**LIT TRAINING**

**Batch Name : SAP ABAP ON HANA** **DAY 15 ASSIGNMENT**

**EMPLOYEE ID – 46255438** **DATE : 20 September, 2022**

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

CODE:

REPORT z46255244lit\_alv1.

TABLES:SNWD\_PD.

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

wa\_fieldcat TYPE slis\_fieldcat\_alv,

GROUP TYPE STRING.

SELECT CATEGORY,

MAX( PRICE ) AS MAX\_PRICE,

AVG( PRICE ) AS AVG\_PRICE,

CASE

WHEN length( category ) <= 8 THEN 'LOW LENGTH CATEGORY'

WHEN length( category ) > 8 THEN 'HIGH 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 = 'CATEGORY\_GROUP'.

APPEND wa\_fieldcat TO it\_fieldcat.

CALL FUNCTION 'REUSE\_ALV\_GRID\_DISPLAY'

EXPORTING

it\_fieldcat = it\_fieldcat

TABLES

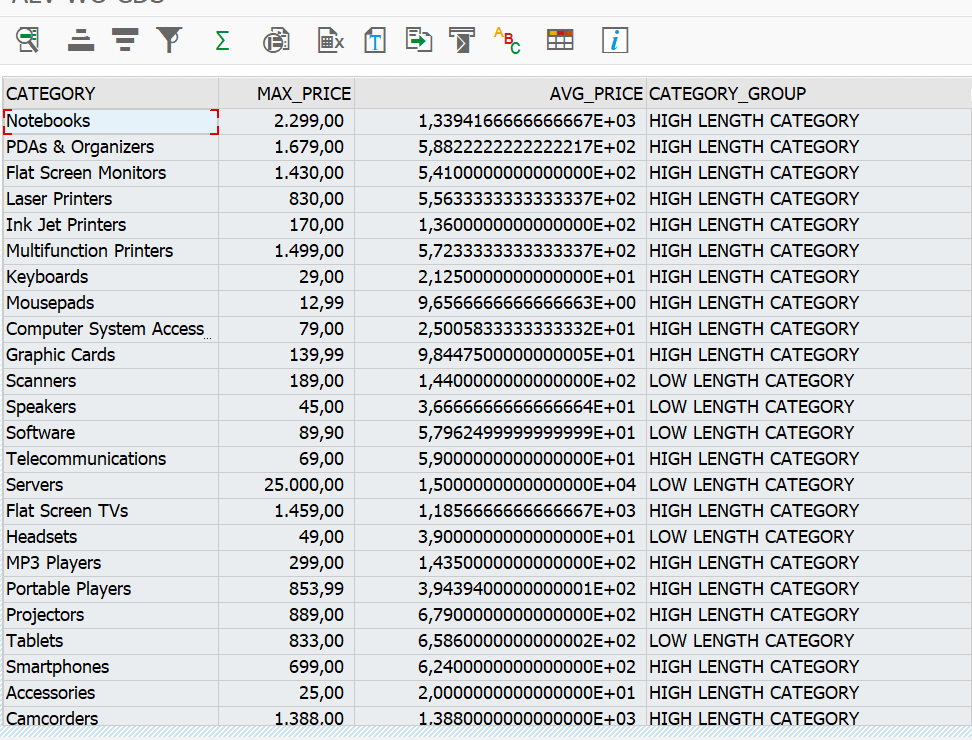
t\_outtab = IT\_OUT

EXCEPTIONS

program\_error = 1

OTHERS = 2.

OUTPUT:



Assignment 2 – ALV with IDA

CDS VIEW

CODE:

@AbapCatalog.sqlViewName: 'Z\_CDS\_ALV'

@AbapCatalog.compiler.compareFilter: true

@AbapCatalog.preserveKey: true

@AccessControl.authorizationCheck: #NOT\_REQUIRED

@EndUserText.label: 'CDS VIEW ALV'

**define** **view** Z46255244LIT\_CDS\_ALV **as** **select** **from** vbak **as** B

**left** **outer** **join** vbap **as** A

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

B**.**vbeln **as** SOrder**,**

A**.**posnr **as** Sales\_doc\_item**,**

B**.**vkorg **as** SOrganization**,**

A**.**matnr **as** Material\_Num**,**

A**.**zmeng **as** TotalQuantity

**}**

**CODE:**

REPORT z46255244lit\_alv.

TABLES:VBAP, VBAK.

data: posnr type vbap-posnr.

SELECT-OPTIONS: S\_matnr FOR vbap-matnr.

try.

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

EXPORTING

iv\_cds\_view\_name = 'Z46255244LIT\_CDS\_ALV'

RECEIVING

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

).

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\_IN) = NEW CL\_SALV\_RANGE\_TAB\_COLLECTOR( ).

