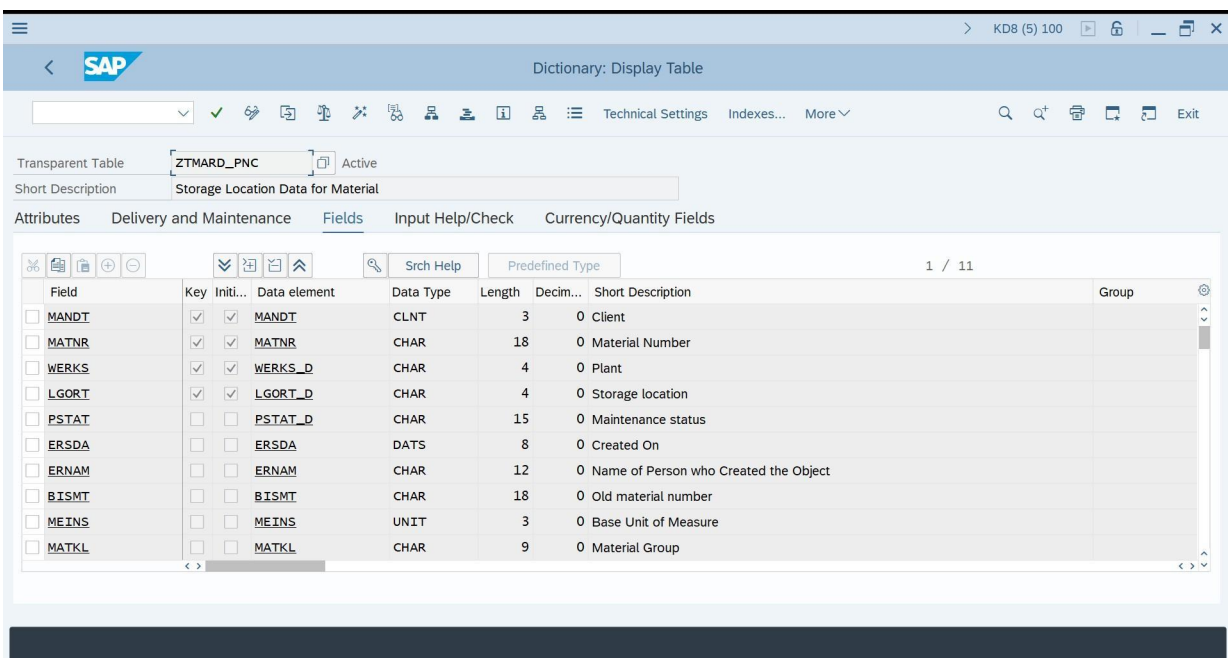


**Creation of interactive ALV report to fetch details of a material. Get plant name and storage location as input from the user. Generate a list of materials available in that location. When a user clicks a material number or it's description, the other details of that particular material number should be displayed in the next page.**

## Step 1: Creation of Custom Table



The screenshot shows the SAP Dictionary: Display Table interface for the table ZTMARD\_PNC. The table is active and its short description is "Storage Location Data for Material". The Fields tab is selected, displaying a list of fields with their attributes.

Field	Key	Initi...	Data element	Data Type	Length	Decim...	Short Description	Group
<input type="checkbox"/> MANDT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MANDT	CLNT	3		0 Client	
<input type="checkbox"/> MATNR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MATNR	CHAR	18		0 Material Number	
<input type="checkbox"/> WERKS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WERKS_D	CHAR	4		0 Plant	
<input type="checkbox"/> LGORT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	LGORT_D	CHAR	4		0 Storage location	
<input type="checkbox"/> PSTAT	<input type="checkbox"/>	<input type="checkbox"/>	PSTAT_D	CHAR	15		0 Maintenance status	
<input type="checkbox"/> ERSDA	<input type="checkbox"/>	<input type="checkbox"/>	ERSDA	DATS	8		0 Created On	
<input type="checkbox"/> ERNAM	<input type="checkbox"/>	<input type="checkbox"/>	ERNAM	CHAR	12		0 Name of Person who Created the Object	
<input type="checkbox"/> BISMT	<input type="checkbox"/>	<input type="checkbox"/>	BISMT	CHAR	18		0 Old material number	
<input type="checkbox"/> MEINS	<input type="checkbox"/>	<input type="checkbox"/>	MEINS	UNIT	3		0 Base Unit of Measure	
<input type="checkbox"/> MATKL	<input type="checkbox"/>	<input type="checkbox"/>	MATKL	CHAR	9		0 Material Group	

