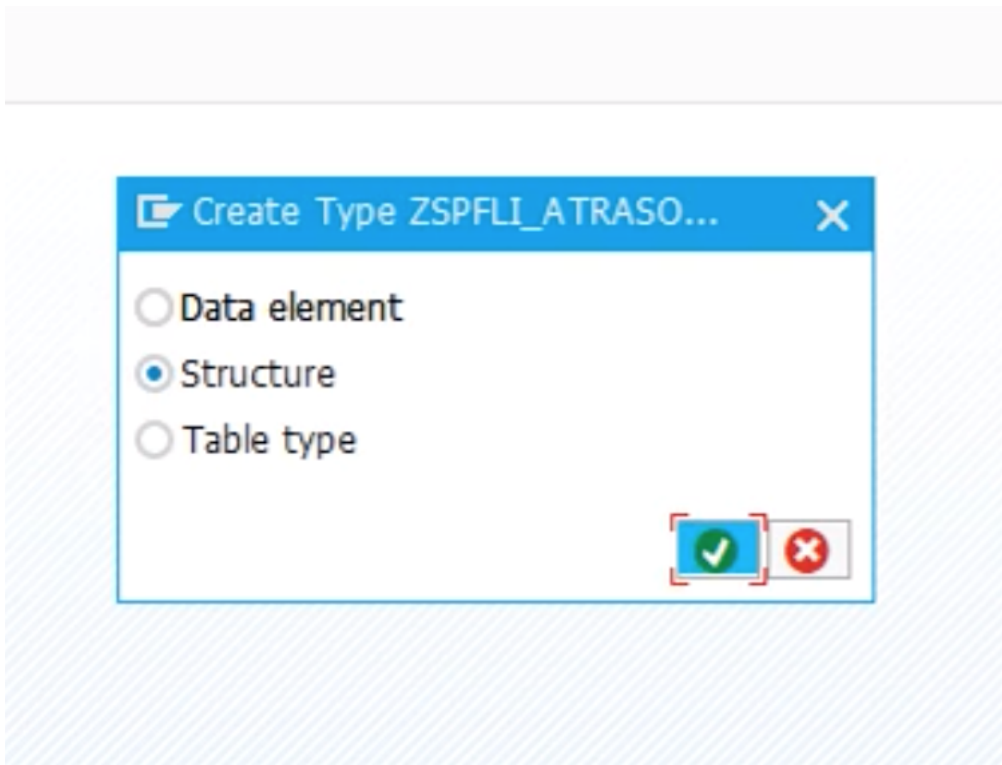


Faça o que eu fiz na aula

Vamos criar uma view, para isso vamos navegar para a transação **SE11**. Então vamos selecionar a opção **Data type** e, como sugestão de nome, vamos inserir `ZSPFLI_ATRASOS_ESTRUTURA`. Após isso podemos clicar no botão **Create**.

The screenshot shows the 'ABAP Dictionary: Initial Screen' in SAP. The interface includes a menu bar (Dictionary Object, Edit, Goto, Utilities, Environment, System, Help) and a toolbar with various icons. Below the title bar, there are several icons for object types. The main area contains radio buttons for 'Database table', 'View', 'Data type', 'Type Group', 'Domain', 'Search help', and 'Lock object'. The 'Data type' option is selected, and the text field next to it contains 'ZSPFLI_ATRASOS_ESTRUTURA'. At the bottom, there are three buttons: 'Display', 'Change', and 'Create'.

Após clicar no botão **Create** um popup será apresentado perguntando que **Data type** desejamos criar. Vamos selecionar a opção **Structure** e então podemos confirmar.



Vamos criar uma estrutura que possua campos da tabela **SPFLI** e da tabela **ZSPFLI_ATRASOS**.

