

You then do the same for the field END-DATE.

Transaction Specification

Primary File	SAG-TOURS-E-CRUISE
User Fields	MY-START-DATE MY-START-YEAR MY-START-MONTH MY-START-DAY MY-END-DATE MY-END-YEAR MY-END-MONTH MY-END-DAY
Display Fields	1: CRUISE-ID 2:START-HARBOR 3:DESTINATION-HARBOR 4A:MY-START-DATE 4B: MY-END-DATE
Selection Criteria	CHARTER-YACHT-TYPE = 'ATLANTIC 29'
CalculationStatement	MY-START-DATE=MY-START-DAY!'.'!MY-START-MONTH!'.'!MY-START-YEAR MY-END-DATE=MY-END-DAY!'.'!MY-END-MONTH!'.'!MY-END-YEAR
Logical Conditions Statement	1 I < START-DATE GT 19910701 1 T < MY-START-DATE = 'TOO LATE 1 T < MY-END-DATE = ' '

This section covers the following topics:



Create the Transaction SAMPLE3

Create the Transaction SAMPLE3

To add a transaction

1. Issue the ADD TRANSACTION SAMPLE3 command.
The Add Transaction window appears.
2. Type "User Fields and Editors" in theDescription field (optional).

To Choose a File

The report requires data from the fileSAG-TOURS-E-CRUISE.

1. Type SAG-TOURS-E-CRUISE in the File Name field.
2. Press Enter.

The Worksheet appears.

To Choose Fields

The report requires data stored in the fields CRUISE-ID, START-HARBOR and DESTINATION-HARBOR.

- Type CRUISE-ID, START-HARBOR and DESTINATION-HARBOR beneath each other in the Field Name column.

Or:

Choose the fields using the Asterisk List function as described in Step 3 of the section **Sample 1**.

To Determine Display Sequence for Horizontal Output

1. Type "1" in the Sequence column next to the field CRUISE-ID.
2. Type "2" in the Sequence column next to the field START-HARBOR.
3. Type "3" in the Sequence column next to the field DESTINATION-HARBOR.

To Define User Fields

The report requires the following user fields as described at the beginning of this section: - MY-START-DATE - MY-START-YEAR - MY-START-MONTH - MY-START-DAY - MY-END-DATE - MY-END-YEAR - MY-END-MONTH - MY-END-DAY

1. Enter MY-START-DATE in the Field Name column.

The Define User Field window appears.

2. Type "A" in the Format field.
3. Type "8" in the Length field:

11:35	***** Super Natural *****	1998-02-09
SAMPLE3	- Worksheet -	SN3011
Ref DB	Field Name	+-----Define User Field-----+
AA 1K	CRUISE-ID	! Field: MY-START-DATE !
AJ 1K	START-HARBOR ..	! !
AK 1K	DESTINATION-HAR	! Name or value .. MY-START-DATE _____ !
BE	my-start-date__	! Format a !
BF	_____	! Length 8__ !
BG	_____	! Dec. places !
BH	_____	! Subfield of _____ !
BI	_____	! Offset ____ !
BJ	_____	! Dynamic input .. _ !
BK	_____	! !
BL	_____	+-----+-----+

4. Press Enter.

The user field MY-START-DATE is created.

5. Enter MY-START-YEAR in the Field Name column.

The Define User Field window appears.

6. Type "A" in the Formatfield.

7. Type "2" in the Lengthfield:

This user field is going to take part of the value of the database field START-DATE.

8. Type START-DATE in the Subfield Of field.

This user field is going to take the third (3rd) and fourth (4th) characters of the field START-DATE, so you must tell Super Natural to ignore the first two characters.