## Step 2: Creation of search help for plant and storage location.

Elementary Help: ZSH\_ALV Active

Short description: Search Help for ALV Report

Attributes: Definition

☒ Proposal Search for Input Fields  
☐ Multi-Column Full Text Search (Database-Specific)  
Accuracy Value for Error-Tolerant Full Text Search: 0,8

Search help exit:

Parameter

Search help parameter	IMP	EXP	LPos	SPos	SDis	Data element	M...	Default value
<input type="checkbox"/> WERKS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	1	<input type="checkbox"/>	WERKS_D	<input checked="" type="checkbox"/>	
<input type="checkbox"/> LGORT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	2	<input type="checkbox"/>	LGORT_D	<input checked="" type="checkbox"/>	

Object(s) activated

## Step 3: Creation of Interactive ALV Report.

### PROGRAM:

```
*&
*& Report ZRINTERACTIVE_ALV_PACK
*&
*&
*&
REPORT zrinteractive_alv_pack1.
TABLES: ztmard_pnc.
TYPES: BEGIN OF st_mard,
        matnr TYPE matnr,
        pstat TYPE pstat,
END OF st_mard.

TYPES: BEGIN OF st_mard1,
        matnr TYPE matnr,
        ersda TYPE ersda,
        ernam TYPE ernam,
        bismt TYPE bismt,
        meins TYPE meins,
        matk1 TYPE matk1,
END OF st_mard1.
```

```

DATA: it_mard TYPE TABLE OF st_mard,
      wa_mard LIKE LINE OF it_mard.
DATA: it_mard1 TYPE TABLE OF st_mard1,
      wa_mard1 LIKE LINE OF it_mard1.
DATA: it_fcat TYPE slis_t_fieldcat_alv,
      wa_fcat LIKE LINE OF it_fcat.
DATA: wa_layout TYPE slis_layout_alv.

SELECTION-SCREEN: BEGIN OF BLOCK pnc WITH FRAME. "FRAME FOR SELECTION SCREEN
PARAMETERS: p_werks TYPE ztmard_pnc-werks MATCHCODE OBJECT ZSH_ALV.
PARAMETERS: p_lgort TYPE ztmard_pnc-lgort MATCHCODE OBJECT ZSH_ALV.
SELECTION-SCREEN: END OF BLOCK pnc.

START-OF-SELECTION.
  SELECT matnr pstat FROM ztmard_pnc INTO TABLE it_mard WHERE werks EQ p_werks
  AND lgort EQ p_lgort.

  wa_fcat-fieldname = 'MATNR'.
  wa_fcat-key = 'X'.
  wa_fcat-hotspot = 'X'.
  wa_fcat-seltext_m = 'Material Number'.
  wa_fcat-no_zero = 'X'.
  APPEND wa_fcat TO it_fcat.
  CLEAR wa_fcat.

  wa_fcat-fieldname = 'PSTAT'.
  wa_fcat-seltext_m = 'Maintenance Status'.
  APPEND wa_fcat TO it_fcat.
  CLEAR wa_fcat.
  wa_layout-colwidth_optimize = 'X'.
  wa_layout-zebra = 'X'.

  CALL FUNCTION 'REUSE_ALV_GRID_DISPLAY'
    EXPORTING
      i_callback_program      = sy-repid
      i_callback_user_command = 'USER_COMMAND'
      is_layout               = wa_layout
      it_fieldcat              = it_fcat
    TABLES
      t_outtab                = it_mard
    EXCEPTIONS
      program_error            = 1
      OTHERS                   = 2.
  IF sy-subrc <> 0.
    * Implement suitable error handling here
  ENDIF.