Dictionary: Change Structure

Structure: **ZSPFLI_ATRASOS_ESTRUTURA** New

Short Description: Estrutura para o relatório de controle de voo

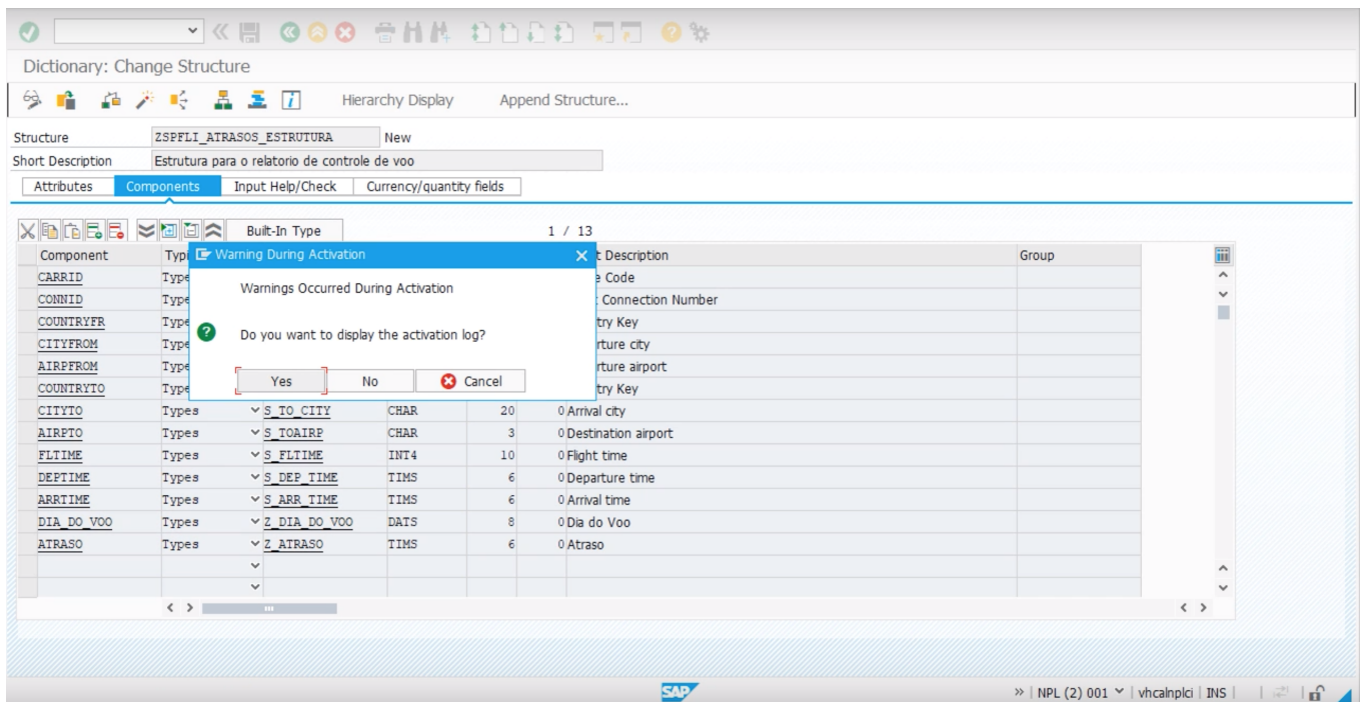
Attributes Components Input Help/Check Currency/quantity fields