9. Type " 2" in the Offsetfield.

```

11:50          ***** Super Natural *****          1998-02-09
SAMPLE3          - Worksheet -                          SN3011

Ref DB      Field Name      +-----Define User Field-----+
AA  1K      CRUISE-ID ..... ! Field: MY-START-YEAR          !
AJ  1K      START-HARBOR .. !                               !
AK  1K      DESTINATION-HAR ! Name or value .. MY-START-YEAR_____ !
BE   U      MY-START-DATE . ! Format ..... a                !
BF          my-start-year__ ! Length ..... 2__          !
BG          _____ ! Dec. places .... _            !
BH          _____ ! Subfield of .... start-date_____ !
BI          _____ ! Offset ..... 2__          !
BJ          _____ ! Dynamic input .. _          !
BK          _____ !                               !
BL          _____ +-----+
    
```

10. Press Enter.

The user field MY-START-YEAR is created.

11. Enter MY-START-MONTH in the Field Name column.

The Define User Field window appears.

12. Type "A" in the Formatfield.

13. Type "2" in the Lengthfield:

This user field is also going to take part of the value of the database field START-DATE.

14. Type START-DATE in the Subfield Of field.

This user field is going to take the fifth (5th) and sixth (6th) characters of the field START-DATE, so you must tell Super Natural to ignore the first four characters.

15. Type " 4" in the Offsetfield.

```

11:54          ***** Super Natural *****          1998-02-09
SAMPLE3          - Worksheet -                          SN3011

Ref DB   Field Name      +-----Define User Field-----+
AA 1K   CRUISE-ID ..... ! Field: MY-START-MONTH          !
AJ 1K   START-HARBOR .. !                               !
AK 1K   DESTINATION-HAR ! Name or value .. MY-START-MONTH_____ !
BE  U   MY-START-DATE . ! Format ..... a                !
BF  U   MY-START-YEAR . ! Length ..... 2__              !
BG      my-start-month_ ! Dec. places .... _                !
BH      _____ ! Subfield of .... start-date_____ !
BI      _____ ! Offset ..... 4__                  !
BJ      _____ ! Dynamic input .. _                !
BK      _____ !                               !
BL      _____ +-----+
    
```

16. Press Enter.

The user field MY-START-MONTH is created.

17. Enter MY-START-DAY in the Field Name column.

The Define User Field window appears.

18. Type "A" in the Formatfield.

19. Type "2" in theLengthfield:

This user field is also going to take part of the value of the database field START-DATE.

20. Type START-DATE in the Subfield Of field.

This user field is going to take the seventh (7th) and eighth (8th) characters of the field START-DATE, so you must tell Super Natural to ignore the first six characters.

21. Type "6" in the Offsetfield.

```

11:59          ***** Super Natural *****          1998-02-09
SAMPLE3          - Worksheet -                          SN3011

Ref DB   Field Name      +-----Define User Field-----+
AA 1K   CRUISE-ID ..... ! Field: MY-START-DAY          !
AJ 1K   START-HARBOR .. !                               !
AK 1K   DESTINATION-HAR ! Name or value .. MY-START-DAY_____ !
BE  U   MY-START-DATE . ! Format ..... a                !
BF  U   MY-START-YEAR . ! Length ..... 2__              !
BG  U   MY-START-MONTH ! Dec. places .... _                !
BH      my-start-day___ ! Subfield of .... start-date_____ !
BI      _____ ! Offset ..... 6__                  !
BJ      _____ ! Dynamic input .. _                !
BK      _____ !                               !
BL      _____ +-----+
    
```

22. Press Enter.

The user field MY-START-DAY is created.

23. Create the other user fields as shown in the table below:

Field	Format	Length	Subfield Of	Offset
MY-END-DATE	A	8		
MY-END-YEAR	A	2	END-DATE	2
MY-END-MONTH	A	2	END-DATE	4
MY-END-DAY	A	2	END-DATE	6

To Determine Display Sequence for Vertical Output

The field MY-START-DATE is to be displayed above the field MY-END-DATE and to the right of the other display fields.

1. Type "4A" in the Sequence column next to the field MY-START-DATE.
2. Type "4B" in the Sequence column next to the field MY-END-DATE.

