LIT ASSIGNMENT

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Day - 14

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

Scenario –

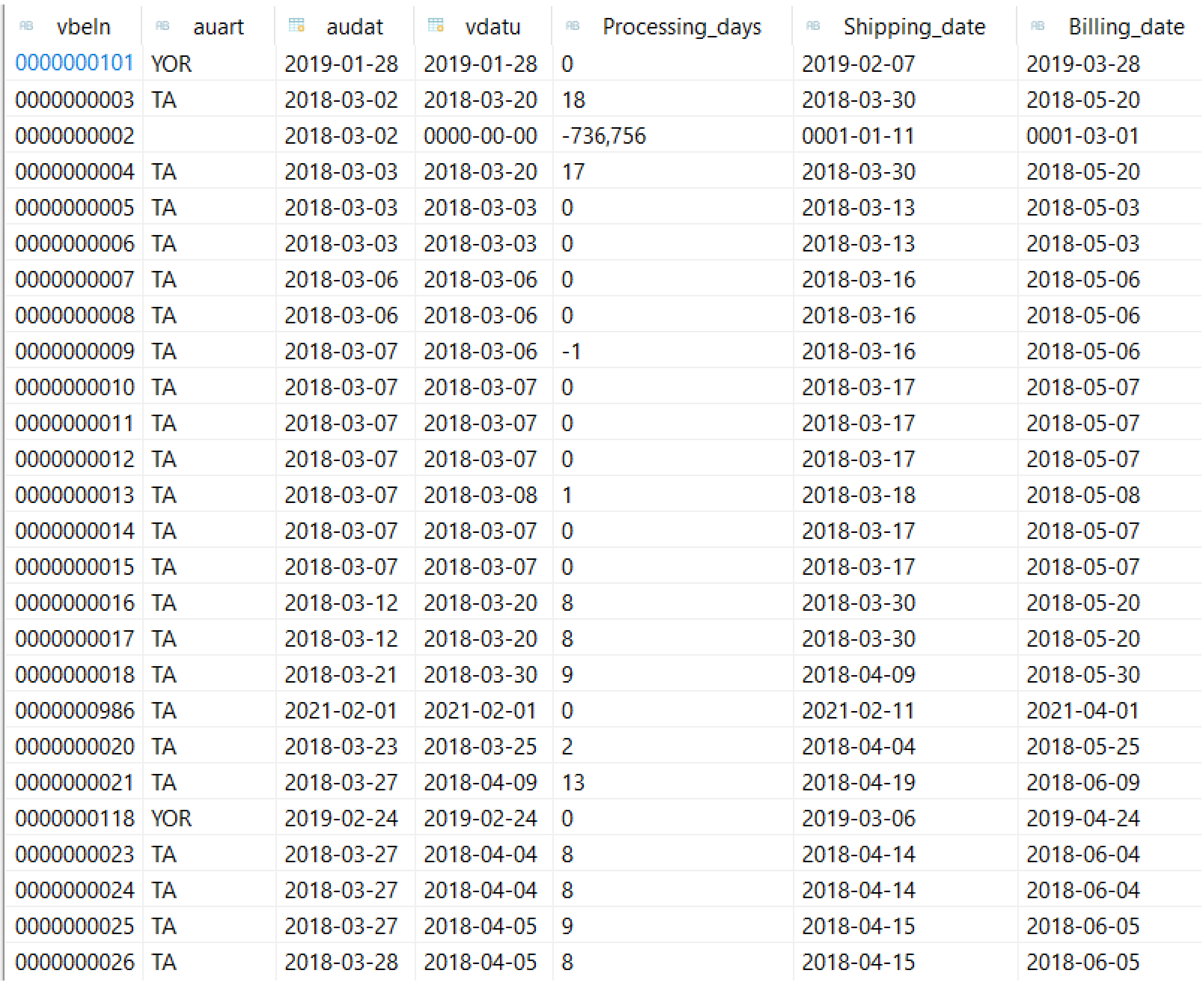
- Create a CDS view with 7 fields from VBAK using date functions
  1. VBELN (Sales Document),
  2. AUART (Sales Document Type),
  3. AUDAT (Document Date),
  4. VDATU (Requested delivery date)
  5. Days between Document Date & Requested delivery date as Processing days
  6. Delivery date + 10 days as shipping date
  7. Delivery Date + 2 months as billing date

