LIT TRAINING

Batch Name - SAP ABAP - 25 EMPLOYEE ID - 46247689 **DAY 14 ASSIGNMENT**

CDS-Assignment 1 – Create a Simple CDS view with Date Functions in ABAP CDS Views

Tables involved - VBAK

```
@AbapCatalog.sqlViewName: 'ZYNY_SQL_VIEW'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #NOT_REQUIRED
@EndUserText.label: 'CDS VIEW WITH DATE FUNCTIONS'
define view ZYNY_CDS_VIEW as select from vbak {
   vbeln as Sales_Document,
   auart as Sales_Document_Type,
   audat as Document_Date,
   vdatu as Requested_delivery_date,
   DATS_DAYS_BETWEEN(audat, vdatu) as no_of_days,
   DATS_ADD_DAYS(vdatu, 10, 'NULL') as shipping_date,
   DATS_ADD_MONTHS(vdatu, 2, 'NULL') as billing_date
}
```

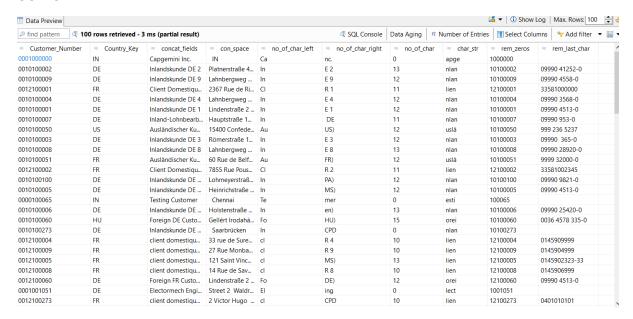
OUTPUT:

find pattern	100 rows retrieved - 24 ms ()	partial result)		SQL Console	Data Aging n	Number of Entries	■ Select Columns	Y Add filter ▼ 🖫
Sales_Document	Sales_Document_Type	B Document_Date	Requested_delivery_date	no_of_days	shipping_date	 billing_date 		
000000101	YOR	2019-01-28	2019-01-28	0	2019-02-07	2019-03-28		
0000000003	TA	2018-03-02	2018-03-20	18	2018-03-30	2018-05-20		
0000000002		2018-03-02	0000-00-00	-736,756	0001-01-11	0001-03-01		
0000000004	TA	2018-03-03	2018-03-20	17	2018-03-30	2018-05-20		
0000000005	TA	2018-03-03	2018-03-03	0	2018-03-13	2018-05-03		
0000000006	TA	2018-03-03	2018-03-03	0	2018-03-13	2018-05-03		
0000000007	TA	2018-03-06	2018-03-06	0	2018-03-16	2018-05-06		
8000000000	TA	2018-03-06	2018-03-06	0	2018-03-16	2018-05-06		
0000000009	TA	2018-03-07	2018-03-06	-1	2018-03-16	2018-05-06		
0000000010	TA	2018-03-07	2018-03-07	0	2018-03-17	2018-05-07		
0000000011	TA	2018-03-07	2018-03-07	0	2018-03-17	2018-05-07		
0000000012	TA	2018-03-07	2018-03-07	0	2018-03-17	2018-05-07		
000000013	TA	2018-03-07	2018-03-08	1	2018-03-18	2018-05-08		
000000014	TA	2018-03-07	2018-03-07	0	2018-03-17	2018-05-07		
0000000015	TA	2018-03-07	2018-03-07	0	2018-03-17	2018-05-07		
000000016	TA	2018-03-12 .	2018-03-20	8	2018-03-30	2018-05-20		
000000017	TA	2018-03-12	2018-03-20	8	2018-03-30	2018-05-20		
000000018	TA	2018-03-21	2018-03-30	9	2018-04-09	2018-05-30		
0000000986	TA	2021-02-01	2021-02-01	0	2021-02-11	2021-04-01		
0000000020	TA	2018-03-23	2018-03-25	2	2018-04-04	2018-05-25		
0000000021	TA	2018-03-27	2018-04-09	13	2018-04-19	2018-06-09		
000000118	YOR	2019-02-24	2019-02-24	0	2019-03-06	2019-04-24		
0000000023	TA	2018-03-27	2018-04-04	8	2018-04-14	2018-06-04		
0000000024	TA	2018-03-27	2018-04-04	8	2018-04-14	2018-06-04		
0000000025	TA	2018-03-27	2018-04-05	9	2018-04-15	2018-06-05		

