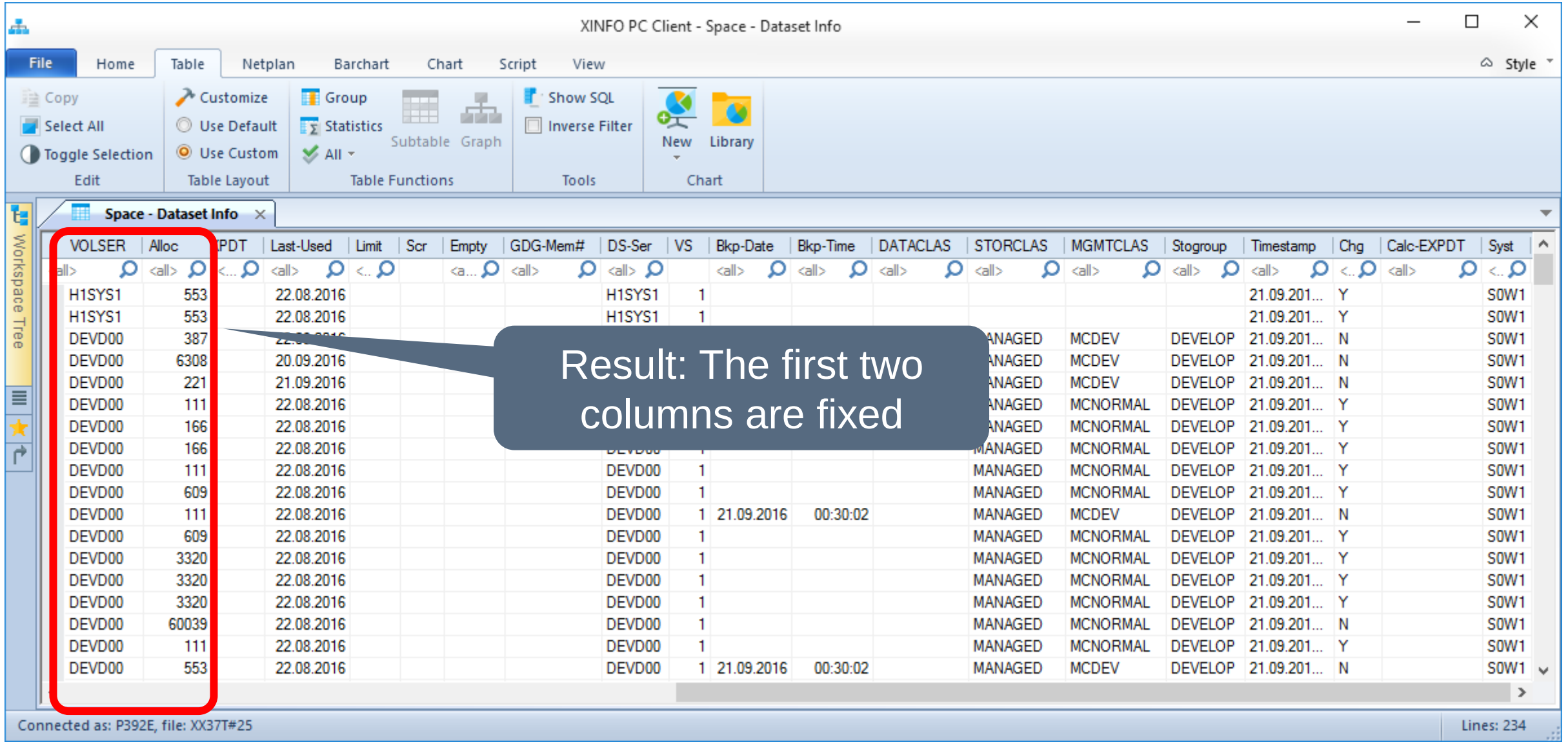
PC Client - FIX (3)



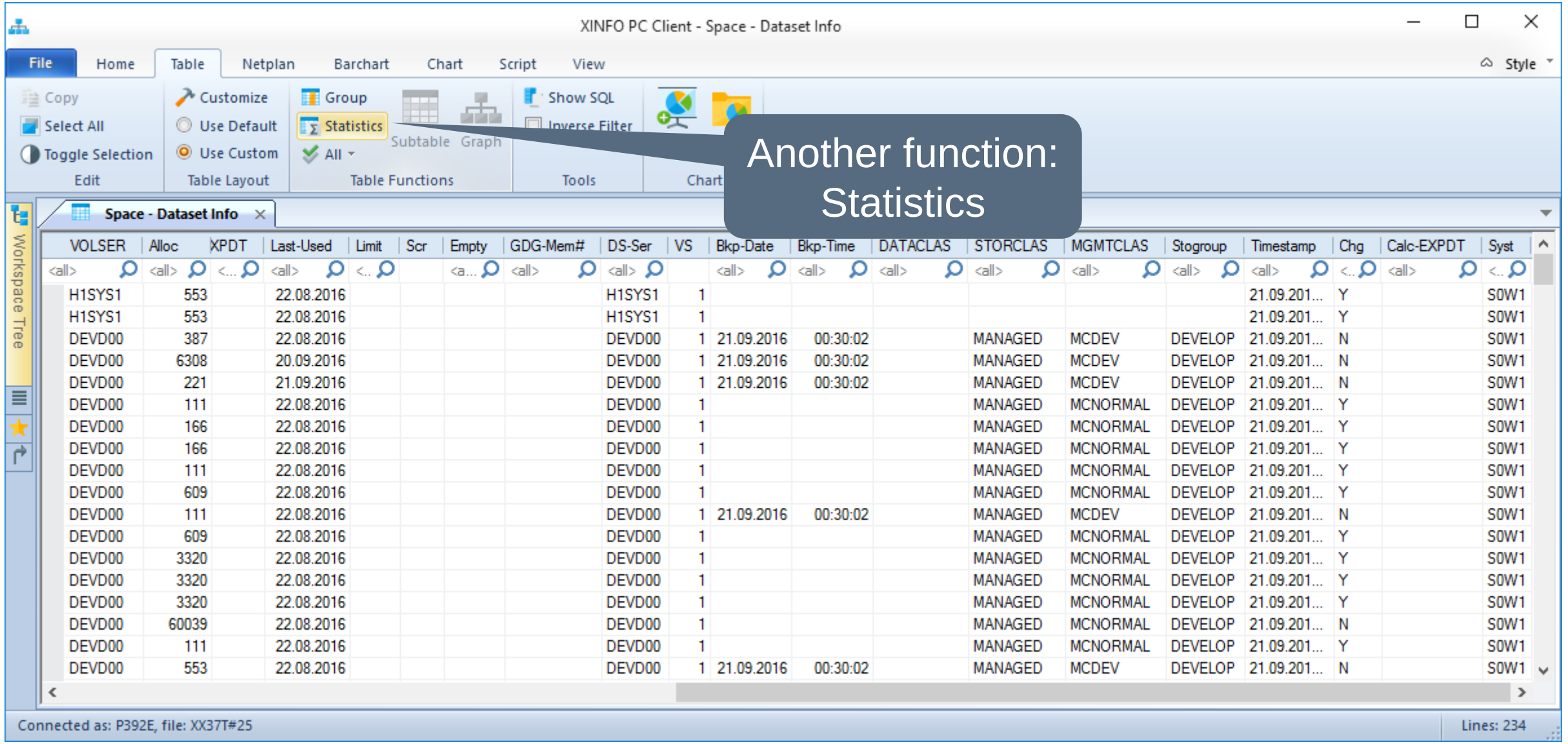
PC Client - FIX (4)



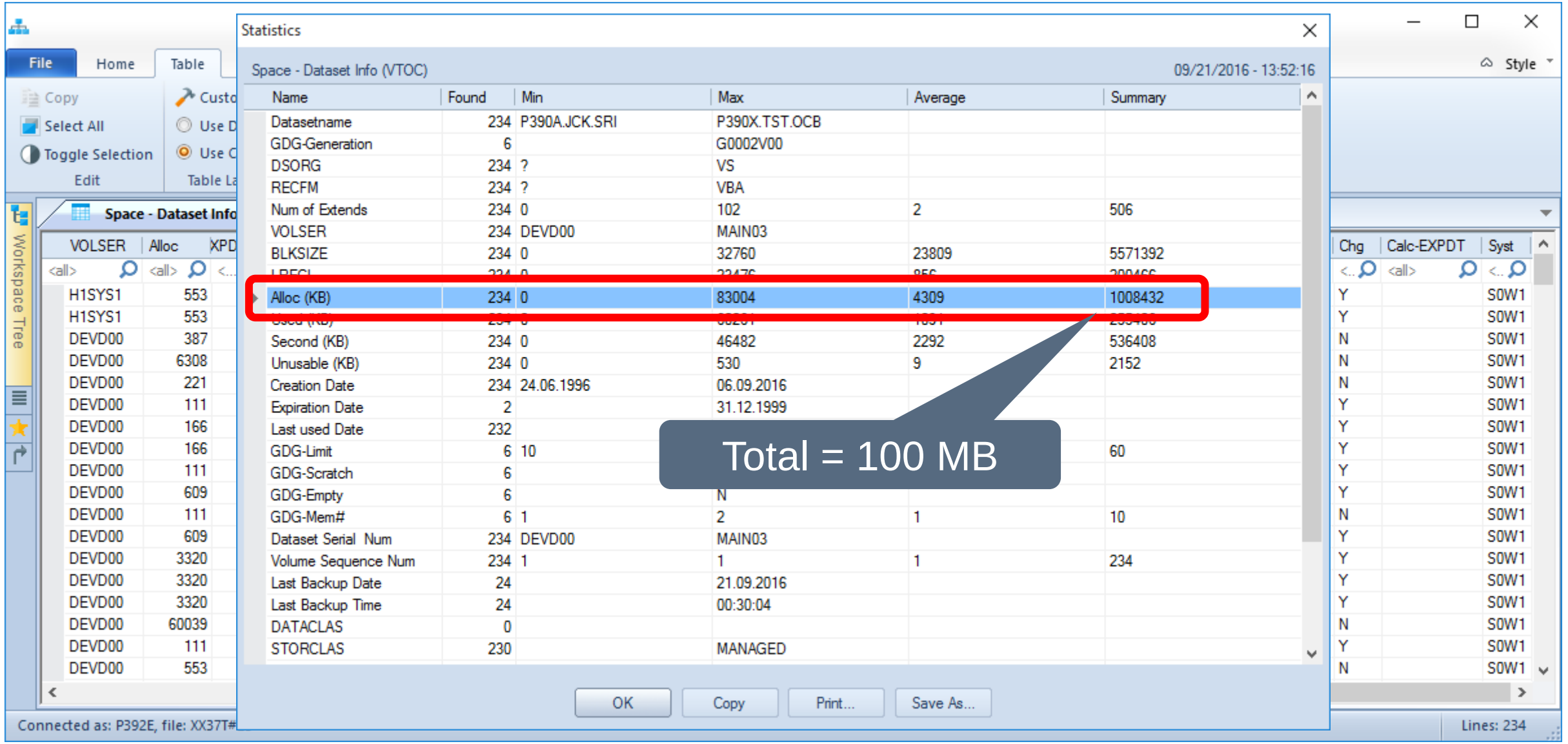
PC Client - FIX (5)



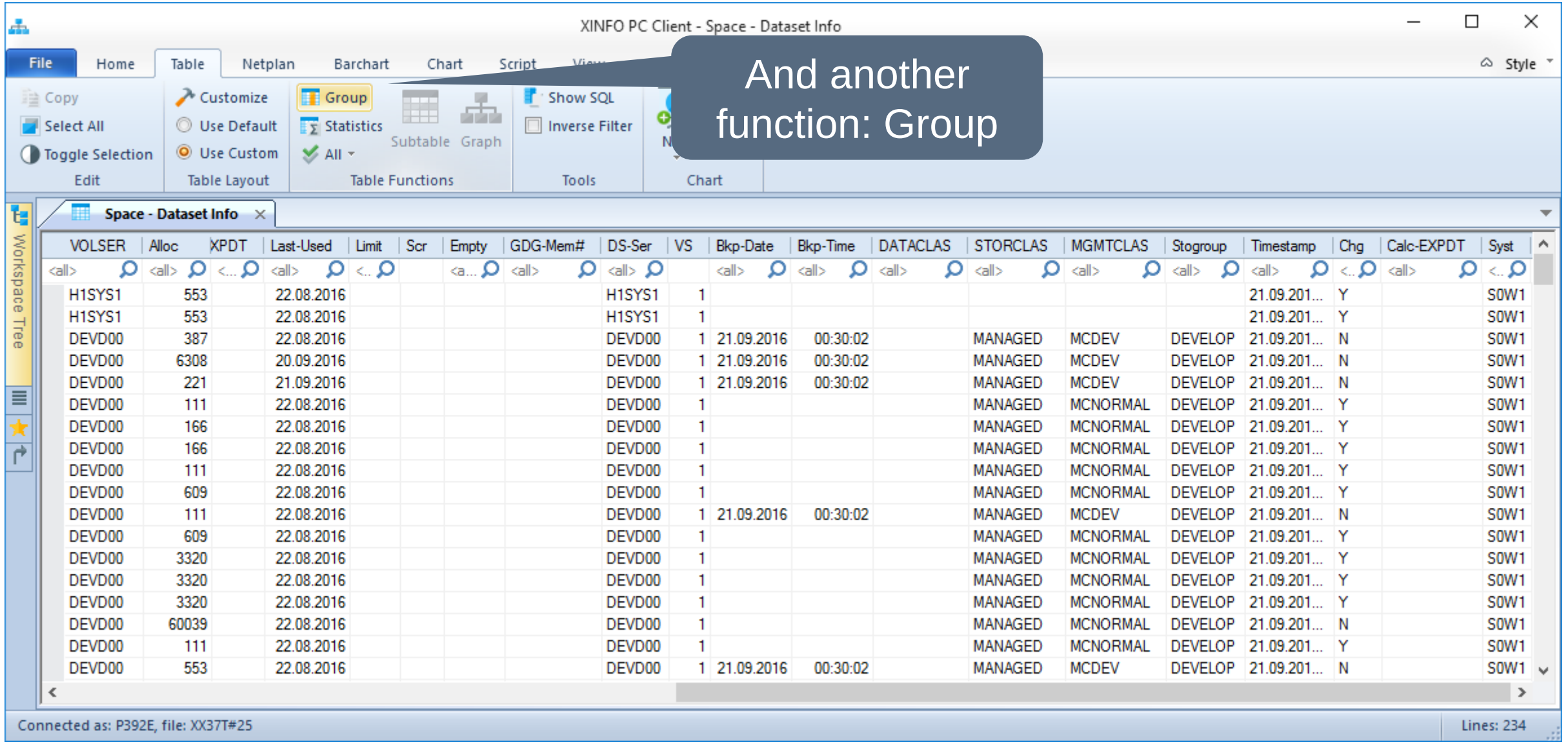
PC Client - STATISTICS (1)



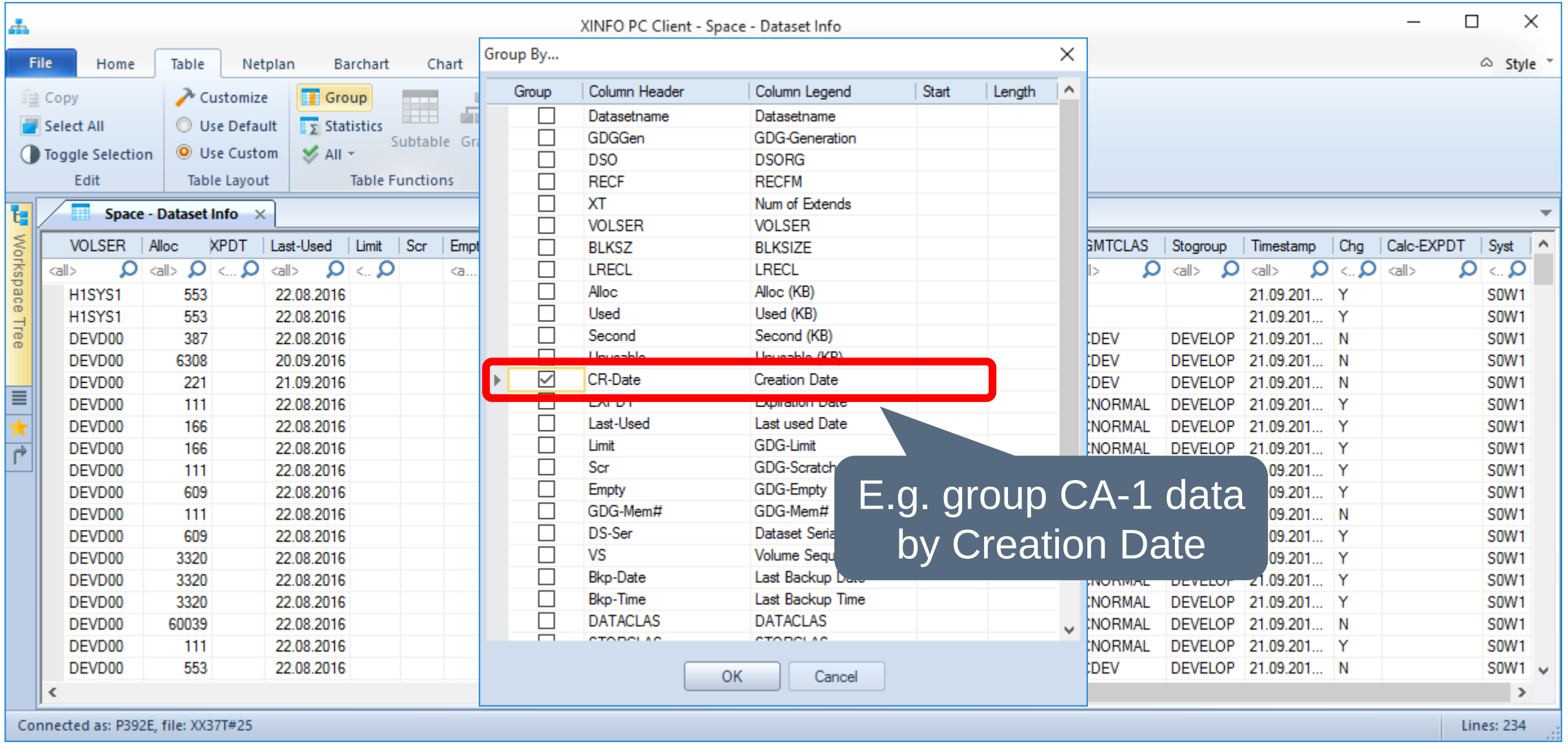
PC Client - STATISTICS (2)



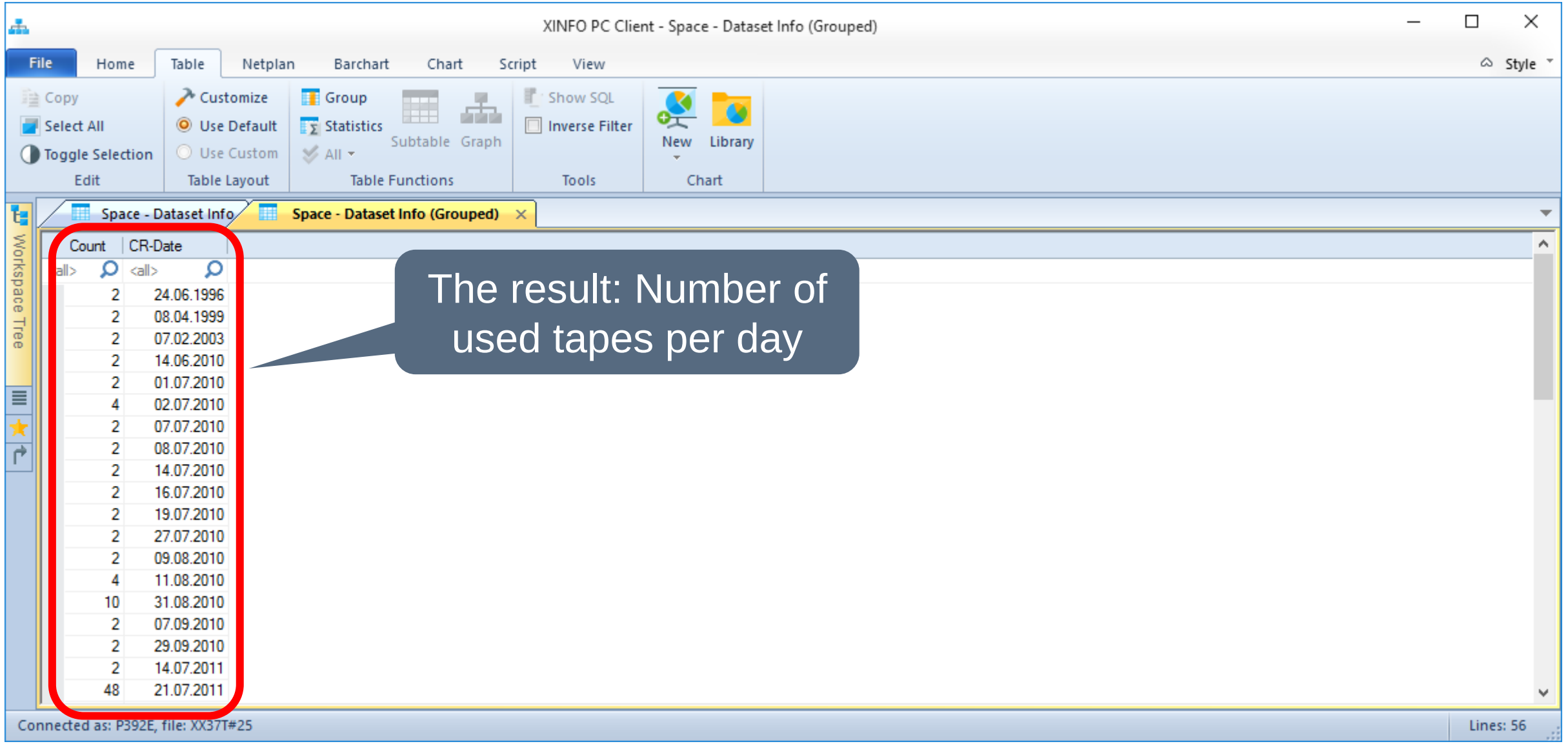
PC Client - GROUP (1)



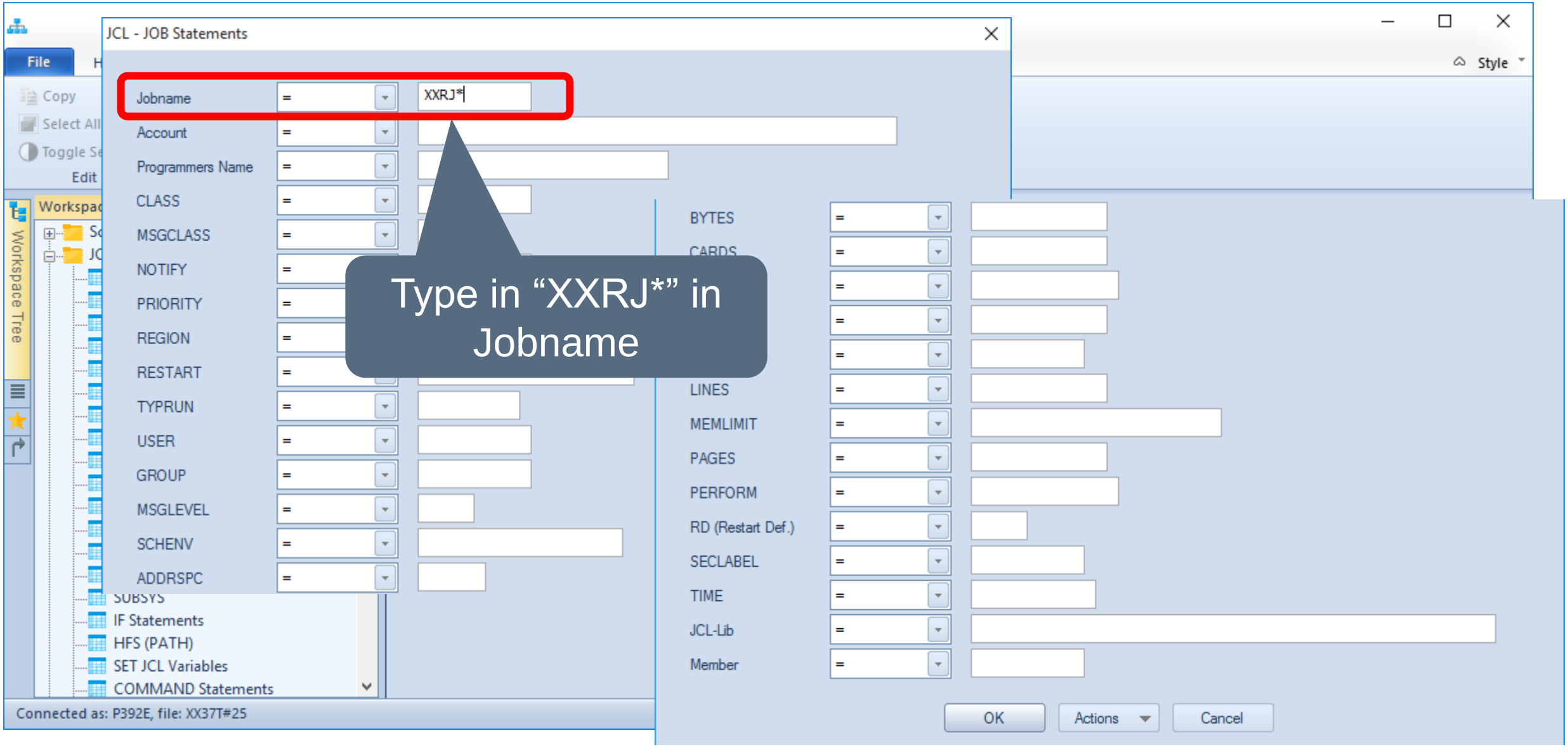
PC Client - GROUP (2)



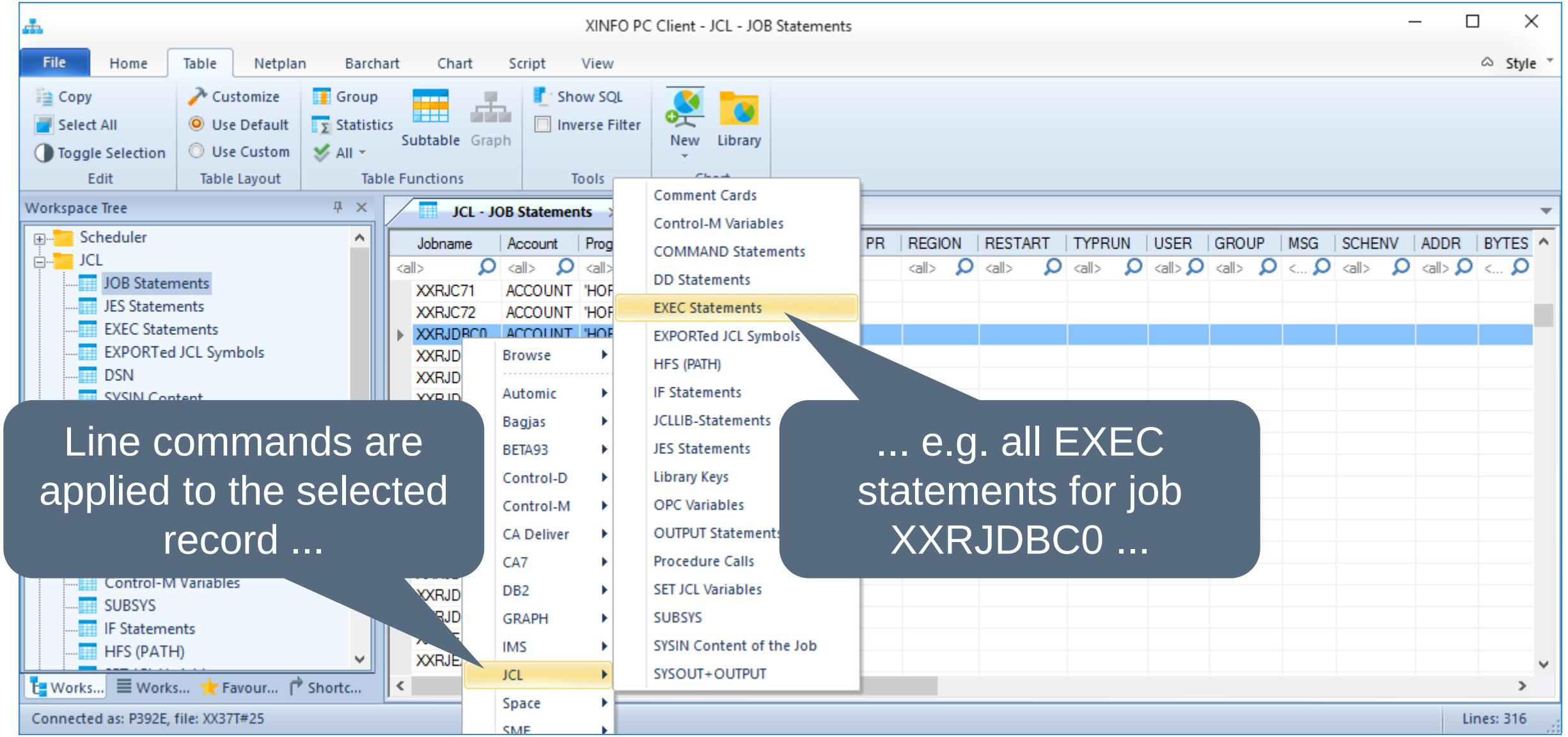
PC Client - Group (3)



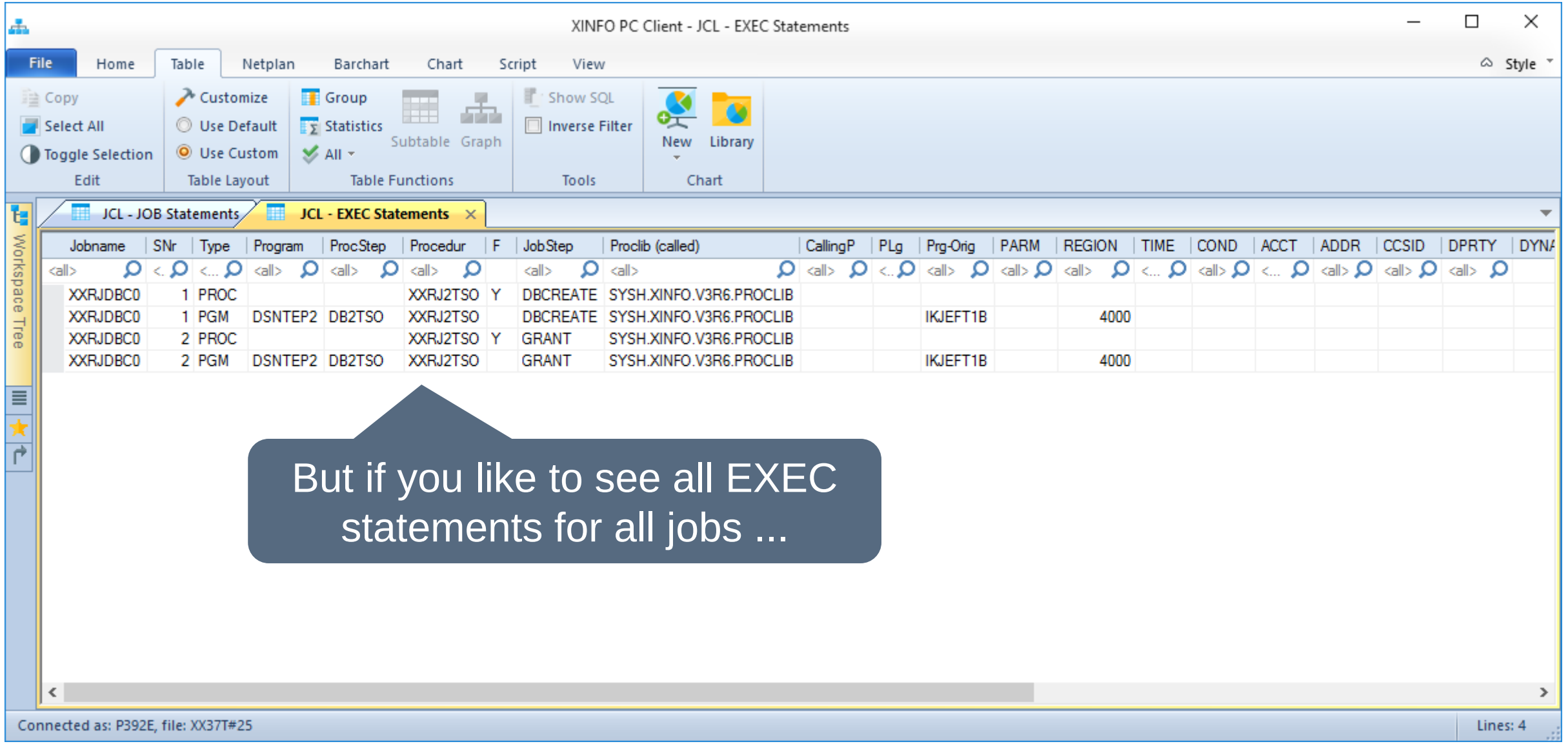
PC Client - ALL (1)