Built-In Type 1 / 13

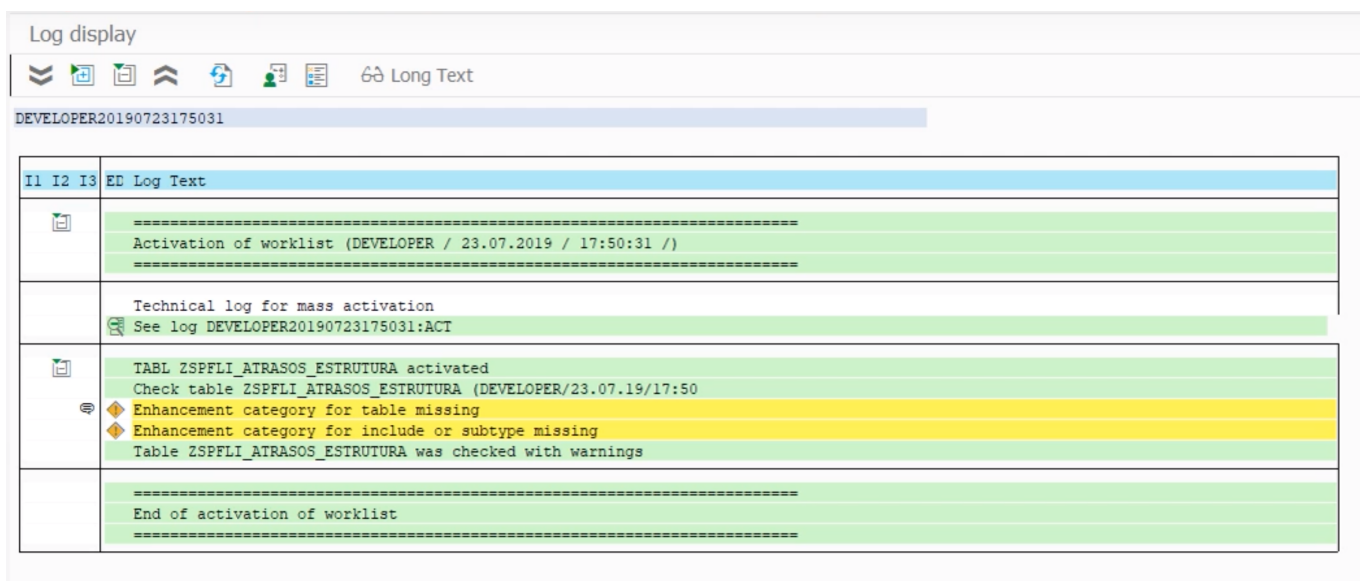
Component	Typing Method	Component Type	Data Type	Length	Deci...	Short Description	Group
CARRID	Types	S_CARR_ID	CHAR	3		0 Airline Code	
CONNID	Types	S_CONN_ID	NUMC	4		0 Flight Connection Number	
COUNTRYFR	Types	LAND1	CHAR	3		0 Country Key	
CITYFROM	Types	S_FROM_CIT	CHAR	20		0 Departure city	
AIRPFROM	Types	S_FROMAIRP	CHAR	3		0 Departure airport	
COUNTRYTO	Types	LAND1	CHAR	3		0 Country Key	
CITYTO	Types	S_TO_CITY	CHAR	20		0 Arrival city	
AIRPTO	Types	S_TOAIRP	CHAR	3		0 Destination airport	
FLTIME	Types	S_FLTIME	INT4	10		0 Flight time	
DEPTIME	Types	S_DEP_TIME	TIMS	6		0 Departure time	
ARRTIME	Types	S_ARR_TIME	TIMS	6		0 Arrival time	
DIA_DO_VOO	Types	Z_DIA_DO_VOO	DATS	8		0 Dia do Voo	
ATRASO	Types	Z_ATRASO	TIMS	6		0 Atraso	