Tables involved – VBAK

Cds View Code:

```
@AbapCatalog.sqlViewName: 'Z425_DAY14'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #NOT_REQUIRED
@EndUserText.label: 'CDs view day14 q1 vbak table'
define view z425_day14_q1 as select from vbak {
vbeln,
auart,
audat,
vdatu,
dats_days_between(audat,vdatu) as Processing_days,
dats_add_Days(vdatu,10,'FAIL') as Shipping_date,
dats_add_months(vdatu,2,'FAIL') as Billing_date

}
```

output:



vbeln	auart	audat	vdatu	Processing_days	Shipping_date	Billing_date
0000000101	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
0000000008	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
0000000013	TA	2018-03-07	2018-03-08	1	2018-03-18	2018-05-08
0000000014	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
0000000016	TA	2018-03-12	2018-03-20	8	2018-03-30	2018-05-20
0000000017	TA	2018-03-12	2018-03-20	8	2018-03-30	2018-05-20
0000000018	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
0000000118	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
0000000026	TA	2018-03-28	2018-04-05	8	2018-04-15	2018-06-05

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

Scenario –

- Create a CDS view with 10 fields from KNA1 using string functions
  1. KUNNR (Customer Number),
  2. LAND1 (Country Key),
  3. Concatenate NAME1 & NAME2
  4. Concatenate STRAS, ORT01 & REGIO & PSTLZ with space in between.
  5. Get first 2 characters of NAME1
  6. Get last 3 characters of NAME2
  7. No of characters of TELF1
  8. NAME1+2(4). 4 characters starting from 2nd character.
  9. Remove the leading zeros of KUNNR
  10. Remove last 4 characters of TELF1.

