

# Sample 5: Layout Editor

**Task: Copy and change the report SAMPLE4 as follows:**

- 1: Change the transaction modes for reporting.**
- 2: Add a preface.**
- 3: Underline the field headers.**
- 4: Add text explaining the data shown at the control break.**
- 5: Add grand total with explanatory text.**

This transaction takes the report SAMPLE4 and uses the Layout Editor to make it more understandable.

Line and field commands in the Layout Editor are shown using the period (.) as escape character. Use the escape character defined at your site. The escape character defined at your site is displayed in the delimiter information section of the Layout Editor.

## Transaction Specification

Primary File	SAG-TOURS-E-CRUISE
Display Fields	1: CRUISE-ID 2:START-HARBOR 3:DESTINATION-HARBOR 4:START-DATE
Selection Criteria	CHARTER-YACHT-TYPE = 'ATLANTIC 29'
Control Field	START-DATE
Special Break Conditions	First 'n' characters: 6
System Functions	Count CRUISE-ID Grand Total Count CRUISE-ID

This section covers the following topics:



Create the Transaction SAMPLE5

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## Create the Transaction SAMPLE5



### To Access the Transaction List Screen

- Issue the TRANSACTION command.

Or:

Select Transactions from the Main Menu.

Or:

If you are within a transaction, issue the EXIT or CANCEL commands until the Transaction List screen appears.



### To Copy Transaction SAMPLE4

1. Issue the COPY TRANSACTION SAMPLE4 command.

The Copy window appears.

2. Enter "SAMPLE5" in the Target Object window.

The transaction is copied to the name SAMPLE5 and appears in the Transaction List screen.

3. Enter "Layout Editor in the Description field" next to SAMPLE5 (optional).

#### **To Change Transaction Report Level and Destination**

1. Enter MO in the command column next to SAMPLE5.

The Worksheet appears.

2. Issue the MODES command.

The Transaction Modes Reporting window appears.

3. Enter "D" in the Report Level field.

4. Enter "S" in the Destination field.

5. Press Enter.

The Transaction Modes Reporting window closes.

#### **To Add Grand Total**

1. Enter "SF" in the Function (Func) column next to the field CRUISE-ID.

The Specify System Functions window appears.

2. Enter any non-blank character in the Cnt column next to Grand Control field.

#### **To Invoke NATURAL REPORT MANAGER**

- Issue the LAYOUT command. You can abbreviate this to LAY.

A default layout is generated from the transaction specification.

The Layout Overview screen appears:

```

15:20                               *** NATURAL REPORT MANAGER ***           1998-02-26
Layout LSAMPLE5                      - Layout Overview -                     NRMPAGE

+-----+
I              Title                  I
+-----+
+-----+
I              Header                 I
+-----+
+-----+
I              List                   I
I                                          I
+-----+
+-----+
I              Group                  I
I                                          I
I              1 10                   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
    
```

You are now using the product Natural Report Manager. The Title element contains the standard title for your site. The List element contains the fields you have selected to be displayed.

 **To Add Preface**

1. Issue the EDIT PREFACE command.

The Layout Editor appears. The editor area is empty.

2. Type text for a preface in the editor area as shown below:

Do not type in the first column of the editor area as this is reserved for delimiters.

```

17:16          *** NATURAL REPORT MANAGER ***          1998-02-26
Layout LSAMPLE5          - 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. = &
Top  ---010---+-----+-----030- ( Preface ) ---050---+-----+-----070--- Typ
                                          Pre
PREFACE
                                          Pre
This transaction uses data from the file SAG-TOURS-E-CRUISE. The
report shows cruise IDs, start harbor, destination harbor and
starting date for cruises which use yachts of type Atlantic 29.
The data is sorted according to cruise starting date.
At the end of each month, the number of cruises in that month is
shown. The total number of cruises is shown at the end of the
                                          Pre

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

```

Each text constant must be preceded by a delimiter of the class TEXT.  
The last word of the preface does not fit into the editor area shown.

- Issue the `..I` line command in the last line of text.

A line is inserted after the last line of text (you can not see it).

- Press PF8 to page forwards.
- Enter report as the last word of the preface.
- Press PF7 to page backwards.

The report requires that the word PREFACE be highlighted.

- If you have a delimiter for intensified text, type it before the word Preface.