SAP >> | NPL (2) 001 | vhcshplci | INS |

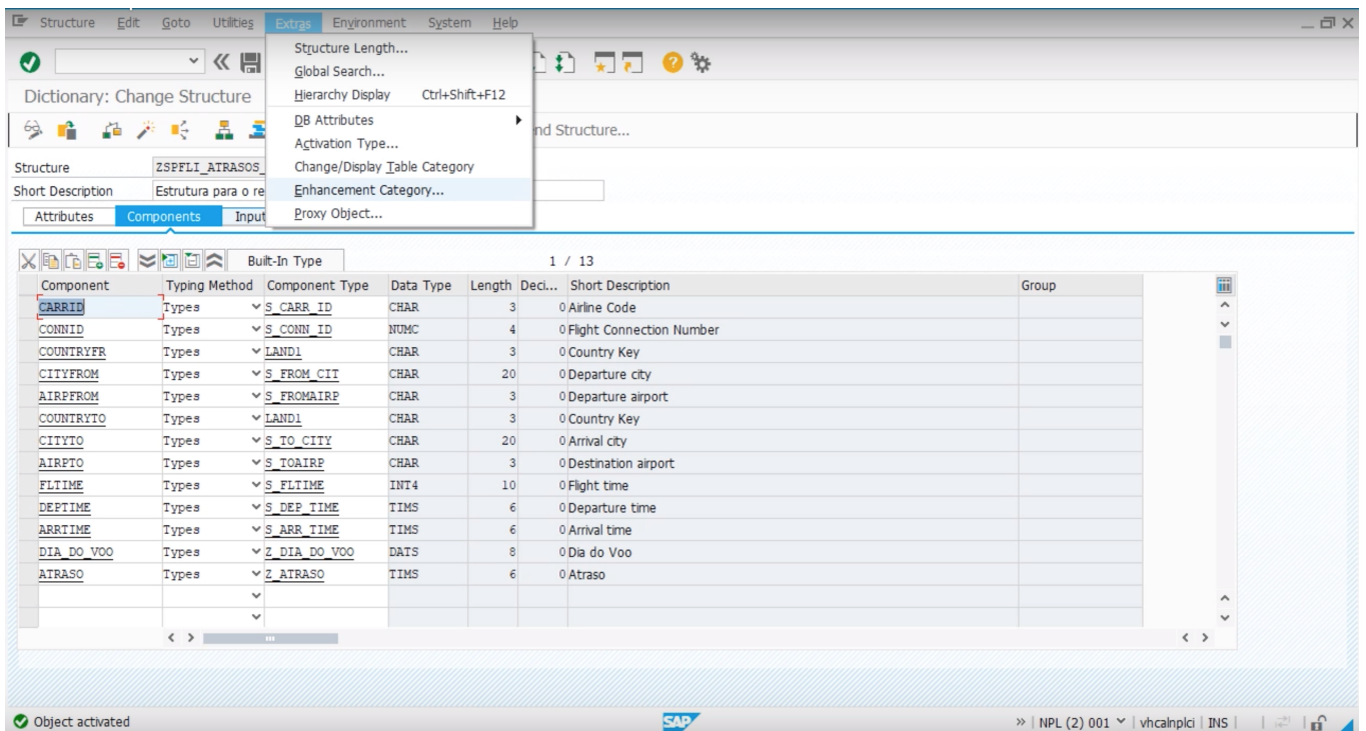
Durante a ativação da nossa view recebemos uma mensagem informando que a nossa estrutura foi ativada, entretanto, com avisos. Vamos então verificar quais são os avisos que precisamos tratar.



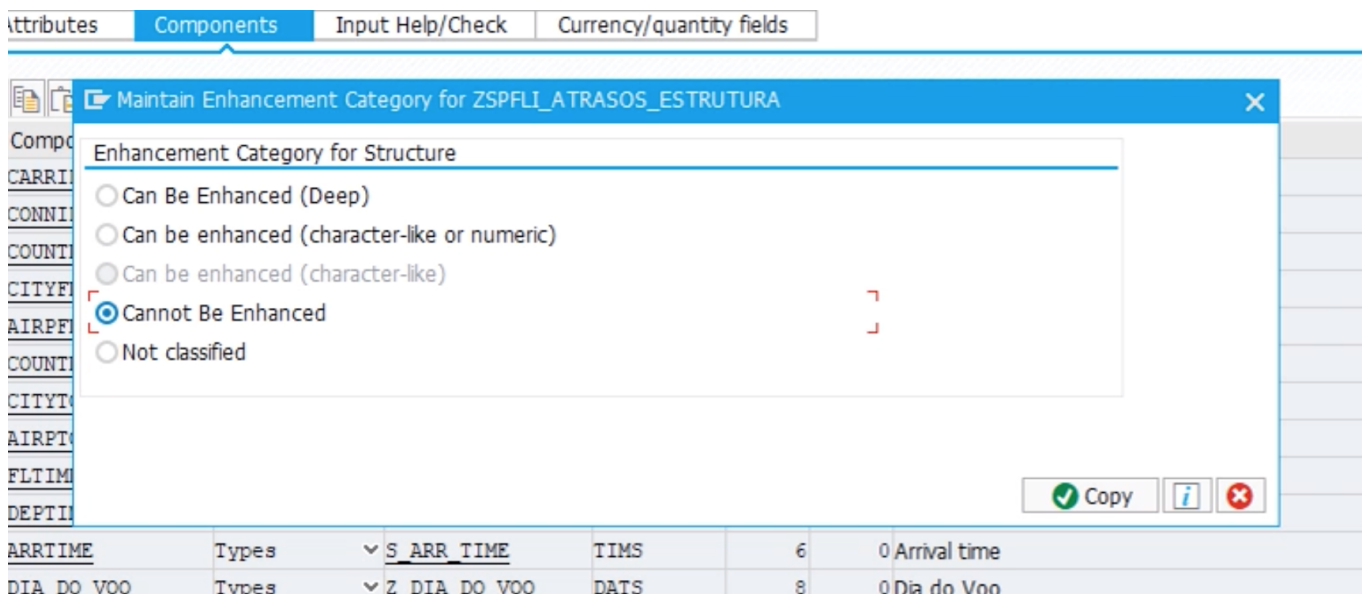
Novamente temos avisos referente ao **Enhancement Category**. Vamos acessar a barra de menu e navegar em **Extras > Enhancement Category**.



