

Libraries

This section covers the following topics:

- What are Libraries?
 - Creating Libraries
 - Listing Libraries
 - Copying Libraries
 - Deleting Libraries
 - Listing Library Members
 - Copying Library Members
 - Deleting Library Members
 - The Information (Info) Function
-

What are Libraries?

For a definition of private, public and common libraries, see **Libraries** in **Using Super Natural** in the *Super Natural User's Guide*.

You can perform the following commands on libraries:

| | ADD | MODIFY | COPY | DELETE | INFO | MEMBER |
|-----------------|-----|--------|------|--------|------|--------|
| Private Library | | | X | X | | X |
| Public Library | | | X | X | | X |
| Common Library | | | X | X | | X |

Super Natural libraries can contain the following types of members:

- Transaction programs
- Prototype programs
- Application programs
- Data models
- Layout member
- Work-in-progress layout member

You can perform the following commands on members:

| | ADD | MODIFY | COPY | DELETE | INFO | MEMBER |
|--------|-----|--------|------|--------|------|--------|
| Member | | | X | X | X | |

Creating Libraries

There is no Add Library function.

 **To create a library:**

- Copy an existing library specifying the required library prefix for the target library.

Common libraries are not created until they are defined in the Common Library Definition List (although they may appear in the Library List).

Note:

Libraries are not created until members are copied to them.

Listing Libraries

 **To list libraries with a certain prefix and member prefix:**

1. Issue the LIBRARY command.

Or:

Select the object Library from the AdministrationMenu.

The Library List screen appears as in the following example:

```

14:49                      ***** Super Natural *****                      1999-05-21
SBE                        - Library List -                                  SNMLL
                                                                    More:  - +

      Library prefix: Y  Program prefix: I
Cmd  Library  Programs
*  _____
  ___ DD          7
  ___ DEMO        1
  ___ ESC         58
  ___ EZA         48
  ___ FHA         1
  ___ FSO         3
  ___ HAA         9
  ___ HAH        55
  ___ HAH1       15
  ___ HAH2       13
  ___ HAH3       13
  ___ HSE        6

Cmd(s): Copy, Delete, Member
Select one command from list
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help      Exit      Flip      +      Canc

```

The Library List screen shows the following:

-

Library prefix

-

Member prefix

-

The libraries defined to Super Natural with the library prefix and member prefix shown

-

The number of programs with the prefix shown contained in each library shown

2. Enter the prefix for the type of library you want to see in the Library Prefix field.
3. Enter the prefix for the type of program you want to see in the Member prefix field.

The libraries with the prefix specified are listed and the number of programs with the prefix specified contained in each library is shown.

Copying Libraries

You use the Copy Library function to copy members of a certain type either to an existing or to a new library. You can not copy all the members of a library at once. You must copy each member type separately.

Notes:

1. When you copy a transaction, its layout member is also copied.
2. If you copy transactions created with Super Natural Version 2.4.2 or below, a dummy layout member is created for each one.
3. You can not copy transactions with transaction mode for reporting Destination USER FILE between libraries.

 **To copy a library:**

- Issue the COPY LIBRARY command specifying source and target library prefix and name as in the following example:

```
COPY LIBRARY YTEST I ZPUBLIC I
```

If you enter CO in the command column of the Library List screen next to the library you want to copy, a window appears which prompts you for prefix and name information.

A window appears showing which members are currently being copied. If there is already a member with the same prefix and name in the target library, you are asked if you want to replace (overwrite) the member in the target library.

Deleting Libraries

You use the Delete Library function to delete members with a certain prefix from libraries. You can not delete all the members of a library at once. You must delete each member type separately.

If you delete all transactions, the layout members which belong to them are also deleted. However, the work-in-progress layout members are not deleted. Work-in-progress layout members (prefix !) can only be deleted from the Member List screen.

Note:

A library itself is not deleted until all its members are deleted.

 **To delete a library:**

1. Issue the DELETE LIBRARY command specifying library prefix, library name and program prefix as in the following example:

```
DELETE LIBRARY YTEST I
```

2. Confirm the deletion in the window which appears.

All the programs with the prefix specified are deleted from the library.