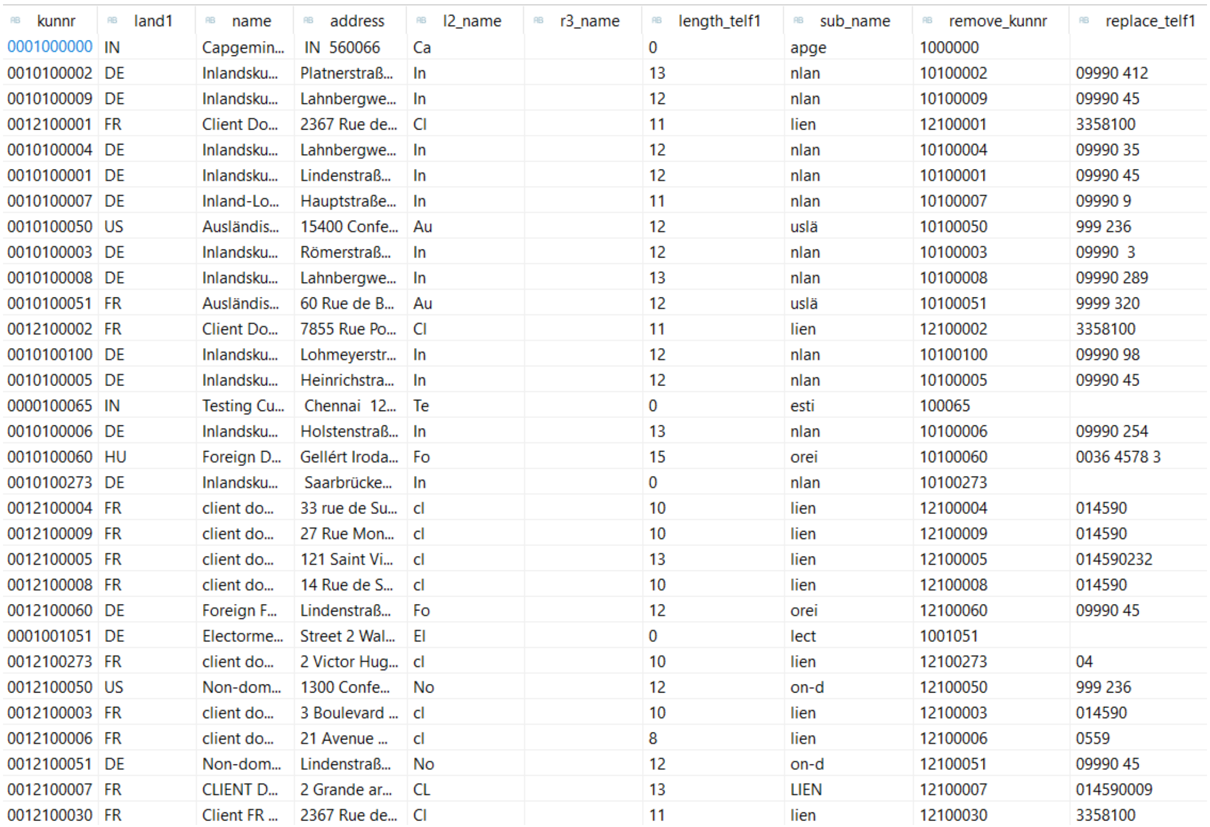
Tables involved – KNA1

cds view code

```
@AbapCatalog.sqlViewName: 'Z425_day14q2'
```

```
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #NOT_REQUIRED
@EndUserText.label: 'cds view day14 q2 kna1 table'
define view Z425_day14_q2 as select from kna1 {

   kunnr,
   land1,
   concat(name1,name2) as name,
   concat_with_space(concat_with_space(stras,ort01,1),concat_with_space(regio,pstlz,1),1) as
address,
   left(name1,2) as l2_name,
   right(name2,3) as r3_name,
   length(telf1) as length_telf1,
   substring(name1,2,4) as sub_name,
   ltrim(kunnr,'0') as remove_kunnr,
   replace(telf1,right(telf1,4),'') as replace_telf1

}
```

output:



kunnr	land1	name	address	l2_name	r3_name	length_telf1	sub_name	remove_kunnr	replace_telf1
0001000000	IN	Capgemin...	IN 560066	Ca		0	apge	1000000	
0010100002	DE	Inlandsku...	Platnerstraß...	In		13	nlan	10100002	09990 412
0010100009	DE	Inlandsku...	Lahnbergwe...	In		12	nlan	10100009	09990 45
0012100001	FR	Client Do...	2367 Rue de...	Cl		11	lien	12100001	3358100
0010100004	DE	Inlandsku...	Lahnbergwe...	In		12	nlan	10100004	09990 35
0010100001	DE	Inlandsku...	Lindenstraß...	In		12	nlan	10100001	09990 45
0010100007	DE	Inland-Lo...	Hauptstraße...	In		11	nlan	10100007	09990 9
0010100050	US	Ausländis...	15400 Confe...	Au		12	uslä	10100050	999 236
0010100003	DE	Inlandsku...	Römerstraß...	In		12	nlan	10100003	09990 3
0010100008	DE	Inlandsku...	Lahnbergwe...	In		13	nlan	10100008	09990 289
0010100051	FR	Ausländis...	60 Rue de B...	Au		12	uslä	10100051	9999 320
0012100002	FR	Client Do...	7855 Rue Po...	Cl		11	lien	12100002	3358100
0010100100	DE	Inlandsku...	Lohmeyerstr...	In		12	nlan	10100100	09990 98
0010100005	DE	Inlandsku...	Heinrichstra...	In		12	nlan	10100005	09990 45
0000100065	IN	Testing Cu...	Chennai 12...	Te		0	esti	100065	
0010100006	DE	Inlandsku...	Holstenstraß...	In		13	nlan	10100006	09990 254
0010100060	HU	Foreign D...	Gellért Iroda...	Fo		15	orei	10100060	0036 4578 3
0010100273	DE	Inlandsku...	Saarbrücke...	In		0	nlan	10100273	
0012100004	FR	client do...	33 rue de Su...	cl		10	lien	12100004	014590
0012100009	FR	client do...	27 Rue Mon...	cl		10	lien	12100009	014590
0012100005	FR	client do...	121 Saint Vi...	cl		13	lien	12100005	014590232
0012100008	FR	client do...	14 Rue de S...	cl		10	lien	12100008	014590
0012100060	DE	Foreign F...	Lindenstraß...	Fo		12	orei	12100060	09990 45
0001001051	DE	Electorme...	Street 2 Wal...	El		0	lect	1001051	
0012100273	FR	client do...	2 Victor Hug...	cl		10	lien	12100273	04
0012100050	US	Non-dom...	1300 Confe...	No		12	on-d	12100050	999 236
0012100003	FR	client do...	3 Boulevard ...	cl		10	lien	12100003	014590
0012100006	FR	client do...	21 Avenue ...	cl		8	lien	12100006	0559
0012100051	DE	Non-dom...	Lindenstraß...	No		12	on-d	12100051	09990 45
0012100007	FR	CLIENT D...	2 Grande ar...	CL		13	LIEN	12100007	014590009
0012100030	FR	Client FR ...	2367 Rue de...	Cl		11	lien	12100030	3358100