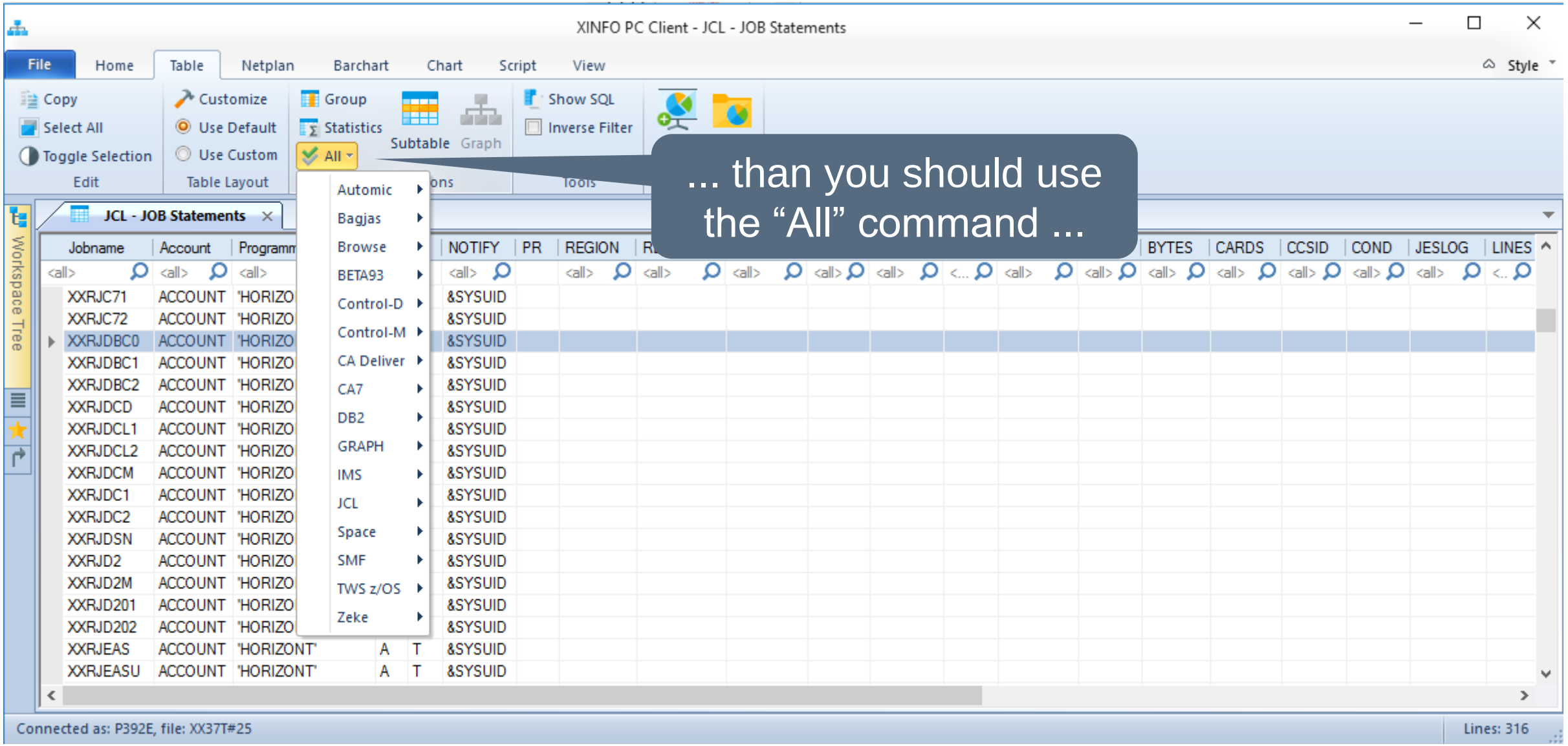
PC Client - ALL (2)



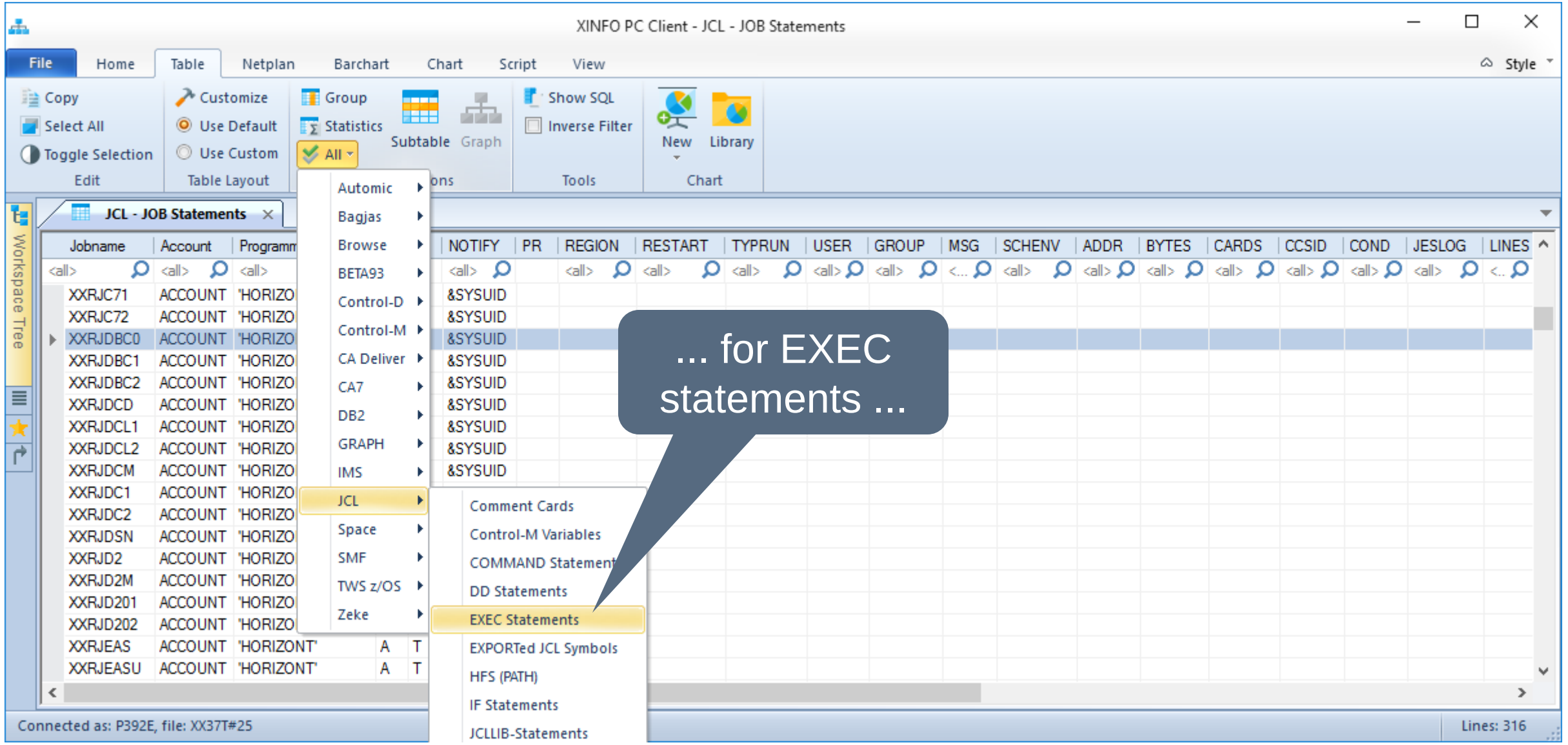
PC Client - ALL (3)



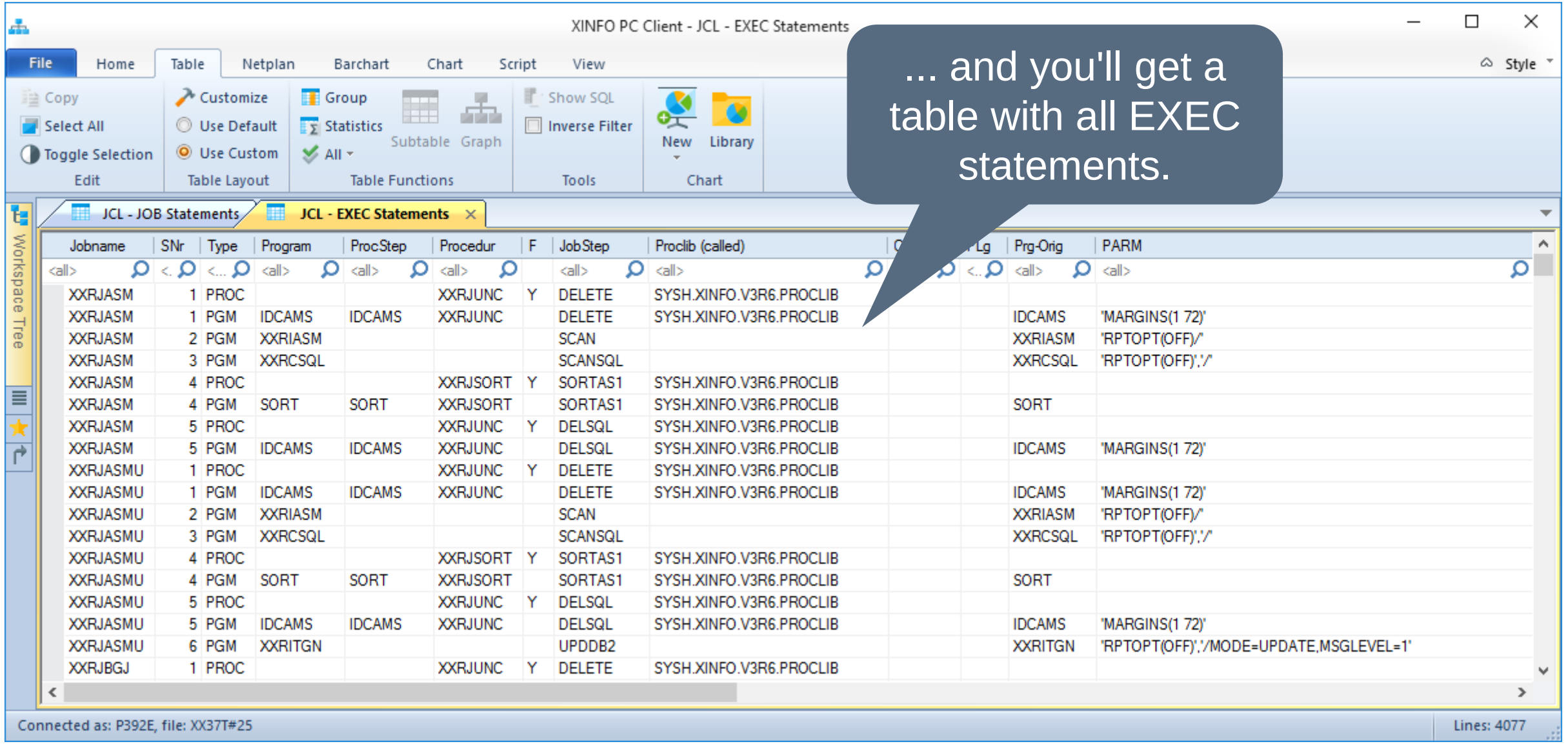
PC Client - ALL (4)



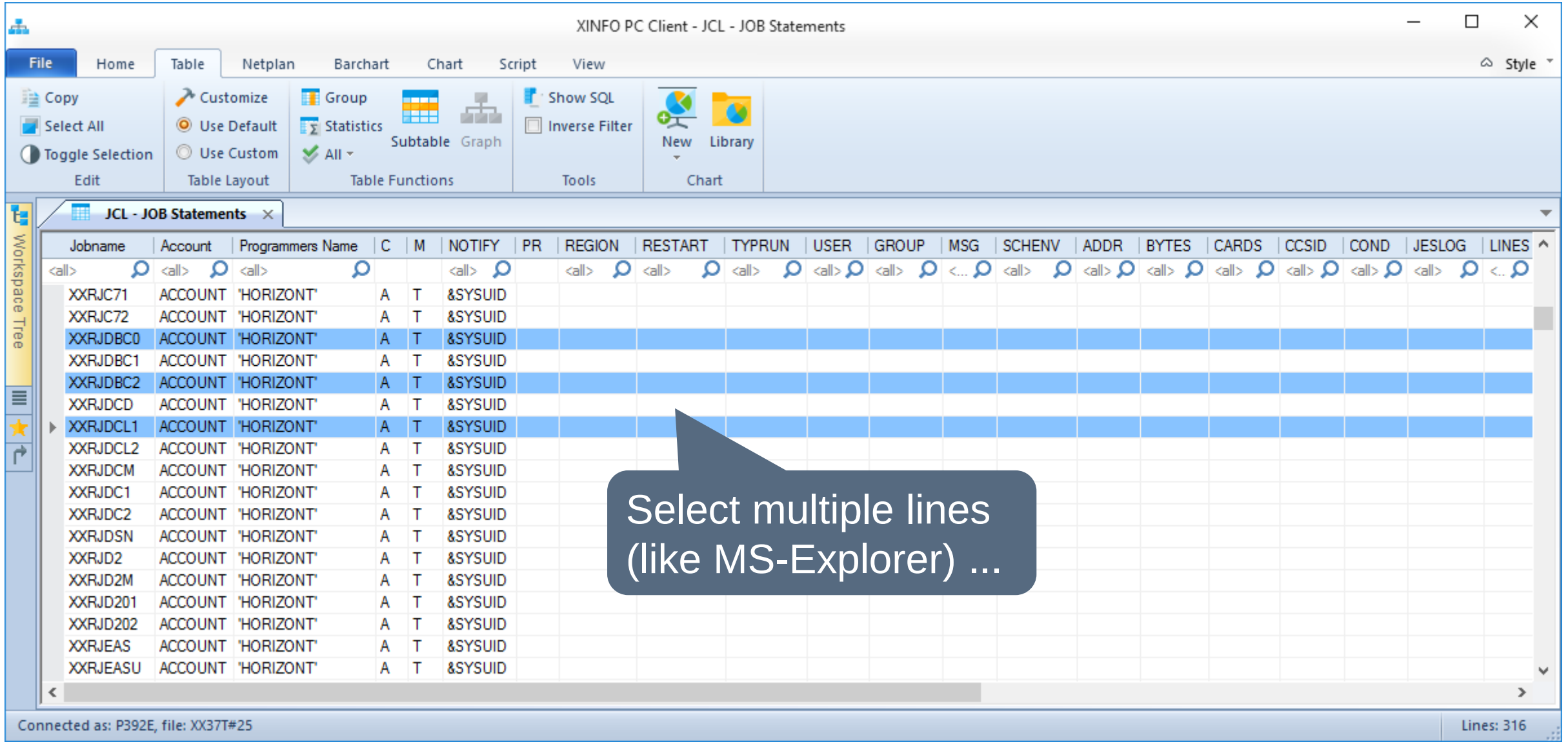
PC Client - ALL (5)



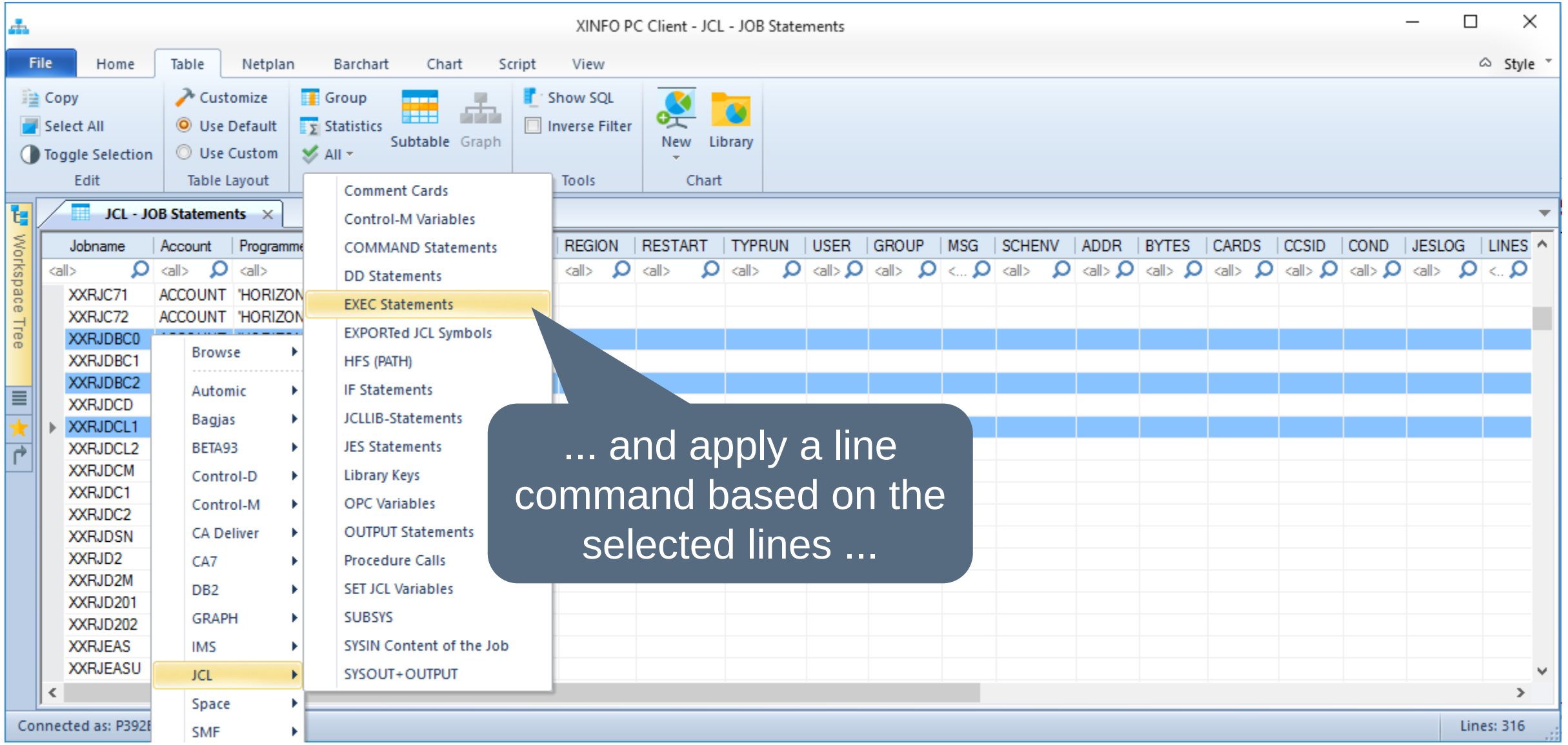
PC Client - ALL (6)



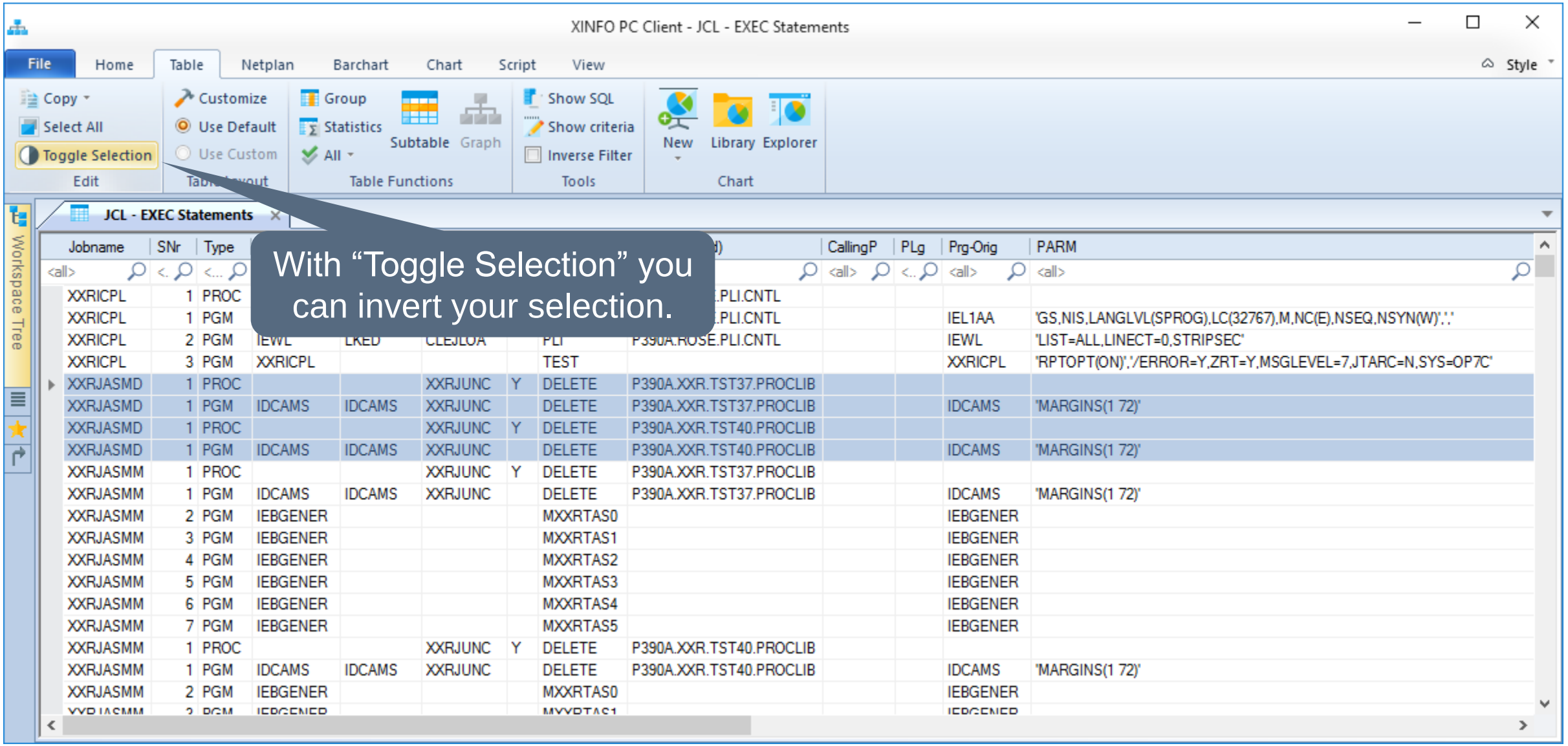
PC Client - Line commands for multiple line (1)



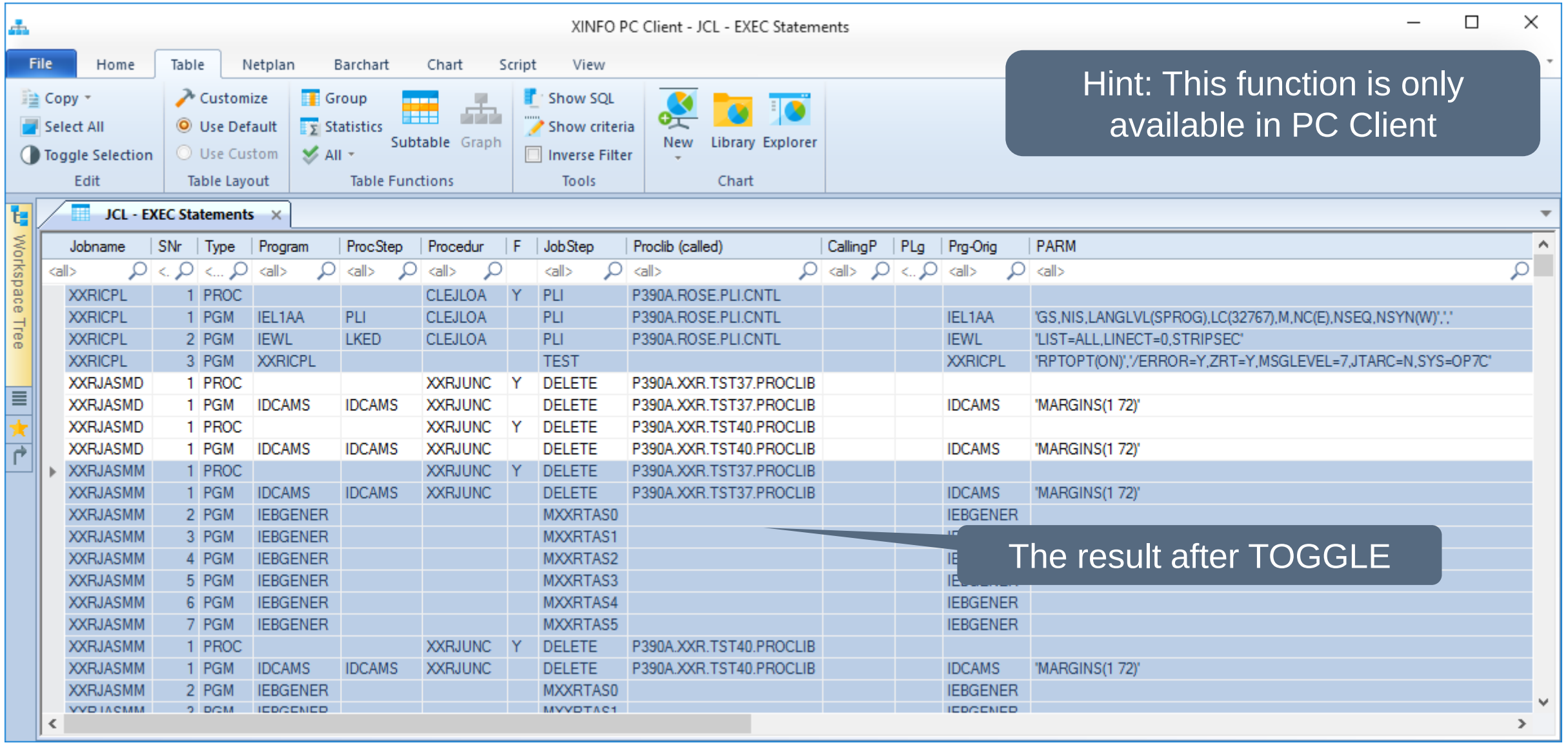
PC Client - Line commands for multiple lines (2)