To Change Header of Vertical Output Column

1. Enter "OD" in the Definition (Def) column next to the field MY-START-DATE.

The Define User Field Output window appears.

2. Enter "Cruise From To" in the Heading fields as shown in the following diagram:

```

14:01                ***** Super Natural *****                1998-02-09
SAMPLE3                - Worksheet -                                SN3011

Ref DB   Field Na +-----Define User Field Output-----+
AA 1K    CRUISE-I ! Field: MY-START-DATE                      !
AE 1K 2   START-DA !                                          !
AH 1K 2   END-DATE ! Format/Length ..... A8                    !
AJ 1K    START-HA ! Numeric sign ..... _ (Y/N)                !
AK 1K    DESTINAT ! Output length ..... 8__                  !
AP 1 2   CHARTER- !          dec. places .. _                 !
BE  U    MY-START ! Heading ..... CRUISE_____              !
BF  U    MY-START !                                     FROM_____ !
BG  U    MY-START !                                     TO_____    !
BH  U    MY-START ! Edit mask                                !
BI  U    MY-END-D ! _____                                !
BJ  U    MY-END-Y ! Suppress identical values .. _ (Y/N)      !
BK  U    MY-END-M ! Print zero values ..... _ (Y/N)          !
BL  U    MY-END-D !                                          !
+-----+
    
```

The Worksheet now has the following entries:

13:25		***** Super Natural *****					1998-02-09	
SAMPLE3		- Worksheet -					SN3011	
Ref	DB	Field Name	Seq	S/C	Func	Def	Info Del	
AA	1K	CRUISE-ID	1__	___	___	___	___	
AJ	1K	START-HARBOR	2__	___	___	___	___	
AK	1K	DESTINATION-HARBOR	3__	___	___	___	___	
BE	U	MY-START-DATE	4A_	___	___	___	___	
BF	U	MY-START-YEAR	___	___	___	___	___	
BG	U	MY-START-MONTH	___	___	___	___	___	
BH	U	MY-START-DAY	___	___	___	___	___	
BI	U	MY-END-DATE	4B_	___	___	___	___	
BJ	U	MY-END-YEAR	___	___	___	___	___	
BK	U	MY-END-MONTH	___	___	___	___	___	
BL	U	MY-END-DAY	___	___	___	___	___	
BM		_____	___	___	___	___	___	
BN		_____	___	___	___	___	___	
BO		_____	___	___	___	___	___	

Fill in required definitions
 Command ==>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
 Help Next Exit Field Incl Flip - + Sel Run Canc

Notice that the user fields are marked with a 'U' in the DB Column

To Define Selection Criteria

The report requires data for cruises of charter yacht type ATLANTIC 29.

1. Issue the SELECTION command.

You can abbreviate this command to SEL.

The Selection Editor appears.

2. Enter "CHARTER-YACHT-TYPE = 'ATLANTIC 29'" in the editor area.

Note:

The field CHARTER-YACHT-TYPE now appears in theField Name column of the Worksheet.

To Present Start Date and End Date of Cruise in the Format DD.MM.YY.

1. Issue the CALCULATION command. You can abbreviate this command to CAL.

The Calculation Editor appears. The first result field in the editor area will be the user field MY-START-DATE and will be composed of the user fields MY-START-YEAR,MY-START-MONTH andMY-START-DAYseparated by periods (.). You use theJoining Fields (concatenation) function to join the fields and periods.

2. Type "MY-START-DATE = MY-START-DAY".
3. Type the Joining Fields operator valid for your site.

If you do not know which operator to use, ask your Super Natural administrator.

Or:

Issue the CONTINUE command. This command is allocated to PF10.

The Fields - Operators window appears.