The delimiter for intensified text in the example is `'_'`.

### To Center the Text

- Issue the `..C` line command in the same line as the word PREFACE.

The word PREFACE is centered.

- Issue the `..C*` line command in the next line of text.

The line is centered and all the lines below are moved the same distance to the right but are not centered.  
Because the Scan Right (>) function is available, you can see that the report is wider than the screen.

```

Top   ---010---+-----+-----030- ( Preface ) ---050---+-----+-----070--- Typ
                                           _PREFACE                               Pre
                                                                         Pre
This transaction uses data from the file SAG-TOURS-E-CRUISE. The   Pre
report shows cruise ID's, start harbor, destination harbor and   Pre
starting date for cruises which use yachts of type Atlantic 29.  Pre
The data is sorted according to cruise starting date.             Pre
At the end of each month, the number of cruises in that month is  Pre
shown. The total number of cruises is shown at the end of the    Pre

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

```

You now need to enter two lines of blanks at the end of the Preface. Because you are at the end of the editor area, you must first create the lines.

3. Issue the .R(2) line command at the beginning of the last line of text.

The last line of text is copied twice.

4. Overtyping the two new text lines with blanks.

### ▶ To Underline Header

1. Issue the EDIT HEADER command.

The Header element appears in the editor area. The Header element contains the headers currently defined for the output fields.

2. Type plus signs ("+") under the header fields.

### ▶ To Add Text Explaining the Data at Control Breaks

1. Issue the EDIT GROUP1 command.

The Group1 element appears in the editor area as follows:

```

All   ---010---+-----+-----030-- ( Group1 ) ---050---+-----+-----070--- Typ
** Control Break (1) **                                           G1_
  START-DATE : )S00000000                                         G1_
Cnt )S0000000                                                     G1_
                                                                G1_
                                                                ___
                                                                ___
                                                                ___
                                                                ___

You are on the first page.
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Set   Exit  Field Edit  Flip  -   +   Tech  <   >   Canc

```

The Group1 element contains the information displayed at the (first) control break.

2. Overtyping the line which contains the text "\*\*\* " Control Break (1) \*\*with blanks.
3. Typing the .M field command in the field )S00000000 next to the text START-DATE.
4. Positioning the cursor in the same line in column 050 (under 050 in the scale).
5. Pressing Enter.

The field is moved so it starts under the 050 in the scale.

6. Typing the .M field command in the field)S00000000next to the textCnt.
7. Positioning the cursor in the same line in column 050 (under 050 in the scale).
8. Pressing Enter.

The field is moved so it starts under the 050 in the scale.

9. Typing the .D field command in the fieldSTART-DATE.

The field is deleted.

10. Overtyping the colon (: ) with a blank.
11. Typing the text Last Starting Date: next to the first field)S00000000starting the text at column 019.
12. Typing the .D field command in the fieldCnt.

The field is deleted.

13. Typing the text Number of Cruises this Month: next to the second field )S00000000 starting the text at column 019.

The editor area now has the following contents:

```

All  ---010-----030-- ( Group1 ) ---050-----070--- Typ
                                Last starting date:   )S00000000   G1_
                                Number of Cruises this Month: )S00000000   G1_
                                _____
                                _____
                                _____
                                _____
                                _____
                                _____
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help Set  Exit  Field Edit  Flip  -  +  Tech  <  >  Canc
    
```

**To Add Text Explaining the Data at the Grand Total**

1. Issuing the EDIT GROUP10 command.

The Group10 element appears in the editor area as follows:

```

All   ---010---+-----+-----030- ( Group10 ) ---050---+-----+-----070--- Typ
** Grand Totals **                                     G10
Cnt )S00000000                                         G10
                                                         G10
                                                         ___
                                                         ___
                                                         ___
                                                         ___
                                                         ___

You are on the first page.
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Set   Exit Field Edit Flip -   +   Tech <   >   Canc

```

The Group10 element contains the information displayed at the Grand Total.

- Issue the .D line command in the line which contains \*\* Grand Totals \*\* .

The line is deleted.

- Type the .M field command in the field )S00000000 next to the text Cnt.

- Position the cursor in the same line at column 050.

- Press Enter.

The field is moved.

- Enter the .D field command in the fieldCnt.

The field is deleted.

