

Sample 8: Dynamic Input Fields

Task: Find the start date, end date and number of bunks of cruises whose start harbor begins with D or E and for cruises whose start harbor begins with U, V or W.

This transaction uses dynamic input fields to enable you to view different ranges of data each time you run it. The transaction uses the Layout Editor to show the range you are currently viewing in the title of the report.

Transaction Specification

Primary File	SAG-TOURS-E-CRUISE
Display Fields	1: START-HARBOR 2: START-DATE 3: END-DATE 4: BUNK-NUMBER
Dynamic Input Fields	HARBOR1 HARBOR2
Selection Criteria	START-HARBOR = HARBOR1 THRU HARBOR2

This section covers the following topics:



Create the Transaction SAMPLE8

Create the Transaction SAMPLE8

To Add a Transaction

1. Issue the ADD TRANSACTION SAMPLE8 command.

The Add Transaction window appears with the transaction name already entered in the Transaction ID field.

2. Type the description "Dynamic Input Fields" in the Description field (optional).

To Choose File

The report requires data from the file SAG-TOURS-E-CRUISE.

1. Type the file name SAG-TOURS-E-CRUISE in the File Name field. You can alternatively use the Asterisk (*) List function.
2. Press Enter.

The Worksheet appears.

To Choose Fields

The report requires data stored in the fields START-HARBOR, START-DATE, END-DATE and BUNK-NUMBER.

1. Enter an "asterisk (*)" in the first position of the Field Name column.

The Field Selection List window appears.

2. Mark the fields START-HARBOR, START-DATE, END-DATE and BUNK-NUMBER.

You must use PF2 to page forward to BUNK-NUMBER.

16:10		***** Super Natural *****	1998-03-15
SAMPLE8		- Worksheet -	SN3011
Ref DB	Field Name	+-----Field Selection List-----+	
BE	*_____!	Field Name	Format Info!
BF	_____!	ID-SUCCESSOR	N8 ___!
BG	_____!	CHARTER-CRUISE	*G1 ___!
BH	_____!	CHARTER-YACHT-TYPE	A30 ___!
BI	_____!	ID-CHARTER-BASE	A8 ___!
BJ	_____!	SAILING-CRUISE	*G1 ___!
BK	_____!	ID-SKIPPER	N8 ___!
BL	_____!	CRUISE-PRICE	P10.3 ___!
BM	_____!	x BUNK-NUMBER	P3 ___!
BN	_____!	SAILOR	*G2 ___!
BO	_____!	AGE	P2 ___!
BP	_____!	NAME	A30 ___!
BQ	_____!	EXPERIENCE	A1 ___!
BR	_____!	LANGUAGES	A3 ___!
	_____!		_____!
		+More: - +-----+	

3. Press Enter.

The fields appear in the Field Name column of the Worksheet.

You can also enter the names directly into the Field Name column.

 **To Determine Display Sequence**

1. Type "1" in the Sequence column next to the field START-HARBOR.
2. Type "2" in the Sequence column next to the field START-DATE.
3. Type "3" in the Sequence column next to the field END-DATE.
4. Type "4" in the Sequence column next to the field BUNK-NUMBER.

 **To Define Selection Criteria**

The report requires information for cruises with a range of start harbors. You must define two dynamic input fields in which you can enter the first value of the field START-HARBOR you want to see and the last value you want to see when the transaction is run.

1. Press PF10.

The SELECTION command is issued and the Selection Editor appears.

2. Enter "START-HARBOR =" in the editor area.

3. Press PF10.

The CONTINUE command is issued and the Value window appears.

4. Select "Define Dynamic Input Field".
5. Press Enter.

The Define User Field window appears.

6. Type "Start1" in the Name or Value field.
7. Overtyping the existing entry in the Length field with 5.

```

17:15          ***** Super Natural *****          1998-03-15
SAMPLE8          - Selection Editor -                   SNZUL-S

+-----Define User Field-----+
 1 < START-HARBOR = ! Field:                               !
 2 <                !                                     !
 3 <                ! Name or value .. start1_____      !
 4 <                ! Format ..... A                      !
 5 <                ! Length ..... 5_                    !
 6 <                ! Dec. places .... _                 !
 7 <                ! Subfield of .... _____        !
 8 <                ! Offset ..... _____            !
 9 <                ! Dynamic input .. #                 !
10 <                !                                     !
11 <                +-----+

```

The Dynamic Input field is already marked.

8. Press Enter.

The field name START1 appears in the first editor line.

9. Type the logical operator THRU after START1.

10. Press PF10.

The CONTINUE command is issued and the Value window appears.

11. Select " Define Dynamic Input Field".

12. Press Enter.

The Define User Field window appears.

13. Type "Start2" in the Name or Value field.
14. Overtyping the existing entry in the Length field with 5.
15. Press Enter.

The Selection Editor has the following content:

```

17.46          ***** Super Natural *****          1998-03-15
SAMPLE8          - Selection Editor -                   SNZUL-S

      1 < START-HARBOR = START1 THRU START2          > 1
      2 <                                           > 2
      3 <                                           > 3
      4 <                                           > 4
      5 <                                           > 5
    
```

Note:

You can also enter "START-HARBOR =START1 THRU START2" directly in the editor area and use the CHECK command to prompt you through defining the dynamic input fields.

