

# Dynamic Table Display - Using BSP Application

## Applies To

SAP 4.7 BSP Applications

## Summary

This code sample is to dynamically display tables from SAP Data Dictionary in IE using BSP application. Any table from SAP R/3 can be displayed directly just by specifying the table name.

Specific records from a table can be viewed using Filter option.

This code explains how to display data from any table specified by creating field catalog and internal table dynamically.

Tables are displayed using TableView element in BSP Application.

**Author(s):** Immanuel Daniel

**Company:** Wipro Technologies Ltd.

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## Author Bio

Immanuel Daniel is working with Wipro Technologies as ABAP Consultant. Has about 1 ½ yrs of experience in ABAP.

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## Technical Description

This BSP application is constructed with two pages of type 'Page with Flow Logic'.

Here, the names of the two pages are INDEX.HTM and TABDISPLAY.HTM

In the 'Navigation' declaration part of the BSP Application, navigation from INDEX page to TABDISPLAY page. (Here navigation request is 'TOTABLE'.)

The index page consists of an input field to supply the table name that has to be displayed and a 'Submit' button. The value in the input field is stored in variable, should be defined as a page attribute.

Here, page attribute with name 'tablename' is added as type string.

In the event handler portion of this page the event 'OnInputProcessing' is handled to set the parameter 'tablename' and then to navigate to next page 'TABDISPLAY.HTM'.

The second page is 'TABDISPLAY.HTM'. This page displays the data from the table specified in a tableview element in multiple slots.

This page contains code that provides the flexibility of viewing any table directly.

The tableview has been defined to include filter option using which records with specific data can be filtered any viewed.

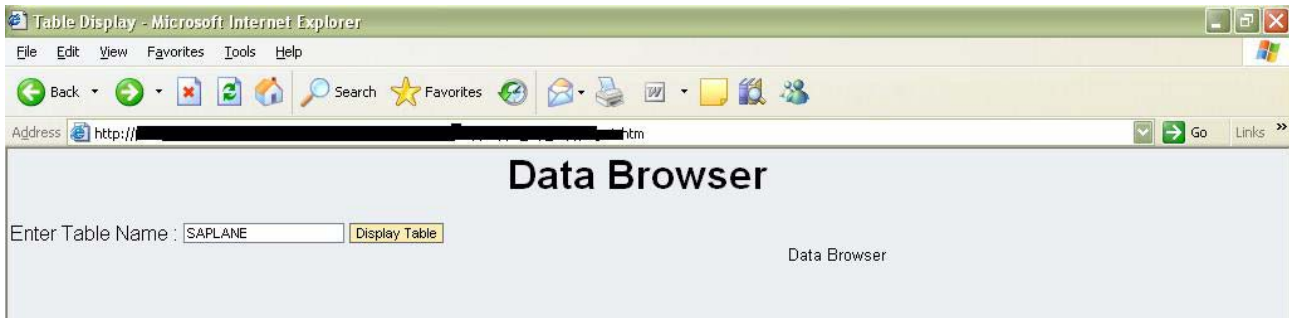
In event handler portion of this page, the event "OnInputProcessing" is handled to pass the events to the server.

The internal table to store the data fetched from the SAP Table specified is created dynamically.

Both the pages of this BSP application are of Page Type "Page with Flow Logic".

## Screen Shots

### Enter Table Name



### Table Display

The screenshot shows a web browser window titled 'Table Display - Microsoft Internet Explorer'. The main content area displays a table titled 'SAPLANE'. The table has the following columns: CIt, Plane, Capacity in economy class, Average consumption in, Max. fuel in, Weight in, Span, In Length in, Speed in, Manu., Capacity business class, and Capacity in first cl. The table contains 20 rows of data for various aircraft models.