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

Scenario –

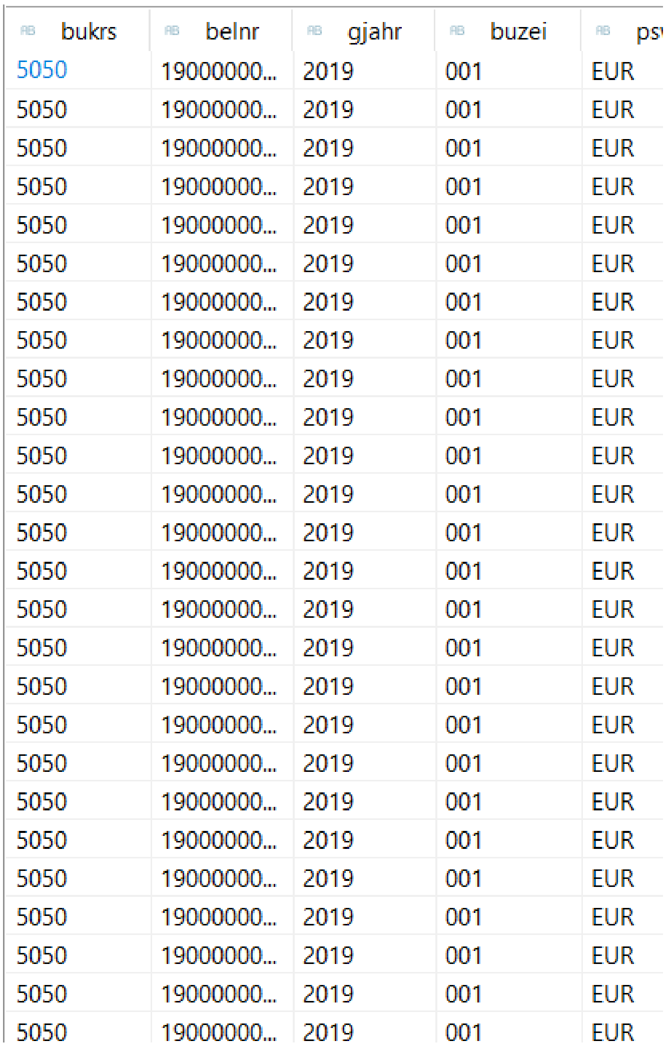
- Create a CDS view with GL currency (PSWSL) as parameter and get the entries form BSEG

Tables involved – BSEG

CDS view Code:

```
@AbapCatalog.sqlViewName: 'Z425_day14q3'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #NOT_REQUIRED
@EndUserText.label: 'parameter view day14 q3'
define view z425_day14_q3
   with parameters gl_currency  : pswsl
as select from bseg {
bukrs,
belnr,
gjahr,
buzei,
pswsl

} where pswsl = $parameters.gl_currency
```

output:



bukrs	belnr	gjahr	buzei	ps
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR
5050	19000000...	2019	001	EUR

