NDB - Interactive SQL NDB - Interactive SQL

NDB - Interactive SQL

The Interactive SQL function of the Natural Tools for DB2 enables you to execute SQL statements dynamically.

- Invoking the Interactive SQL Function
- SQL Input Members
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Invoking the Interactive SQL Function

- To invoke the Interactive SQL function
 - Enter function code "I" on the Natural Tools for DB2 Main Menu.

The Interactive SQL screen is displayed:

```
16:21:04
                    ***** NATURAL TOOLS FOR DB2 *****
                                                              2006-05-24
                            - Interactive SQL -
                      Code
                           Function
                            SQL Input Member
                        0
                            Data Output Member
                            Help
                            Exit
                            _____
                 Code.._
                            Library .. SAG_____
                            Member ... _____
Command ===>
Enter-PF1---PF3---PF3---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help
                Exit
```

The following functions are available:

NDB - Interactive SQL SQL Input Members

Code	Description
I	Displays SQL members in the interactive SQL input screen.
0	Displays output members in the interactive SQL output screen.

The following parameters can be specified:

Parameter	Description
Library	Specifies the name of the current Natural library which contains the specified input/output members. Specification of libraries whose names begin with "SYS" is not allowed. The library name is preset with your Natural user ID.
Member	If a valid member name is specified, the corresponding member is displayed. If a value is specified followed by an asterisk (*), all input/output members in the current library whose names begin with this value are listed. If asterisk notation is specified only, a selection list of all input/output members in the current library is displayed. If the Member field is left blank, the empty SQL input/output screen is displayed.

SQL Input Members

To invoke the SQL Input Member function enter function code "I" on the Interactive SQL screen. Depending on what member name you have specified, different screens are displayed.

SQL Input Screen

If you leave the Member field blank, the empty SQL input screen is invoked:

SQL Input Screen NDB - Interactive SQL

The SQL input screen is a free-mode editor which provides a functionality similar to the one of the Software AG Editor. Using the editor you can enter or edit SQL statements via editor main and line commands. You can execute the SQL statements immediately from within the editor by pressing PF4 (Exec), or you can save them as an SQL member in a Natural library for later execution.

Note:

The PRINT command is not available in the SQL input screen.

Apart from the editor main and line commands, SQL code maintenance commands are also available to maintain SQL members in a Natural library. With these maintenance commands, input members can be listed, retrieved, saved in a Natural library, copied, and purged. They are entered in the command line of the input screen.

You can also obtain a list of the available maintenance commands by entering the help character "?" in the command line of the input screen. A window is displayed from which the desired command can be selected. The window can be scrolled forwards by pressing PF8, or backwards by pressing PF7.

```
10:57:06
                                                             ***** NATURAL TOOLS FOR DB2 *****
                                                                                     S 01- -----Columns 001 072
                                                          SAG
  ISQL - Input
                                                                                                                                                        Scroll ===> PAGE
  ====> ?
   !
                                                                                                                                                                                     !
                                                                                              _ List <*,member>
                                                                                             READ 

                                                                                    !
                                                                                    !
                                                                                    !
                                                                                              _ SELect <TB,CO> name1 name2 !
                   ************************* bottom of data ********************
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
                Help Setup Exit Exec Rfind Rchan - + Outpu
                                                                                                                                                                                                         Canc
```

To assist you in coding your SQL member, exisiting DB2 tables and columns can be listed using the SELECT command. From the list, you can include table and column names into the editor.

The SELECT command is available for table and column selection:

NDB - Interactive SQL SQL Input Screen

Command	Description
SELECT TABLE [creator.] name	Selects all tables with the specified creator (optional) and name. For both <i>creator</i> and <i>name</i> , you can specify a value followed by an asterisk (*), and all tables whose names begin with this value are selected. If you specify asterisk notation only, all existing tables are selected. If you specify a table name without a creator, all tables with the specified name are selected, regardless of their creator.
SELECT COLUMN creator.name	Selects all columns of the table " <i>creator.name</i> ". Since the table must be uniquely identified, asterisk notation cannot be used.