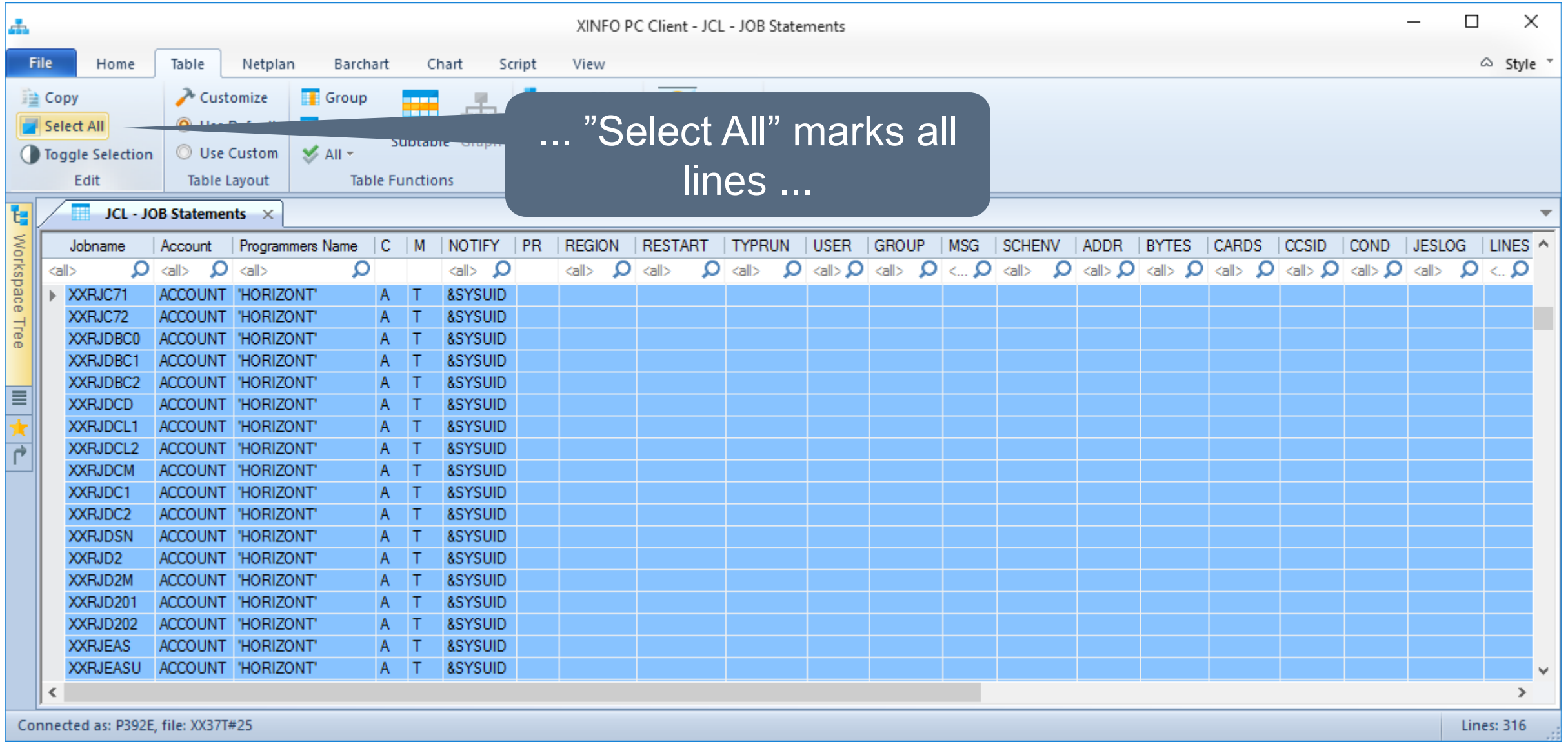
PC Client - Toggle function



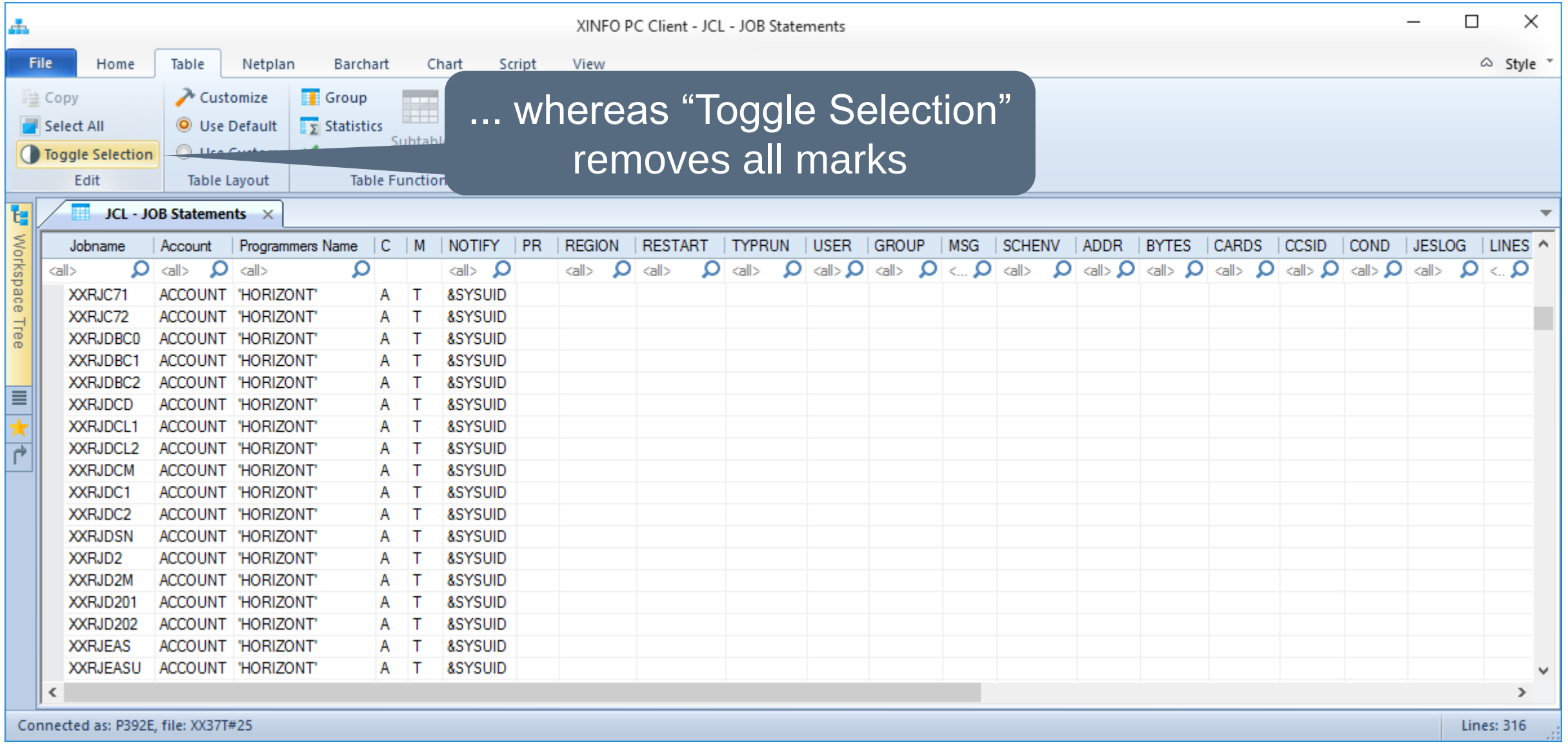
PC Client - Toggle function



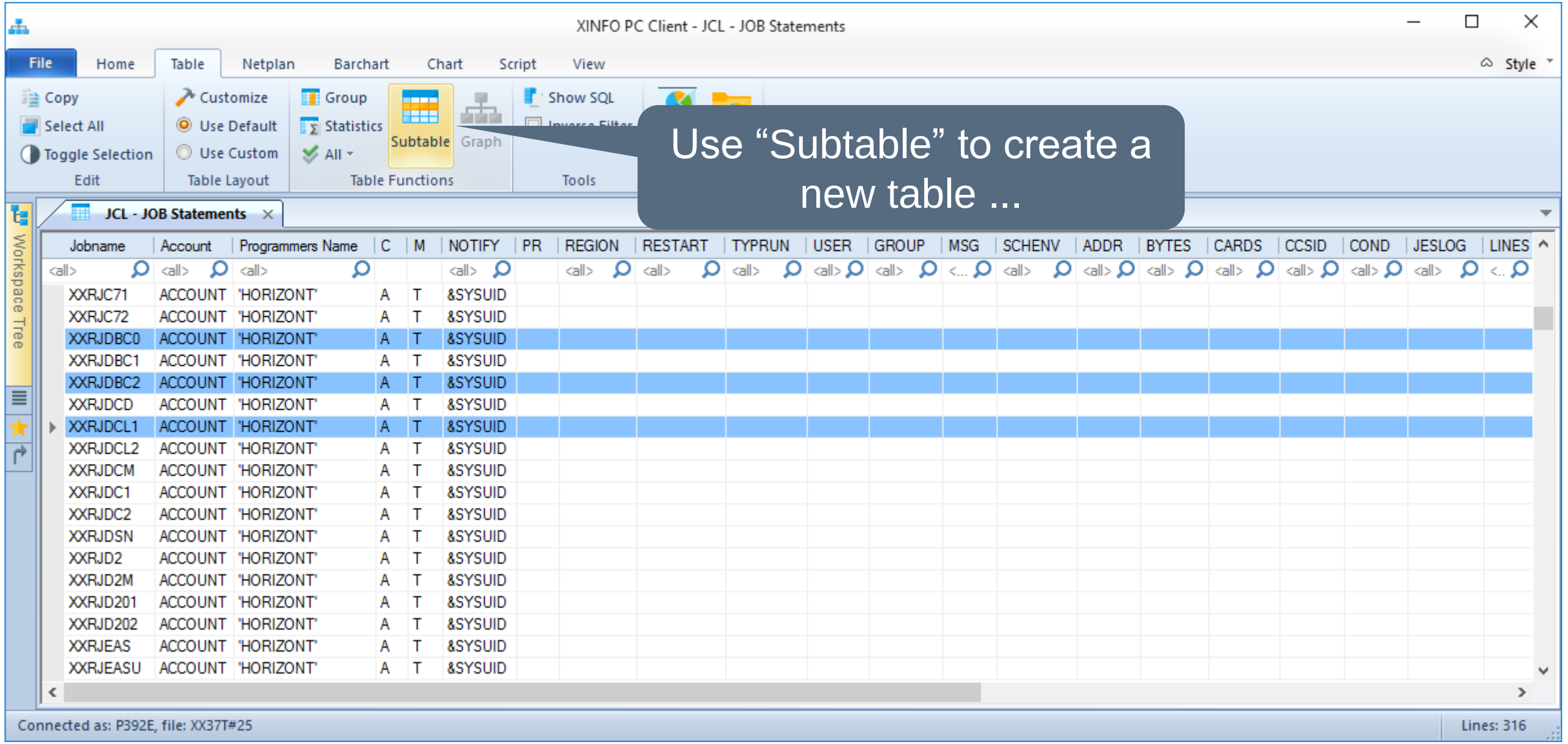
PC Client - MARK all rows



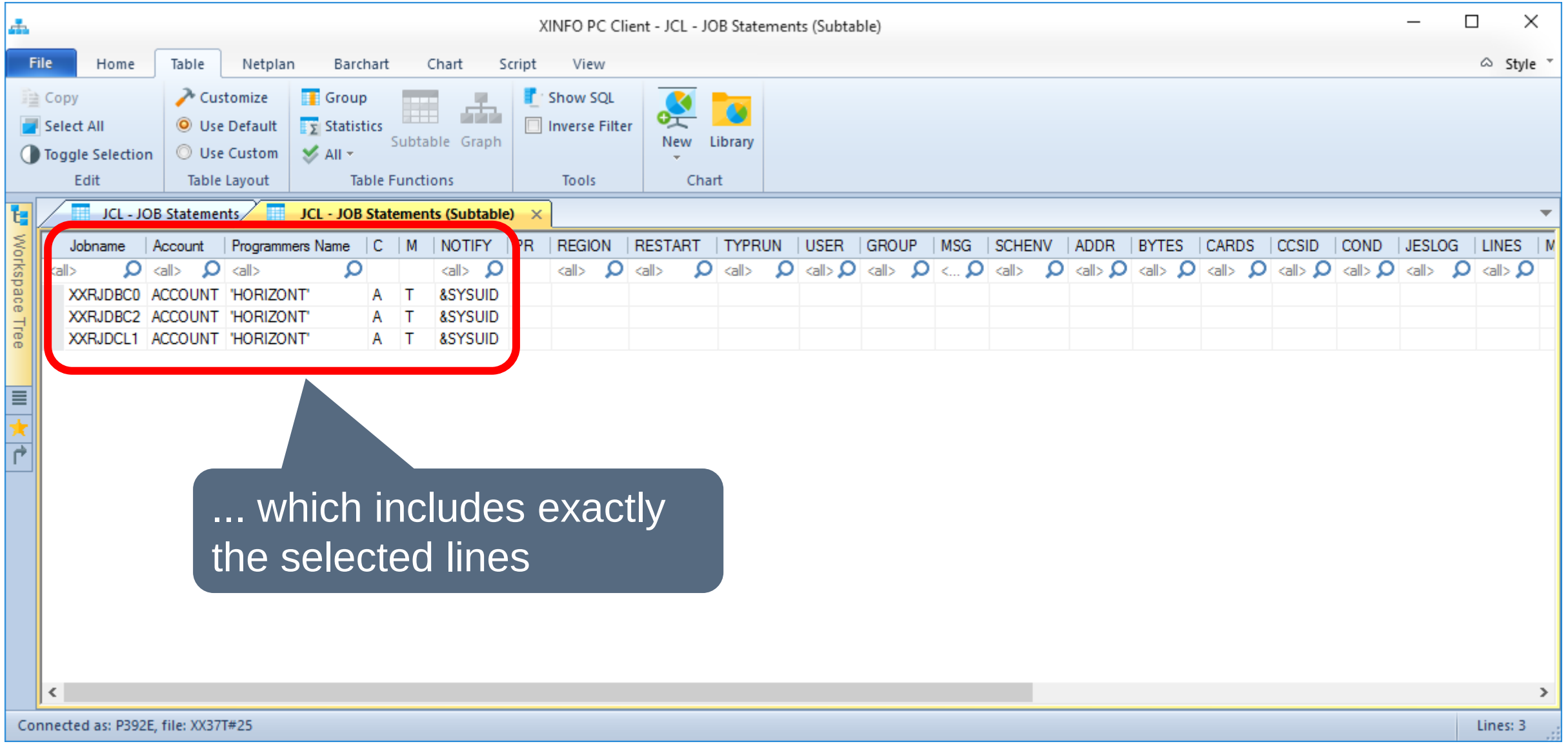
PC Client - REMOVE all marks



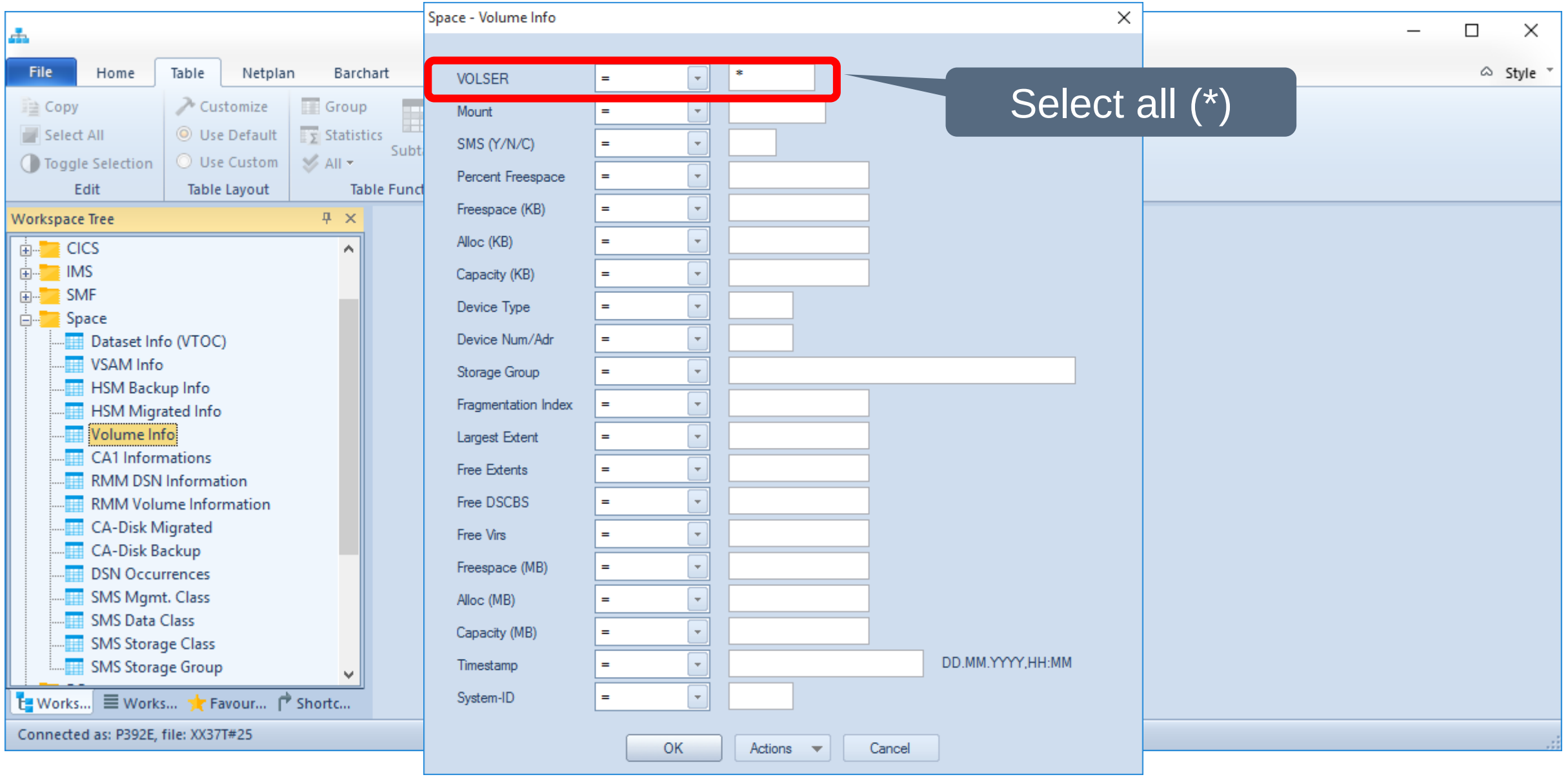
PC Client - SUBTABLE (1)



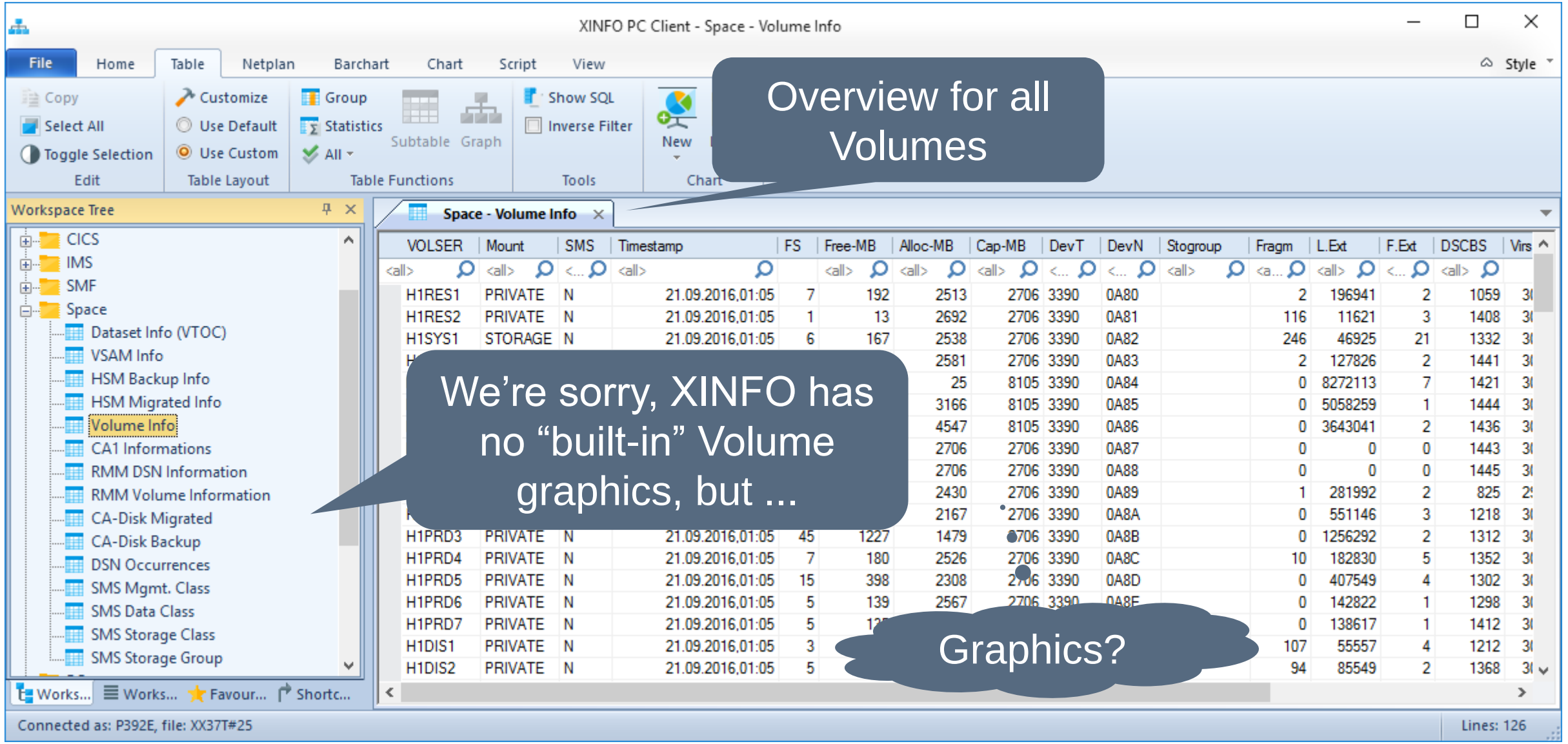
PC Client - SUBTABLE (2)



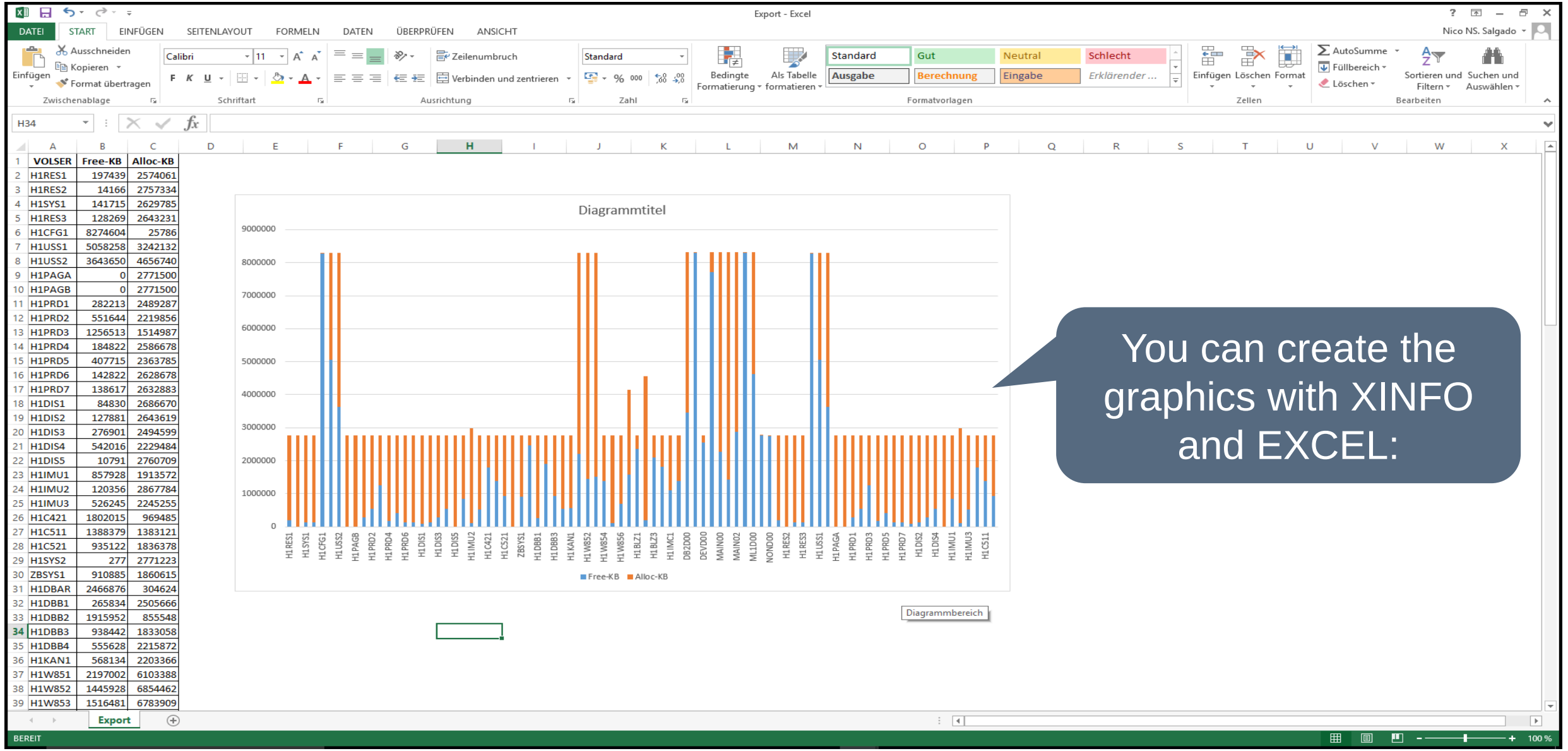
PC Client - EXPORT (1)



PC Client - EXPORT (2)

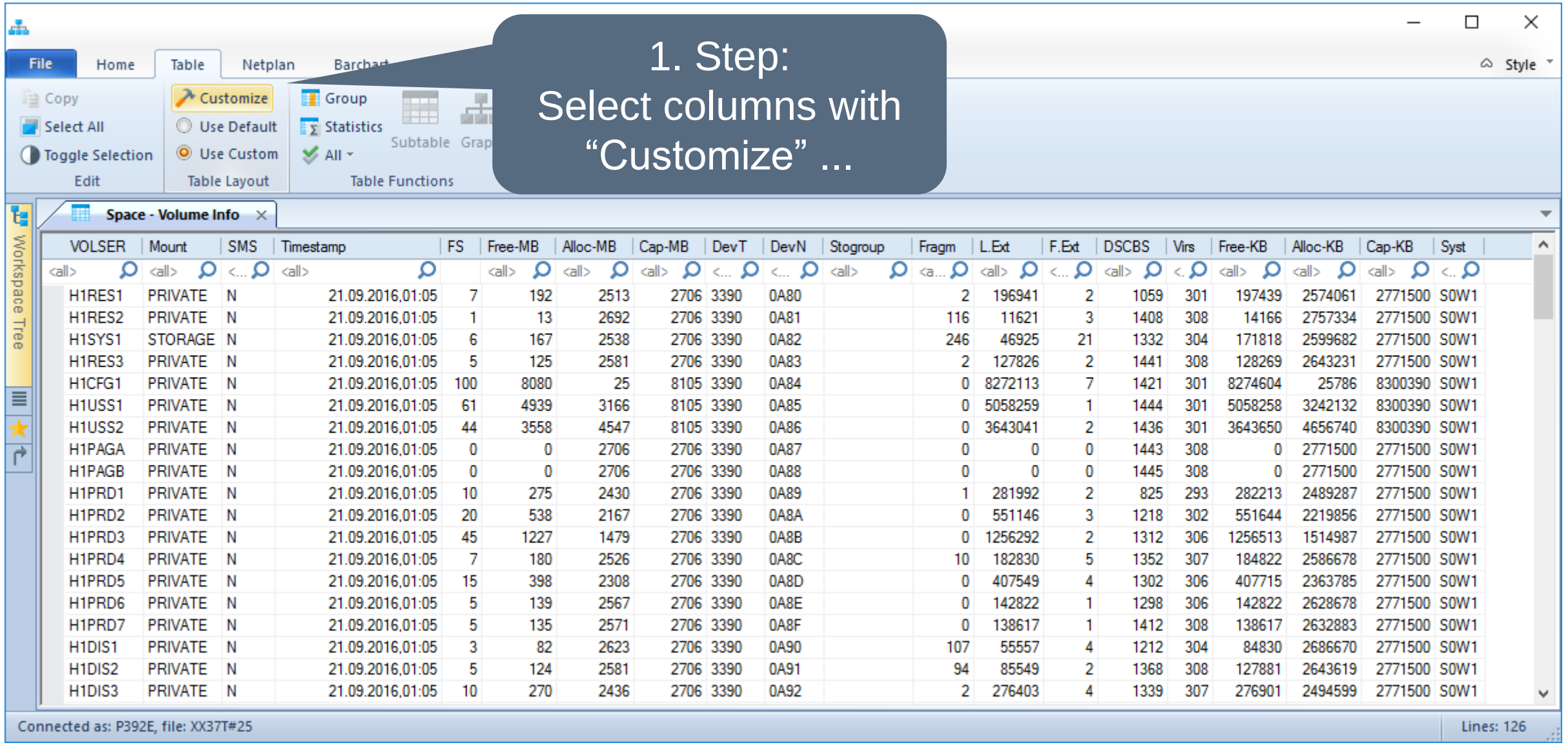


PC Client - EXPORT (3)

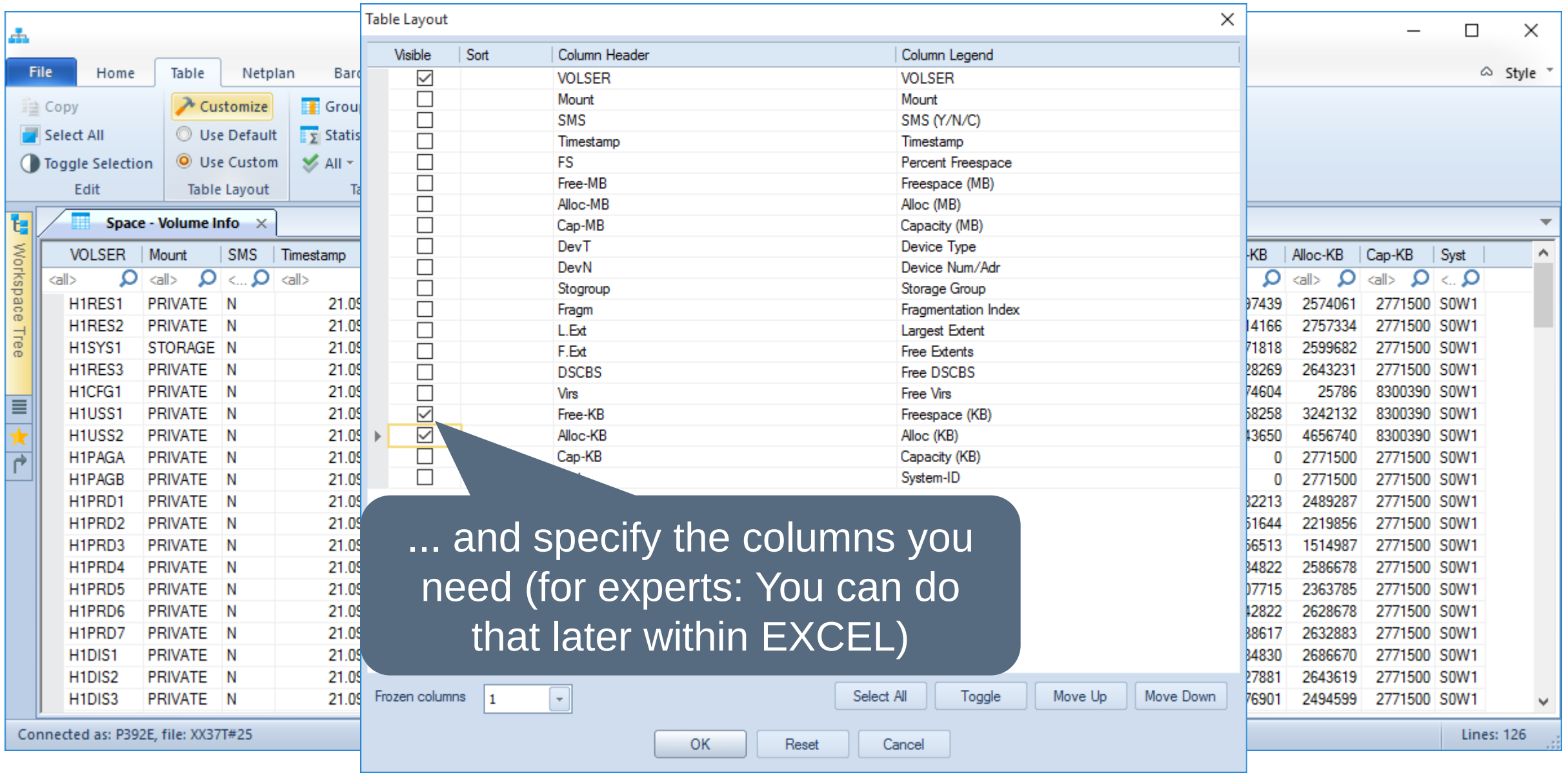


VOLSER	Free-KB	Alloc-KB
H1RES1	197439	2574061
H1RES2	14166	2757334
H1SYS1	141715	2629785
H1RES3	128269	2643231
H1CFG1	8274604	25786
H1USS1	5058258	3242132
H1USS2	3643650	4656740
H1PAGA	0	2771500
H1PAGB	0	2771500
H1PRD1	282213	2489287
H1PRD2	551644	2219856
H1PRD3	1256513	1514987
H1PRD4	184822	2586678
H1PRD5	407715	2363785
H1PRD6	142822	2628678
H1PRD7	138617	2632883
H1DIS1	84830	2686670
H1DIS2	127881	2643619
H1DIS3	276901	2494599
H1DIS4	542016	2229484
H1DIS5	10791	2760709
H1IMU1	857928	1913572
H1IMU2	120356	2867784
H1IMU3	526245	2245255
H1C421	1802015	969485
H1C511	1388379	1383121
H1C521	935122	1836378
H1SYS2	277	2771223
ZBSYS1	910885	1860615
H1DBAR	2466876	304624
H1DBB1	265834	2505666
H1DBB2	1915952	855548
H1DBB3	938442	1833058
H1DBB4	555628	2215872
H1KAN1	568134	2203366
H1W851	2197002	6103388
H1W852	1445928	6854462
H1W853	1516481	6783909

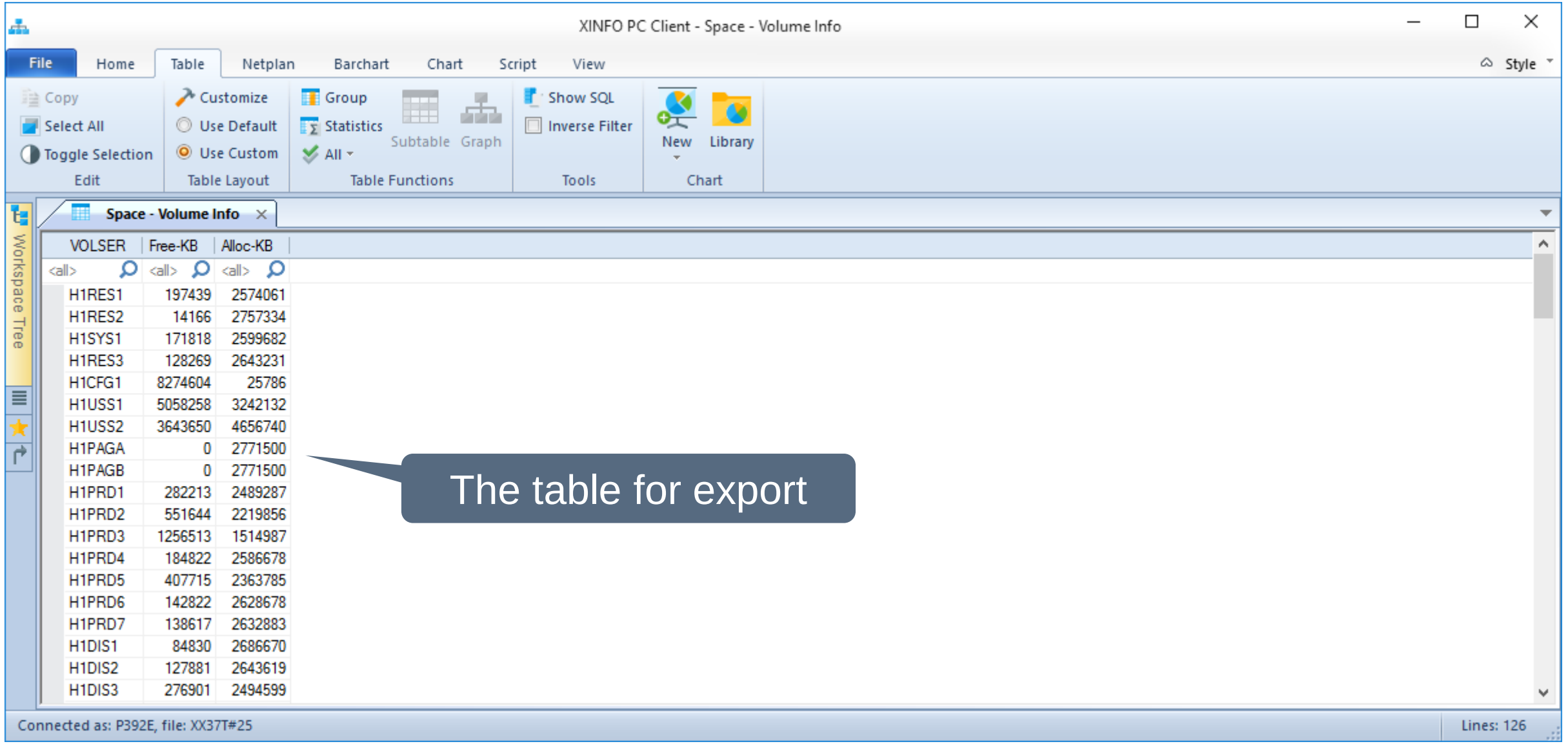
PC Client - EXPORT (4)