O\_IN->add\_ranges\_for\_name(

EXPORTING

iv\_name = 'matnr'

it\_ranges = S\_matnr[]

).

O\_IN->get\_collected\_ranges(

IMPORTING

et\_named\_ranges = DATA(OUT)

).

try.

O\_OUT->set\_select\_options(

EXPORTING

it\_ranges = OUT

).

CATCH cx\_salv\_ida\_associate\_invalid.

CATCH cx\_salv\_db\_connection.

CATCH cx\_salv\_ida\_condition\_invalid.

CATCH cx\_salv\_ida\_unknown\_name.

ENDTRY.

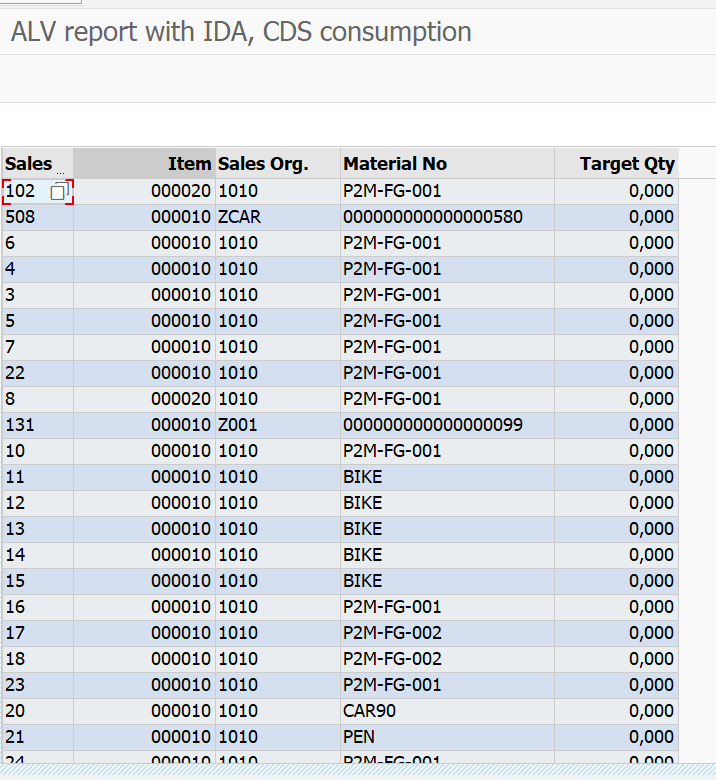
o\_out->display\_options( )->enable\_alternating\_row\_pattern( ).

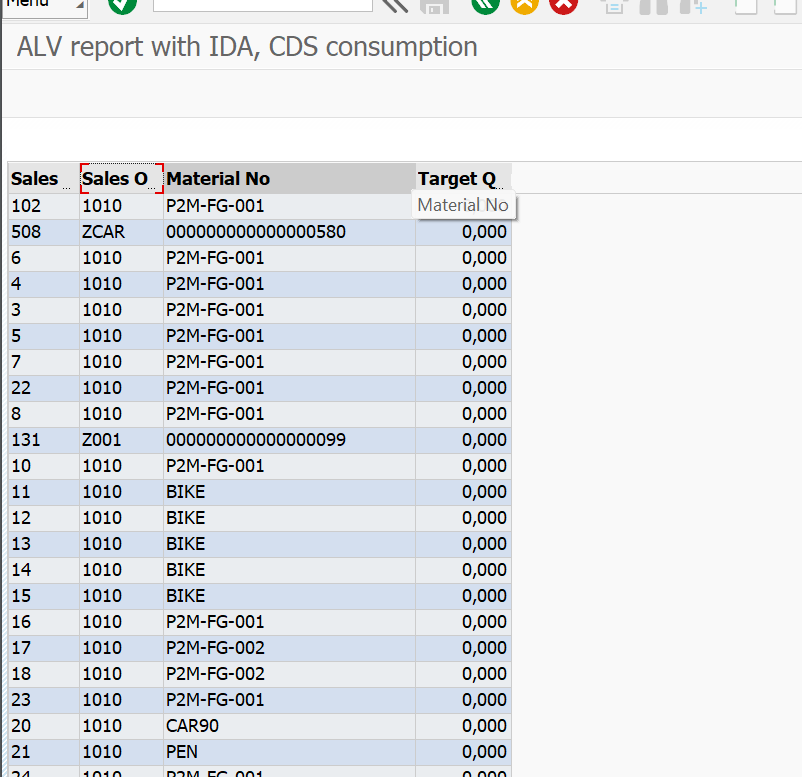
o\_out->display\_options( )->set\_title( iv\_title = 'ALV report with IDA, CDS consumption' ).

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

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

**OUTPUT:**

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