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

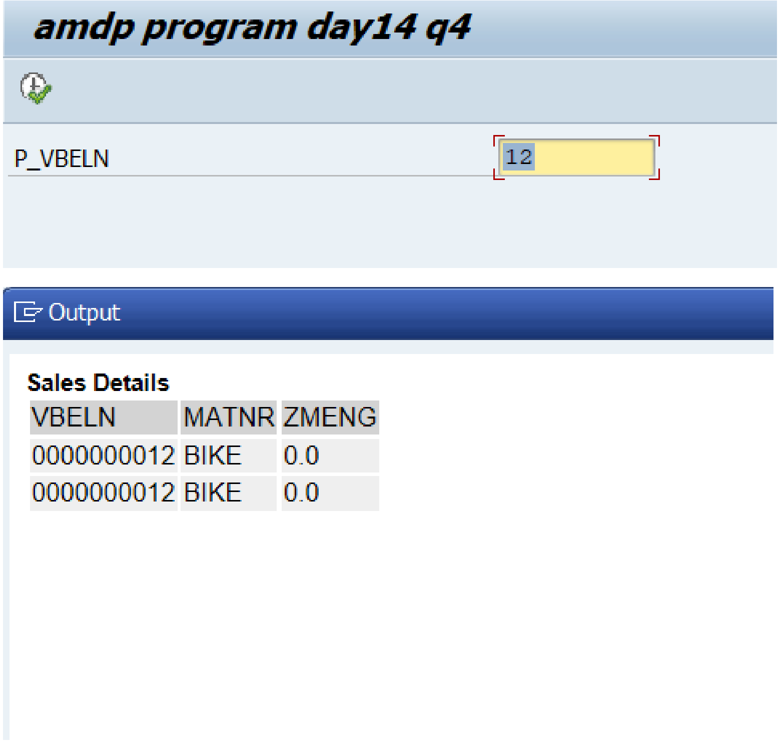
Amdp Class :

```
class Z425_DAY14_Q4_CLdefinition
  public
  final
  create public .

  public section.
  TYPES:BEGIN OF TY_vbap,
      vbeln   TYPE vbeln_va,
      matnr   TYPE matnr,
      zmeng   TYPE  dzmeng,
        END OF TY_vbap.


    TYPES: it_vbap TYPE STANDARD TABLE OF ty_vbap WITH EMPTY KEY.

   INTERFACES IF_AMDP_MARKER_HDB.

   class-METHODs get_details
    IMPORTING
      VALUE(iv_vbeln) TYPE vbeln
    EXPORTING
      VALUE(et_order) TYPE it_vbap.
  protected section.
  private section.
ENDCLASS.



CLASS Z425_DAY14_Q4_CLIMPLEMENTATION.

METHOD get_details BY DATABASE PROCEDURE
                  FOR HDB
                  LANGUAGE SQLSCRIPT
                  USING vbap.
et_order = SELECT vbeln,
                   matnr,
                   zmeng
                   From vbap where vbeln = iv_vbeln;
    endmethod.
ENDCLASS.
```

Execution Code:

```
REPORT Z425_DAY14_Q2.
PARAMETERS : p_vbeln type vbeln.
z265_amdp_day14q4=>GET_DETAILS(
  exporting
    IV_VBELN = p_vbeln
  importing
    ET_ORDER = data(ta_vbap)
).
cl_demo_output=>display_data(
  EXPORTING
    value = ta_vbap
    name  = 'Sales Details'
).
```

output:



amdp program day14 q4

P_VBELN 12

Sales Details

VBELN	MATNR	ZMENG
0000000012	BIKE	0.0
0000000012	BIKE	0.0

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.