CIt	Plane	Capacity in economy class	Average consumption in	Max. fuel in	Weight in	Span	In Length in	Speed in	Manu.	Capacity business class	Capacity in first cl
100	146-200	112	1,672.000	KGH 0.0000 L	24,320.0000 KG	26.340	M 28.550	M 361.0000	KT BA		0
100	146-300	128	1,724.000	KGH 12,901.0000 L	25,458.0000 KG	26.340	M 30.990	M 305.0000	KT BA		0
100	727-200	189	4,309.000	KGH 0.0000 L	46,164.0000 KG	32.900	M 46.700	M 467.0000	KT BOE		0
100	737-200	130	2,327.000	KGH 22,598.0000 L	27,520.0000 KG	28.300	M 30.530	M 350.0000	KT BOE		0
100	747-200F	0	10,700.000	KGH 0.0000 L	155,130.0000 KG	59.600	M 70.700	M 484.0000	KT BOE		0
100	747-400	660	9,950.000	KGH 0.0000 L	177,670.0000 KG	64.300	M 70.700	M 490.0000	KT BOE		0
100	757F	239	3,470.000	KGH 42,320.0000 L	57,067.0000 KG	38.050	M 47.320	M 350.0000	KT BOE		0
100	767-200ER	290	3,770.000	KGH 0.0000 L	82,282.0000 KG	47.570	M 48.510	M 459.0000	KT BOE		0
100	767-300	345	3,869.000	KGH 0.0000 L	86,455.0000 KG	47.570	M 53.670	M 460.0000	KT BOE		0
100	A310-200	280	3,770.000	KGH 0.0000 L	79,450.0000 KG	43.900	M 46.660	M 459.0000	KT A		0
100	A310-300	280	3,730.000	KGH 0.0000 L	79,666.0000 KG	43.900	M 46.660	M 458.0000	KT A		0
100	A319	220	2,520.000	KGH 0.0000 L	46,600.0000 KG	34.100	M 44.510	M 453.0000	KT A		0
100	A321	220	2,520.000	KGH 0.0000 L	46,600.0000 KG	34.100	M 44.510	M 453.0000	KT A		0
100	A330-300	440	4,800.000	KGH 0.0000 L	117,800.0000 KG	60.300	M 63.700	M 465.0000	KT A		0
100	DC-10-10	380	6,920.000	KGH 100,561.0000 L	110,223.0000 KG	47.340	M 55.550	M 400.0000	KT DC		0
100	DC-8-72	201	0.000	KGH 0.0000 L	68,800.0000 KG	45.300	M 48.000	M 0.0000	KT DC		0
100	FOKKER 100	107	1,683.000	KGH 0.0000 L	24,727.0000 KG	28.080	M 35.530	M 408.0000	KT FOK		0
100	FOKKER 70	79	1,475.000	KGH 0.0000 L	22,784.0000 KG	28.080	M 30.910	M 1,475.0000	KT FOK		0
100	L-100-30	97	1,900.000	KGH 36,622.0000 L	34,620.0000 KG	40.410	M 34.360	M 250.0000	KT LOC		0
100	L-1011-100	400	6,895.000	KGH 100,000.0000 L	111,795.0000 KG	47.350	M 54.200	M 375.0000	KT LOC		0

## Filtering Data

The screenshot shows a web browser window titled 'Table Display - Microsoft Internet Explorer'. The address bar is redacted. The main content area displays a table with the following data:

SAPLANE																		
Ct	Plane	Capacity in economy class	Average consumption	in	Max. fuel	in	Weight	in	Span	In	Length	In	Speed	In	Manu.	Capacity business class	Capacity in first class	
100	A310-200	280	3,770.000		KGH	0.0000	L	79,450.0000	KG	43.900	M	46.660	M	459.0000	KT	A	0	0
100	A310-300	280	3,730.000		KGH	0.0000	L	79,666.0000	KG	43.900	M	46.660	M	458.0000	KT	A	0	0
100	A319	220	2,520.000		KGH	0.0000	L	46,600.0000	KG	34.100	M	44.510	M	453.0000	KT	A	0	0
100	A321	220	2,520.000		KGH	0.0000	L	46,600.0000	KG	34.100	M	44.510	M	453.0000	KT	A	0	0
100	A330-300	440	4,800.000		KGH	0.0000	L	117,800.0000	KG	60.300	M	63.700	M	465.0000	KT	A	0	0

At the bottom right of the table area, there is a page indicator '1/1'.

Here the table 'SAPLANE' is displayed. Similarly any table can be displayed directly without changing the below code.