- Enter the text Total Number of Cruises: next to the field )S00000000 starting the text at column 019 (overtyping the equals (=) sign).

```

All   ---010---+-----+-----030- ( Group10 ) ---050---+-----+-----070--- Typ
                Total Number of Cruises:      )S00000000   G10
                                                         G10
                                                         G10
                                                         ___
                                                         ___
                                                         ___
                                                         ___
                                                         ___

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

```

### To Test the Layout

- Issue the TEST command.



```

11:35          *** NATURAL REPORT MANAGER ***          1998-03-01
Layout LSAMPLE5          - Layout Overview -          NRMPAGE

+-----+-----+-----+-----+
I                      Title                      I
+-----+-----+-----+-----+
+-----+-----+-----+-----+
I          Preface          I I          Header          I
I                      I +-----+-----+
I                      I +-----+-----+
I                      I I          List          I
I                      I I          I          I
I                      I +-----+-----+
I                      I +-----+-----+
I                      I I          Group          I
I                      I I          I          I
I                      I I          1 10          I
I                      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
    
```

The preface element you have created is now shown.

2. Press PF8.

The Worksheet appears:

```

11:36          ***** Super Natural *****          1998-03-01
SAMPLE5          - Worksheet -          SN3011

Ref DB      Field Name          Seq   S/C  Func Def  Info Del
AA 1K      CRUISE-ID .....          L_   ___  >_  ___  ___
AE 1K 2     START-DATE .....          L_   C1_  >_  ___  ___
AJ 1K      START-HARBOR .....          L_   ___  ___  ___  ___
AK 1K      DESTINATION-HARBOR .....          L_   ___  ___  ___  ___
AP 1 2     CHARTER-YACHT-TYPE .....          ___  ___  ___  ___  ___
BI  V      *TIMX .....          L_   ___  ___  ___  ___
BJ  V      *DATX .....          L_   ___  ___  ___  ___
BK  V      *PROGRAM .....          L_   ___  ___  ___  ___
BL  V      *PAGE-NUMBER .....          L_   ___  ___  ___  ___
BM          _____          ___  ___  ___  ___  ___
BN          _____          ___  ___  ___  ___  ___
BO          _____          ___  ___  ___  ___  ___
BP          _____          ___  ___  ___  ___  ___
BQ          _____          ___  ___  ___  ___  ___

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
    
```

There is an "L" in the Sequence (Seq) column next to fields used in layout elements. You can not use the Sequence (Seq) column for these fields until you have deleted them from the layout element. The system variables which are part of the standard title (\*TIMX, \*DATX,\*PROGRAM and \*PAGE-NUMBER) appear in the Field Name column and are marked with V in the Database Reference (DB)

column.

**To Run the Transaction**

- Issue the RUN command. In Natural Report Manager, the RUN command is not assigned to PF11.

The report is generated. Some screens from the report are shown below:

```

17:50:22  CHARTER-YACHT-TYPE = 'ATLANTIC 29'                1998-02-26
ISAMPLE5                                           1

                                PREFACE

This transaction uses data from the file SAG-TOURS-E-CRUISE. The
report shows cruise ID's, start harbor, destination harbor and
starting date for cruises which use yachts of type Atlantic 29.
The data is sorted according to cruise starting date.
At the end of each month, the number of cruises in that month is
shown. The total number of cruises is shown at the end of the
report.

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

```

14:28:26  CHARTER-YACHT-TYPE = 'ATLANTIC 29'                1998-03-01
ISAMPLE5                                           2

    CRUISE-ID      START-HARBOR      DESTINATION-HARBOR  START-DATE
    ++++++      ++++++      ++++++      ++++++

          79 KIEL                KIEL                19910330
          92 KIEL                KIEL                19910330
         106 KIEL                KIEL                19910330

                Last starting date:                19910330
                Number of Cruises this Month:        3

          80 KIEL                KIEL                19910406
         107 KIEL                KIEL                19910413

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

```
17:51:14 CHARTER-YACHT-TYPE = 'ATLANTIC 29' 1998-02-26
ISAMPLE5 9

CRUISE-ID      START-HARBOR      DESTINATION-HARBOR  START-DATE
+++++++      ++++++          ++++++          ++++++

Last starting date: 19911026

Number of Cruises this Month: 4

Total Number of Cruises: 41

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

