LIT TRAINING

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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

Report:

REPORT Z5251\_ALV\_D15.

TABLES:SNWD\_PD.

DATA: it\_fieldcat TYPE slis\_t\_fieldcat\_alv,

wa\_fieldcat TYPE slis\_fieldcat\_alv.

SELECT CATEGORY,

MAX( PRICE ) AS MAX\_PRICE,

AVG( PRICE ) AS AVG\_PRICE,

CASE

WHEN length( category ) < 6 then 'LOW LENGTH CATEGORY'

WHEN length( category ) > 6 then 'LOW LENGTH CATEGORY'

END as group

FROM SNWD\_PD AS A GROUP BY CATEGORY having length( category ) > 4 INTO TABLE @DATA(IT\_OUT).

wa\_fieldcat-fieldname = 'CATEGORY'.

wa\_fieldcat-seltext\_m = 'CATEGORY'.

APPEND wa\_fieldcat TO it\_fieldcat.

wa\_fieldcat-fieldname = 'MAX\_PRICE'.

wa\_fieldcat-seltext\_m = 'MAX\_PRICE'.

APPEND wa\_fieldcat TO it\_fieldcat.

wa\_fieldcat-fieldname = 'AVG\_PRICE'.

wa\_fieldcat-seltext\_m = 'AVG\_PRICE'.

APPEND wa\_fieldcat TO it\_fieldcat.

wa\_fieldcat-fieldname = 'GROUP'.

wa\_fieldcat-seltext\_m = 'CAT\_GROUP'.

APPEND wa\_fieldcat TO it\_fieldcat.

CALL FUNCTION 'REUSE\_ALV\_GRID\_DISPLAY'

EXPORTING

it\_fieldcat = it\_fieldcat

TABLES

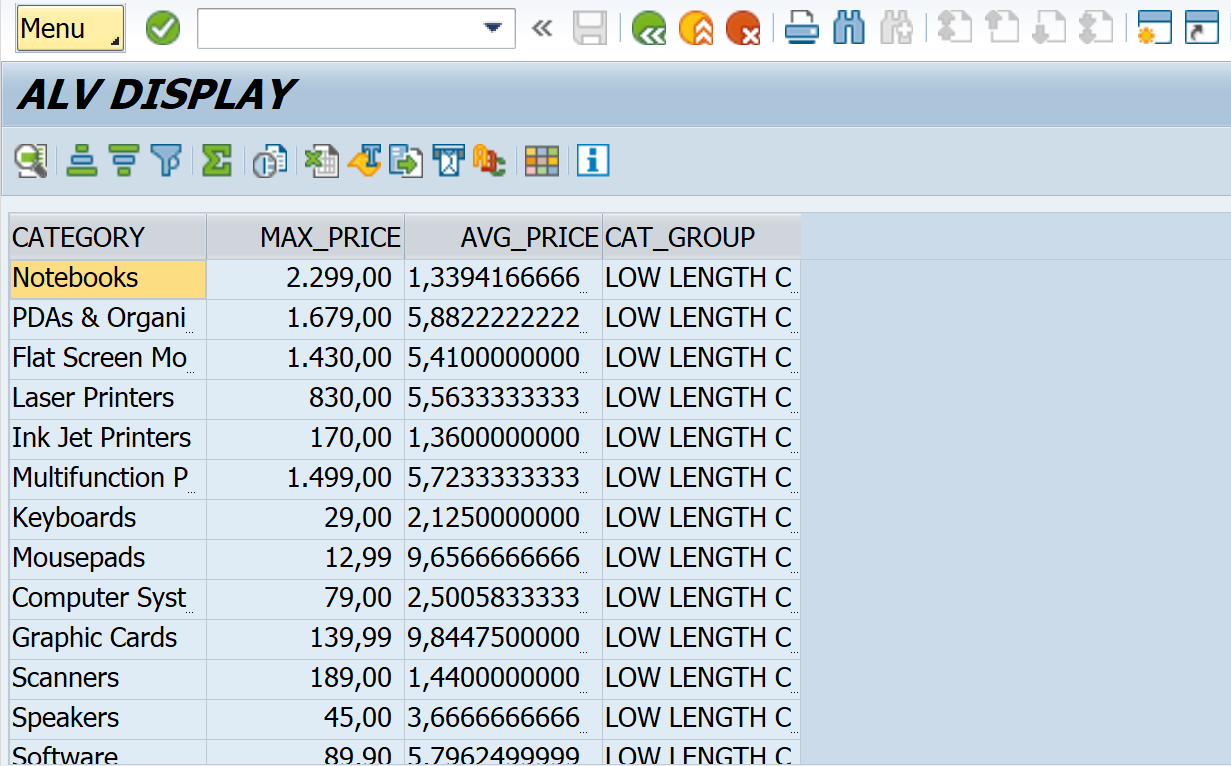
t\_outtab = IT\_OUT

EXCEPTIONS

program\_error = 1

OTHERS = 2.