Sample Input Screen with Table Listing Window

09: +		+
ISQ ! Tab:		!
==== ! SYSIBM.*		!
***! Table Name	Creator	!
''' ! _ SYSDATABASE	SYSIBM	1
''' ! _ SYSDATATYPES	SYSIBM	1
''' ! _ SYSDBAUTH	SYSIBM	!
''' ! _ SYSDBRM	SYSIBM	!
''' ! _ SYSDUMMY1	SYSIBM	!
''' ! _ SYSDUMMYA	SYSIBM	!
''' ! _ SYSDUMMYE	SYSIBM	!
''' ! _ SYSDUMMYU	SYSIBM	!
''' ! _ SYSFIELDS	SYSIBM	!
''' ! _ SYSFOREIGNKEYS	SYSIBM	!
''' ! _ SYSINDEXES	SYSIBM	!
''' ! _ SYSINDEXES_HIST	SYSIBM	!
''' ! _ SYSINDEXPART	SYSIBM	!
''' ! _ SYSINDEXPART_HIST	SYSIBM	!
''' ! _ SYSINDEXSTATS	SYSIBM	!
''' ! _ SYSINDEXSTATS_HIST	SYSIBM	!
*** ! _ SYSJARCLASS_SOURCE	SYSIBM	!
! _ SYSJARCONTENTS	SYSIBM	!
Ente !		!
+		+

From the table list, you can select a table for display of its columns by marking it with "C" in front of the table name. The columns of a table are listed together with their type and length. A creator or table name longer than 32 characters will be truncated. This will be indicated by a '>' at the end of the creator or table name.

Sample Input Screen with Column Listing Window

SQL Input Screen NDB - Interactive SQL

```
09:59:17
                  ** +----
ISQL - Input GGS ! Tab: SYSIBM.SYSTABLES
                                                           !
                 !
                                                           !
***** **********************
                      Column Name
                                                Type Len!
            ! m NAME
     SELECT
                                                VARCHAR 128 !
00002 SYSIBM.SYSTABLES ! m CREATOR
                                                VARCHAR 128 !
CHAR
                                                       1
                   ! m DBNAME
                                                VARCHAR 24 !
                                                VARCHAR 24 !
                   ! m TSNAME
                                                SMALLINT 2 !
                   ! _ DBID
                   ! _ OBID
                                                SMALLINT 2
                                                SMALLINT 2
                   ! _ COLCOUNT
                                                VARCHAR 24 !
                   ! EDPROC
                                                VARCHAR 24
                   ! _ VALPROC
                   ! _ CLUSTERTYPE
                                                CHAR
                                                       1
                   ! _ CLUSTERRID
                                                INTEGER 4
                   ! _ CARD
                                                INTEGER 4
                   ! _ NPAGES
                                                INTEGER 4
                   ! _ PCTPAGES
                                                SMALLINT 2
                                                         !
                   ! _ IBMREQD
                                                CHAR 1
                                                           !
                   ! _ REMARKS
                                                VARCHAR 762 !
                                                SMALLINT 2 !
                   ! _ PARENTS
Enter-PF1---PF2---PF3---P!
    Help Setup Exit E +-----+
```

If you want to copy table or column names from a selection list into the editor, mark the corresponding table or column with "M" as shown on the previous screen. The table or column names are copied either after or before the line marked with "A" or "B" respectively, or to the top of the displayed data.

Sample Input Screen with Copied Column Names

```
09:59:17
                  ** +----
ISQL - Input
               GGS ! Tab: SYSIBM.SYSTABLES
Type
                                                       Len!
     SELECT ! _ NAME
                                                VARCHAR 128 !
               ! _ CREATOR
! _ TYPE
! _ DBNAME
! _ TSNAME
! _ DBID
00002 NAME
                                                VARCHAR 128 !
00003 , CREATOR
                                                CHAR
                                                       1
                                                           !
00004 , TYPE
                                                VARCHAR 24
                                                           !
                                                VARCHAR 24 !
00005 , DBNAME
00006 , TSNAME
                                                SMALLINT 2
                                                           !
00007 SYSIBM.SYSTABLES ! _ OBID
                                                SMALLINT 2
SMALLINT 2
                   !
                     EDPROC
                                                VARCHAR 24
                                                VARCHAR 24
                   ! VALPROC
                                                       1
                   ! _ CLUSTERTYPE
                                                CHAR
                   ! _ CLUSTERRID
                                                INTEGER 4
                   ! _ CARD
                                                INTEGER 4
                                                          !
                   ! _ NPAGES
                                                INTEGER 4
                   ! _ PCTPAGES
                                                         !
                                                SMALLINT 2
                   ! _ IBMREQD
                                                CHAR 1
                                                          . !
                                                VARCHAR 762!
                   ! _ REMARKS
                                                SMALLINT 2 !
                   ! _ PARENTS
Enter-PF1---PF2---PF3---P!
    Help Setup Exit E +-----+
```