To Edit the Title Element

1. Issue the LAYOUT command. You can abbreviate this command to LA.

The Natural Report Manager Layout Overview screen appears:

```

10:36          *** NATURAL REPORT MANAGER ***          1998-03-16
Layout LSAMPLE8 - Layout Overview -                   NRMPAGE

      +-----+
      I          Title          I
      +-----+
      +-----+
      I          Header        I
      I
      +-----+
      +-----+
      I          List          I
      I
      I
      I
      I
      I
      I
      I
      I
      +-----+

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Set  Exit Field Edit Flip          Tech          Canc
    
```

2. Position the cursor in the Title layout element.
3. Press PF9.

The Layout Editor appears with the default Title element in the editor area.

4. Enter the line command ..D3 in the first line of the editor area.

The editor area is now empty.

5. Position the cursor in information section A where the transaction fields are displayed.


```

10:46 *** NATURAL REPORT MANAGER *** 1998-03-17
Layout LSAMPLE8 - Layout Editor - NRMEDIT
More: >

Transaction Fields Delimiter Class Attrib. Color
1 CRUISE-ID N8.0 Blank Text Default
2 CRUISE-TYPE A1 _ Text Intens.
3 CRUISE-STATUS A1 ( Output Default
. START *G1 ) Output Intens.
4 START-DATE N8.0
5 START-TIME N6.0 Escape Char. = . Header Char. = &
All ---010---+-----+-----030-- ( Title ) +---050---+-----+-----070--- Typ
Ttl
Run on(XXXXXXXX at(XXXXXXXX Ttl
Start harbors)XXXXX up to but not including)XXXXX Ttl
Ttl
-----
-----
-----
-----
-----

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help Set Exit Field Edit Flip - + Tech < > Canc
    
```

To Run the Transaction

1. Press PF2.

The Layout Overview screen appears.

2. Press PF8.

The Worksheet appears:

```

15:16 ***** Super Natural ***** 1998-03-16
SAMPLE8 - Worksheet - SN3011

Ref DB Field Name Seq S/C Func Def Info Del
AE 1K 2 START-DATE ..... L_ ___ ___ ___ ___
AH 1K 2 END-DATE ..... L_ ___ ___ ___ ___
AJ 1K START-HARBOR ..... L_ ___ ___ ___ ___
AU 1 2 BUNK-NUMBER ..... L_ ___ ___ ___ ___
BE # START1 ..... L_ ___ ___ ___ ___
BF # START2 ..... L_ ___ ___ ___ ___
BK V *DATX ..... L_ ___ ___ ___ ___
BL V *TIMX ..... L_ ___ ___ ___ ___
BM _____ ___ ___ ___ ___ ___
BN _____ ___ ___ ___ ___ ___
BO _____ ___ ___ ___ ___ ___
BP _____ ___ ___ ___ ___ ___
BQ _____ ___ ___ ___ ___ ___
BR _____ ___ ___ ___ ___ ___

Layout has been successfully modified
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help Next Exit Field Incl Flip - + Sel Run Canc
    
```

You can now either save the transaction and execute it later or you can run it to see the report immediately.

- Issue the RUN command. This command is allocated to PF11.

You can also issue the RUN command directly from the Layout Editor.

The Dynamic Input Value window appears:

15:16		***** Super Natural *****	1998-03-16
SAMPLE8		- Worksheet -	SN3011
Ref DB	Field Name	Seq	+-- Dynamic Input Value --+
AE 1K 2	START-DATE	L__	! Transaction: ISAMPLE8 !
AH 1K 2	END-DATE	L__	! !
AJ 1K	START-HARBOR	L__	! START1 .. _____ !
AU 1 2	BUNK-NUMBER	L__	! START2 .. _____ !
BE #	START1	L__	+-----+-----+

- Type "D" in the Start1 field.
- Type "F" in the Start2 field.

This will find start harbors which begin with Dor E. If there is a start harbor with the nameF, it will also be displayed.

- Press Enter.

The report is generated:

Run on 1998-03-17 at 11:45:03			
Start harbors D up to but not including F			
START-HARBOR	START-DATE	END-DATE	BUNK-NUMBER
-----	-----	-----	-----
DAKKAR	19910818	19910921	5
DUBROVNIK	19910406	19910419	7
EL SALVADOR	19920412	19920425	4
ELBA	19911012	19911025	6
ELBA	19910915	19910928	4
ELBA	19910907	19910920	6
ESPIRITO SANTO	19911020	19911109	5
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---			
Print Exit		Flip	+ Canc

```

Run on 1998-03-17 at 11:45:03

Start harbors D      up to but not including F

START-HARBOR      START-DATE  END-DATE  BUNK-NUMBER
-----
*** End of report ***

Number of records processed: = 7
    
```

7. Press Enter.

The Worksheet appears.

8. Press PF11

The Dynamic Input Value window appears.

9. Type "U" in the Start1 field.

10. Type "W" in the Start2 field.

11. Press Enter.

The report is generated:

```

Run on 1998-03-17 at 11:58:04

Start harbors U      up to but not including W

START-HARBOR      START-DATE  END-DATE  BUNK-NUMBER
-----
VALENCIA          19920516   19920529   4
VALENCIA          19911005   19911018   6
VILAMOURA        19920104   19920117   6
VILAMOURA        19920215   19920228   6
VILAMOURA        19920404   19920417   4
VIRGIN ISLANDS   19920405   19920418   6
VIRGIN ISLANDS   19920419   19920509   6
VIRGIN ISLANDS   19910209   19910223   6

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

```
Run on 1998-03-17 at 11:58:04

Start harbors U      up to but not including W

START-HARBOR      START-DATE  END-DATE  BUNK-NUMBER
-----
*** End of report ***

Number of records processed: = 8
```

Note:

Notice the new data in the title.