```

```

FORM user_command USING p_ucomm TYPE sy-ucomm p_selfield TYPE slis_selfield.

CASE p_ucomm.
  WHEN '&IC1'.

    READ TABLE it_mard INTO wa_mard INDEX p_selfield-tabindex.
    IF sy-subrc = 0.
      SELECT matnr ersda ernam bismt meins matkl FROM ZTMARD_PNC INTO TABLE
IT_MARD1 WHERE MATNR EQ WA_MARD-MATNR.
      REFRESH it_fcat.
      CLEAR wa_fcat.
      wa_fcat-fieldname = 'MATNR'.
      wa_fcat-key = 'X'.
      wa_fcat-seltext_m = 'Material Number'.
      wa_fcat-no_zero = 'X'.
      APPEND wa_fcat TO it_fcat.

      CLEAR wa_fcat.
      wa_fcat-fieldname = 'ERSDA'.
      wa_fcat-seltext_m = 'Created On'.
      APPEND wa_fcat TO it_fcat.

      CLEAR wa_fcat.
      wa_fcat-fieldname = 'ERNAM'.
      wa_fcat-seltext_m = 'Created By'.
      APPEND wa_fcat TO it_fcat.

      CLEAR wa_fcat.
      wa_fcat-fieldname = 'BISMT'.
      wa_fcat-seltext_m = 'Old Mat.No'.
      APPEND wa_fcat TO it_fcat.

      CLEAR wa_fcat.
      wa_fcat-fieldname = 'MEINS'.
      wa_fcat-seltext_m = 'Unit Of Measure'.
      APPEND wa_fcat TO it_fcat.

      CLEAR wa_fcat.
      wa_fcat-fieldname = 'MATKL'.
      wa_fcat-seltext_m = 'Material Group'.
      APPEND wa_fcat TO it_fcat.
      CLEAR wa_fcat.

CALL FUNCTION 'REUSE_ALV_GRID_DISPLAY'
EXPORTING
  i_callback_program      = sy-repid
  i_callback_user_command = 'USER_COMMAND'
  is_layout               = wa_layout

```

```
it_fieldcat          = it_fcat
```

#### TABLES

```
t_outtab              = it_MARD1
```

#### EXCEPTIONS

```
PROGRAM_ERROR         = 1
```

```
OTHERS                = 2
```

```
IF sy-subrc <> 0.
```

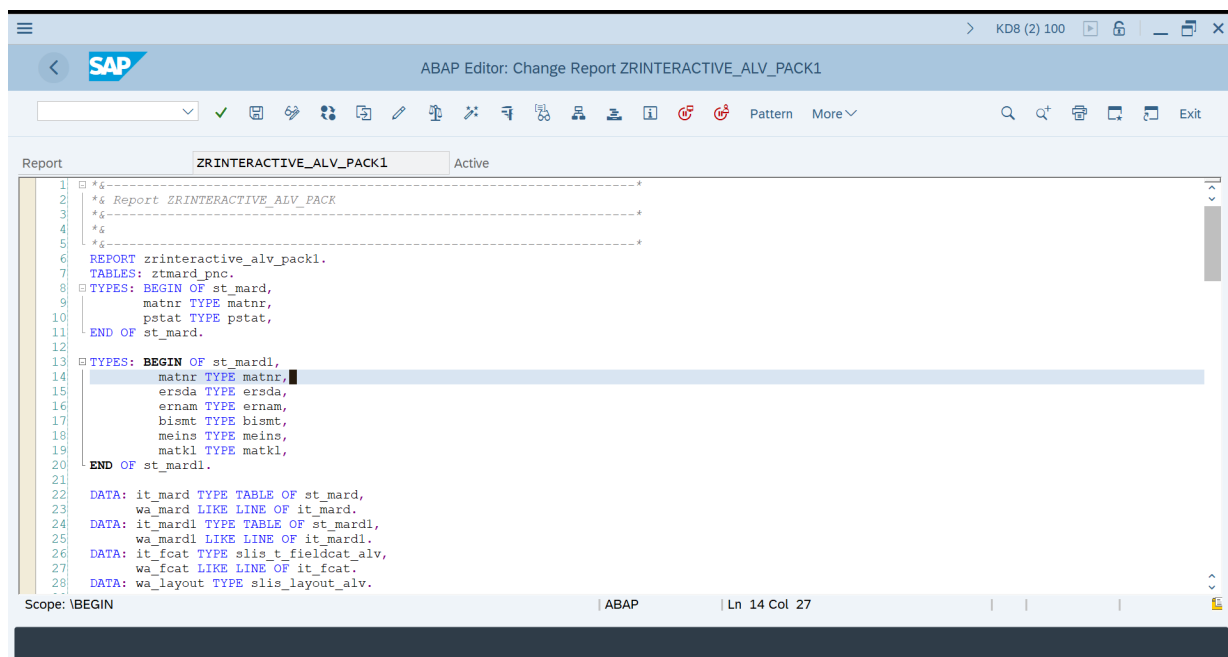
```
  * Implement suitable error handling here
```

```
ENDIF.
```

```
ENDIF.
```