CDS-Assignment 2 – Create a Simple CDS view with String Functions in ABAP CDS Views

```
@AbapCatalog.sqlViewName: 'ZYNY_STR_FN_VIEW'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #NOT REQUIRED
@EndUserText.label: 'CDS view with String Functions'
define view ZYNY_CDSVIEW_STRING_FN as select from kna1 {
   kunnr as Customer_Number,
   land1 as Country_Key,
   concat(kna1.name1, kna1.name2) as concat_fields,
   concat_with_space(stras,ort01,2) as con_space,
   left(name1,2) as no_of_char_left,
   right(kna1.name1,3) as no_of_char_right,
   length(telf1) as no of char,
   substring(name1,2,4) as char_str,
   ltrim(kunnr, '0') as rem_zeros,
   rtrim(telf1,'4') as rem_last_char
}
```

OUTPUT:

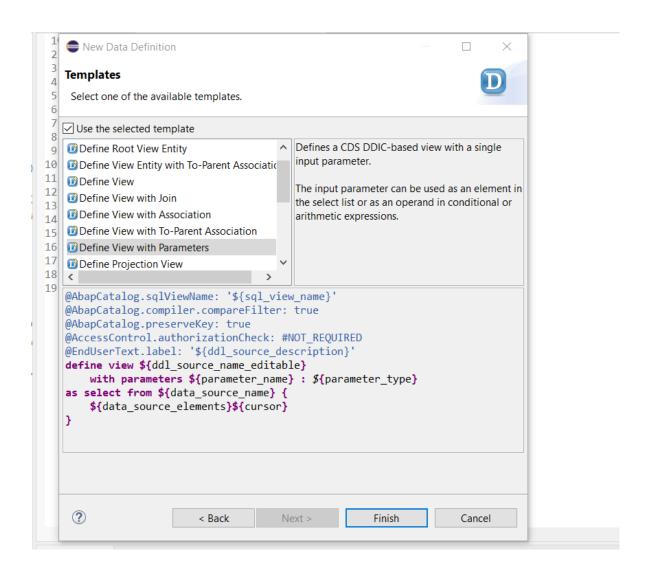


CDS-Assignment 3 – Create a Simple CDS view with Parameters

Scenario -

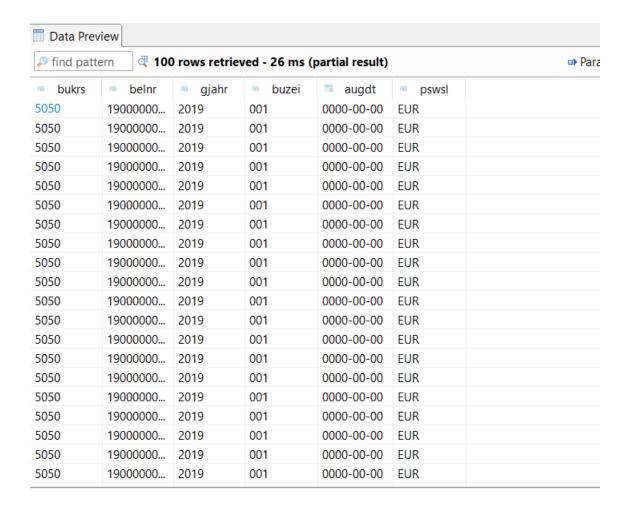
> Create a CDS view with GL currency (PSWSL) as parameter and get the entries form BSEG