Um popup será exibido, e então selecionamos a opção **Cannot Be Enhanced**.



Após a configuração feita, podemos ativar novamente a nossa view e então teremos apenas a mensagem de sucesso no rodapé, informando que o objeto foi ativado com sucesso.



Com a view criada vamos voltar ao nosso código e alterar o nosso select. Para isso, vamos atualizar o nosso código com o seguinte:

Dictionary: Change Structure

Structure: ZSPFLI_ATRASOS_ESTRUTURA Active

Short Description: Estrutura para o relatório de controle de voo

Attributes Components Input Help/Check Currency/quantity fields

Component	Typing Method	Component Type	Data Type	Length	Decl...	Short Description	Group
CARRID	Types	S_CARR_ID	CHAR	3		0 Airline Code	
CONNID	Types	S_CONN_ID	NUMC	4		0 Flight Connection Number	
COUNTRYFR	Types	LAND1	CHAR	3		0 Country Key	
CITYFROM	Types	S_FROM_CIT	CHAR	20		0 Departure city	
AIRPFROM	Types	S_FROMAIRP	CHAR	3		0 Departure airport	
COUNTRYTO	Types	LAND1	CHAR	3		0 Country Key	
CITYTO	Types	S_TO_CITY	CHAR	20		0 Arrival city	
AIRPTO	Types	S_TOAIRP	CHAR	3		0 Destination airport	
FLTIME	Types	S_FLTIME	INT4	10		0 Flight time	
DEPTIME	Types	S_DEP_TIME	TIMS	6		0 Departure time	
ARRTIME	Types	S_ARR_TIME	TIMS	6		0 Arrival time	
DIA_DO_VOVO	Types	Z_DIA_DO_VOVO	DATS	8		0 Dia do Voo	
ATRASO	Types	Z_ATRASO	TIMS	6		0 Atraso	

Object saved and activated

Código completo

```

PROGRAM z_controle_de_voos.

INCLUDE z_controle_de_voos_declaracoes.
INCLUDE z_controle_de_voos_selecao.
INCLUDE z_controle_de_voos_pbo.
INCLUDE z_controle_de_voos_pai.

*&-----*
*& Include          Z_CONTROLE_DE_VOOS_DECLARACOES
*&-----*

TABLES zspfli_atrasos .

DATA spfli TYPE spfli .

DATA: custom_container TYPE REF TO cl_gui_custom_container,
      alv              TYPE REF TO cl_gui_alv_grid,
      fieldcat          TYPE lvc_t_fcat.

DATA relatorio_atrasos TYPE STANDARD TABLE OF zspfli_atrasos_estrutura .

*&-----*
*& Include          Z_CONTROLE_DE_VOOS_SELECAO
*&-----*

SELECTION-SCREEN: BEGIN OF SCREEN 9999 AS SUBSCREEN .
SELECTION-SCREEN: BEGIN OF BLOCK bloco1 WITH FRAME TITLE TEXT-001 .

SELECT-OPTIONS s_carrid FOR spfli-carrid NO INTERVALS.
SELECT-OPTIONS s_connid FOR spfli-connid NO INTERVALS.
SELECT-OPTIONS s_cityfr FOR spfli-cityfrom NO INTERVALS.
SELECT-OPTIONS s_cityto FOR spfli-cityto NO INTERVALS.

```

SELECTION-SCREEN: END OF BLOCK bloco1.

SELECTION-SCREEN: END OF SCREEN 9999 .

```
*&-----*
*& Include      Z_CONTROLE_DE_VOOS_PBO
*&-----*
```

MODULE pbo OUTPUT.

DATA coluna LIKE LINE OF fieldcat .

SET PF-STATUS '1000'.