Fixed Mode with Interactive SQL

All fixed-mode input screens from the Catalog Maintenance part of the Natural Tools for DB2 are available as help maps within the Interactive SQL part. To invoke this help facility, enter the name of the SQL statement you want to create in the command line of your SQL input screen, for example, "CREATE TABLE" or "CR TB" for the CREATE TABLE command.

The same command abbreviations apply as with the Catalog Maintenance.

If you enter "CREATE TABLE" or "CR TB", the Create Table screen is invoked:

```
09:47:19
                  ***** NATURAL TOOLS FOR DB2 *****
                                                      2006-05-24
                        - Create Table -
                                                       1 / 9
>>- CREATE TABLE - SAG . DEMOTABLE
                                  ----->
               <creator.>table-name
               <creator.>table/view-name +- _ - INCLUDING IDENTITY + +
 !
 +( COL1_____ CHAR___
                          _____ ( 20_____ ) _ -
 +- COL2______ INTEGER____ ( ______ ) _ - NN - _ - 2_ -
 +- COL3_____ SMALLINT____ (
                                 _____ ) _ - NN -
 +- COL4_____ CHAR____ ( 2_____ ) S - __ -
          VARCHAR_____ ( 30_____ ) _ - NN -
         _____ DECIMAL____ ( 2,5____ ) _ - __ - X -
 +- COL6
 +- COL7_
         _____ FLOAT____ ( _____ ) _ - NN -
          _____ DATE____ ( __
 +- COL8_
                                        ___ ) _ - .
          _____ TIME____ ( __
 +- COL9
                                    _____ ) _ - __ - _ - _ -
      column-name
                      format
                                   length S/M NN fld PK/ R/C
                                          B proc UK D/G
Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
    Help Error Exit Exec Free -- +
```

If you have entered data for a complete SQL statement, you can generate an SQL statement from the entered data and include it into the SQL input screen. Using PF4 (Incl), you include the generated SQL code and remain on the Create Table screen. Using PF5 (IBack), you include the generated SQL code and return to the SQL input screen.

Retrieve an SQL Member

If you specify a unique member name in the Member field of the Interactive SQL screen, the corresponding SQL member is listed on the input screen. If no member exists with the specified name, a corresponding message is returned.

Sample SOL Member Listed in Input Screen

List of SQL Members NDB - Interactive SQL

```
***** NATURAL TOOLS FOR DB2 *****
16:27:12
                                                      2006-05-24
ISQL - Input SAG(TESTSEQ) S 01- -----Columns 001 072
====>
                                                Scroll ===> PAGE
00001 CREATE TABLE DEMOTABLE
     (COL1
00002
                        CHAR(8),
       COL2
                        INTEGER
00003
00004 ) IN DATABASE DEMO;
00005 INSERT INTO DEMOTABLE
00006 VALUES ('AAAAA',1);
00007 * INSERT INTO DEMOTABLE
00008 * VALUES ('BBBBB',2);
00009 SELECT FROM DEMOTABLE;
00010 DROP TABLE DEMOTABLE;
**** ****************** bottom of data *******************
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
    Help Setup Exit Exec Rfind Rchan - + Outpu
```

Listed SQL members can be purged, modified, executed, or saved.

An asterisk (*) in front of a statement line turns this line into a comment line, which means that the corresponding SQL code is not considered for execution.

List of SQL Members

If you specify a value followed by an asterisk (*) in the Member field, a list of all SQL input members in the current library whose names begin with this value is displayed.

If you specify an asterisk (*), a list of all SQL input members in the current library is displayed.