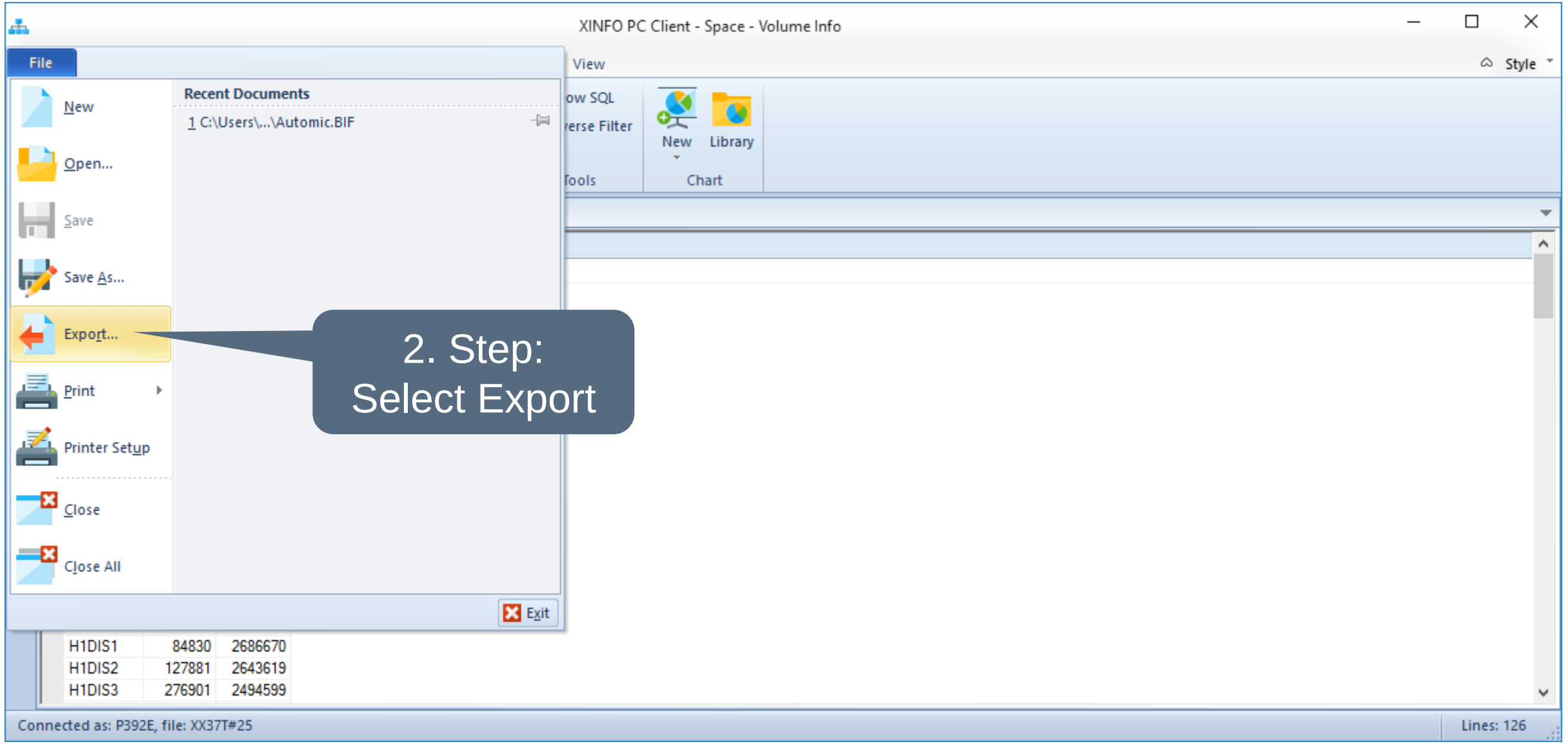
PC Client - EXPORT (5)



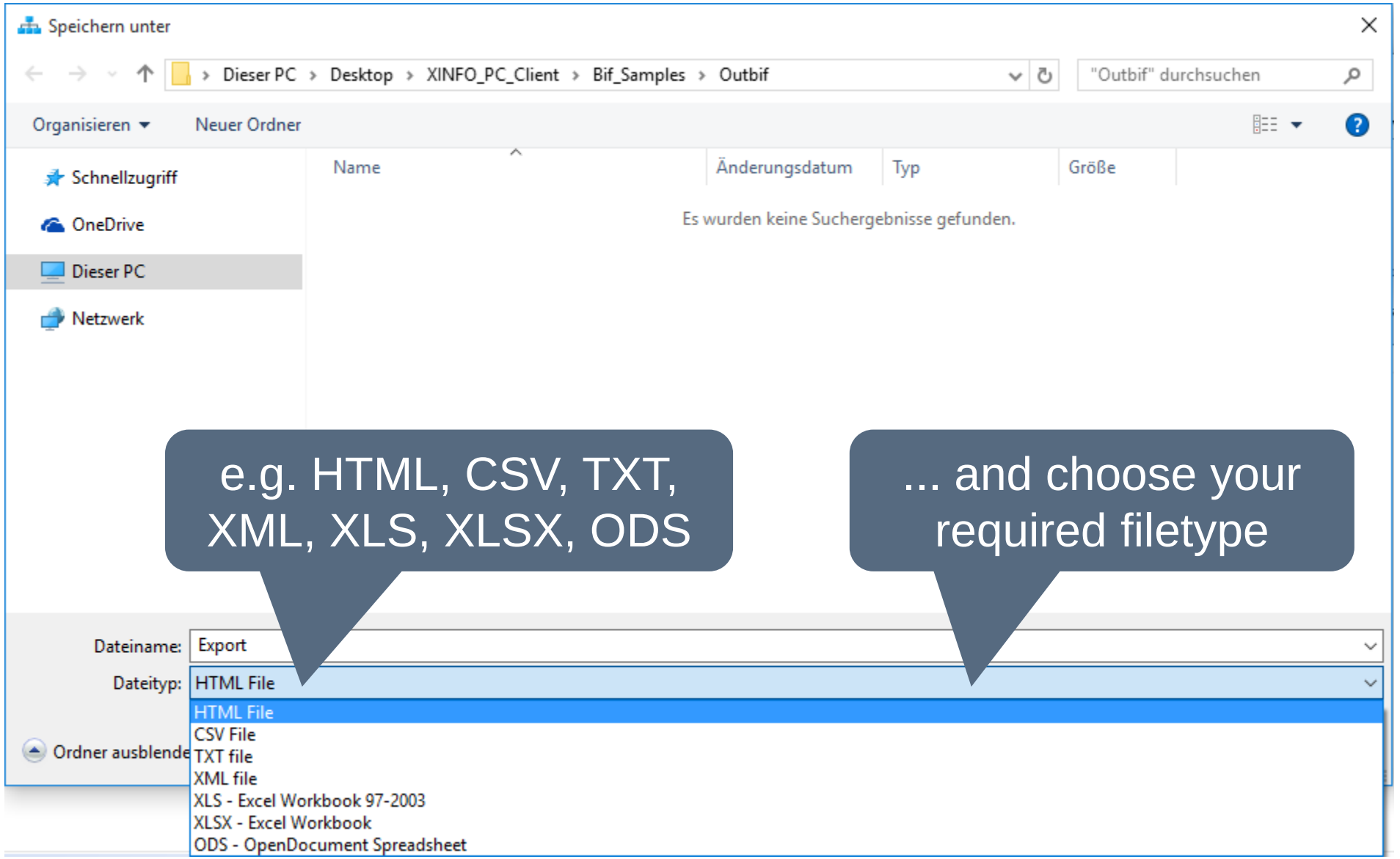
PC Client - EXPORT (6)



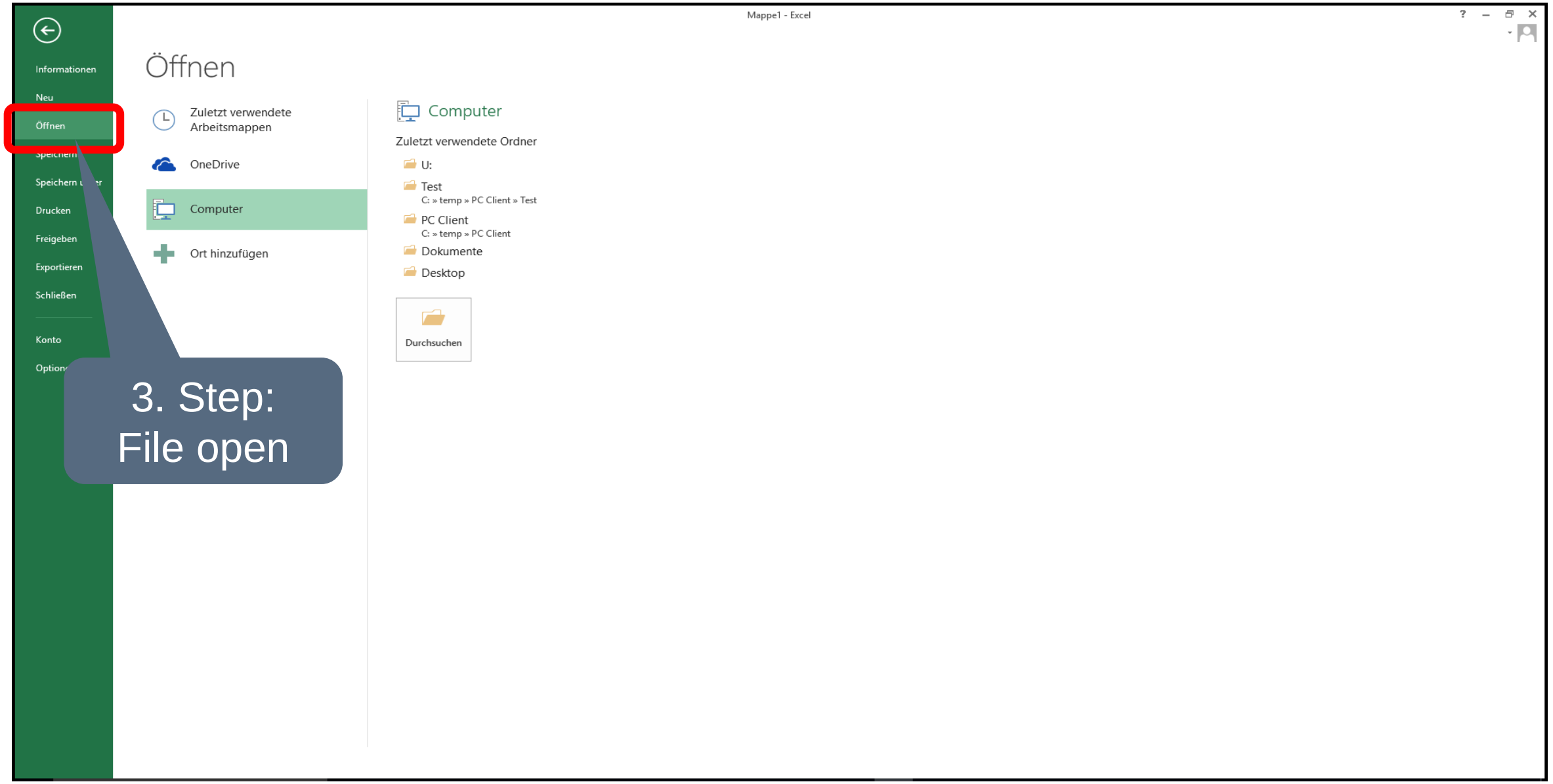
PC Client - IMPORT into EXCEL (1)



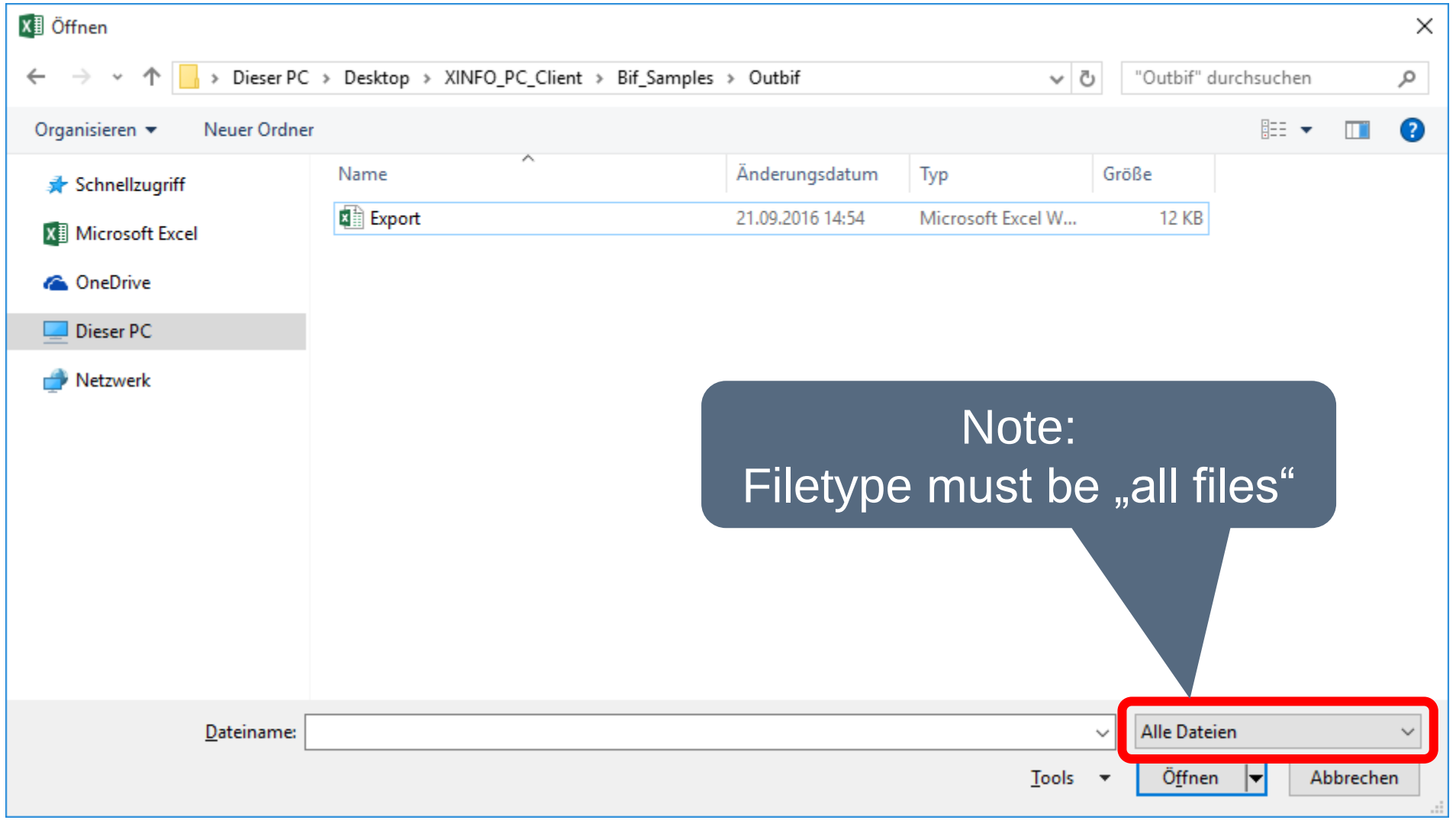
PC Client - IMPORT into EXCEL (2)



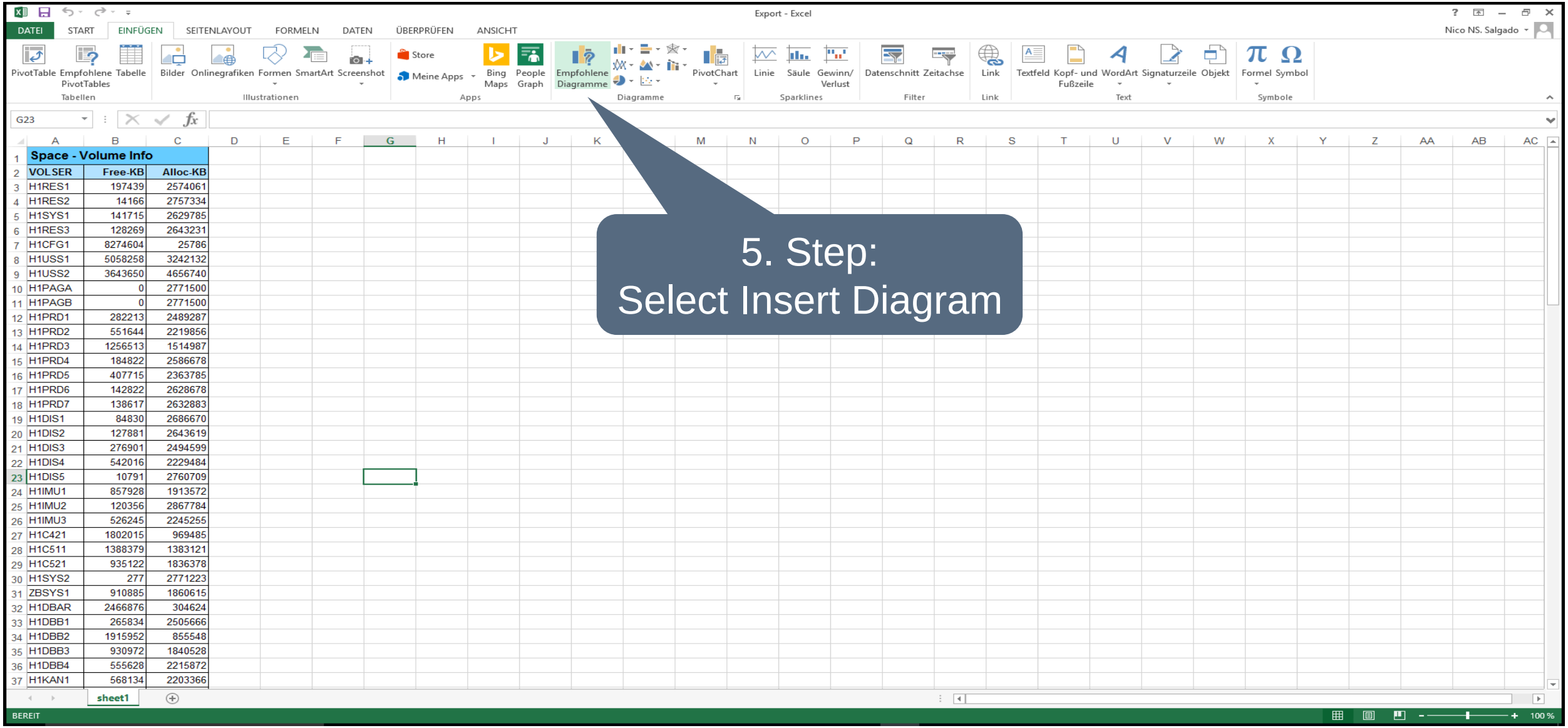
PC Client - IMPORT into EXCEL (3)



PC Client - IMPORT into EXCEL (4)

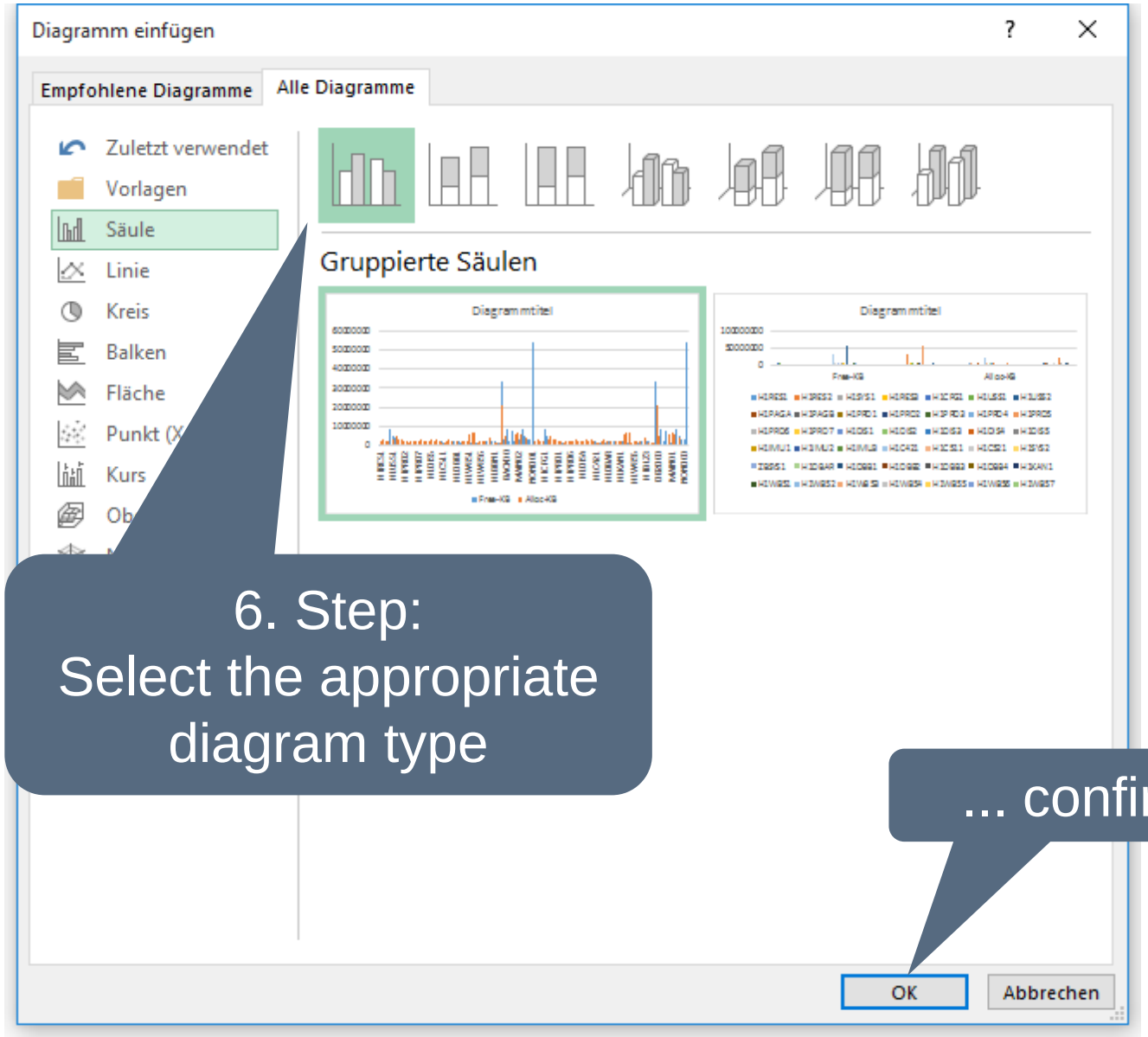


PC Client - IMPORT into EXCEL (5)

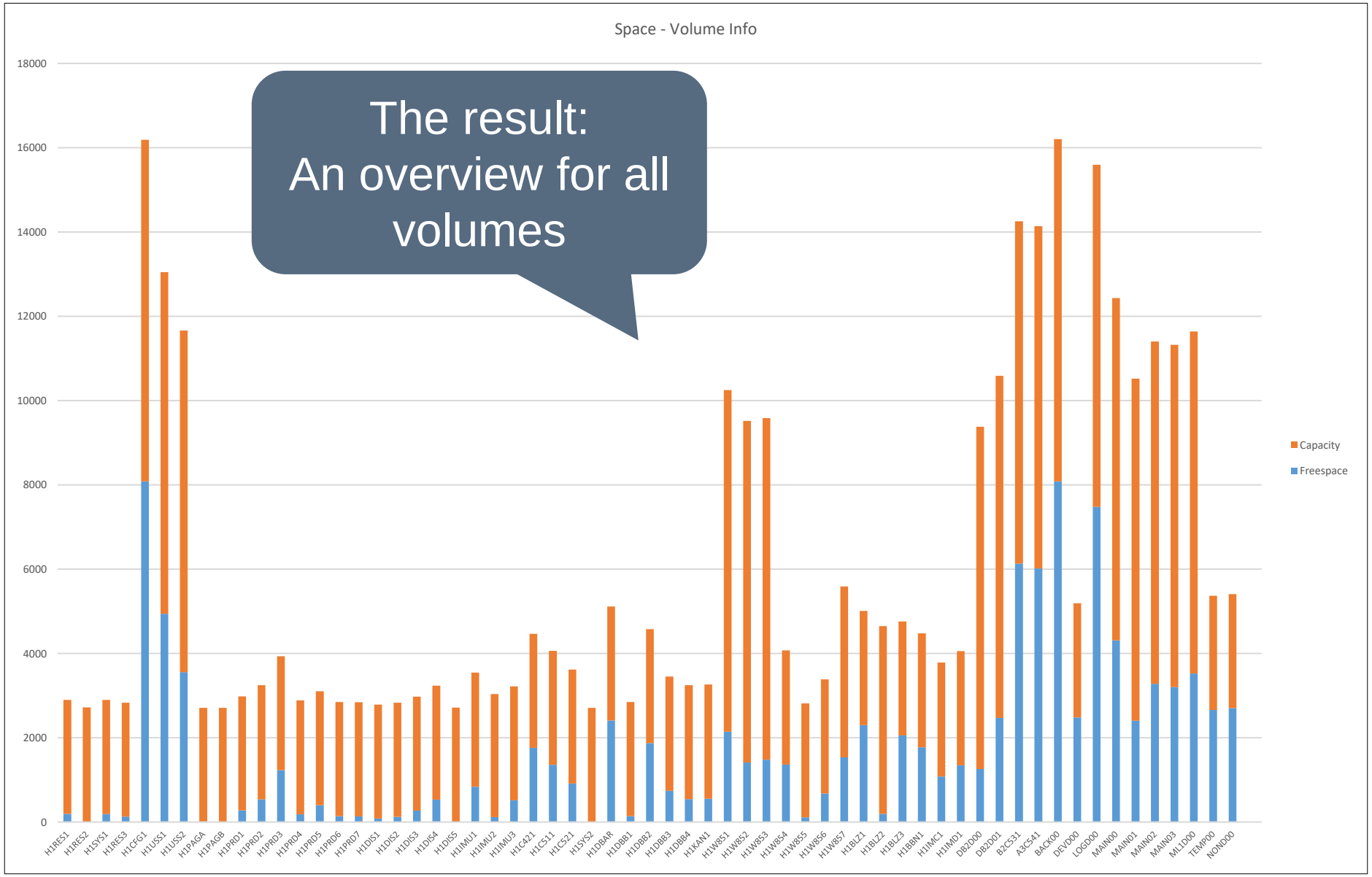


Space - Volume Info		
VOLSER	Free-KB	Alloc-KB
H1RES1	197439	2574061
H1RES2	14166	2757334
H1SYS1	141715	2629785
H1RES3	128269	2643231
H1CFG1	8274604	25786
H1USS1	5058258	3242132
H1USS2	3643650	4656740
H1PAGA	0	2771500
H1PAGB	0	2771500
H1PRD1	282213	2489287
H1PRD2	551644	2219856
H1PRD3	1256513	1514987
H1PRD4	184822	2586678
H1PRD5	407715	2363785
H1PRD6	142822	2628678
H1PRD7	138617	2632883
H1DIS1	84830	2686670
H1DIS2	127881	2643619
H1DIS3	276901	2494599
H1DIS4	542016	2229484
H1DIS5	10791	2760709
H1IMU1	857928	1913572
H1IMU2	120356	2867784
H1IMU3	526245	2245255
H1C421	1802015	969485
H1C511	1388379	1383121
H1C521	935122	1836378
H1SYS2	277	2771223
ZBSYS1	910885	1860615
H1DBAR	2466876	304624
H1DBB1	265834	2505666
H1DBB2	1915952	855548
H1DBB3	930972	1840528
H1DBB4	555628	2215872
H1KAN1	568134	2203366

PC Client - Select diagram in EXCEL



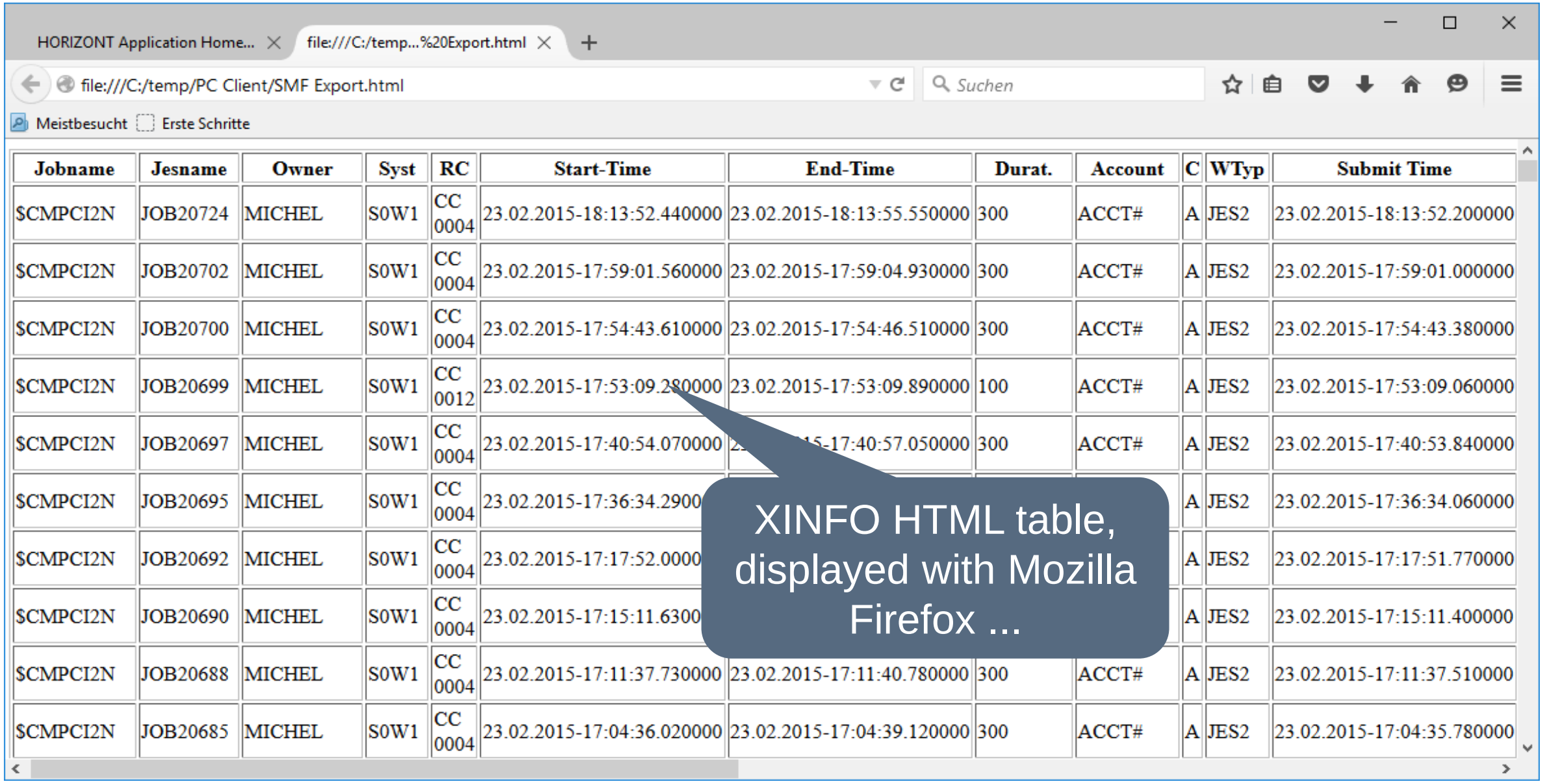
PC Client - Volume Overview



PC Client - Export format, Overview

- Tables
  - HTML file, CSV file, XML file
  - TXT file (plain ASCII Text)
  - XLS, XLSX (Excel Workbook)
  - ODS (OpenDocument Spreadsheet)
- Graphics
  - JPG (JPEG), PNG (Portable Network Graphics); compressed format
  - BMP (Windows Bitmap); Uncompressed format
  - TIF (Tagged Image File); high-resolution graphics
  - WMF (Windows Metafile), EMF (Windows Enhanced Metafile)