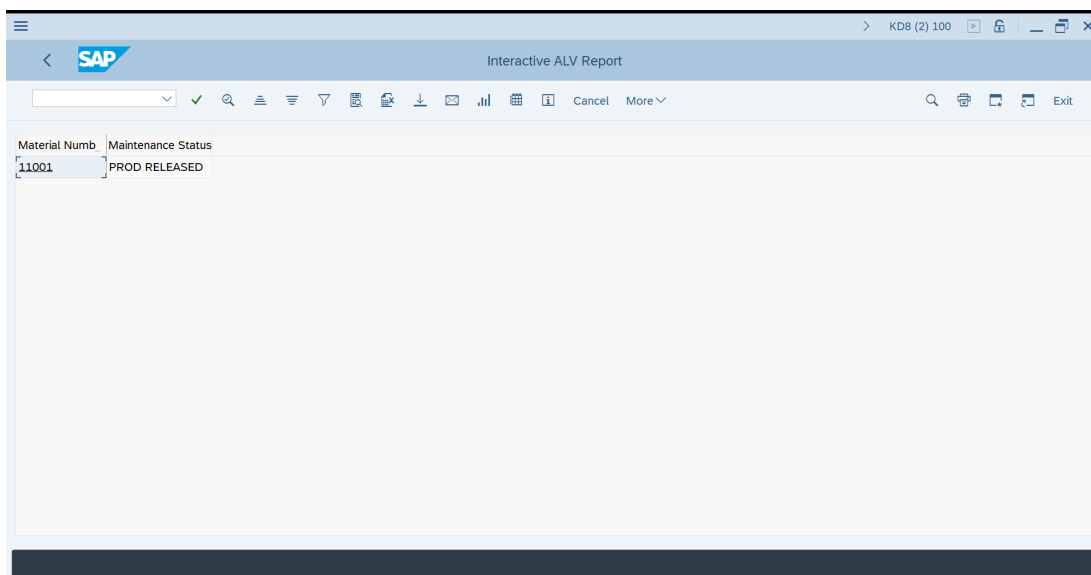
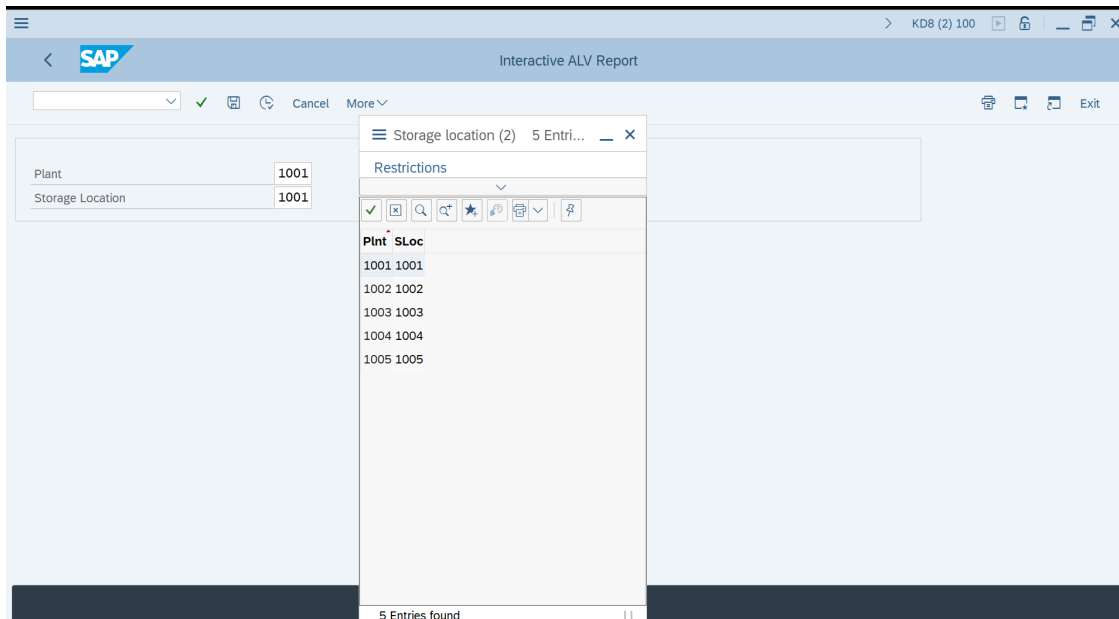
```
ENDCASE.
```

```
ENDFORM.
```

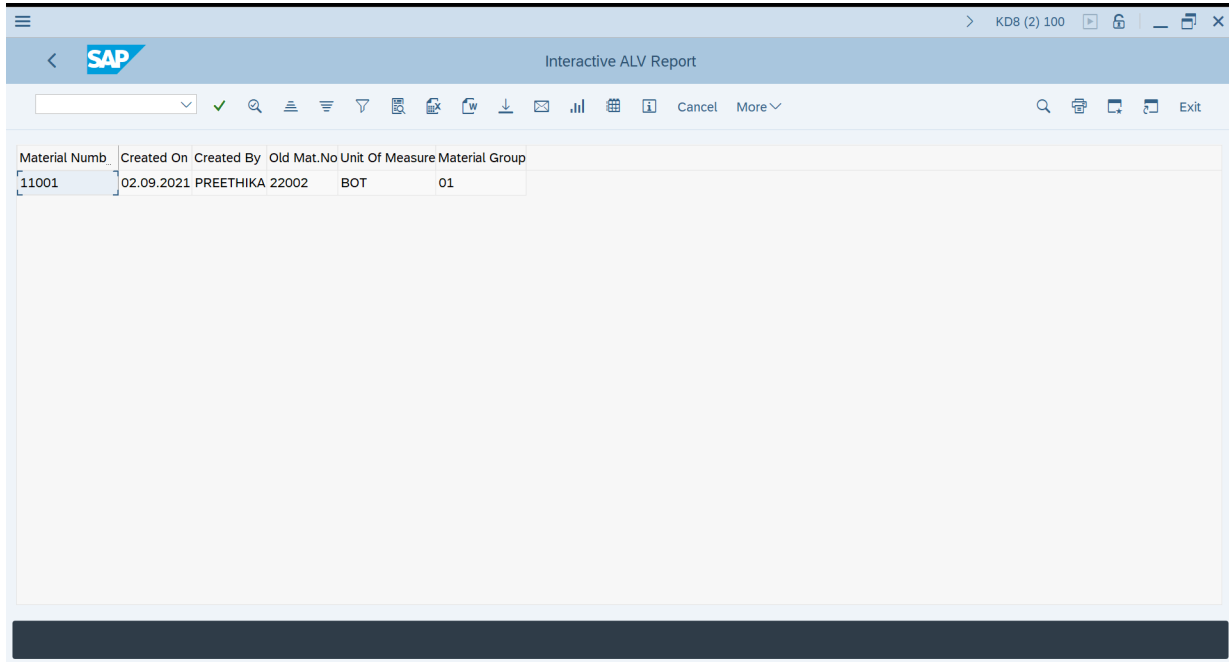


## OUTPUT:

If the user enters the corresponding plant and storage location then the result will be a material number with maintenance status available in it.



If the user clicks the material number from the output screen then the result will be the corresponding material details of it.



The screenshot displays the SAP Interactive ALV Report interface. At the top, there is a header bar with the SAP logo and the title "Interactive ALV Report". Below the header, a toolbar contains various icons for search, filter, and report actions. The main area shows a table with the following data:

Material Numb	Created On	Created By	Old Mat.No	Unit Of Measure	Material Group
11001	02.09.2021	PREETHIKA	22002	BOT	01