**LIT ASSIGNMENT**

**Day - 15**

**Emp Id: 46255265**

**Name: Pathe Kavya Malathi**

Assignment 1 – Create a Simple program to fetch data and display ALV using Std. SAP class-methods.

**Scenario** –

* Create a Custom program using ECLIPSE. Select data from table SNWD\_PD.
* The output should consist three columns – Category, Max price and Average price.
* The data should consist of all categories from SNWD\_PD, with maximum price for each category and average price for each category.
* There should be only 1 select statement used to achieve this using In-line Declaration, CASE, Aggregate, HAVING and GROUP BY clauses as needed.
* Selection screen can contain CATEGORY
* Output should be in ALV Grid format.

**Tables involved** – SNWD\_PD / Columns – CATEGORY & PRICE.

Code:

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\*& Report z265\_alv\_day15\_q1

\*&---------------------------------------------------------------------\*

\* Description: ALV using Std. SAP class-methods. \*

\* \*

\* Author: Pathe Kavya Malathi \*

\* \*

\* Create date: 21-10-2022 \*

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\* Modification log: \*

\* -------------------------------------------------------------------- \*

\* Date User name ID Change Request Case ref. \*

\* Description \*

\*&---------------------------------------------------------------------\*

REPORT z265\_alv\_day15\_q1.

TABLES SNWD\_PD.

SELECT-OPTIONS S\_CAT FOR SNWD\_PD-CATEGORY.

DATA: IT\_FCAT TYPE SLIS\_T\_FIELDCAT\_ALV,

WA\_FCAT TYPE SLIS\_FIELDCAT\_ALV.

SELECT CATEGORY, MAX( PRICE ) AS MAX\_PRICE, AVG( PRICE )

AS AVG\_PRICE FROM SNWD\_PD WHERE CATEGORY IN @S\_CAT GROUP BY CATEGORY

INTO TABLE @DATA(IT\_PRODUCT).

START-OF-SELECTION.

PERFORM BUILD\_FCAT.

PERFORM DISP\_ALV.

FORM BUILD\_FCAT.

WA\_FCAT-COL\_POS = '1'.

WA\_FCAT-FIELDNAME = 'CATEGORY'.

WA\_FCAT-SELTEXT\_M = 'Category'.

APPEND WA\_FCAT TO IT\_FCAT.

CLEAR WA\_FCAT.

WA\_FCAT-COL\_POS = '2'.

WA\_FCAT-FIELDNAME = 'MAX\_PRICE'.

WA\_FCAT-SELTEXT\_M = 'Maximum Price'.

APPEND WA\_FCAT TO IT\_FCAT.

CLEAR WA\_FCAT.

WA\_FCAT-COL\_POS = '3'.

WA\_FCAT-FIELDNAME = 'AVG\_PRICE'.

WA\_FCAT-SELTEXT\_M = 'Average Price'.

APPEND WA\_FCAT TO IT\_FCAT.

CLEAR WA\_FCAT.

ENDFORM.

FORM DISP\_ALV.

CALL FUNCTION 'REUSE\_ALV\_GRID\_DISPLAY'

EXPORTING

it\_fieldcat = IT\_FCAT " Field catalog with field descriptions

TABLES

t\_outtab = IT\_PRODUCT " Table with data to be displayed

.

IF sy-subrc <> 0.

MESSAGE 'Error in function call' TYPE 'I'.

ENDIF.

ENDFORM.

**output:**

Graphical user interface, application

Description automatically generated

Table

Description automatically generated with medium confidence

Assignment 2 – ALV with IDA

**Scenario** –

* Create one CDS view by selecting fields VBELN,POSNR, VKORG, MATNR, MENGE from VBAK and VBAP table
* Perform below operations using IDA framework

1. Create select-options based on MATNR for selection screen
2. Fetch records from CDS view in ABAP program
3. Pass user input (select-option entries) to filter record accordingly
4. Hide POSNR field from display
5. Change label of VBELN as SOrder, VKORG as SOrganization, and MENGE as TotalQuantity
6. Disable standard function SORT for MATNR field
7. Hide standard toolbar FILTER
8. Set title as “ALV report with IDA, CDS consumption”
9. Enable ZEBRA pattern
10. Multiple row selection should be enabled

**Tables involved** – VBAP, VBAK.

Code:

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\*& Report z265\_alv\_ida\_day15\_q2

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\* Description: ALV with IDA \*

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\* Author: Pathe Kavya Malathi \*

\* \*

\* Create date: 21-10-2022. \*

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\* Modification log: \*

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\* Date User name ID Change Request Case ref. \*

\* Description \*

\*&---------------------------------------------------------------------\*

REPORT z265\_alv\_ida\_day15\_q2.

DATA v\_matnr TYPE matnr.

DATA o\_alv TYPE REF TO if\_salv\_gui\_table\_ida.

DATA o\_full\_screen TYPE REF TO if\_salv\_gui\_fullscreen\_ida.

DATA o\_fcat TYPE REF TO if\_salv\_gui\_field\_catalog\_ida.

SELECT-OPTIONS : s\_matnr FOR v\_matnr. "DECLARE SELECT-OPTIONS

cl\_salv\_gui\_table\_ida=>create\_for\_cds\_view(

EXPORTING

iv\_cds\_view\_name = 'z265\_cds\_day15\_q1'

\* io\_gui\_container =

\* io\_calc\_field\_handler =

RECEIVING

ro\_alv\_gui\_table\_ida = o\_alv

).

DATA(o\_range\_tab\_coll) = NEW cl\_salv\_range\_tab\_collector( ).

o\_range\_tab\_coll->add\_ranges\_for\_name(

EXPORTING

iv\_name = 'MATNR'

it\_ranges = s\_matnr[]

).

o\_range\_tab\_coll->get\_collected\_ranges(

IMPORTING

et\_named\_ranges = DATA(it\_matnr)

).

o\_alv->set\_select\_options(

EXPORTING

it\_ranges = it\_matnr

\* io\_condition =

).

o\_fcat = o\_alv->field\_catalog( ).

o\_fcat->disable\_sort( iv\_field\_name = 'MATNR' ).

o\_fcat->set\_field\_header\_texts(

EXPORTING

iv\_field\_name = 'VBELN'

iv\_header\_text = 'SORDER'

\* iv\_tooltip\_text =

\* iv\_tooltip\_text\_long =

).

o\_fcat->set\_field\_header\_texts(

EXPORTING

iv\_field\_name = 'VKORG'

iv\_header\_text = 'SORGANIZATION'

).

o\_full\_screen = o\_alv->fullscreen( ).

DATA(o\_disp) = o\_alv->display\_options ( ).

o\_disp->enable\_alternating\_row\_pattern( ).

o\_disp->set\_title( iv\_title = 'ALV report with IDA, CDS consumption' ).

o\_full\_screen->display( ).

**output:**

**Table

Description automatically generated**