Sample SQL Input Member Selection List

NDB - Interactive SQL List of SQL Members

13:57:15	*	_	RAL TOOLS FOR DB Select Member	2 ****	2006-05-24
С	Member	Туре	User	Date	Time
_	CRAXTB	SOL	SAG	2006-05-24	13:48:53
_	CRAITS	~	SAG	2006-05-24	
_	_	SQL		2006-05-24	
_	CRPRQE	SQL	SAG	2006-05-24	
_	CRTB	SQL	SAG		
_	CRTRIG	SQL	SAG	2006-05-24	
_	CRTRIG2	SQL	SAG	2006-05-24	-
_	DRPRQE	SQL	SAG	2006-05-24	
_	DRPRQE2	SQL	SAG	2006-05-24	
_	GGSDTYPE	SQL	SAG	2006-05-24	
_	GRSHPR	SQL	SAG	2006-05-24	13:28:01
_	RESHPR	SQL	SAG	2006-05-24	13:31:05
_	SELPROCS	SQL	SAG	2006-05-24	13:09:05
_	SELTABS	SQL	SAG	2006-05-24	13:56:22
Enter-PF1	PF2PF3	PF4PF5-	PF6PF7P	F8PF9PF	10PF11PF12
Cont	Exit				> Canc

From the input screen selection list, SQL members can be selected for display by marking them with an "S". If the list has been invoked by a PURGE command, members can be purged by marking them with a "P".

By pressing PF11, you can switch from the default view of the Select Member screen as shown above to the extended view with the first line of each member displayed in the Description column:

L4:14:20	*	**** NATURAL TOOLS FOR DB2 **** 2006-05-24 Select Member
С	Member	Description (first line of member)
-	CD A VIIID	ODDATE NIVITADY MADE and hable name
_	CRAXTB	
_	CRDITY	
_	CRPRQE	
_	CRTB	CREATE TABLE NEWTYPE
_	CRTRIG	
_	CRTRIG2	CREATE TRIGGER trigger-name (NO CASCADE BEFORE
_	DRPRQE	2 2 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
_	DRPRQE2	DROP PROCEDURE CALLN2 RESTRICT;
_	GGSDTYPE	SELECT COLTYPE, LENGTH, LENGTH2, DATATYPEID, SOURCETYPEID
_	GRSHPR	GRANT ALTERIN [, CREATEIN] [, DROPIN]
_	RESHPR	REVOKE ALTERIN [, CREATEIN] [, DROPIN]
_	SELPROCS	SELECT * FROM SYSIBM.SYSPROCEDURES
	SELTABS	SELECT * FROM SYSIBM.SYSTABLES
_	SELTABS	SELECT * FROM SYSIBM.SYSTABLES
ter-PF1	-PF2PF3	PF4PF5PF6PF7PF8PF9PF10PF11PF12
ont.	Exit	< Canc

The first line of a member can be the first line of an SQL statement or a comment line which provides more information on the member.

Data Output Members

To invoke the Data Output Member function, enter function code "O" on the Interactive SQL screen. Depending on what member name you have specified, different screens are displayed.

Data Output Screen

If you leave Member field blank, the empty SQL output screen is invoked.

From the data output screen you have access to output data members only. Output members consist of data retrieved from the database as a result of executed SQL statements. These data can be browsed and saved for later use as output members on the Natural system file (FUSER). In addition to the data retrieved from the database, output members also contain DB2 status information, and the executed SQL member.

If you execute an SQL statement, the results are automatically shown on the output screen. Thus, you can enter the interactive SQL output screen also by executing an SQL statement from the input screen. From the output screen you can return to the input screen by pressing PF3 (Exit).

The maintenance commands available for output members can be displayed and selected in a window, too. The window is invoked by entering the help character "?" in the command line of the output screen.

Apart from the maintenance commands, only browse commands are available, since output members cannot be modified. Both browse and maintenance commands are entered in the command line of the output screen.

If an output member is too large to fit on your terminal screen, you can use the FIX ON n command to keep the first n characters on the screen when scrolling to the left or to the right.

Retrieve an Output Member

If you specify a unique member name in the Member field of the Interactive SQL screen, the corresponding output member is listed on the output screen. If no member exists with the specified name, a corresponding message is returned.