Tables involved - BSEG



```
@AbapCatalog.sqlViewName: 'ZYNY_SQL_VIEW1'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #NOT_REQUIRED
@EndUserText.label: 'CDS view with Parameters'
define view ZYNY_CDSVIEW_PARA
   with parameters in_curr : abap.cuky(5)
as select from bseg{
   bukrs,
   belnr,
   gjahr,
   buzei,
   augdt,
   pswsl
}where pswsl = $parameters.in_curr
```

output:



AMDP-Assignment 1 – Procedures - create a basic procedure to fetch data with scalar variable

Scenario -

Print Sales Order number, Material Number, Quantity from VBAP table using scaler variable

Tables involved - VBAP

CLASS zYNY_amdp_scal DEFINITION
PUBLIC
FINAL
CREATE PUBLIC .
PUBLIC SECTION.
INTERFACES :IF_AMDP_MARKER_HDB.
METHODS: get_vbap_data
EXPORTING VALUE(It_VBAP) TYPE ZYNYTTSTU_VBAP.
PROTECTED SECTION.
PRIVATE SECTION.
ENDCLASS.

```
METHOD get_vbap_data BY DATABASE PROCEDURE FOR HDB LANGUAGE SQLSCRIPT OPTIONS READ-ONLY USING VBAP.
```

```
It_vbap = select vbeln,matnr,ZMENG from vbap;
endmethod.
```

ENDCLASS.

REPORT:

OUTPUT:

lr_salv->display().

Sales Document	Material No	Target Quantity
2	P2M-FG-002	0,000
15	BIKE	0,000
22	BIKE	0,000
27	BIKE	0,000
3	P2M-FG-001	0,000
5	P2M-FG-001	0,000
4	P2M-FG-001	0,000
1	P2M-FG-001	0,000
7	BIKE	0,000
14	BIKE	0,000
13	BIKE	0,000
8	BIKE	0,000
11	BIKE	0,000
17	P2M-FG-002	0,000
20	CAR90	0,000
21	PEN	0,000

AMDP-Assignment 2 - Procedures - create a basic procedure with Table

Scenario -

- Select VBELN, VKORG, MATNR, MENGE from VBAK and VBAP and display the data using table based on material (MATNR).
- > MATNR will be input field
- > Do inner join

```
Tables involved - VBAK, VBAP
CLASS zYNY_amdp_join DEFINITION
PUBLIC
FINAL
CREATE PUBLIC.
PUBLIC SECTION.
INTERFACES: IF_AMDP_MARKER_HDB.
CLASS-METHODS:GET DATA
       IMPORTING VALUE(IM_MATNR) TYPE VBAP-MATNR
       EXPORTING VALUE(ET_RES) TYPE ZYNYTTSRU_IN.
PROTECTED SECTION.
PRIVATE SECTION.
ENDCLASS.
CLASS zYNY_amdp_join IMPLEMENTATION.
METHOD get_data BY DATABASE PROCEDURE FOR HDB LANGUAGE
         SQLSCRIPT OPTIONS READ-ONLY
         USING VBAP VBAK.
ET_RES = SELECT A.VBELN,
       A.VKORG,
       B.MATNR,
       B.ZMENG
       FROM VBAK AS A
       INNER JOIN VBAP AS B
       ON A.VBELN = B.VBELN;
ENDMETHOD.
ENDCLASS.
REPORT:
REPORT zYNY_amdp_join.
```

PARAMETERS: S_MATNR TYPE VBAP-MATNR.

OUTPUT:

S_MATNR: 0000000000000013

Sales Document	Sales	Material No	Target Quantity
2	1010	P2M-FG-002	0,000
2		P2M-FG-002	0,000
15	1010	BIKE	0,000
15	1010	BIKE	0,000
22	1010	BIKE	0,000
22	1010	BIKE	0,000
27	1010	BIKE	0,000
27	1010	BIKE	0,000
3	1010	P2M-FG-001	0,000
3	1010	P2M-FG-001	0,000
5	1010	P2M-FG-001	0,000
5	1010	P2M-FG-001	0,000
4	1010	P2M-FG-001	0,000
4	1010	P2M-FG-001	0,000