Code:

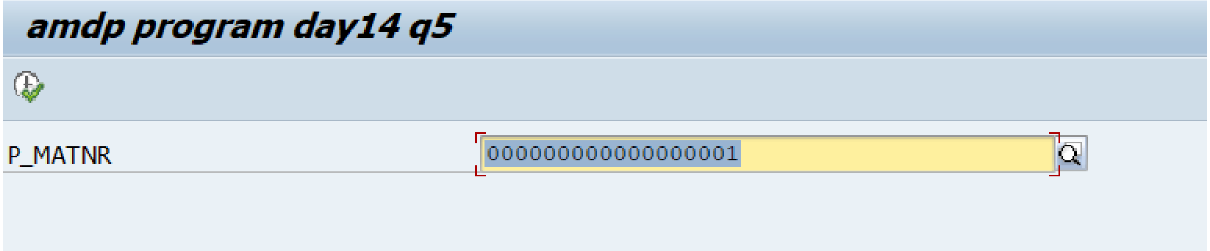
```
class Z425_DAY14_Q5_CLdefinition
  public
  final
  create public .
```

```
 public section.
  TYPES:BEGIN OF TY_SALES,
     VBELN TYPE VBELN_VA,
     VKORG TYPE VKORG,
     MATNR TYPE MATNR,
     MATKL TYPE MATKL,
     END OF TY_SALES.
  TYPES IT_SALES TYPE TABLE OF TY_SALES.
  INTERFACES IF_AMDP_MARKER_HDB.
  CLASS-METHODS
     GET_SALES
       IMPORTING VALUE(IM_MATNR) TYPE MATNR
       EXPORTING VALUE(EX_SALES) TYPE IT_SALES.
 protected section.
 private section.
ENDCLASS.



CLASS Z425_DAY14_Q5_CLIMPLEMENTATION.
 METHOD GET_SALES BY DATABASE PROCEDURE
           FOR HDB
           LANGUAGE SQLSCRIPT
           USING VBAK VBAP.

  EX_SALES = SELECT V1.VBELN,
           V1.VKORG,
           V2.MATNR,
           V2.MATKL
          FROM VBAK AS V1 INNER JOIN VBAP AS V2
          ON V1.VBELN = V2.VBELN
          WHERE MATNR = IM_MATNR;

endmethod.
ENDCLASS.
```

Program Code:

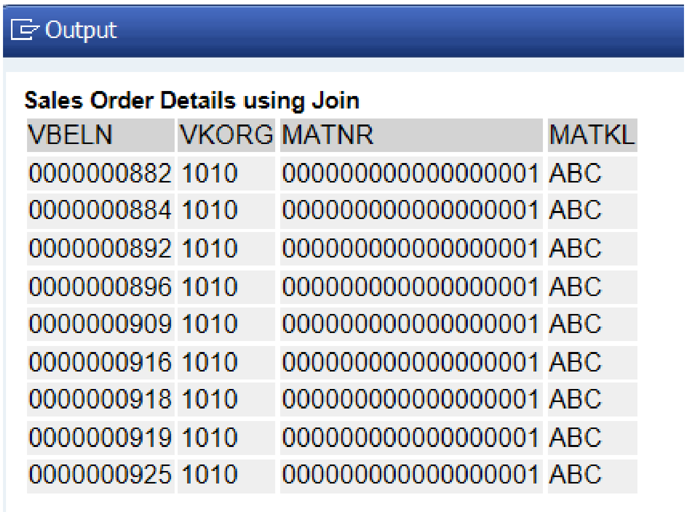
```
REPORT Z425_DAY14_Q5.
Parameters : p_matnr type matnr.

z265_amdp_day14q5=>GET_SALES(
 exporting
  IM_MATNR = p_matnr
 importing
  EX_SALES = DATA(RS_VBAK)
).


CL_DEMO_OUTPUT=>display_data(
 EXPORTING
  value = RS_VBAK
  name  = 'Sales Order Details using Join'
).
```

output:



amdp program day14 q5

P_MATNR 000000000000000001



```
Sales Order Details using Join
VBELN      VKORG MATNR              MATKL
0000000882 1010  000000000000000001 ABC
0000000884 1010  000000000000000001 ABC
0000000892 1010  000000000000000001 ABC
0000000896 1010  000000000000000001 ABC
0000000909 1010  000000000000000001 ABC
0000000916 1010  000000000000000001 ABC
0000000918 1010  000000000000000001 ABC
0000000919 1010  000000000000000001 ABC
0000000925 1010  000000000000000001 ABC
```