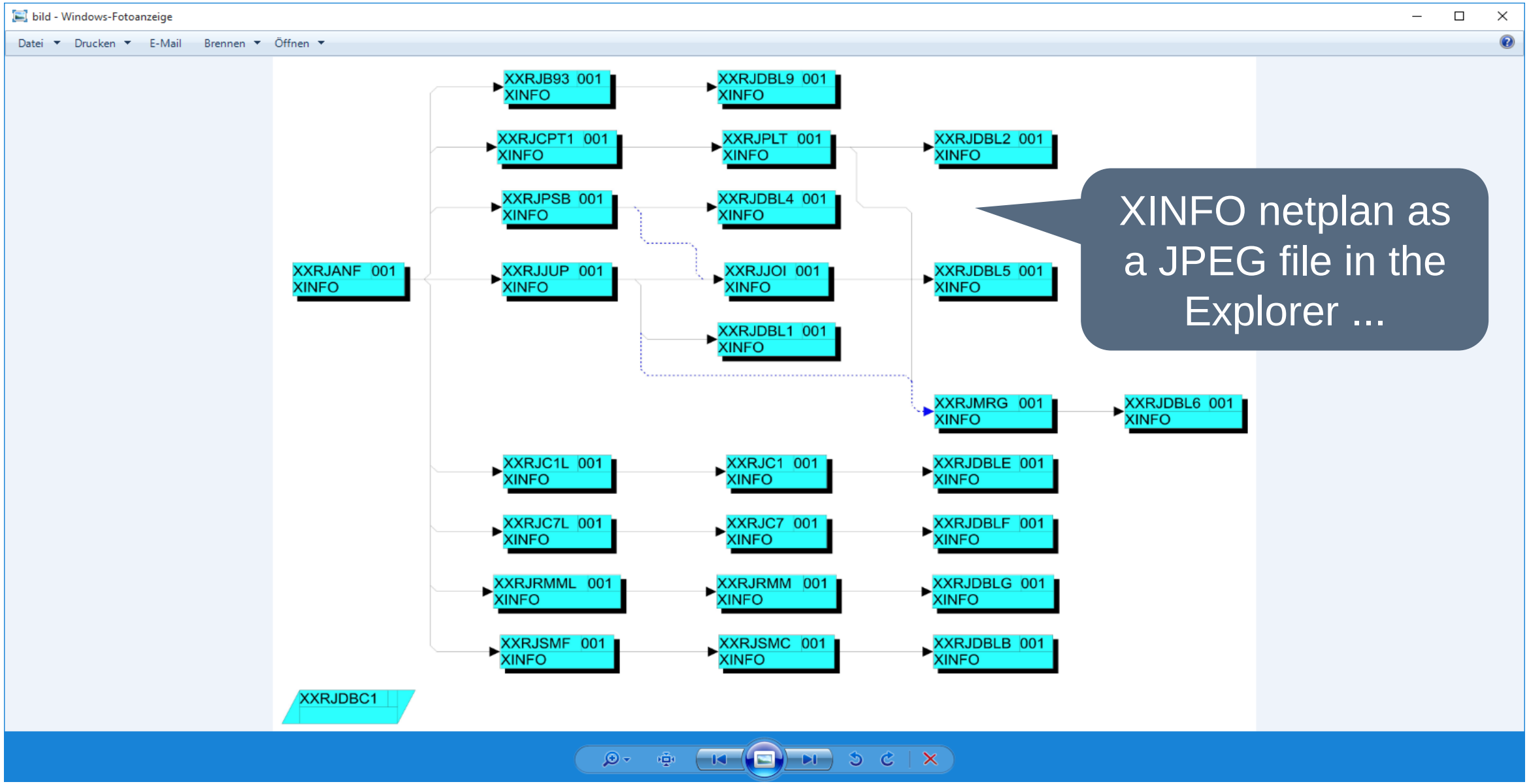
PC Client - XINFO table in HTML



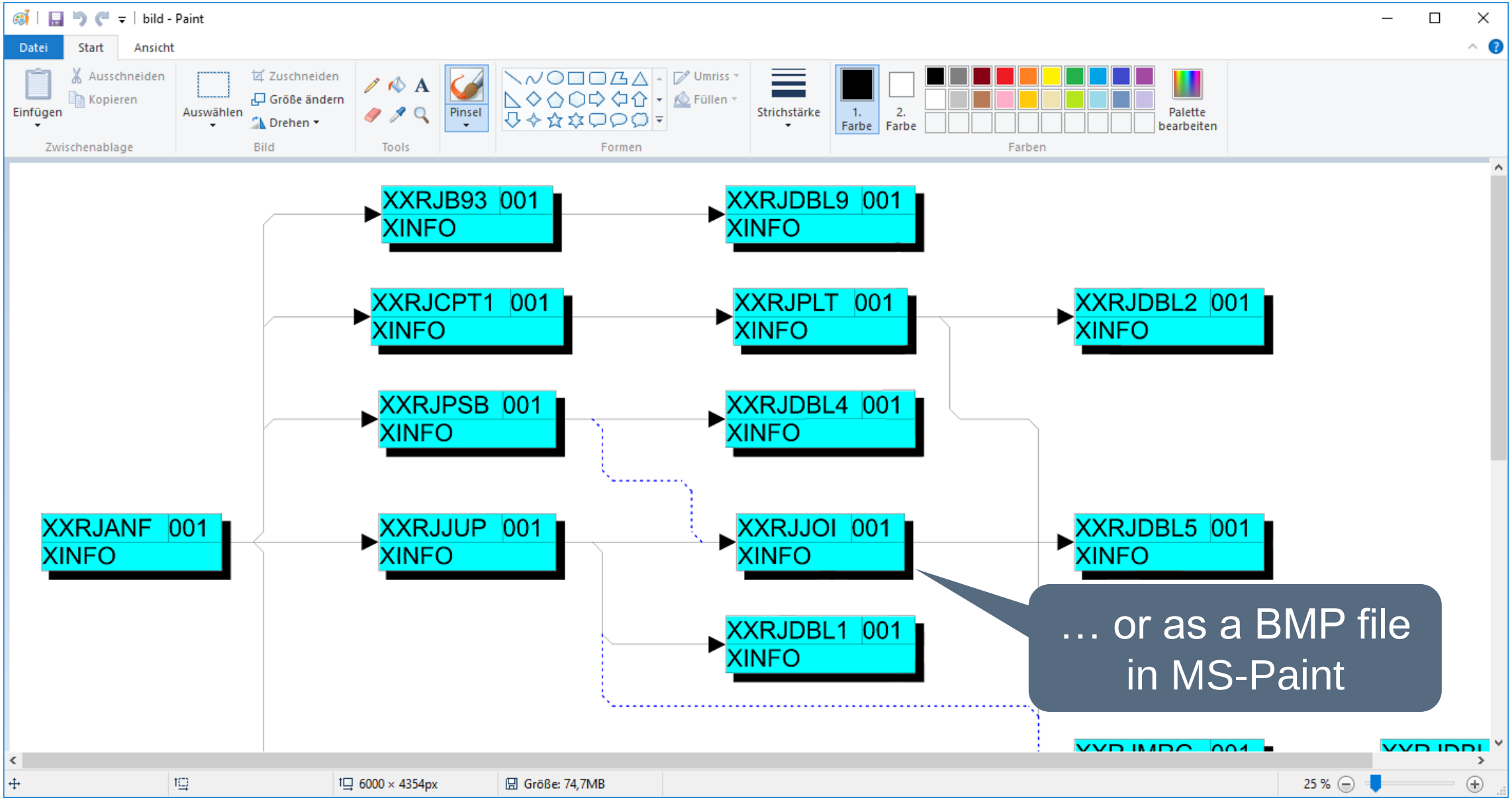
Jobname	Jesname	Owner	Syst	RC	Start-Time	End-Time	Durat.	Account	C	WTyp	Submit Time
$CMPCI2N	JOB20724	MICHEL	S0W1	CC 0004	23.02.2015-18:13:52.440000	23.02.2015-18:13:55.550000	300	ACCT#	A	JES2	23.02.2015-18:13:52.200000
$CMPCI2N	JOB20702	MICHEL	S0W1	CC 0004	23.02.2015-17:59:01.560000	23.02.2015-17:59:04.930000	300	ACCT#	A	JES2	23.02.2015-17:59:01.000000
$CMPCI2N	JOB20700	MICHEL	S0W1	CC 0004	23.02.2015-17:54:43.610000	23.02.2015-17:54:46.510000	300	ACCT#	A	JES2	23.02.2015-17:54:43.380000
$CMPCI2N	JOB20699	MICHEL	S0W1	CC 0012	23.02.2015-17:53:09.280000	23.02.2015-17:53:09.890000	100	ACCT#	A	JES2	23.02.2015-17:53:09.060000
$CMPCI2N	JOB20697	MICHEL	S0W1	CC 0004	23.02.2015-17:40:54.070000	2[illegible]-17:40:57.050000	300	ACCT#	A	JES2	23.02.2015-17:40:53.840000
$CMPCI2N	JOB20695	MICHEL	S0W1	CC 0004	23.02.2015-17:36:34.2900				A	JES2	23.02.2015-17:36:34.060000
$CMPCI2N	JOB20692	MICHEL	S0W1	CC 0004	23.02.2015-17:17:52.0000				A	JES2	23.02.2015-17:17:51.770000
$CMPCI2N	JOB20690	MICHEL	S0W1	CC 0004	23.02.2015-17:15:11.6300				A	JES2	23.02.2015-17:15:11.400000
$CMPCI2N	JOB20688	MICHEL	S0W1	CC 0004	23.02.2015-17:11:37.730000	23.02.2015-17:11:40.780000	300	ACCT#	A	JES2	23.02.2015-17:11:37.510000
$CMPCI2N	JOB20685	MICHEL	S0W1	CC 0004	23.02.2015-17:04:36.020000	23.02.2015-17:04:39.120000	300	ACCT#	A	JES2	23.02.2015-17:04:35.780000

XINFO HTML table, displayed with Mozilla Firefox ...

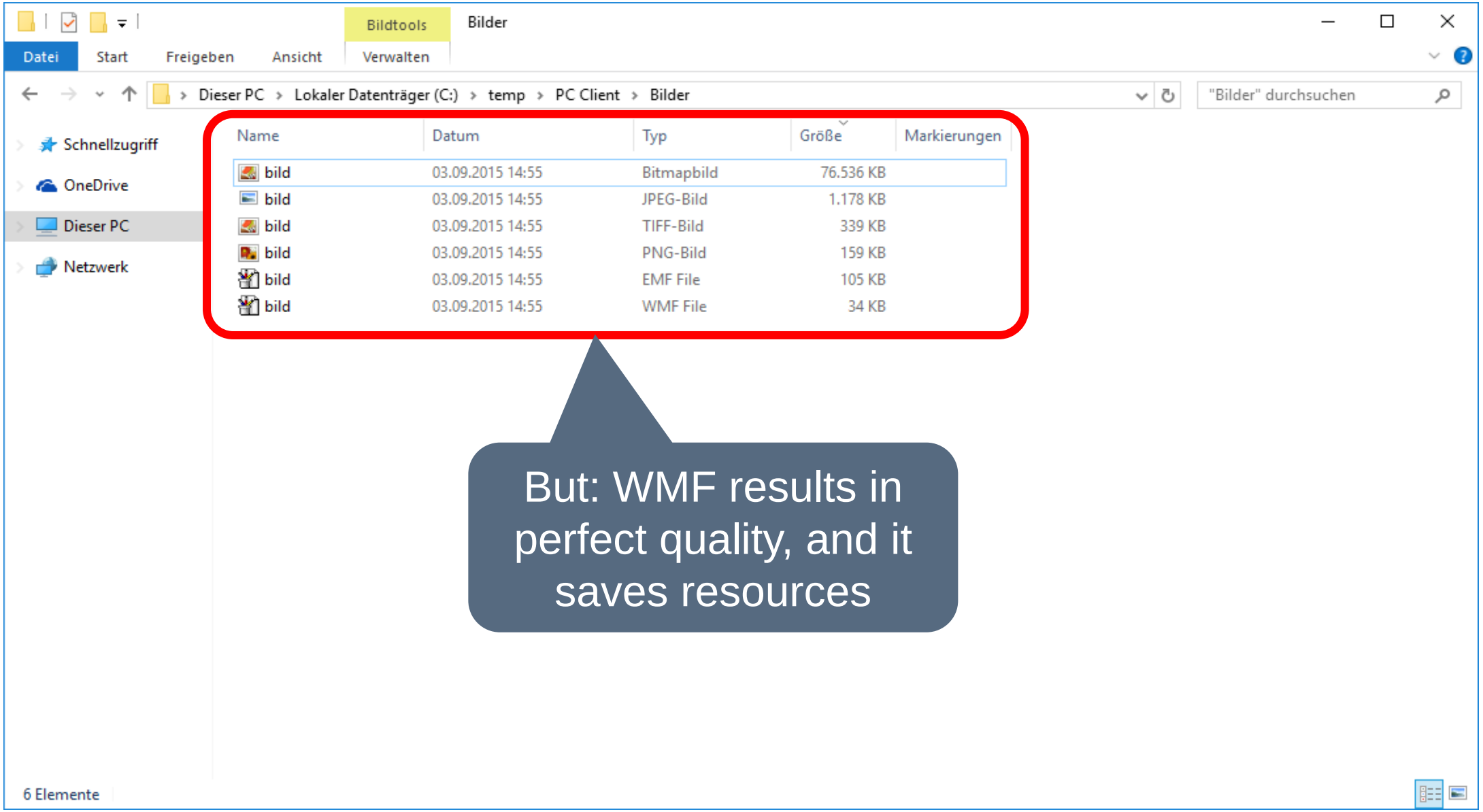
PC Client - JPEG Graphics



PC Client - BMP Graphics

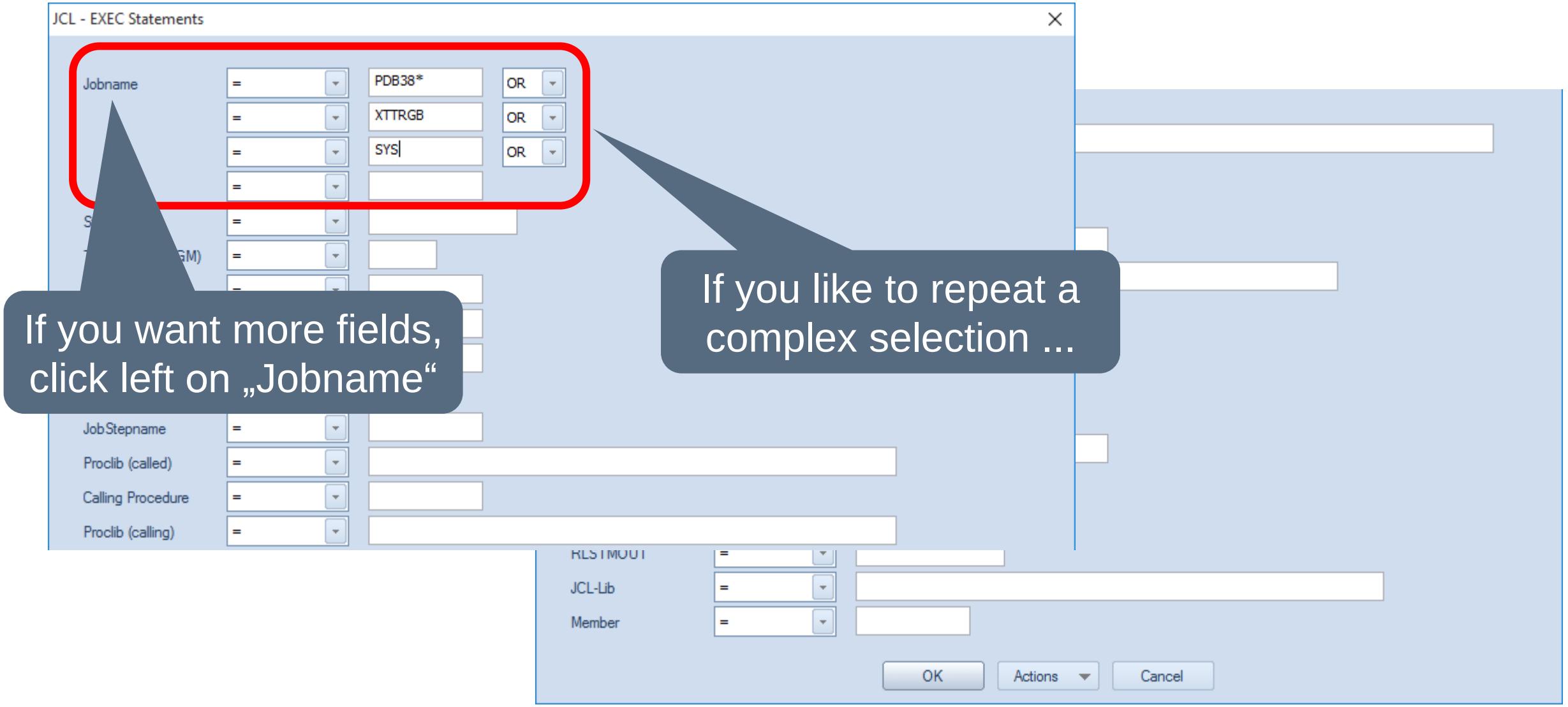


PC Client - Graphics, Filesize

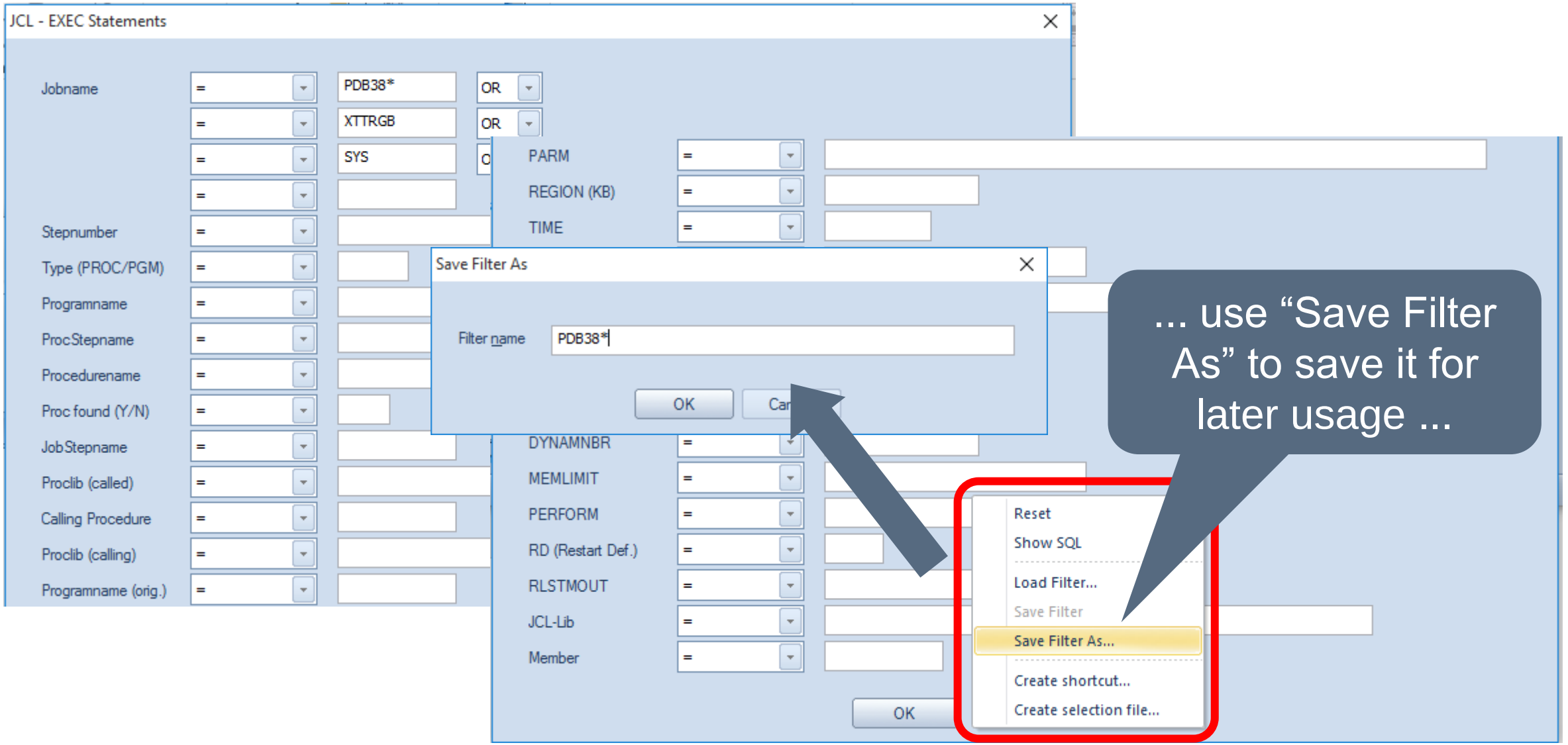


But: WMF results in perfect quality, and it saves resources

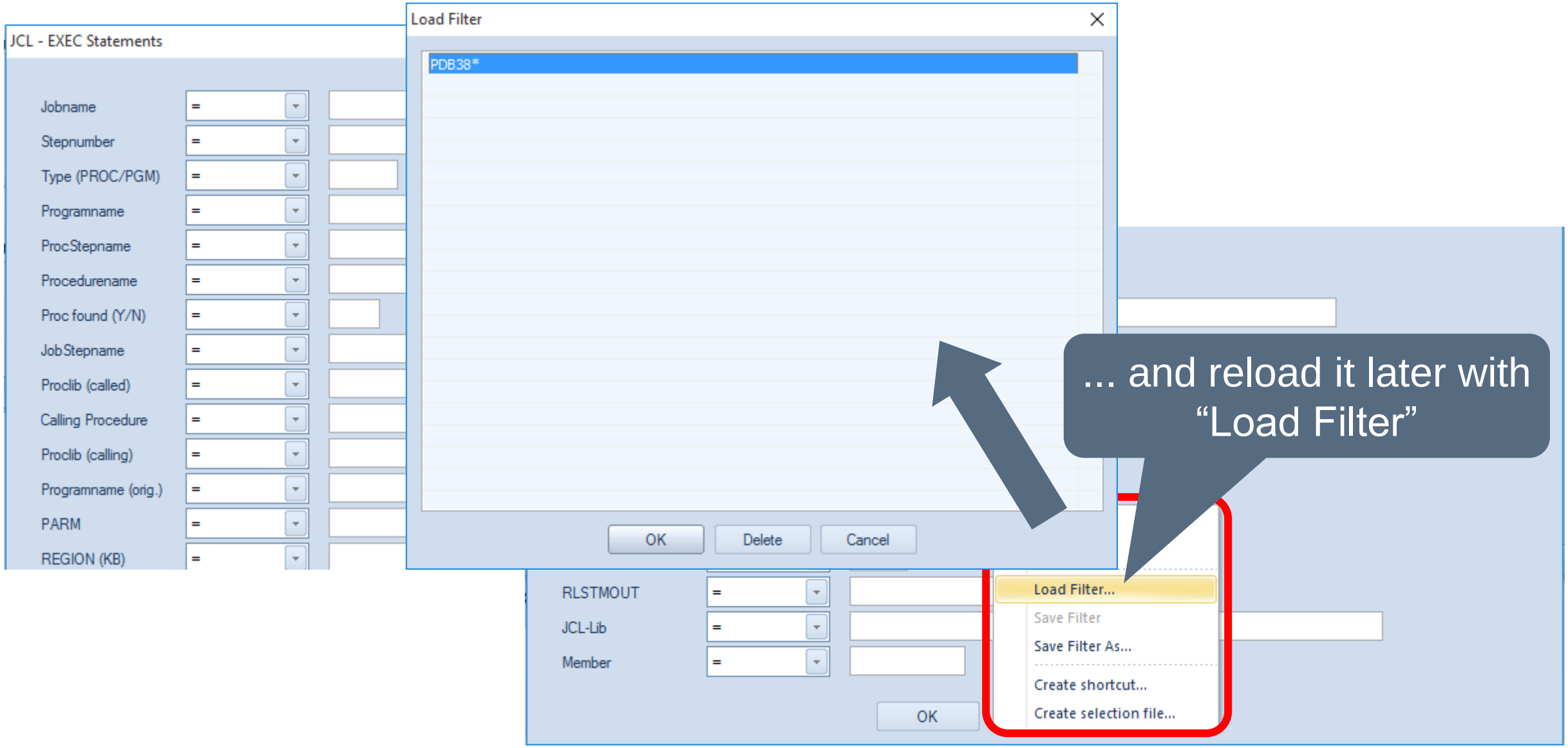
PC Client - SAVE and LOAD Selection (1)



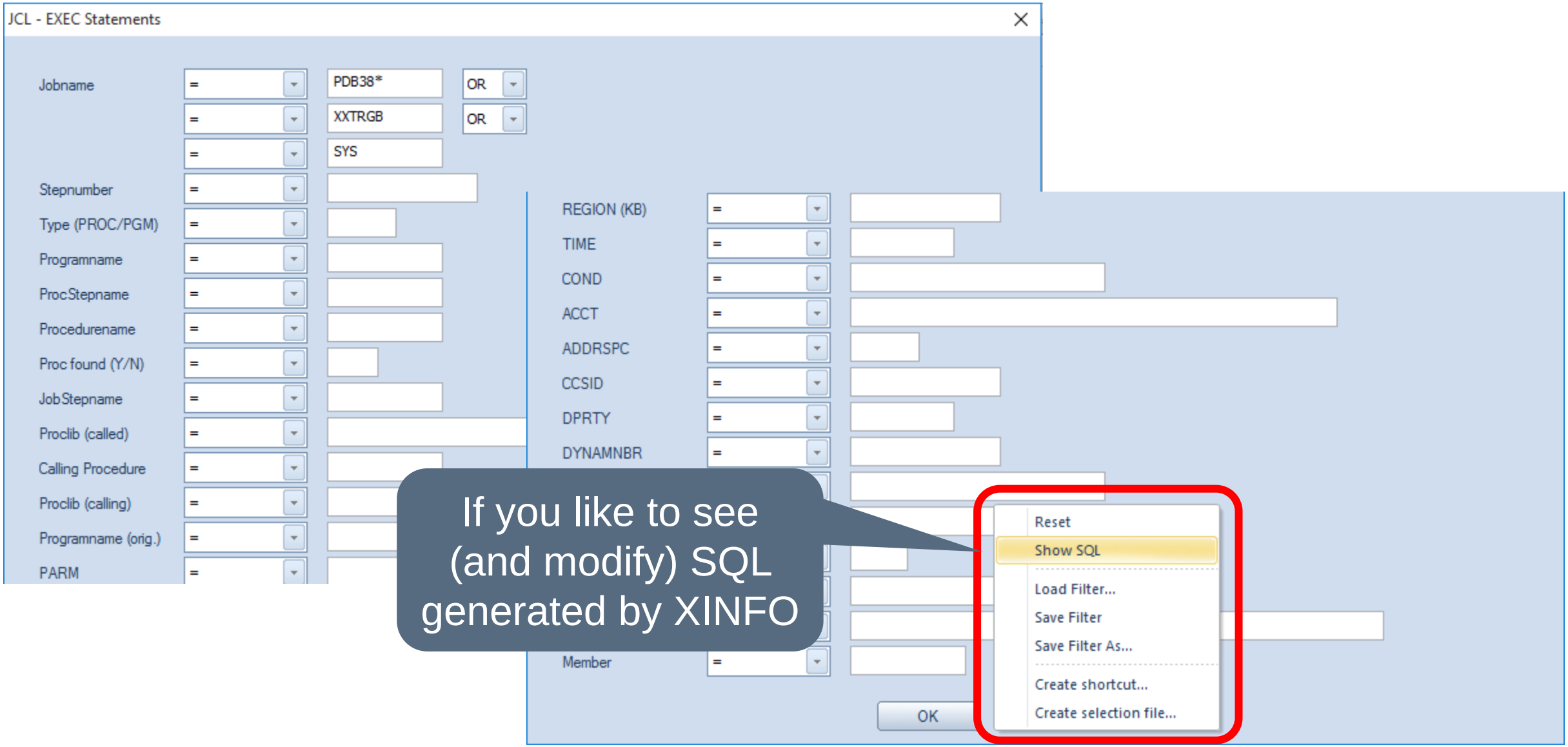
PC Client - SAVE and LOAD Selection (2)



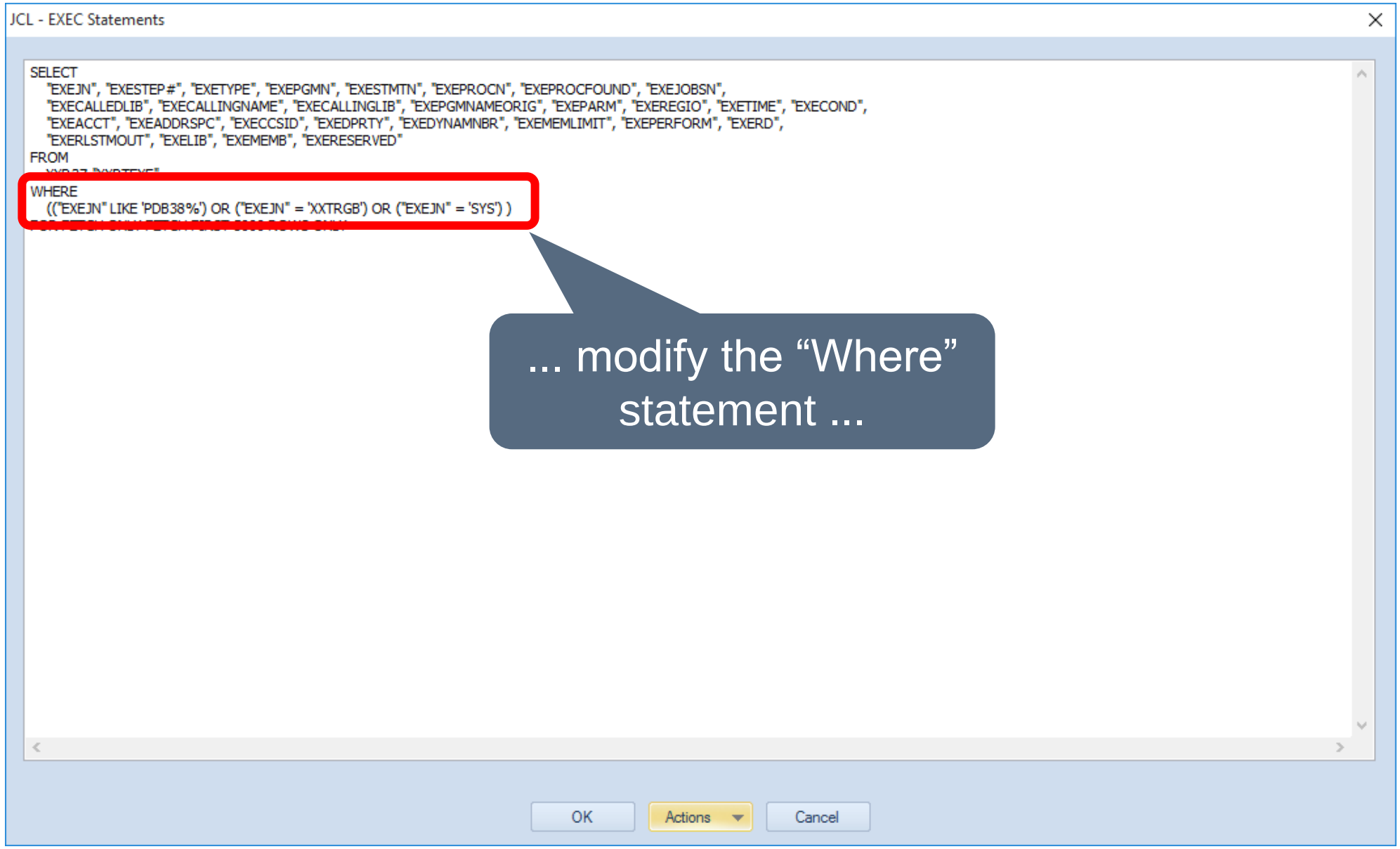
PC Client - SAVE and LOAD Selection (3)



