**DAY15-ASSIGNMENT**

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**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:**

REPORT z249\_alv\_p1.

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'.

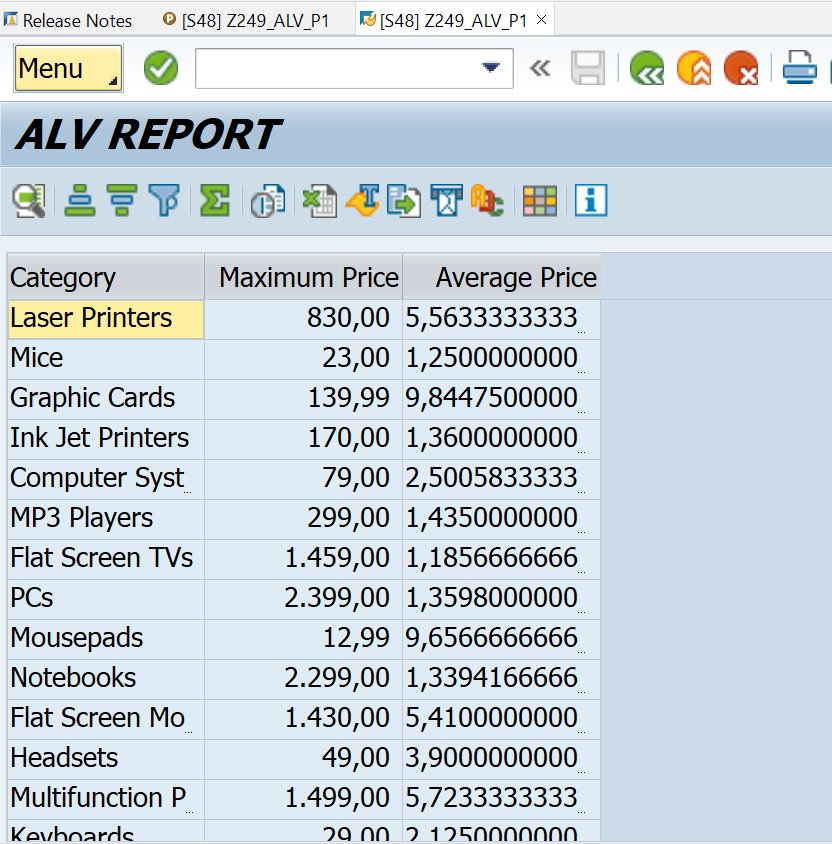
ENDIF.

ENDFORM.

**OUTPUT:**

**Graphical user interface, text, application, Word

Description automatically generated**

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**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:**

REPORT z249\_alv\_p2.

tables: vbap,vbak.

select-options s\_matnr for vbap-matnr.

DATA(OBJ) = CL\_SALV\_GUI\_TABLE\_IDA=>create\_for\_cds\_view(

iv\_cds\_view\_name = 'Z249CDSD14P2').

DATA(LV\_RANGE) = NEW CL\_SALV\_RANGE\_TAB\_COLLECTOR( ).

LV\_RANGE->add\_ranges\_for\_name(

EXPORTING

iv\_name = 'MATNR'

it\_ranges = s\_matnr[]

).

lv\_range->get\_collected\_ranges(

IMPORTING

et\_named\_ranges = DATA(LO\_NAMED\_RANGES)

).

OBJ->set\_select\_options(

EXPORTING

it\_ranges = LO\_NAMED\_RANGES

\* io\_condition =

).

\* CATCH cx\_salv\_ida\_associate\_invalid. "

\* CATCH cx\_salv\_db\_connection. "

\* CATCH cx\_salv\_ida\_condition\_invalid. "

\* CATCH cx\_salv\_ida\_unknown\_name. "

OBJ->field\_catalog( )->get\_available\_fields(

IMPORTING

ets\_field\_names = DATA(ITAB)

).

DELETE ITAB WHERE TABLE\_LINE = 'POSNR'.

OBJ->field\_catalog( )->set\_field\_header\_texts(

EXPORTING

iv\_field\_name = 'VBELN'

iv\_header\_text = 'SOrder'

iv\_tooltip\_text = 'Sales Order'

\* iv\_tooltip\_text\_long =

).

\* CATCH cx\_salv\_ida\_unknown\_name. "

\* CATCH cx\_salv\_call\_after\_1st\_display. "

obj->field\_catalog( )->set\_field\_header\_texts(

EXPORTING

iv\_field\_name = 'VKORG'

iv\_header\_text = 'SOrganization'

iv\_tooltip\_text = 'Sales Organization'

\* iv\_tooltip\_text\_long =

).

\* CATCH cx\_salv\_ida\_unknown\_name. "

\* CATCH cx\_salv\_call\_after\_1st\_display. "

obj->field\_catalog( )->set\_field\_header\_texts(

EXPORTING

iv\_field\_name = 'ZMENG'

iv\_header\_text = 'POrder'

iv\_tooltip\_text = 'Purchase Order Details'

\* iv\_tooltip\_text\_long =

).

\* CATCH cx\_salv\_ida\_unknown\_name. "

\* CATCH cx\_salv\_call\_after\_1st\_display. "

obj->field\_catalog( )->disable\_sort( iv\_field\_name = 'MATNR' ).

\* CATCH cx\_salv\_ida\_unknown\_name. "

\* CATCH cx\_salv\_call\_after\_1st\_display. "

OBJ->toolbar( )->set\_visibility\_std\_functions(

EXPORTING

\* iv\_details = ABAP\_UNDEFINED

\* iv\_sort = ABAP\_UNDEFINED

\* iv\_group = ABAP\_UNDEFINED

iv\_filter = '' "ABAP\_UNDEFINED

\* iv\_aggregation = ABAP\_UNDEFINED

\* iv\_print = ABAP\_UNDEFINED

\* iv\_export = ABAP\_UNDEFINED

\* iv\_settings\_dialog = ABAP\_UNDEFINED

).

OBJ->display\_options( )->set\_title( iv\_title = 'ALV report with IDA, CDS consumption' ).

OBJ->display\_options( )->enable\_alternating\_row\_pattern( ).

OBJ->selection( )->set\_selection\_mode(

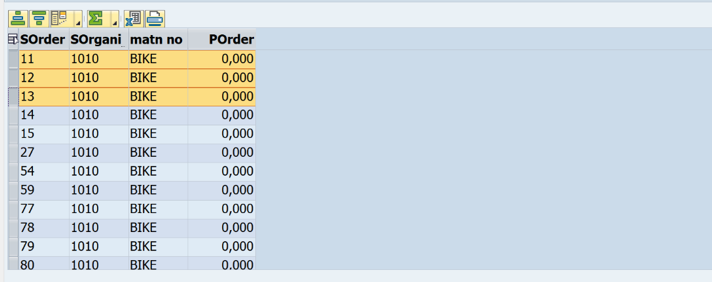
iv\_mode = 'MULTI'

).

\* CATCH cx\_salv\_ida\_contract\_violation. "

OBJ->fullscreen( )->display( ).

**OUTPUT:**

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