

CASE 2: FORM CREATION

Create an ABAP program that will generate a FORM. Create a transaction code to call your custom report.

First, We created a Data Structure on SE11 for our Data elements

The screenshot shows the SE11 Data Structure definition for ZSSPFLI. The structure is active and has a short description of 'Structure'. The 'Components' tab is selected, showing a table with two components: CARRID and CONNID.

Component	Typing Method	Component Type	Data Type	Length	Decim...	Coordinate	Short Description
CARRID	Types	S_CARR_ID	CHAR	3	0	0	Airline Code
CONNID	Types	S_CONN_ID	NUMC	4	0	0	Flight Connection Number

We also created a Table Type based on the Structure we have created

The screenshot shows the SE11 Table Type definition for ZIT_SPFLI. The table type is active and has a short text of 'Internal Table SPFLI'. The 'Line Type' tab is selected, showing the line type ZSSPFLI.

☒ Line Type: ZSSPFLI

☐ Built-in type

☐ Reference type

☐ Reference to built-in type

Next, we go to SMARTFORMS, first create a style for our form.

Paragraph Format **P1**

Description

Indents and Spacing **Font** Tabs Numbering and Outline

Font Family: **COURIER** Courier

Font Size: **16.0** pt

Font Style:

☐ Underlined

☒ Color

After that we will create our Forms, after the creation I headed at the Form Interface to call the Table we have created

Form **ZCASE2FORM** Active

Description: **New Form**

Import Export **Tables** Exceptions

Parameter Name	Type Assignment	Associated Type
T_SPFLI	TYPE	ZIT_SPFLI

Then in Form Attributes to put the Style we created

Form **ZCASE2FORM** Active

Description: **New Form**

General Attributes **Form Attributes** Output Options

Page Format: **DINA4**

Characters per Inch: **10.00**

Lines per Inch: **6.00**

Style: **Z_MSTYLE**

And we go to the Global Definition on Global Data Tab to declare our structure

Form

ZCASE2FORM

Global Settings

Form Attributes

Form Interface

Global Definitions

Pages and Windows

PAGE1 My page 1

HEADER head

TEXT1 New Text 1

GRAPHIC1 Logo

Form

ZCASE2FORM

Active

Description

New Form

Global Data

Types

Field Symbols

Initialization

Form Routines

Currency/Quant. Fields

Variable Name

Typing

Associated Type

Default Value

LS_SPFLI

TYPE

ZSSPFLI

Next, we created a window and call it a header and put a text on it.

Form

ZCASE2FORM

Global Settings

Form Attributes

Form Interface

Global Definitions

Pages and Windows

PAGE1 My page 1

HEADER head

TEXT1 New Text 1

GRAPHIC1 Logo

MAIN Main Window

TAB1 F1 snfli

Text

TEXT1

Description

New Text 1

General Attributes

Web Properties

Output Options

Conditions

Text Type

Text Element

Start

New Paragraph

Paragraph Formats

P1

Character Formats

C1 CHAR F

Format	Left Margin	Row Text
	1.....2.....3.....4.....5.....
P1		This is a Demo Form Creation
P1		From SPFLI Table

We also created a graphics and call it a Logo and put it on the upper right side.

Form

ZCASE2FORM

Global Settings

Form Attributes

Form Interface

Global Definitions

Pages and Windows

PAGE1 My page 1

HEADER head

TEXT1 New Text 1

GRAPHIC1 Logo

MAIN Main Window

TAB1 F1 snfli

Graphic

GRAPHIC1

Description

Logo

General Attributes

Output Options

Conditions

Name

ESTIV

Object

GRAPHICS

ID

BMAP

Black and White Bitmap Image (BMON)

Color Bitmap Image (BCOL)

Define dynamically (BMON, BCOL)

Technical Attributes

Resolution

DPI

HEADER

MAIN

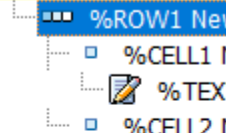


Table Editor

- Header
 - %ROW1 New Row 1
 - %CELL1 New Column 1
 - %TEXT1 New Text 1
 - %CELL2 New Column 2
 - %TEXT2 New Text 2
- Main Area
 - %ROW2 New Row 2
 - %CELL3 New Column 3
 - %TEXT3 New Text 3
 - %CELL4 New Column 4
 - %TEXT4 New Text 4

Format	Left Margin	Row Text
	1.....2.....3.....4.....5.....
P1		&LS_SPFLI-CARRID&

Format	Left Margin	Row Text
	1.....2.....3.....4.....5.....
P1		&LS_SPFLI-CONNID&