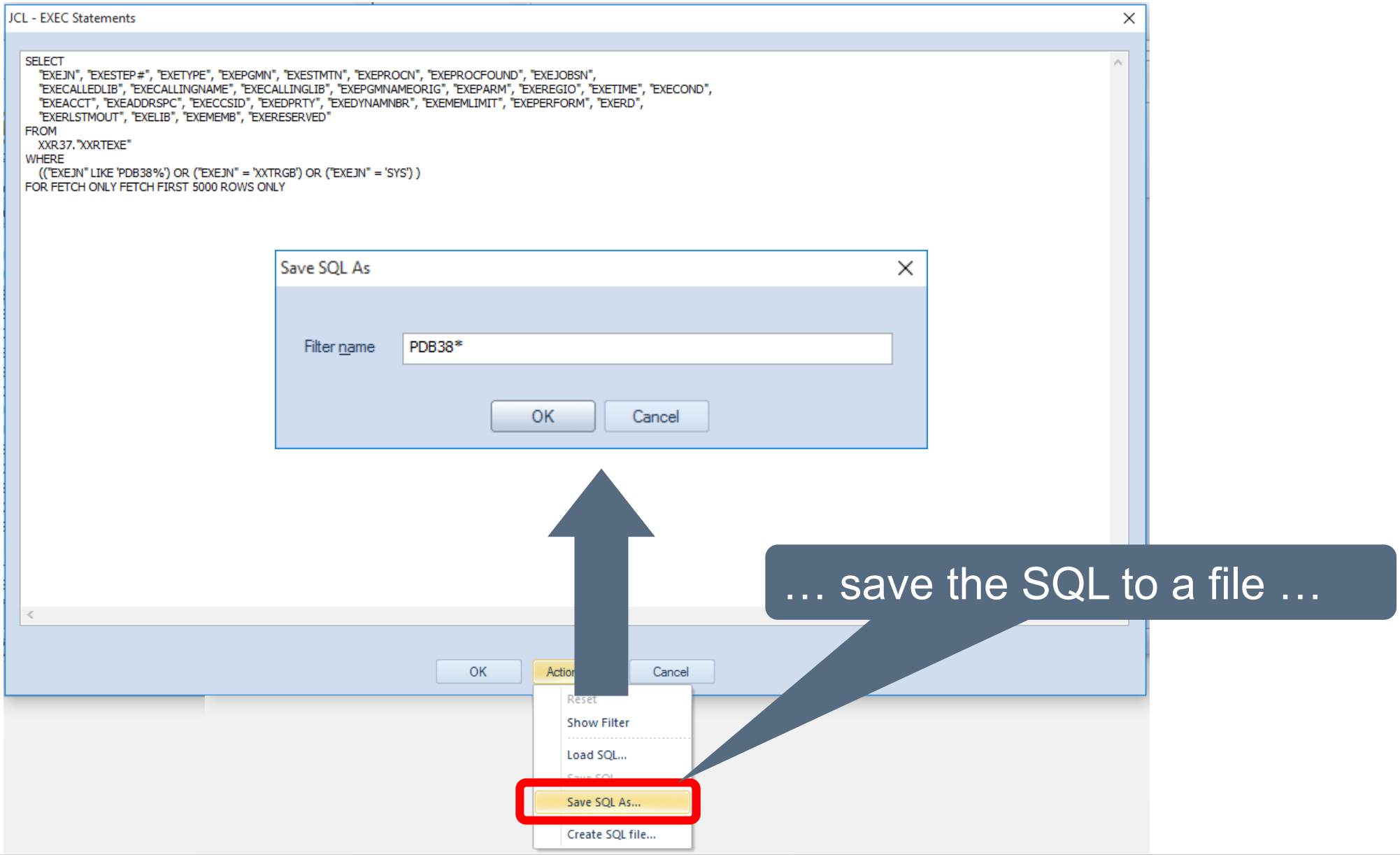
PC Client - SAVE and LOAD SQL (1)



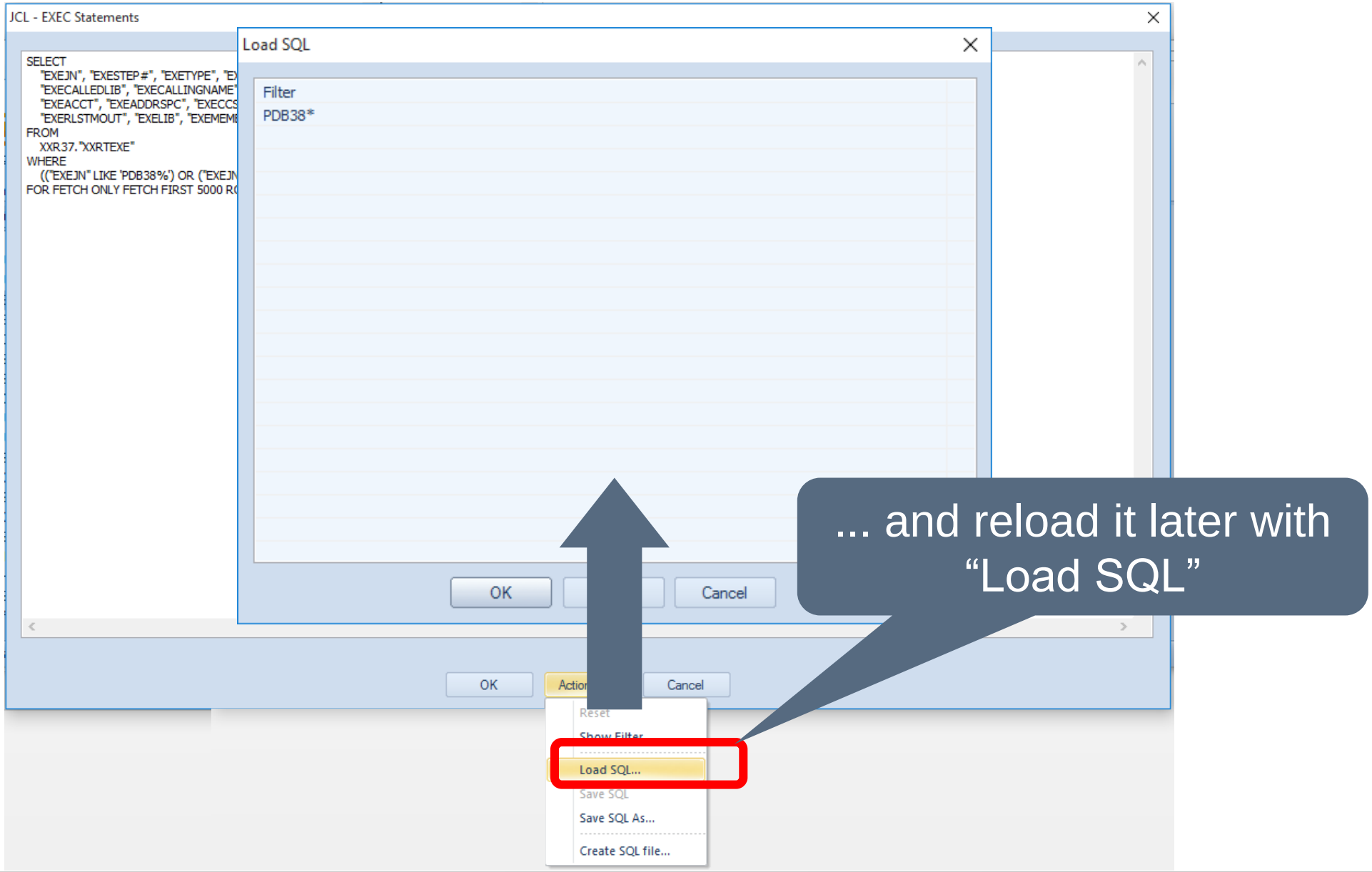
PC Client - SAVE and LOAD SQL (2)



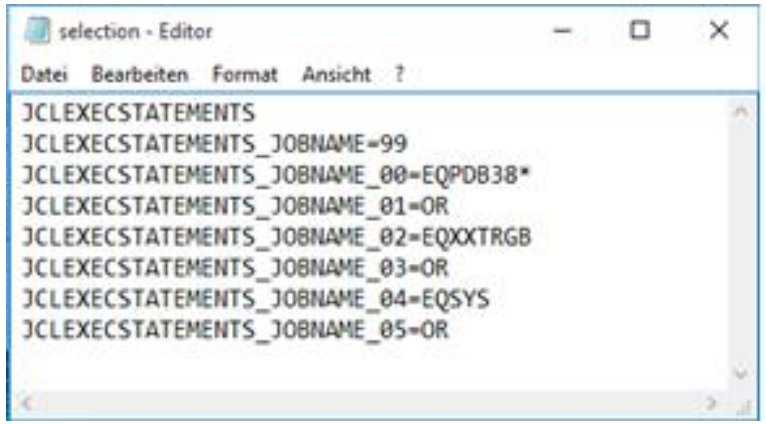
PC Client - SAVE and LOAD SQL (3)

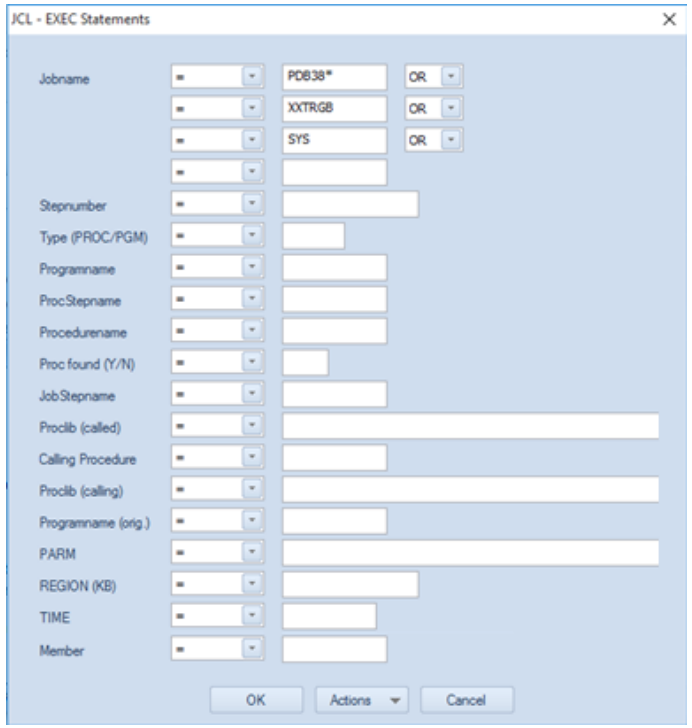


PC Client - SAVE and LOAD SQL (3)

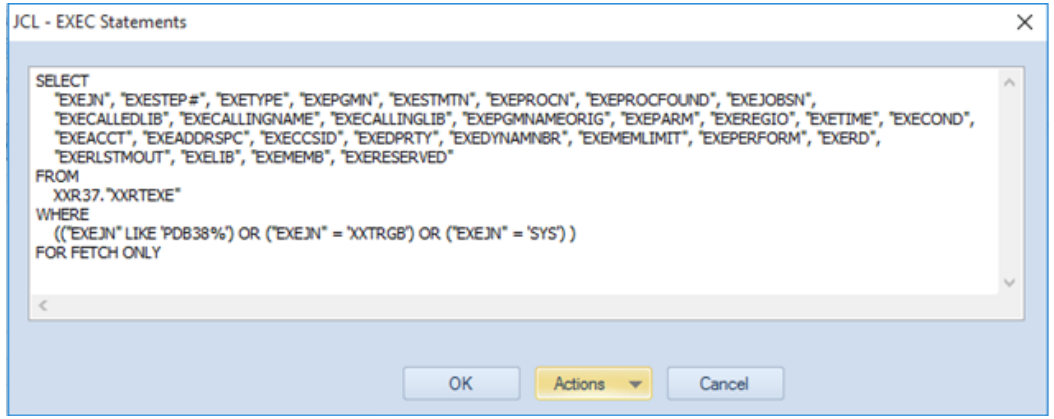


PC Client - SAVE and LOAD Summary

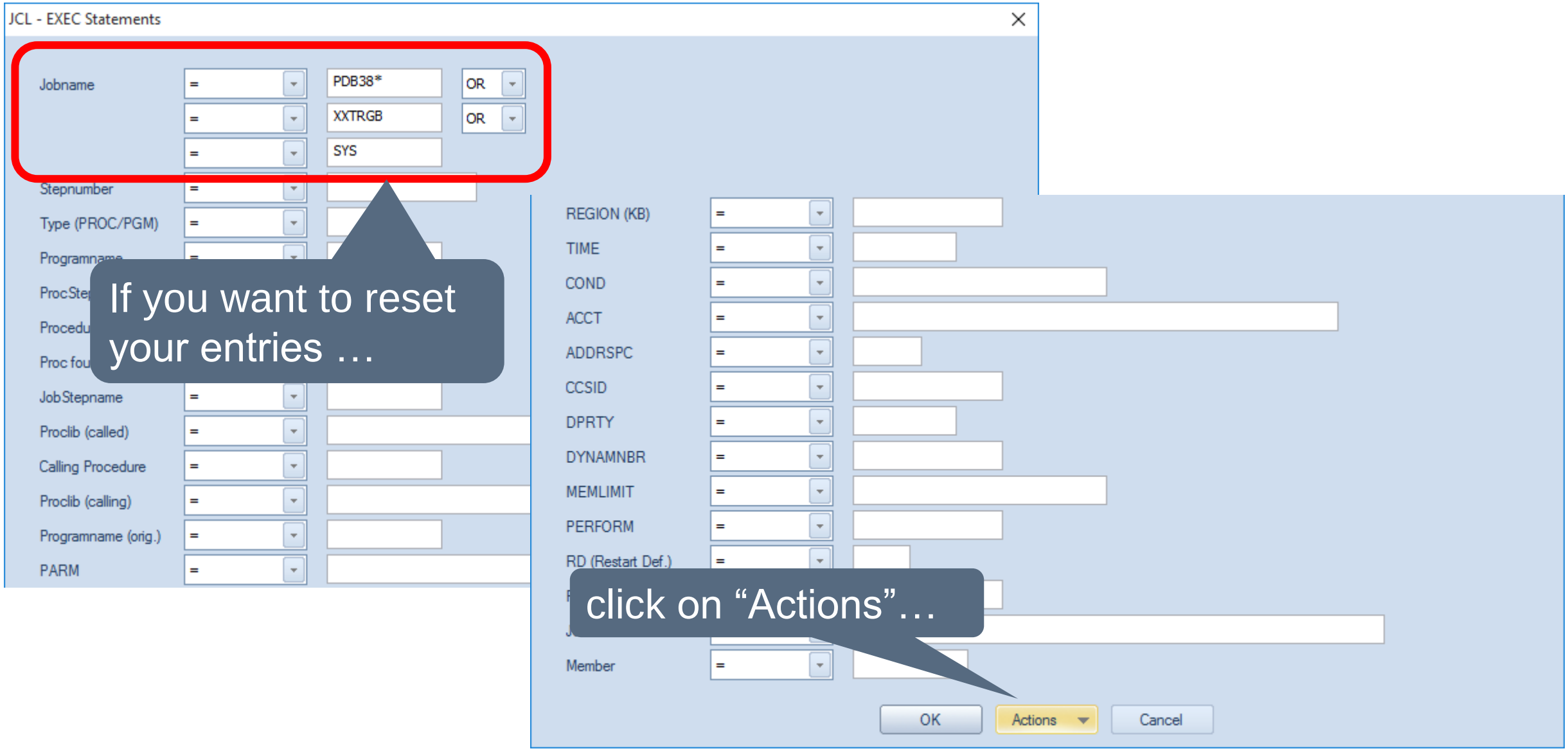




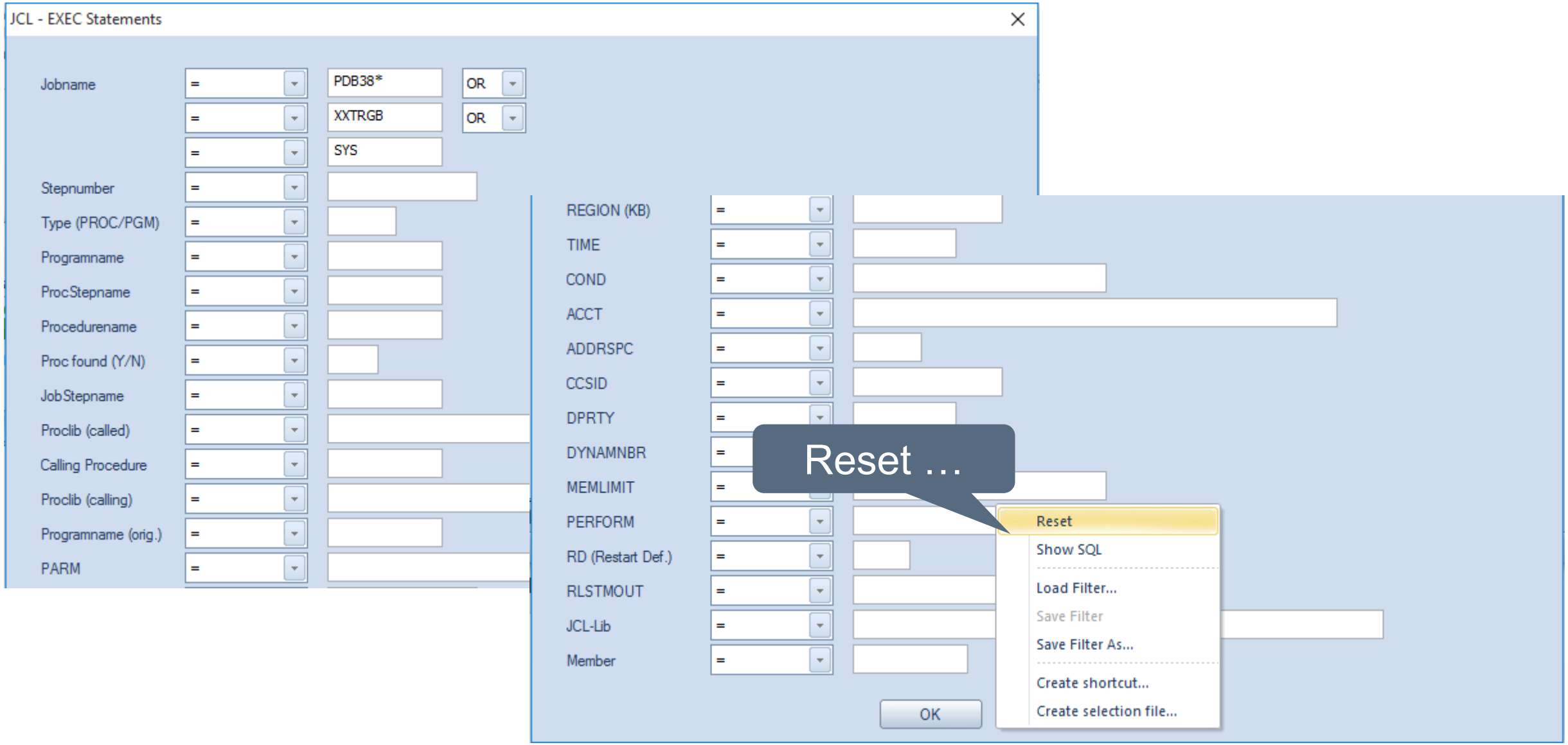
Please note: There are two different file types: Selection and SQL!



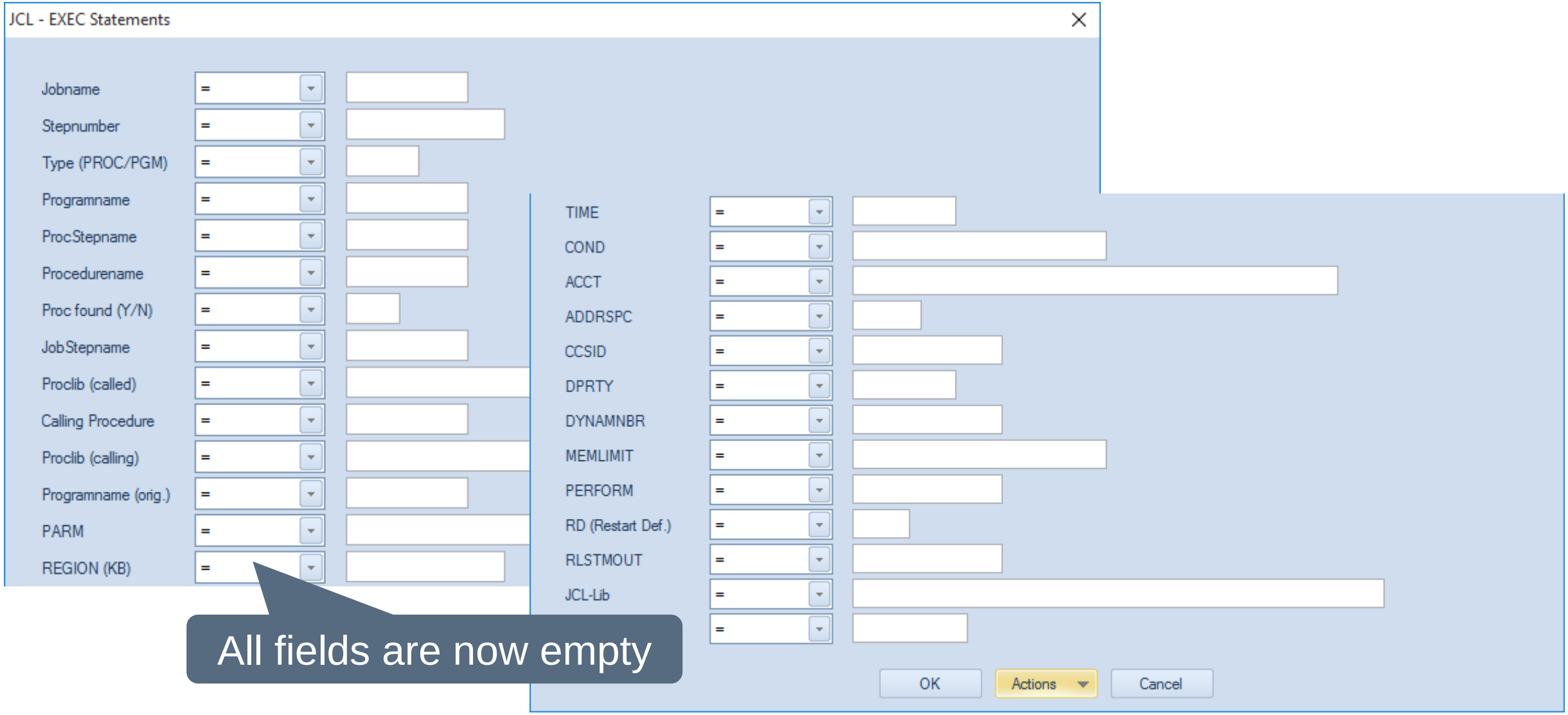
PC Client - RESET ENTRIES (1)



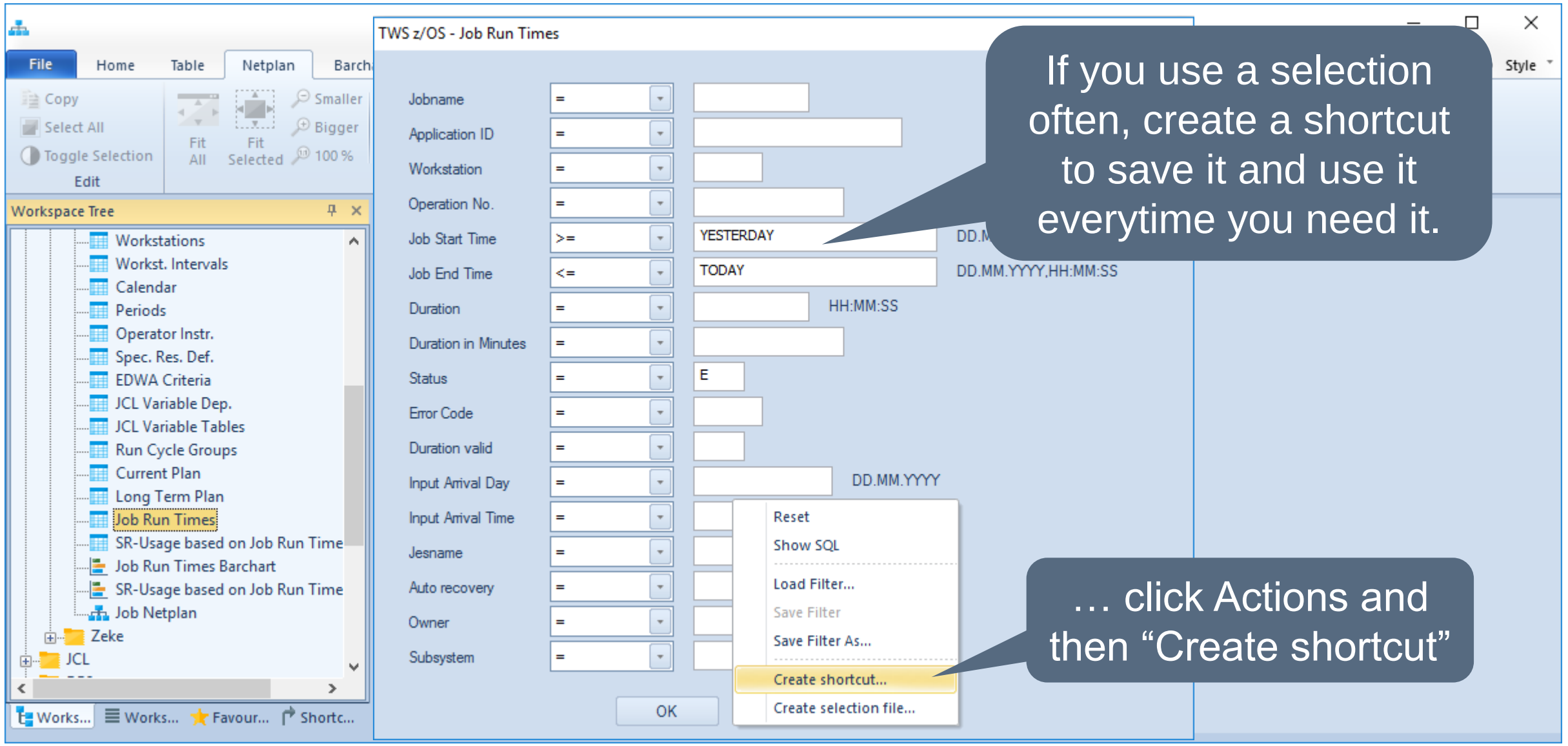
PC Client - RESET ENTRIES (2)



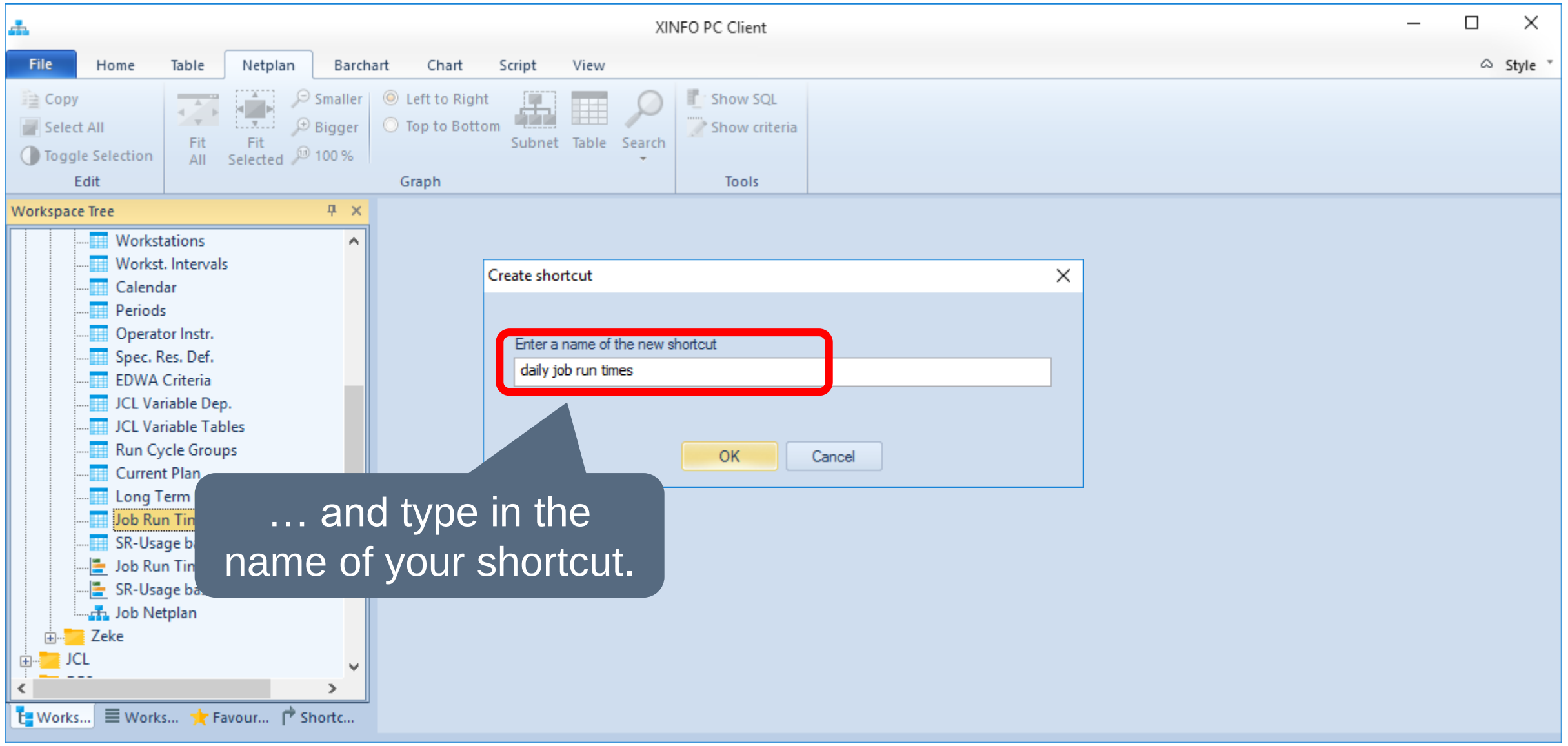
PC Client - RESET ENTRIES (3)