## Application Code

### INDEX.HTM

#### Layout

```

<%@page language="abap" %>
<%@extension name="htmlb" prefix="htmlb" %>
<htmlb:content design="design2003" >
  <htmlb:page title="Table Display" >
    <htmlb:form>

      <html>
        <h1><center>Table Browser</center></h1>
        Enter Table Name:
        <htmlb:inputField id          = "TABNAME"
                        description = "Table Name"
                        required    = "TRUE"
                        value       = "MARA"
                        submitOnEnter = "TRUE"
                        doValidate  = "X"
                        showHelp    = "TRUE"
                        tooltip     = "Table Name" />
        <htmlb:button id      = "submit"
                    text     = "Display Table"
                    tooltip  = "Display Table"
                    onClick  = "OnInputProcessing" />
        <marquee><font size = 2>Table Browser</font></marquee>
      </html>
    </htmlb:form>

  </htmlb:page>
</htmlb:content>

```

#### Event Handler

##### OnInputProcessing

\* event handler for checking and processing user input and  
\* for defining navigation

```

class cl_htmlb_manager definition load.
data: event type ref to cl_htmlb_event,
      inputfield type ref to cl_htmlb_manager.

event ?= cl_htmlb_manager=>get_event( runtime->server->request ).

navigation->set_parameter( 'tablename' ).
navigation->next_page( 'totable' ).

```

#### Page Attributes

tablename type string

**TABDISPLAY.HTM****Layout**

```

<%@page language="abap" %>
<%@extension name="htmlb" prefix="htmlb" %>
<html>
<htmlb:content design="design2002" >
  <htmlb:page title="Table Display" >
    <htmlb:form>
      <head>
        <title>
          <%= tabname %>
        </title>
      </head>
      <body>
        <%
data : dref type ref to data,
it_grid_fcat type table of lvc_s_fcat ,
struct_grid_lset type lvc_s_layo,
tab_info type table of dfies,
str type string,
n_lines type i,
n_fields type i,
n type i,
fn type i.
field-symbols :
<fs_tab> like line of tab_info,
<it_disptab> type table,
<wa_disptab> type any,
<FS_OUTTAB1> type Any,
<val> type any.
%>
        <%
call function 'LVC_FIELDCATALOG_MERGE'
exporting
i_structure_name = tabname
changing
ct_fieldcat      = it_grid_fcat[].
%>
        <%
call method cl_alv_table_create=>create_dynamic_table
exporting
it_fieldcatalog      = it_grid_fcat
importing
ep_table              = dref.
assign dref->* to <it_disptab> .
select * from (tabname) into corresponding fields of table <it_disptab> up to 250 rows.
%>
        <htmlb:tableView id          = "TABLE"
                        table        = "<%= <it_disptab> %>"
                        design        = "TRANSPARENT"
                        width         = "100%"
                        headerVisible = "TRUE"
                        filter        = "SERVER"
                        onFilter       = "MyFilter"
                        visibleRowCount = "20"
                        allRowsEditable = "TRUE"
                        fillUpEmptyRows = "TRUE"
                        tableLayout   = "AUTO"
                        headerText    = "<%= tabname %>"
                        selectionMode = "LINEEDIT"
                        onRowSelection = "MyRowSelection">
        </htmlb:tableView>

```

```

        </body>
    </htmlb:form>
</htmlb:page>
</htmlb:content>
</html>

```

## Event Handler

### OnInputProcessing

```

* event handler for checking and processing user input and
* for defining navigation
IF event_id = cl_htmlb_manager=>event_id.
* Scenario 1: Read event from manager.
  DATA: event TYPE REF TO cl_htmlb_event.
  event = cl_htmlb_manager=>get_event( runtime->server->request ).

  IF event IS NOT INITIAL AND event->name = htmlb_events=>tableview.
    DATA: tableview_event TYPE REF TO cl_htmlb_event_tableview.
    tableview_event ?= event.
  ENDIF.
ENDIF.

```

### Page Attributes

```

it_mara TYPE T_MARA
tablename TYPE DFIES-TABNAME
value TYPE STRING
wa_grid_fcat TYPE LVC_S_FCAT

```

### Type Definitions

```

types : t_mara type table of mara.

```

### BSP Application – Navigation

Start	Navigation Request	Target
index.htm	TOTABLE	table.htm



## Related Content

1. [SAP Library - Business Server Pages](#)
2. [ABAP Code Sample for Data Browser Using ALV Grid](#)

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