4. Select Select Operator.

```

14:24          ***** Super Natural *****          1998-02-10
SAMPLE3          - Calculation Editor -                  SNZUL-C

                                     +---Fields - Operators---+
      1 < MY-START-DATE=MY-START-DAY          !                   !
      2 <                                     !   _   Invoke Field List !
      3 <                                     !   _   ROUNDED           !
      4 <                                     !   _   Define User Field !
      5 <                                     !   x   Select Operator  !
      6 <                                     !                   !
      7 <                                     ! Mark to replace:    !
      8 <                                     !                   !
      9 <                                     +-----+
    
```

5. Press Enter.

The Joining Fields window appears.

6. Select the joining fields operator.

```

12:09          ***** Super Natural *****          1998-05-24
SAMPLE3          - Calculation Editor -                  SNZUL-C

                                     +-----Joining Field-----+
      1 < MY-START-DATE=MY-START-DAY          !                   !
      2 <                                     !   _   !   Joining Field Operator !
      3 <                                     !                   !
      4 <                                     ! Mark to replace: _    !
      5 <                                     !                   !
      6 <                                     +-----+
      7 <                                     ! Mark to replace:    !
      8 <                                     !                   !
      9 <                                     +-----+
    
```

7. Press Enter.

The joining fields operator valid at your site is entered at the end of the calculation statement.

8. Issue the CONTINUE command. This command is allocated to PF10.

The Field or Value window appears.

9. Select Alphanumeric Constant.

```

14:34          ***** Super Natural *****          1998-02-09
SAMPLE3          - Calculation Editor -                  SNZUL-C

                +-----Field or Value-----+
  1 < MY-START-DATE = MY-START-DAY !      !      !
  2 <                                     !      X  Alphanumeric Constant  !
  3 <                                     !      _  Hex Constant          !
  4 <                                     !      _  Define Dynamic Input Field !
  5 <                                     !      _  Invoke Field List      !
  6 <                                     !      !                          !
  7 <                                     +-----+
    
```

10. Press Enter.

11. Enter a period (.) in the Alphanumeric Constant window which appears.

A period (.) is entered in quotation marks (' ') at the end of the calculation statement.

For further information on constants see Constants in Fields in the *Super Natural User's Guide*.

12. Type the rest of the calculation statement as shown in the following diagram using the joining fields operator valid at your site.

```

14:06          ***** Super Natural *****          1998-02-09
SAMPLE3          - Calculation Editor -                  SNZUL-C

  1 < MY-START-DATE=MY-START-DAY! ' ' !MY-START-MONTH! ' ' !      > 1
  2 < MY-START-YEAR                                               > 2
  3 < MY-END-DATE=MY-END-DAY! ' ' !MY-END-MONTH! ' ' !          > 3
  4 < MY-END-YEAR                                                 > 4
  5 <                                                             > 5
  6 <                                                             > 6
  7 <                                                             > 7
  8 <                                                             > 8
  9 <                                                             > 9
 10 <                                                             > 10
 11 <                                                             > 11
 12 <                                                             > 12
 13 <                                                             > 13
 14 <                                                             > 14
 15 <                                                             > 15

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help Next Exit Field Check Flip - + Cont Run Canc
    
```

For further information on joining fields and the joining fields operator, see Joining Fields in Editors in the *Super Natural User's Guide*.

 **To Define Logical Conditions**

The report requires that the text 'Too Late' be displayed in the Cruise/To/From column for cruises which start later than July 1st 1991.

1. Issue the LOGIC command. You can abbreviate this command to LOG.


```

16:16:05 CHARTER-YACHT-TYPE = 'ATLANTIC 29' 1998-02-09
ISAMPLE3 4

```

CRUISE-ID	START-HARBOR	DESTINATION-HARBOR	CRUISE FROM TO
97	KIEL	KIEL	8.6.91 22.6.91
98	KIEL	KIEL	22.6.91 29.6.91
99	KIEL	KIEL	29.6.91 10.8.91
100	KIEL	KIEL	TOO LATE
101	KIEL	KIEL	TOO LATE
102	KIEL	KIEL	TOO LATE

```

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Print Exit                Flip      +                      Canc

```