Sample Output Member Listed in Output Screen

```
16:27:12
====>
                            Scroll ===> PAGE
00001 CREATE TABLE DEMOTABLE
00002 (COL1
             CHAR(8),
00003
    COL2
             INTEGER
00004 ) IN DATABASE DEMO
00005 -----
00006 STATEMENT WAS SUCCESSFUL, SQLCODE = 0
00007 -----
00008 INSERT INTO DEMOTABLE
00009 VALUES ('AAAAA',1)
00011 STATEMENT WAS SUCCESSFUL, SQLCODE = 0
00012 -----
00013 SELECT FROM DEMOTABLE
00014 -----
00015 COL1 COL2
00016 -----
00017 AAAAA
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
  Help Exit Rfind Rchan - + < > Canc
```

List of Output Members

If you specify a value followed by an asterisk (*) in the Member field of the Interactive SQL screen, a list of all data output members in the current library whose names begin with this value is displayed.

If you specify asterisk notation only, a list of all data output members in the current library is displayed.

Sample Data Output Member Selection List

16:24:02			TOOLS FOR DI	32 ****	2006-05-24
С	Member	Type	User	Date	Time
- -	AAAA	SQL-RESULT	SAG	2006-05-24	13:54:54
_	ADEMVIEW	SQL-RESULT	SAG	2006-05-24	14:01:09
_	AIRCRAFT BBBB	SQL-RESULT SOL-RESULT	SAG SAG	2006-05-24 2006-05-24	10:01:32 15:25:14
	BSP1	SQL-RESULT	SAG	2006-05-24	14:57:11

From the output member selection list, output members can be selected for display by marking them with an "S". If the list has been invoked by a PURGE command, members can be purged by marking them with a "P".

Processing SQL Statements

SQL input members can only be accessed from the input screen. They are executed from the input screen against DB2 by pressing PF4 (Exec). After execution, the data output screen appears which contains the results of the executed SQL member.

If an SQL member consists of more than one SQL statements, the individual statements must be separated by a semicolon. They can be executed one by one or all together at the same time. To choose the form of execution, a window is provided which can be invoked by pressing PF2 (Setup).

```
**** NATURAL TOOLS FOR DB2 ****
16:27:12
                                                                               2006-05-24
ISQL - Input SAG(TESTSEQ) S 01- -----Columns 001 072
 **** ************
 00001 CREATE TABLE DEMOTABLE !
                                                _ Execute statements one by one
00002 (COL1 CHAR(8 ! X Execute all statements together 00003 COL2 INTEGE ! Optional Commit/Rollback 00005 INSERT INTO DEMOTABLE ! X Automatic Commit/Rollback 00006 VALUES ('AAAAA',1);
00006 VALUES ('AAAAA',1); :

00007 * INSERT INTO DEMOTABLE ! _ Ignore positive SQL codes

00008 * VALUES ('BBBBB',2); !

00009 SELECT FROM DEMOTABLE; ! Text for NULL values : <NULL>__

00010 DROP TABLE DEMOTABLE; ! Sql termination character : ;
 **** *********** b ! Maximum length of columns :
                                           ! Maximum number of rows : ____
                                            ! DB2 cost limit
                                            ! Header Line every 15___ Data Lines
                                            ! Record Length Data Session: _250
Enter-PF1---PF2---PF3---PF4----PF5---PF+------+
      Help Setup Exit Exec Rfind Rchan - + Outpu Canc
```

Below is information on the options provided:

- Execute Statements One By One
- Execute All Statements Together
- Automatic Commit/Rollback
- Optional Commit/Rollback
- Text For NULL Values
- SQL Termination Character
- Maximum Length of Columns
- Maximum Number of Rows
- DB2 Cost Limit
- Header Line Every n Data Lines
- Record Length Data Session

Execute Statements One By One

After each SQL statement the output screen is shown. From the output screen, you can either execute the next SQL statement from the input screen by pressing PF4 (Next), or skip the remaining SQL statements and return to the input screen immediately by pressing PF3 (Exit).

Execute All Statements Together

All statements are executed immediately one after the other. The output screen shows the results of all statements together.