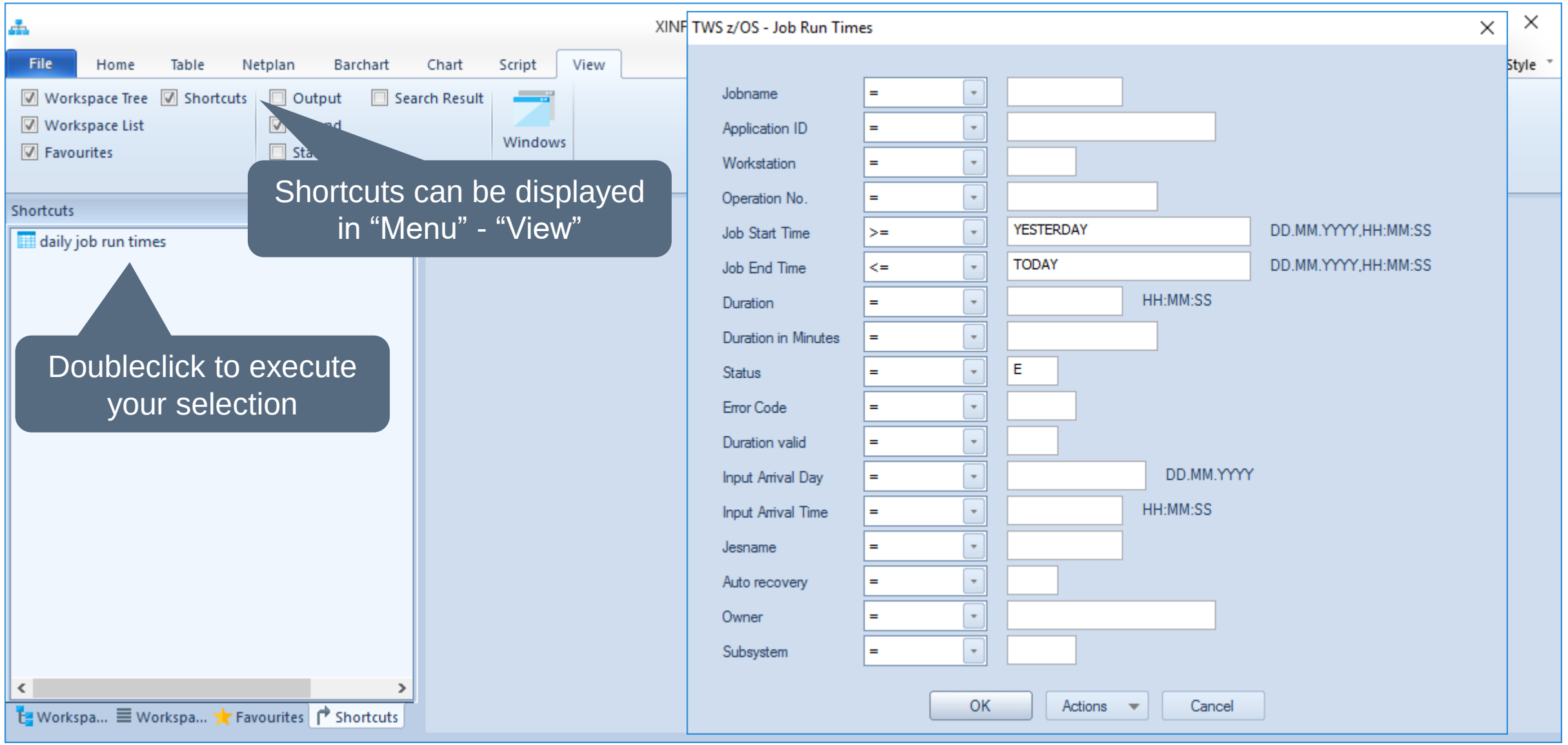
PC Client - SHORTCUTS (1)



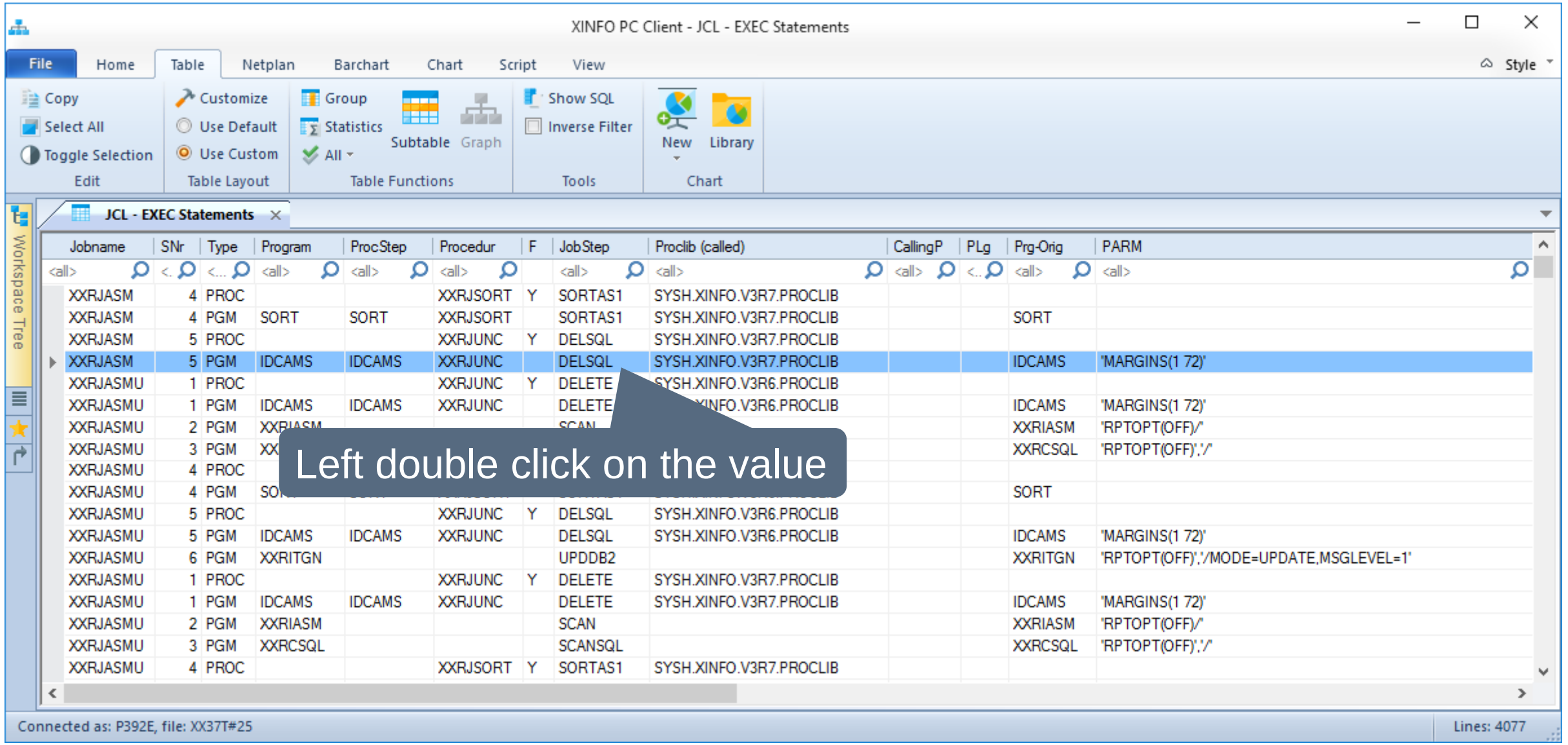
PC Client - SHORTCUTS (2)



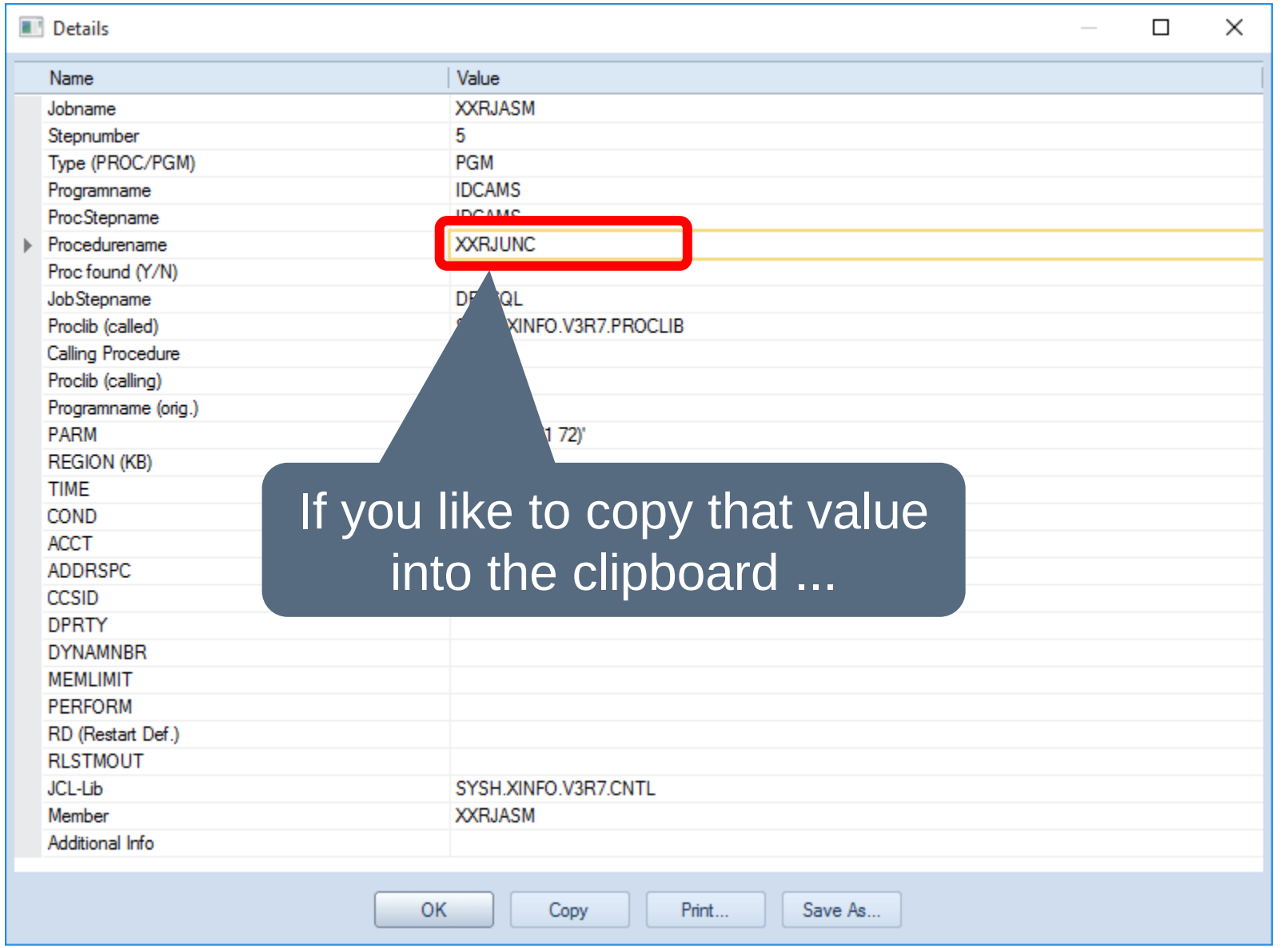
PC Client - SHORTCUTS (3)



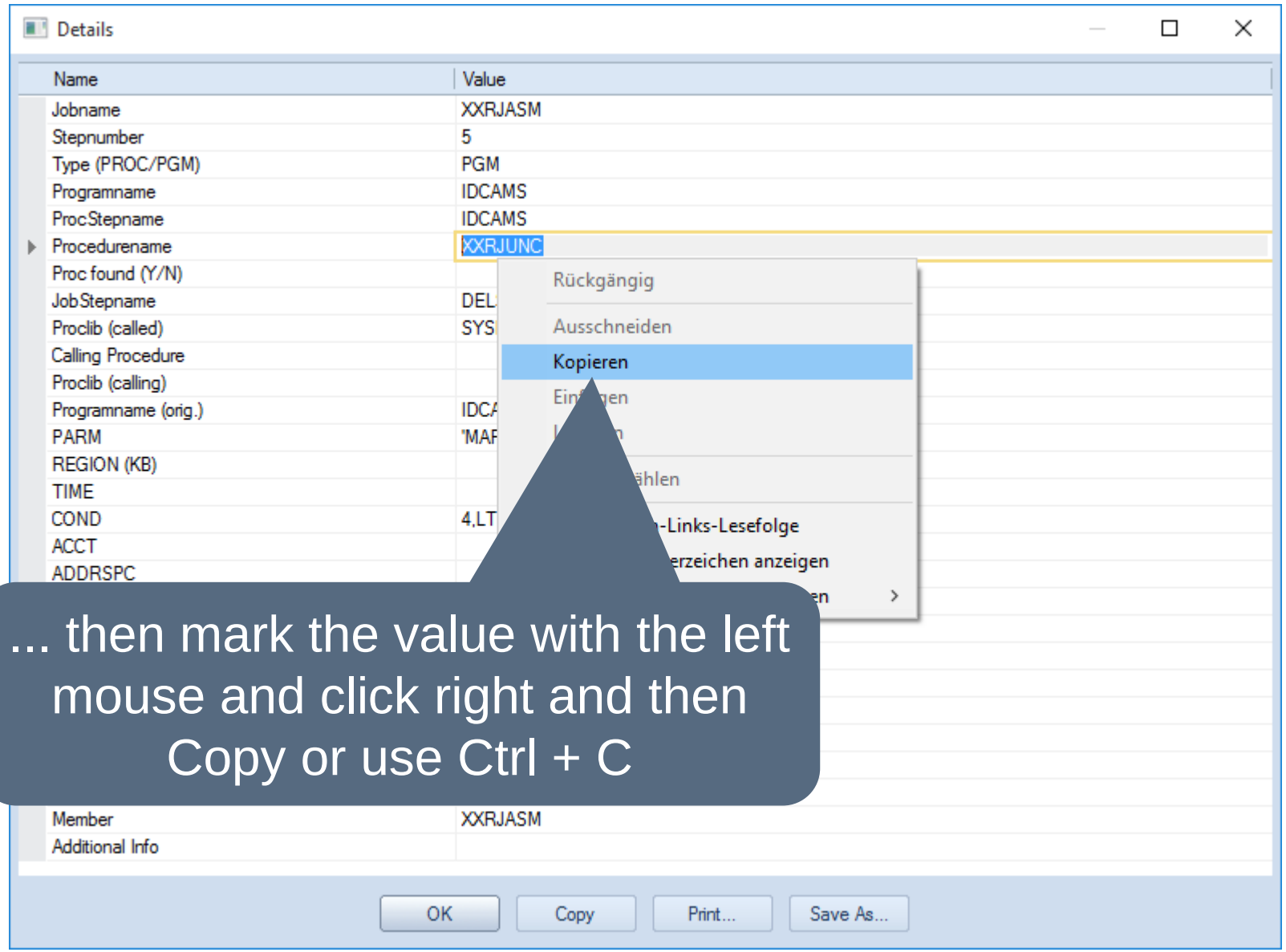
PC Client - CUT and PASTE (1)



PC Client - CUT and PASTE (2)



PC Client - CUT and PASTE (3)

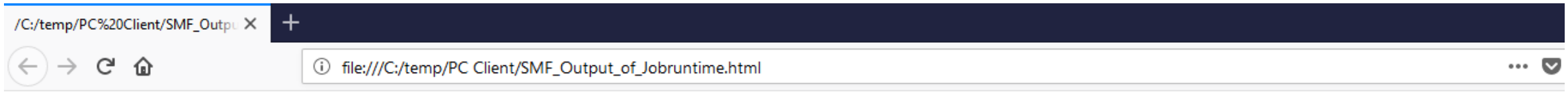


PC Client - Batch Interface (BIF)

The BIF interface allows you to create automatically files, e.g. to provide information for special user groups, e.g. specialist department.

- HTML
- Excel
- Txt
- VMF for the WebViewer
- JPG, GIF, PCX, BMP etc.

PC Client - Why BIF?



SMF - Jobruntime Barchart

Client	Environment	Jobname	Jesname	Syst	RC	Start-Time	End-Time	Durat.	Wait	CPU-T.	EXCP	W.-Enq	W.-Dev	Owner	Submit Time
		X40JCM11	JOB75572	S0W1		2018-09-07-01:00:53.280000	2018-09-07-01:03:18.530000	145	3	2	2698	135	2	TXGC	2018-09-07-01:00:50.630000
		X40JCM12	JOB75573	S0W1		2018-09-07-01:01:19.750000	2018-09-07-01:01:48.950000	29	27	3	7489	0	3	TXGC	2018-09-07-01:00:52.290000
		X40JCM21	JOB75578	S0W1	CC 0004	2018-09-07-01:02:10.020000	2018-09-07-01:02:31.120000	21	22	1	1737	0	5	TXGC	2018-09-07-01:01:47.650000
		X40JCM22	JOB75581	S0W1	CC 0004	2018-09-07-01:04:05.420000	2018-09-07-01:04:13.720000	8	8	1	1527	0	2	TXGC	2018-09-07-01:03:57.720000
		X40JCMM	JOB75588	S0W1		2018-09-07-01:05:33.860000	2018-09-07-01:05:49.230000	15	1	1	2223	0	3	TXGC	2018-09-07-01:05:33.150000
		X40JCM3	JOB75598	S0W1		2018-09-07-01:07:57.110000	2018-09-07-01:08:03.480000	6	1	0	439	0	2	TXGC	2018-09-07-01:07:56.550000
		X40JCM51	JOB75602	S0W1	CC 0008	2018-09-07-01:09:27.250000	2018-09-07-01:09:48.540000	21	3	1	2166	0	1	TXGC	2018-09-07-01:09:24.490000
		X40JCM52	JOB75603	S0W1		2018-09-07-01:09:56.990000	2018-09-07-01:10:09.120000	12	28	1	1317	0	2	TXGC	2018-09-07-01:09:29.360000
		X40JCM62	JOB75604	S0W1	CC 0004	2018-09-07-01:10:15.140000	2018-09-07-01:10:18.250000	3	13	0	364	0	1	TXGC	2018-09-07-01:10:01.980000
		X40JCM61	JOB75605	S0W1	CC 0004	2018-09-07-01:10:31.300000	2018-09-07-01:10:33.970000	3	8	0	266	0	0	TXGC	2018-09-07-01:10:22.850000
		X40JCMF	JOB75607	S0W1		2018-09-07-01:10:48.160000	2018-09-07-01:10:50.550000	2	2	1	465	0	0	TXGC	2018-09-07-01:10:45.930000

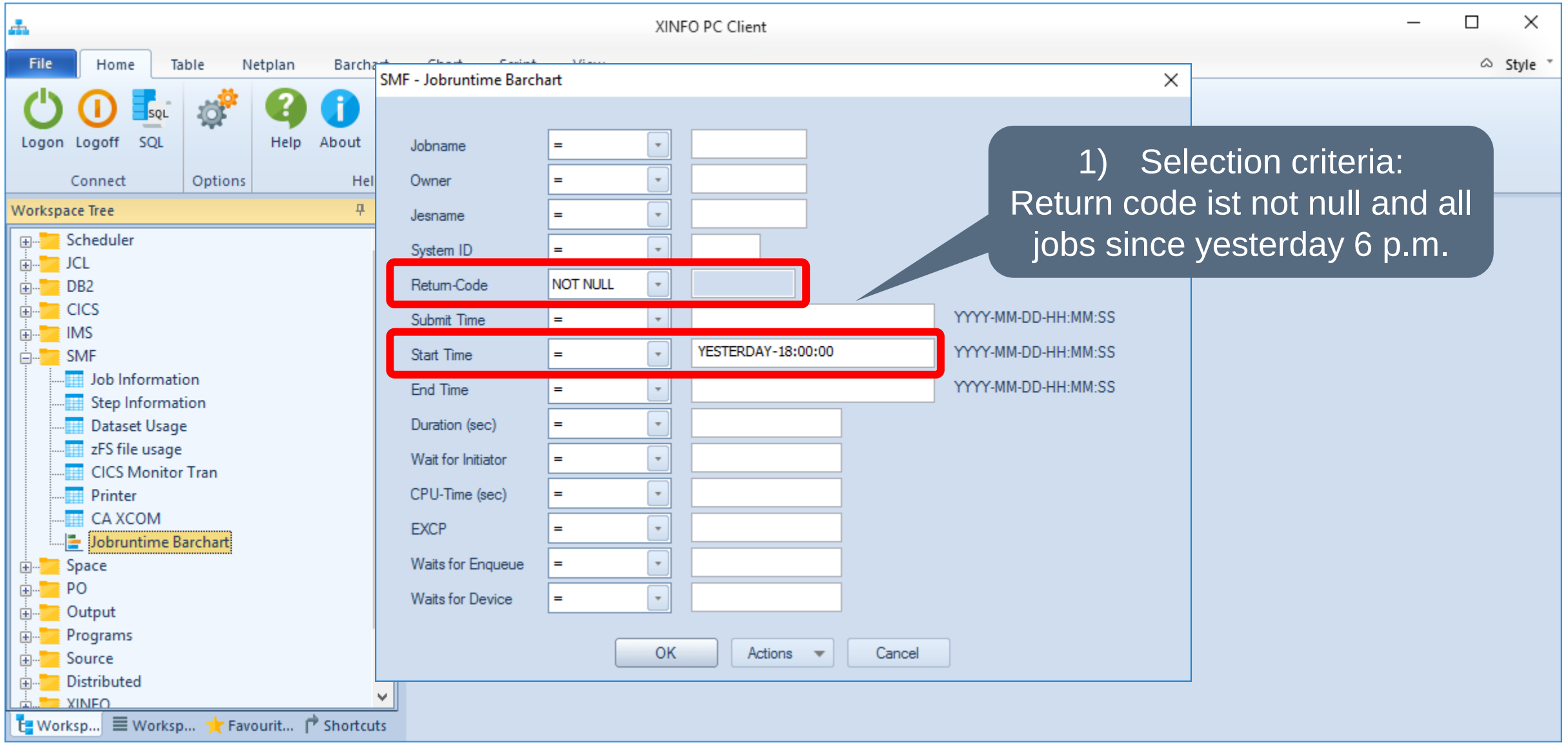
How can I create this table automatically?

PC Client - Batch Interface (BIF)

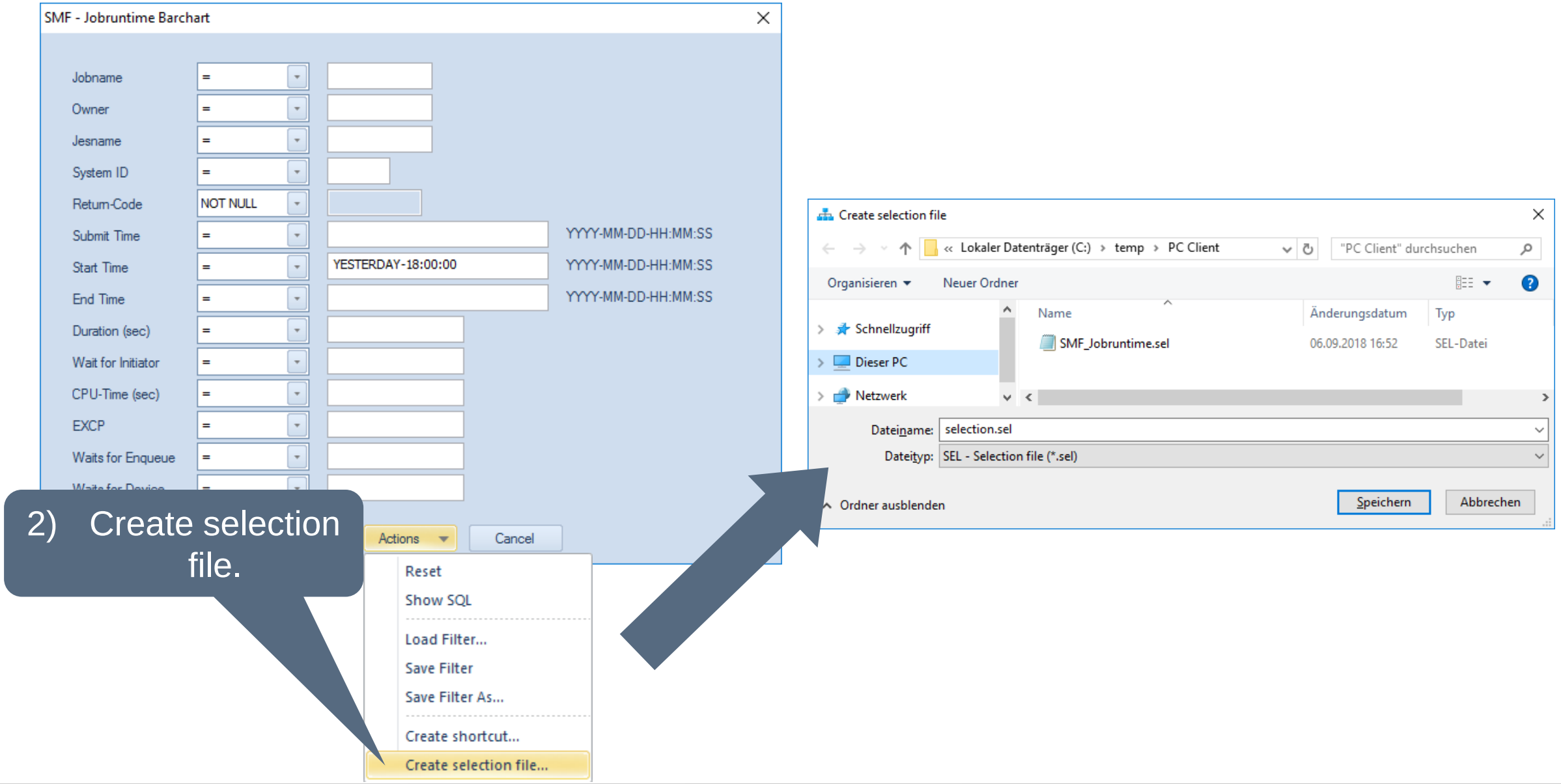
In the case of automatic processing using BIF, all information that would normally have to be entered manually in the dialog, must be provided.

1) Enter selection criteria and save them as a file.
2) Enter logon data and save them as a file.
3) Create BIF file.

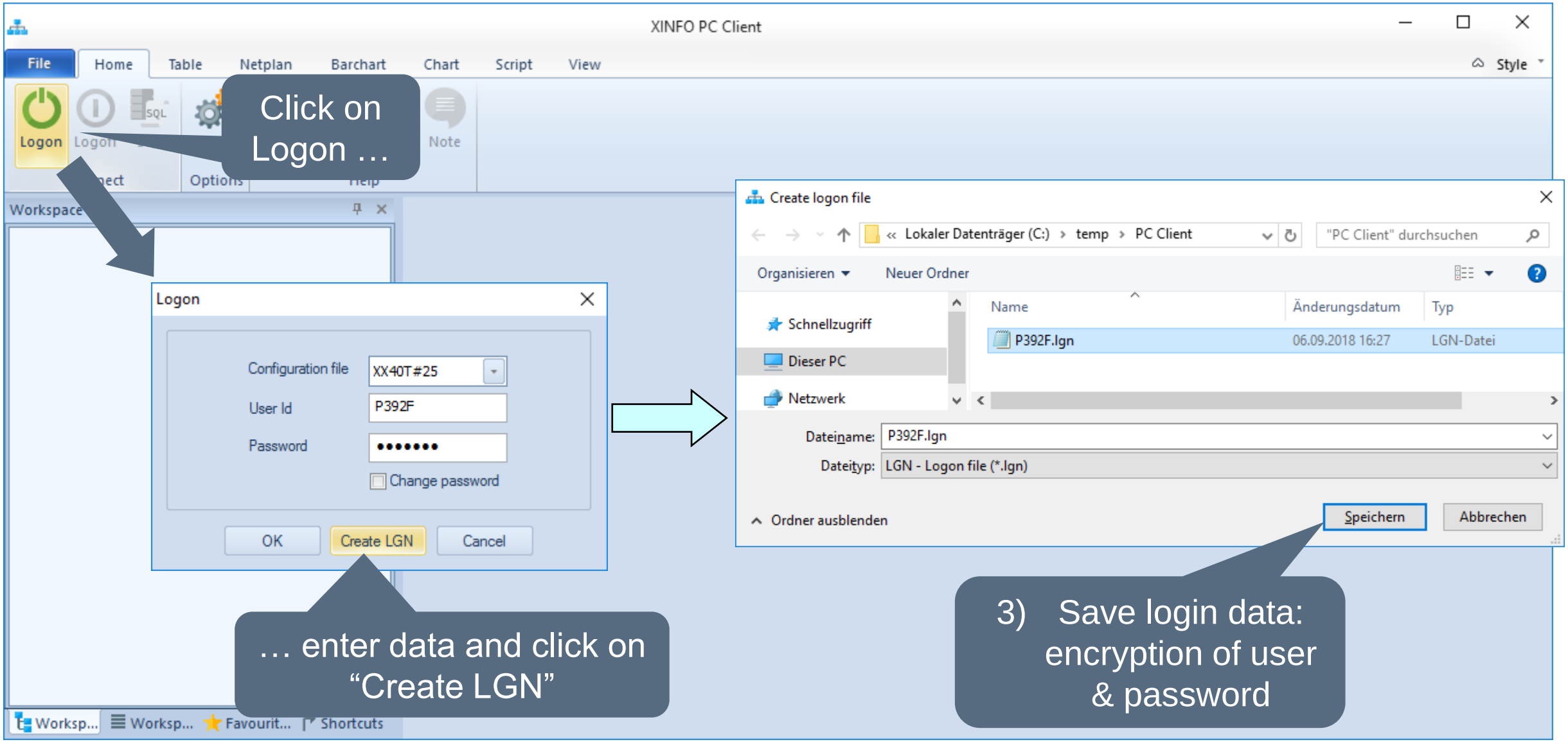
PC Client - Batch Interface (BIF)



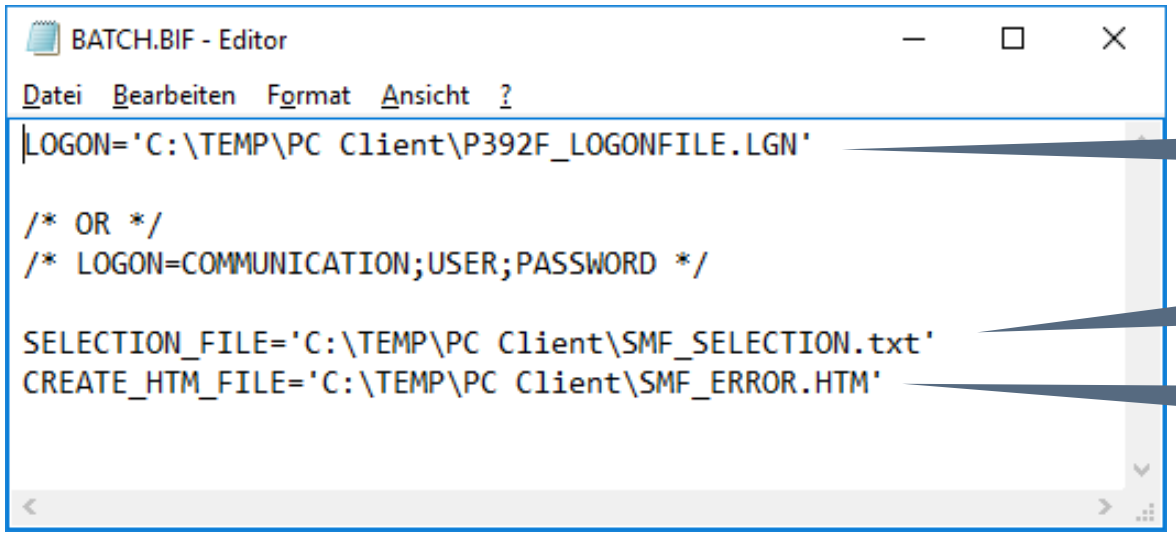
PC Client - Batch Interface (BIF)



PC Client - Batch Interface (BIF)



PC Client - Batch Interface (BIF)