Then we will go to our sap easy access again and go to se38 to create a driver program for our form.

```
6      REPORT Z_CALL_SFS.
7
8      TABLES SPFLI.
9
10     DATA: LT_SPFLI TYPE ZIT_SPFLI.
11
12
13
14     ☐ SELECTION-SCREEN: BEGIN OF BLOCK one WITH FRAME TITLE text-001.
15     SELECT-OPTIONS: S_CARRID FOR SPFLI-CARRID,
16                     S_CONNID FOR SPFLI-CONNID.
17     SELECTION-SCREEN: END OF BLOCK one.
18
19     START-OF-SELECTION.
20
21     SELECT
22         CARRID
23         CONNID
24         COUNTRYFR
25         CITYFROM
26         AIRPFROM
27         COUNTRYTO
28         FLTIME
29         DEPTIME
30         ARRTIME
31     FROM SPFLI
32     INTO TABLE LT_SPFLI
33     WHERE CARRID IN s_carrid AND CONNID IN s_connid.
34
```

First, we declare the table that we are going to use

Next, is the data from the table we have created

Then, the input parameter

And the Selection for the data retrieval

Then we will click on pattern, and call function of the form we have just created.

Select Pattern

Statements

☒ CALL FUNCTION

☐ ABAP Objects Patterns

☐ MESSAGE

Class

Type

Number

☐ SELECT FROM

☐ PERFORM

☐ AUTHORITY CHECK

On The tables section, we will put the data we have declare on the DATA above

```

1
2
3 CALL FUNCTION '/1BCDWB/SF000000026'
4
5 * EXPORTING
6
7 *   ARCHIVE_INDEX           =
8 *   ARCHIVE_INDEX_TAB      =
9 *   ARCHIVE_PARAMETERS     =
10 *   CONTROL_PARAMETERS     =
11 *   MAIL_APPL_OBJ          =
12 *   MAIL_RECIPIENT         =
13 *   MAIL_SENDER            =
14 *   OUTPUT_OPTIONS         =
15 *   USER_SETTINGS          = 'X'
16 * IMPORTING
17 *   DOCUMENT_OUTPUT_INFO   =
18 *   JOB_OUTPUT_INFO        =
19 *   JOB_OUTPUT_OPTIONS     =
20
21 TABLES
22   t_spfli                  = LT_SPFLI
23
24 * EXCEPTIONS
25 *   FORMATTING_ERROR       = 1
26 *   INTERNAL_ERROR         = 2
27 *   SEND_ERROR             = 3
28 *   USER_CANCELED          = 4
29 *   OTHERS                 = 5
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```

We will click save and activate, and now we can execute

The screenshot shows the 'Smart Forms' application window. The title bar reads 'Smart Forms'. The menu bar includes 'Program', 'Edit', 'Goto', 'System', and 'Help'. The toolbar contains various icons for saving, undo, redo, and other functions. Below the toolbar, there is a status bar with a green arrow icon. The main area displays a form with two rows: 'Airline' with a dropdown menu showing 'AA' and a 'to' field with 'AA', and 'Connection Number' with a text box containing '17' and a 'to' field with '64'. There are yellow arrow icons to the right of the 'to' fields.

And select an output device for printing

The screenshot shows the 'Print' dialog box. The title bar reads 'Print:'. The 'Output Device' field contains 'zlocalprinter'. The 'Page selection' field is empty. Below this, there is a 'Spool Request' section with fields for 'Name' (containing 'SMART' and 'ABAPUSER01'), 'Title', and 'Authorization'. The 'Spool Control' section has checkboxes for 'Print Now', 'Delete After Output', 'New Spool Request', and 'Close Spool Request'. The 'Spool Retention' field is set to '8 Day(s)' and the 'Storage Mode' is set to 'Print only'. The 'Number of Copies' section has a 'Number' field set to '1' and a checkbox for 'Group (1-1-1,2-2-2,3-3-3,...)'. The 'Cover Page Settings' section has a dropdown for 'SAP cover page' set to 'Do not print', and fields for 'Recipient' and 'Department'. At the bottom, there are buttons for 'Print preview', 'Print', and a red 'X' icon.

As we can see there are no data transferred to the form because there are no demo data on the SPFLI table



This is a Demo Form Creation
From SPFLI Table

CARRIER	CONNECTION	COUNTRY	DEPARTURE	DEPARTURE	COUNTRY	FLIGHT	DEPARTURE	ARRIVAL
ID	ID	KEY	CITY	AIRPORT	TO	TIME	TIME	TIME
AA	0064	US	SAN	SFO	US	5:21	09:00:00	17:21:00
			FRANCISCO					