Statements containing cursor names, host variables, or parameter markers cannot be executed with interactive SQL. Also not executed are statements available as embedded SQL only; that is, statements whose functions are automatically performed by Natural.

These statements are:

CLOSE			
CONNECT			
DECLARE			
DELETE WHERE CURRENT OF C	URSOR		
DESCRIBE			
EXECUTE			
FETCH			
INCLUDE			
OPEN			
PREPARE			
SELECT INTO			
SET host-variable			
SET CURRENT PACKAGESET			
UPDATE WHERE CURRENT OF C	URSOR		
WHENEVER			

Automatic Commit/Rollback

If you select automatic commit/rollback, each modification of the database is automatically either committed or rolled back, depending on whether all the SQL statements involved execute successfully. If so, an SQL COMMIT WORK command is executed; if not, an SQL ROLLBACK command backs out all database modifications since the last commit point.

Optional Commit/Rollback

If you select optional commit/rollback, a window is invoked after each SQL statement, offering you the option to either commit or roll back the resulting database modifications shown on the screen.

Note:

Since under CICS and IMS TM each terminal I/O results in a SYNCPOINT, the optional commit/rollback feature only applies in a TSO environment.

In all environments, you can include SQL COMMIT and ROLLBACK commands in your input member, too. Under CICS and IMS TM, however, these commands are translated into the corresponding TP-monitor calls.

Text For NULL Values

The text that is to be shown for NULL values can be specified here; the default string is '---'.

SQL Termination Character

If you enter multiple SQL statement, they need to be separated. The default statement termination character is the semi-colon.

Maximum Length of Columns

Limits the length for a single column to n characters. This limit only applies to character data. DATE, TIME, or NUMERIC columns are not truncated. The value 0 indicates that no limit exists.

Maximum Number of Rows

Limits the number of rows returned by one SELECT statement. The value 0 indicates that no limit exists.

DB2 Cost Limit

Sets a limit for the DB2 cost estimate. SELECT statements which exceed this limit are not executed. The value 0 indicates that no limit exists.

Header Line Every n Data Lines

For SELECT statements, you can specify that every n data lines a header line is inserted with the names of the selected columns. If n is set to 0, only one header line is displayed at the top of the data.

Record Length Data Session

The record length (n) for the output session can be specified. If the specified record length is smaller than the record length of the output data, the output records are truncated accordingly. The truncation of records is indicated by a greater than character (>) as the leftmost character in the first line beneath each header line. The default value for n is 250 bytes.

PF-Key Settings NDB - Interactive SQL

PF-Key Settings

The following PF-key settings apply to the input screen:

Key	Setting	Function
PF2	Setup	Invokes a window with further processing options.
PF4	Exec	Executes the SQL member currently in the input screen.
PF5	Rfind	Repeats the last executed FIND command.
PF6	Rchan	Repeats the last executed CHANGE command.
PF7	-	Scrolls the display one page backward.
PF8	+	Scrolls the display one page forward.
PF9	Outpu	Invokes the output member selection list directly from within the input screen.

Apart from PF2 (Setup), PF4 (Exec), and PF9 (Outpu), the same PF-key settings apply to the output screen, too. In addition, the following PF-key settings are available:

Key	Setting	Function
PF4	Next	Executes the next SQL statement if an SQL member consists of more than one statement, and if you have chosen to execute them one after the other. If not, the setting for PF4 is left blank.
PF10	<	Scrolls the display of the output screen to the left.
PF11	>	Scrolls the display of the output screen to the right.

Unloading Interactive SQL Results

Results from interactive SQL are unloaded and written to a dataset referred to by DD name CMWKF01 in batch mode using the UNLDDATA command.

CMWKF01 should be of variable record format; the record length depends on the size of the SQL output member and can range from 250 to 4000 bytes.

If UNLDDATA is issued in the Natural system library SYSDB2, the Unload SQL Results menu is displayed:

The following function is available:

Cod	e Description
U	Unloads results from interactive SQL execution.

The following parameters apply:

Parameter	Description
Library	Specifies the name of the Natural library from which the specified output members are to be unloaded. You cannot specify libraries whose names begin with "SYS". This parameter must be specified.
Member	Specifies the name(s) of the output member(s) to be unloaded. This parameter must be specified.