4) Create batch file

Login

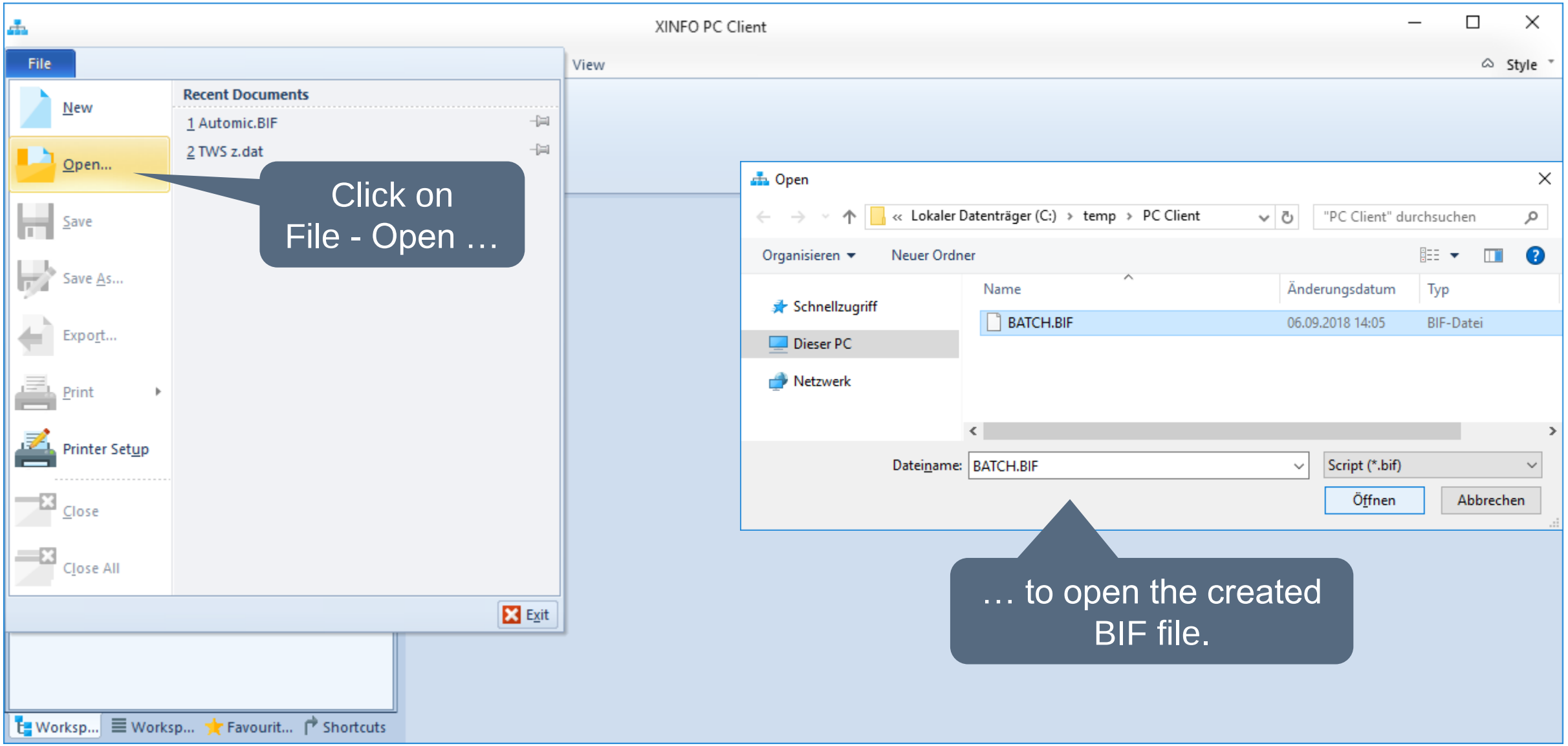
Execution of selection

Storage of the output

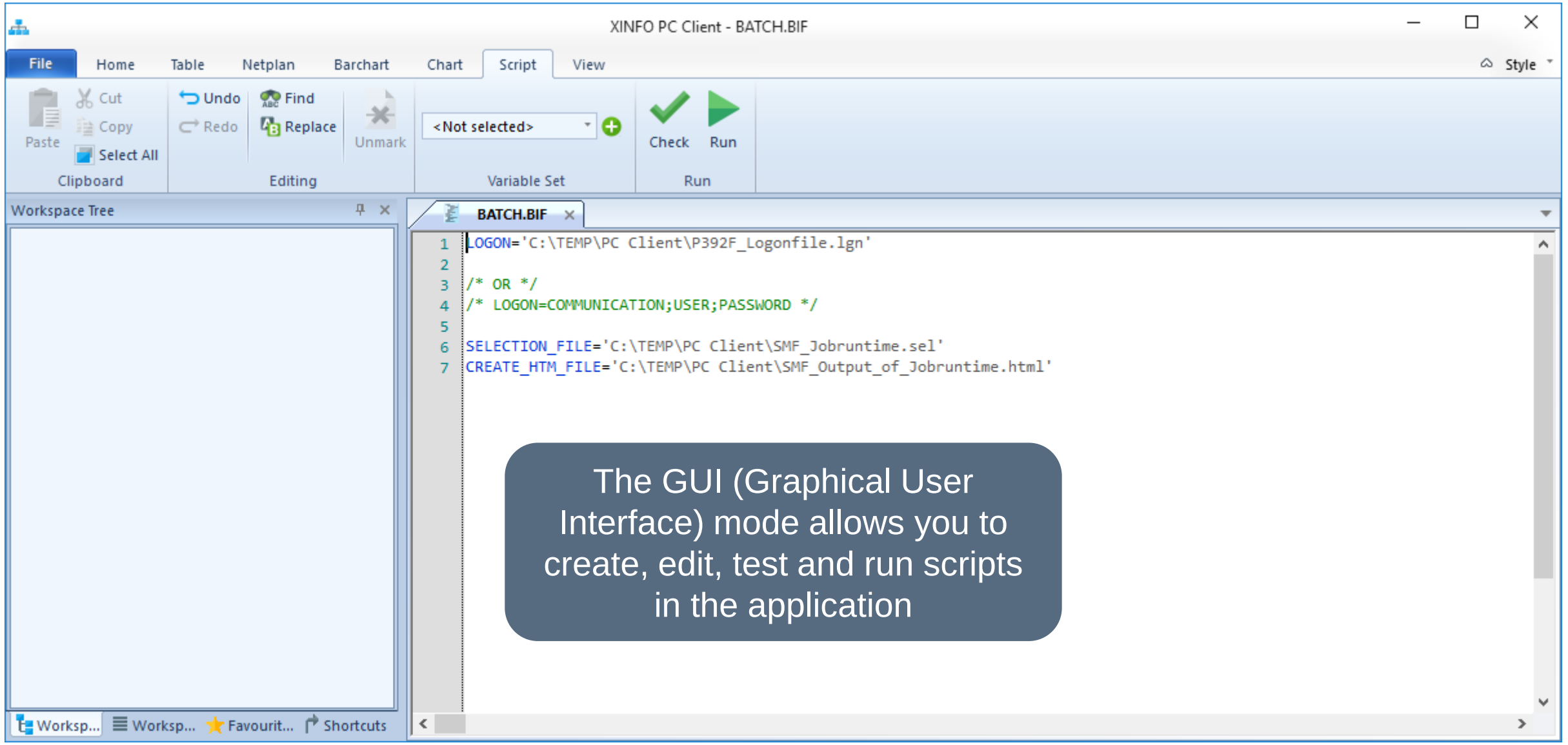
More important BIF - Parameter:

- CLOSE (after CREATE_???_FILE, closes current window)
- CLOSE=LOG (closes the Batch monitor)
- CLOSE=ALL (closes all windows)
- EXIT (terminates XINFO)
- and more … (see user manual)

PC Client - Batch Interface (BIF) - Open (1)

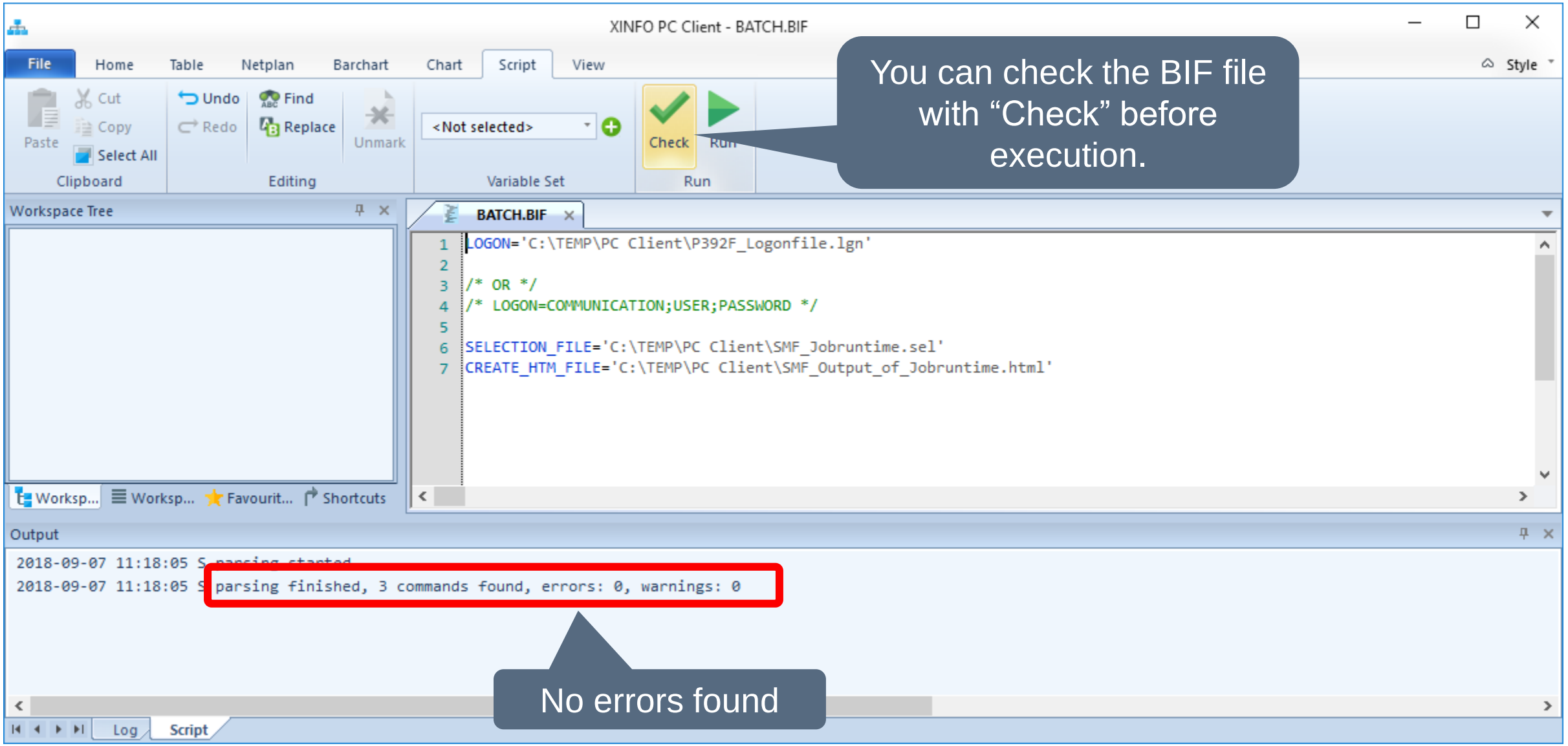


PC Client - Batch Interface

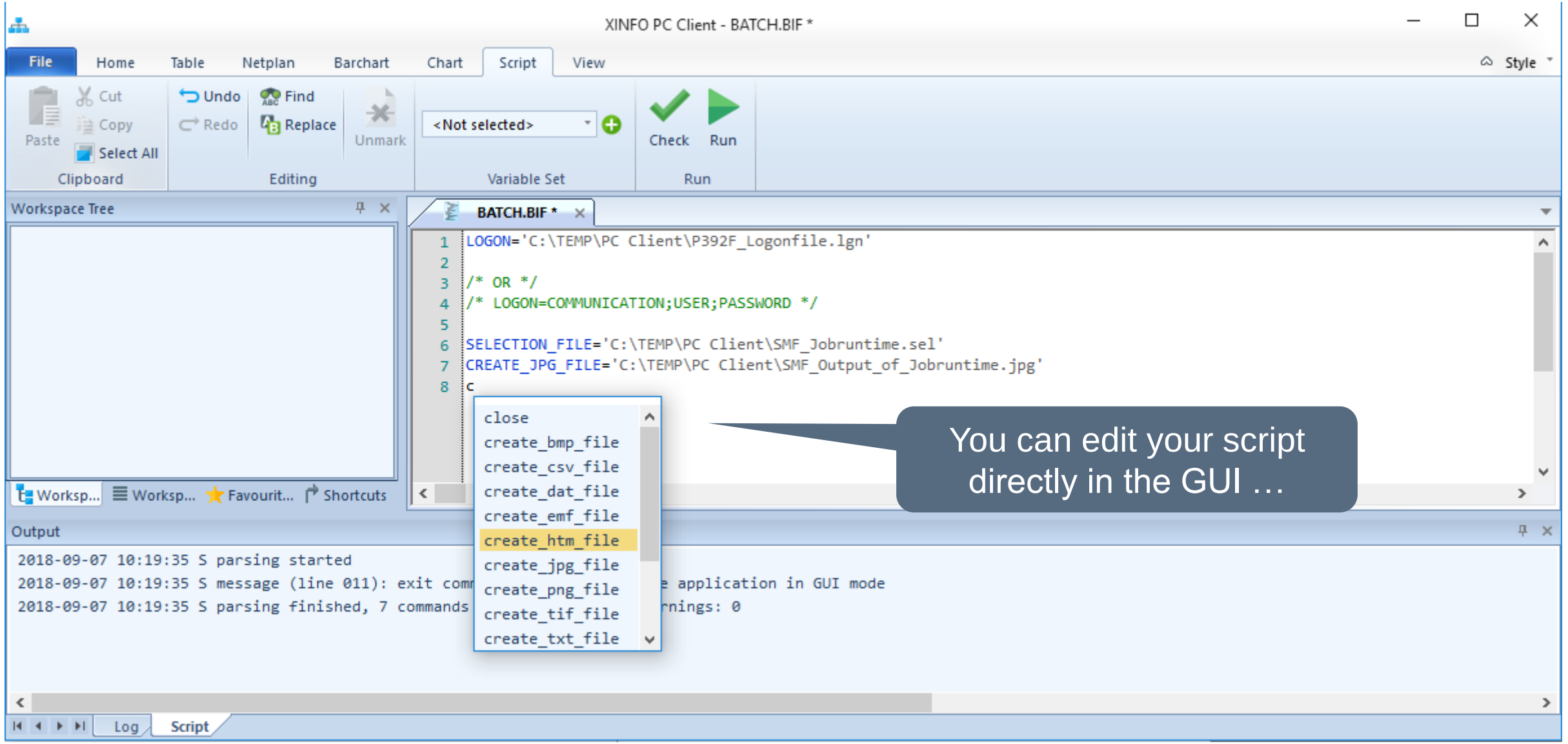


The GUI (Graphical User Interface) mode allows you to create, edit, test and run scripts in the application

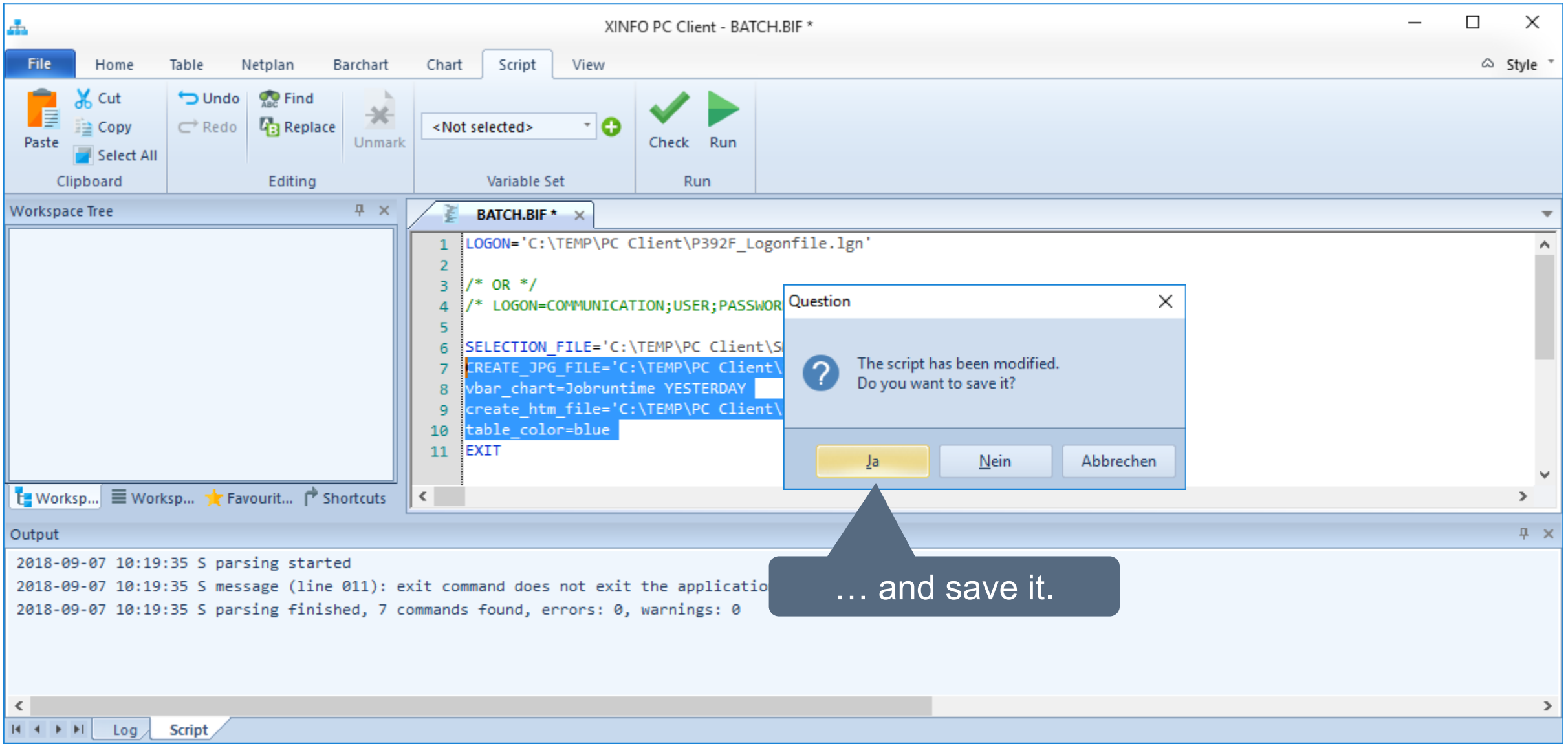
PC Client - Batch Interface - Check



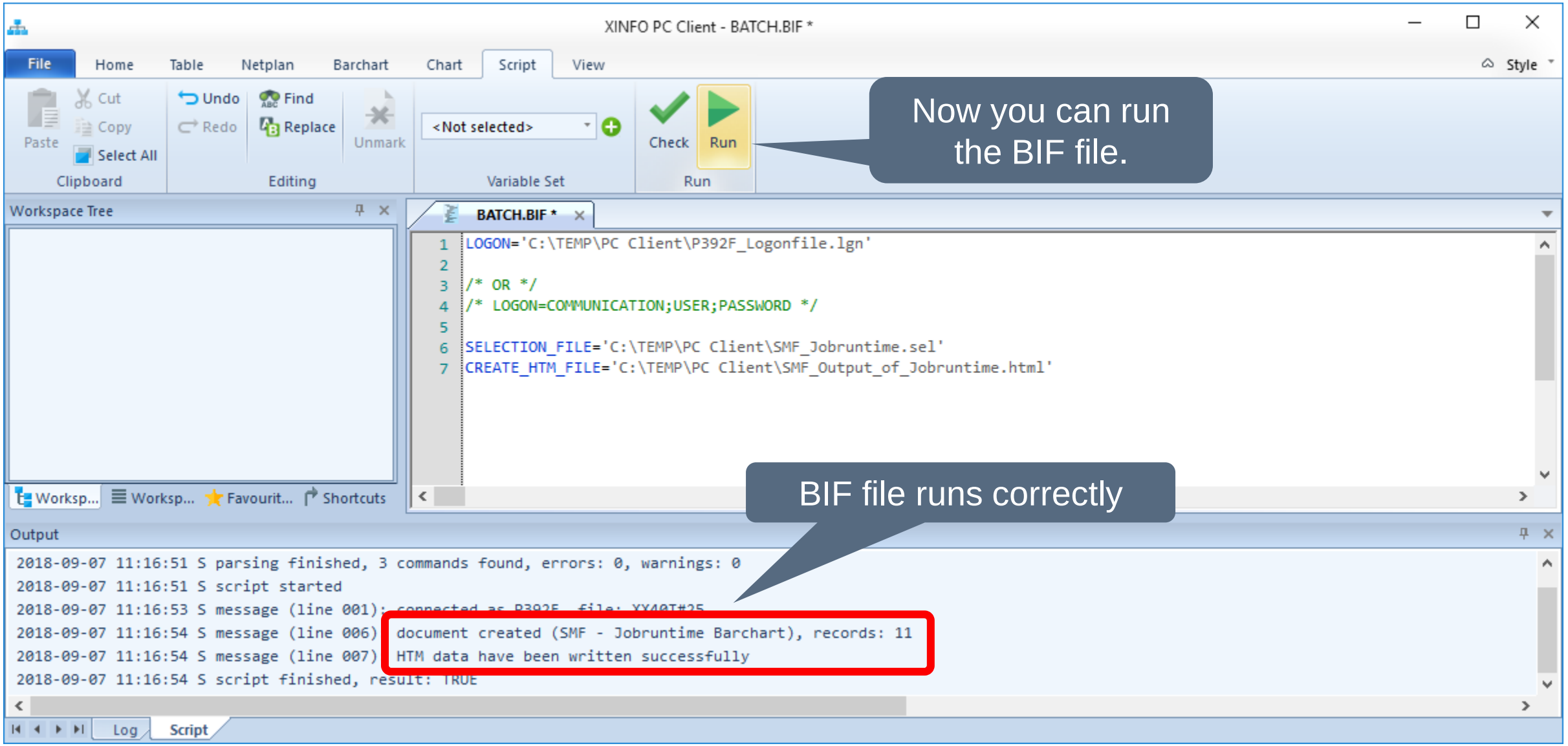
PC Client - Batch Interface - Edit



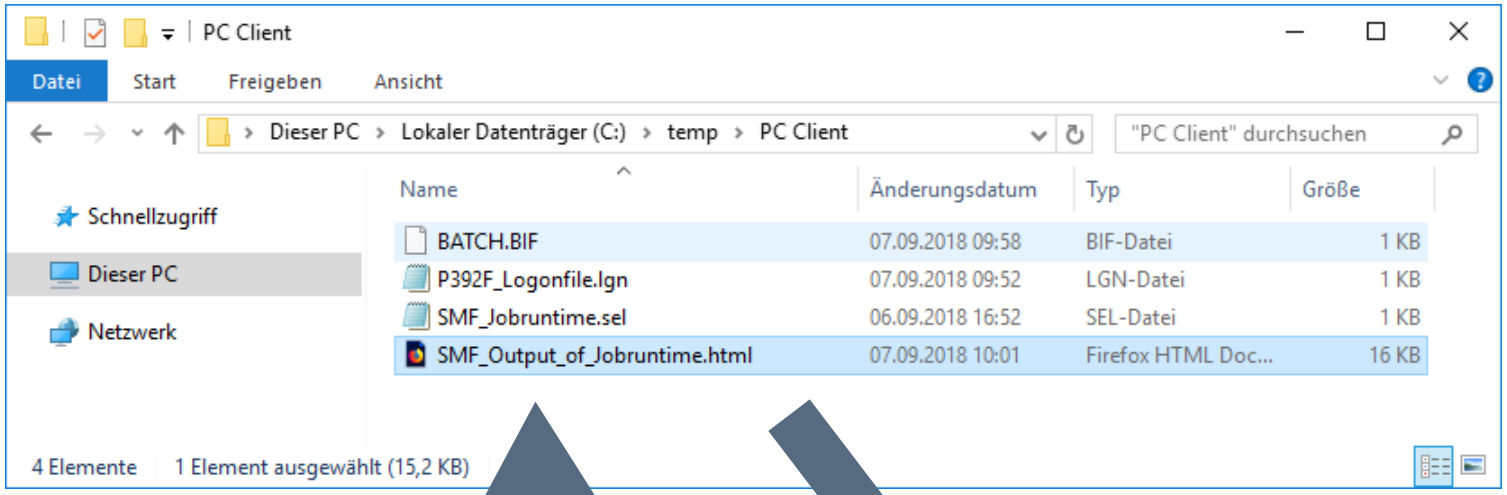
PC Client - Batch Interface - Save



PC Client - Batch Interface - Run



PC Client - Batch Interface



Double click to show file

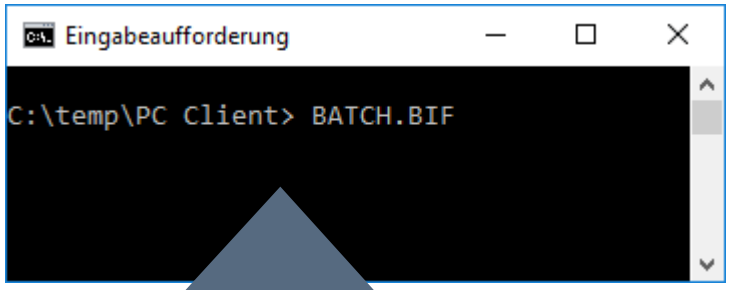
/C:/temp/PC%20Client/SMF_Outpu

file:///C:/temp/PC Client/SMF_Output_of_Jobruntime.html

SMF - Jobruntime Barchart

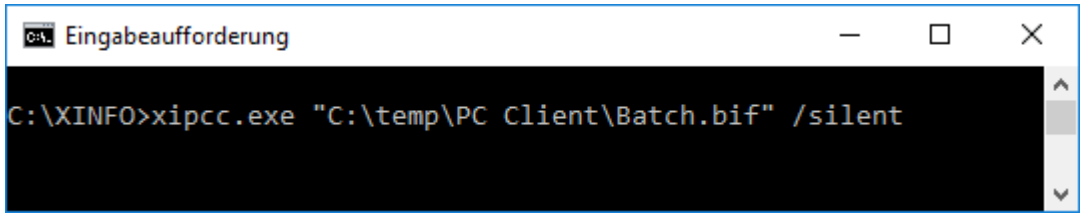
Client	Environment	Jobname	Jesname	Syst	RC	Start-Time	End-Time	Durat.	Wait	CPU-T.	EXCP	W.-Enq	W.-Dev	Owner	Submit Time
		X40JCM11	JOB75572	S0W1		2018-09-07-01:00:53.280000	2018-09-07-01:03:18.530000	145	3	2	2698	135	2	TXGC	2018-09-07-01:00:50.630000
		X40JCM12	JOB75573	S0W1		2018-09-07-01:01:19.750000	2018-09-07-01:01:48.950000	29	27	3	7489	0	3	TXGC	2018-09-07-01:00:52.290000
		X40JCM21	JOB75578	S0W1	CC 0004	2018-09-07-01:02:10.020000	2018-09-07-01:02:31.120000	21	22	1	1737	0	5	TXGC	2018-09-07-01:01:47.650000
		X40JCM22	JOB75581	S0W1	CC 0004	2018-09-07-01:04:05.420000	2018-09-07-01:04:13.720000	8	8	1	1527	0	2	TXGC	2018-09-07-01:03:57.720000
		X40JCMM	JOB75588	S0W1		2018-09-07-01:05:33.860000	2018-09-07-01:05:49.230000	15	1	1	2223	0	3	TXGC	2018-09-07-01:05:33.150000
		X40JCM3	JOB75598	S0W1		2018-09-07-01:07:57.110000	2018-09-07-01:08:03.480000	6	1	0	439	0	2	TXGC	2018-09-07-01:07:56.550000
		X40JCM51	JOB75602	S0W1	CC 0008	2018-09-07-01:09:27.250000	2018-09-07-01:09:48.540000	21	3	1	2166	0	1	TXGC	2018-09-07-01:09:24.490000
		X40JCM52	JOB75603	S0W1		2018-09-07-01:09:56.990000	2018-09-07-01:10:09.120000	12	28	1	1317	0	2	TXGC	2018-09-07-01:09:29.360000
		X40JCM62	JOB75604	S0W1	CC 0004	2018-09-07-01:10:15.140000	2018-09-07-01:10:18.250000	3	13	0	364	0	1	TXGC	2018-09-07-01:10:01.980000
		X40JCM61	JOB75605	S0W1	CC 0004	2018-09-07-01:10:31.300000	2018-09-07-01:10:33.970000	3	8	0	266	0	0	TXGC	2018-09-07-01:10:22.850000
		X40JCMF	JOB75607	S0W1		2018-09-07-01:10:48.160000	2018-09-07-01:10:50.550000	2	2	1	465	0	0	TXGC	2018-09-07-01:10:45.930000

PC Client - Batch Interface (BIF) - Command line mode



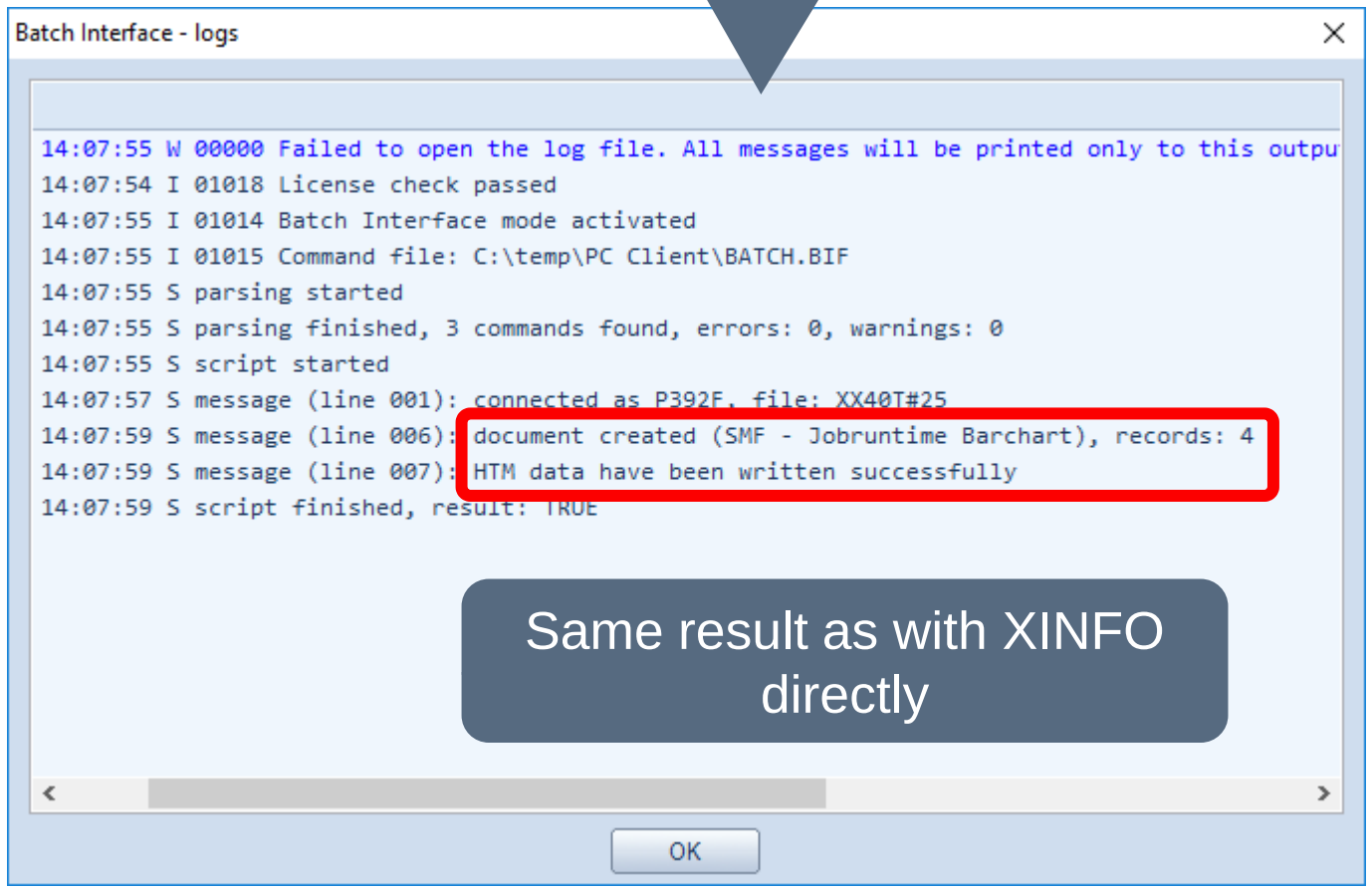
Or use console or with BAT file.

Note: You have to be in the directory



See user manual for alternative mode: **silent**

XINFO starts in command line mode



Same result as with XINFO directly

Thanks for your attention! Do you have any questions?

HORIZONT

Please feel free to visit us in Munich or send an email to

info@horizont-it.com