IF custom_container IS NOT BOUND .

```
CREATE OBJECT custom_container
EXPORTING
  container_name = 'CC_ALV'.
```

```
CREATE OBJECT alv
EXPORTING
  i_parent = custom_container.
```

```
CALL FUNCTION 'LVC_FIELDCATALOG_MERGE'
EXPORTING
  i_structure_name = 'ZSPFLI_ATRASOS_ESTRUTURA'
CHANGING
  ct_fieldcat      = fieldcat.
```

```
CALL METHOD alv->set_table_for_first_display
CHANGING
  it_outtab      = relatorio_atrasos      " Output Table
  it_fieldcatalog = fieldcat.             " Field Catalog
```

ENDIF .

CALL METHOD alv->refresh_table_display() .

ENDMODULE.

```
*&-----*
*& Include      Z_CONTROLE_DE_VOOS_PAI
*&-----*
```

MODULE pai INPUT.

CASE sy-ucomm.

WHEN 'VOLTAR' OR 'CANCELAR' OR 'SAIR'.

LEAVE PROGRAM.

WHEN 'EXEC'.

```
IF zspfli_atrasos-dia_do_voo IS INITIAL .
```

```
    SELECT carrid, connid, countryfr,
           cityfrom, airpfrom, countryto,
           cityto, airpto, spfli~fltime, deptime,
           arrtime
```

```
    FROM spfli
    INTO TABLE @relatorio_atrasos
    WHERE carrid IN @s_carrid
           AND connid IN @s_connid
           AND cityfrom IN @s_cityfr
           AND cityto IN @s_cityto.
```

```
ELSE .
```

```
    SELECT spfli~carrid, spfli~connid, spfli~countryfr,
           spfli~cityfrom, spfli~airpfrom, spfli~countryto,
           spfli~cityto, spfli~airpto, spfli~fltime, spfli~deptime,
           spfli~arrtime, zspfli_atrasos~dia_do_voo, zspfli_atrasos~atraso
    FROM spfli AS spfli
    INNER JOIN zspfli_atrasos AS zspfli_atrasos
    ON spfli~carrid = zspfli_atrasos~carrid
       AND spfli~connid = zspfli_atrasos~connid
    INTO TABLE @relatorio_atrasos
    WHERE spfli~carrid IN @s_carrid
           AND spfli~connid IN @s_connid
           AND spfli~cityfrom IN @s_cityfr
           AND spfli~cityto IN @s_cityto
           AND zspfli_atrasos~dia_do_voo = @zspfli_atrasos-dia_do_voo.
```

```
IF sy-subrc = 0 .
```

```
    DATA wa_relatorio_atrasos LIKE LINE OF relatorio_atrasos .
```

```
    LOOP AT relatorio_atrasos INTO wa_relatorio_atrasos .
```

```
        IF wa_relatorio_atrasos-atraso IS NOT INITIAL .
```

```
            wa_relatorio_atrasos-arrtime = wa_relatorio_atrasos-arrtime + wa_relatorio_atrasos-atr
            MODIFY relatorio_atrasos FROM wa_relatorio_atrasos .
```

```
        ENDIF .
```

```
    ENDLOOP .
```

```
    ENDIF .
```

```
ENDIF .
```

```
WHEN 'BTN_ATRASO'.
```

```
    DATA: wa_spfli      LIKE LINE OF relatorio_atrasos,
           wa_spfliatraso TYPE zspfli_atrasos.
```

```
    LOOP AT relatorio_atrasos INTO wa_spfli .
```

```
        wa_spfliatraso-carrid = wa_spfli-carrid .
        wa_spfliatraso-connid = wa_spfli-connid .
```

```
wa_spfliatraso-dia_do_voo = zspfli_atrasos-dia_do_voo.  
wa_spfliatraso-atraso = zspfli_atrasos-atraso .
```

```
INSERT zspfli_atrasos FROM wa_spfliatraso .
```

```
IF sy-subrc = 0 .
```

```
    MESSAGE 'Atraso registrado com sucesso' TYPE 'S' .
```

```
ELSE .
```

```
    MESSAGE 'Erro ao registrar atraso no banco de dados' TYPE 'S' DISPLAY LIKE 'E' .
```

```
ENDIF .
```

```
ENDLOOP .
```

```
ENDCASE .
```

```
ENDMODULE .
```