Or:

Enter DE in the command column of the Library List screen next to the library you want to delete.

3. Confirm the deletion in the window which appears.

All the programs with the prefix specified in the Member prefix field of the Library List screen are deleted from the library.

Note:

You must delete common libraries and their definitions separately.

Listing Library Members

▶ To list the members contained in a library:

- Issue the MEMBER command specifying library-prefix, library-name and program-prefix.

The Member List screen appears:

```

14:50          ***** Super Natural *****          1999-05-21
SBE          - Member List -          SNMML
                                     More:      +

          Library prefix: Y  Member prefix: I
          Cmd  Library  Member
          SBE_____ *_____
          ___      AUTO
          ___      CONNECT
          ___      CONTROL
          ___      CONT2
          ___      DATACH
          ___      DATACH2
          ___      DATACH3
          ___      DATA2
          ___      DATA3
          ___      DATA4
          ___      DATA5
          ___      DATA6

Cmd(s): Copy, Delete, Info
Select one command from list
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
          Help          Exit          Flip          +          Canc

```

The Member List screen contains the following information:

○

Library prefix

○

Member prefix

○

The name of the library whose members are listed - you can overtype this with another library ID

○

The members with the prefix specified contained in the library specified

Copying Library Members

▶ To copy a library member:

- Issue the COPY MEMBER command specifying library prefix, library name, member prefix and member name for both source and target member as in the following example:

```
COPY MEMBER YSBE ISAMPLE3 CTUTOR ISAMPLE3
```

If you enter CO in the command column of the Member list screen next to the member you want to copy, the Copy Member window appears which prompts you for name and prefix information for the target library and target prefix.

In some cases, you can not copy a transaction to another library because of layout conflicts.

Note:

You can not copy transactions with transaction mode for reporting Destination USER FILE between libraries.

Deleting Library Members

 **To delete a library member:**

- Issue the DELETE MEMBER command specifying library prefix, library name, member prefix and member name as in the following example:

```
DELETE MEMBER YSBE ISAMPLE3
```

Note:

If you enter CO in the command column of the Member list screen next to the member you want to copy, the copy member window appears which prompts you for name and prefix information for the target library and target prefix.

The Information / Info Function

 **To obtain information about a member:**

- Enter the command abbreviation IN in the command column of the Member List screen next to the member name.

Or:

Issue the INFO MEMBER command specifying library prefix, library name, member prefix and member name as in the following example:

```
INFO MEMBER YSBE IDATA3
```

The Transaction Information window appears:

```

11:47                      ***** Super Natural *****                      1999-05-24
                                - Member List -                                SNMML
                                                                More:      +
+-----Transaction Information-----+
! Transaction ..... DATA3      Version .... 3.1.0                      !
! Created/modified by .. SBE      Date/Time .. 1993/01/12 12:03:00      !
! Description ..... data maintenance transaction t                      !
!                               ype UPDATE MULTIPLE                      !
! Type ..... Update single                                              !
! Selection ..... Full-screen                                           !
! Data change ..... None                                               !
! Report type .....                                                    !
! Report level ..... Detailed                                           !
! Destination ..... Screen                                              !
! Run mode ..... Online                                                 !
! Primary file ..... PERSONNEL                                          !
! Sec. file .....                                                      !
! User file .....                                                       !
!                               !                                         !
Cmd(s): Co +More: +-----+
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help      Exit      Flip -      +      Canc

```

The Transaction Information window supplies the following information:

- Transaction name
- Super Natural version with which the transaction was created
- Who created/last modified the transaction
- When the transaction was created/last modified
- User-entered transaction description
- Information about the transaction modes (Report Type, Data Selection etc)
- Primary file
- Secondary file (if defined)
-

Name of user file (for Destination USERFILE)

You can page forward to obtain information on the following if relevant to the transaction:

Link and lookup fields used.

Selection criteria

Calculation

Logical conditions

Fields used

When you print the information, you are also provided with information on the entries made in the Worksheet.