Output:



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

CDS VIEW code:

@AbapCatalog.sqlViewName: 'Z\_SQL\_CDS\_ALVIDA'

@AbapCatalog.compiler.compareFilter: true

@AbapCatalog.preserveKey: true

@AccessControl.authorizationCheck: #NOT\_REQUIRED

@EndUserText.label: 'CDS FOR ALV IDA DAY15'

**define** **view** Z5251\_CDS\_ALV\_D15 **as** **select** **from** vbak **as** A

**left** **outer** **join** vbap **as** B

**on** A**.**vbeln **=** B**.**vbeln **{**

A**.**vbeln **as** Sorder**,**

B**.**posnr **as** Sales\_Document\_Item**,**

A**.**vkorg **as** Sales\_Organization**,**

B**.**matnr **,**

B**.**zmeng **as** Target\_Quantity

**}**

Report:

REPORT Z5251\_ALVIDA\_D15.

TABLES:VBAK,VBAP.

SELECT-OPTIONS:S\_MATNR FOR VBAP-MATNR.

TRY.

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

EXPORTING

iv\_cds\_view\_name = 'Z5251\_CDS\_ALV\_D15'

\* io\_gui\_container =

\* io\_calc\_field\_handler =

RECEIVING

ro\_alv\_gui\_table\_ida = DATA(O\_REF)

).

CATCH cx\_salv\_db\_connection.

CATCH cx\_salv\_db\_table\_not\_supported.

CATCH cx\_salv\_ida\_contract\_violation.

CATCH cx\_salv\_function\_not\_supported.

ENDTRY.

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

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

EXPORTING

iv\_name = 'MATNR'

it\_ranges = S\_MATNR[]

).

O\_RANGE->get\_collected\_ranges(

IMPORTING

et\_named\_ranges = DATA(IT\_RANGE)

).

TRY.

O\_REF->set\_select\_options(

EXPORTING

it\_ranges = IT\_RANGE

\* 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.

ENDTRY.

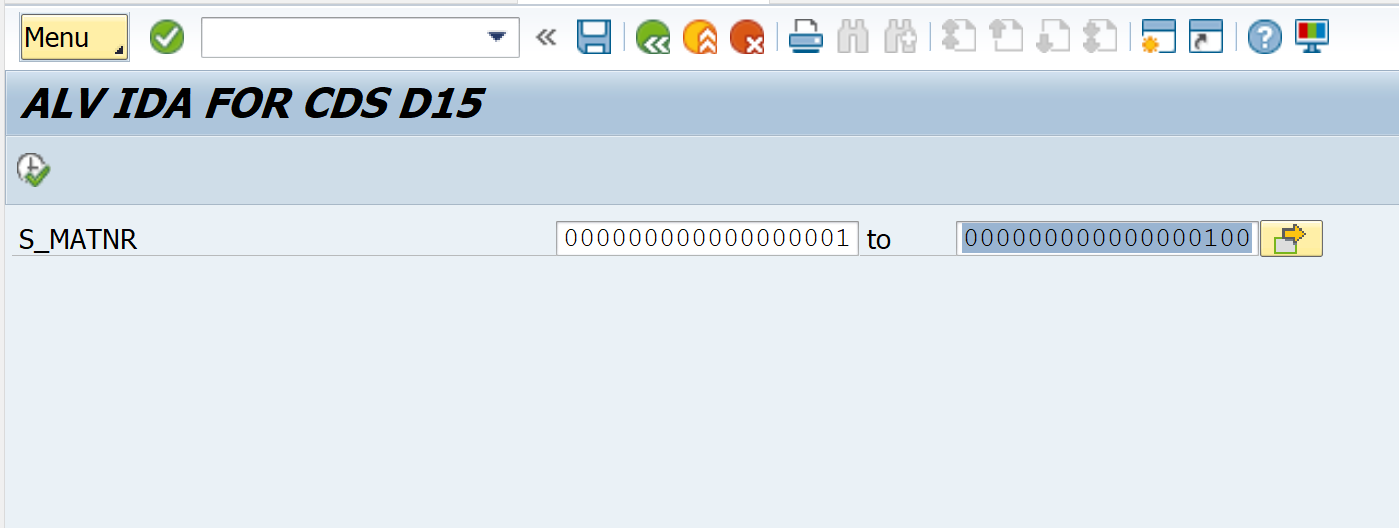
o\_ref->display\_options( )->enable\_alternating\_row\_pattern( ).

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

o\_ref->toolbar( )->hide\_all\_standard\_functions( ).

O\_REF->fullscreen( )->display( ).

Selection screen:



Output:

