**DAY14- ASSIGNMENT**

BATCH NAME: SAP ABAP HANA

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CDS-Assignment 1 –

Create a Simple CDS view with Date Functions in ABAP CDS Views

@AbapCatalog.sqlViewName: 'ZSQL\_5264'

@AbapCatalog.compiler.compareFilter: true

@AbapCatalog.preserveKey: true

@AccessControl.authorizationCheck: #NOT\_REQUIRED

@EndUserText.label: 'cds'

**define** **view** z264\_d14q1 **as** **select** **from** vbak **{**

vbeln **as** Sales\_Document**,**

auart **as** Sales\_Document\_Type**,**

audat **as** Document\_Date**,**

vdatu **as** Requested\_delivery\_date**,**

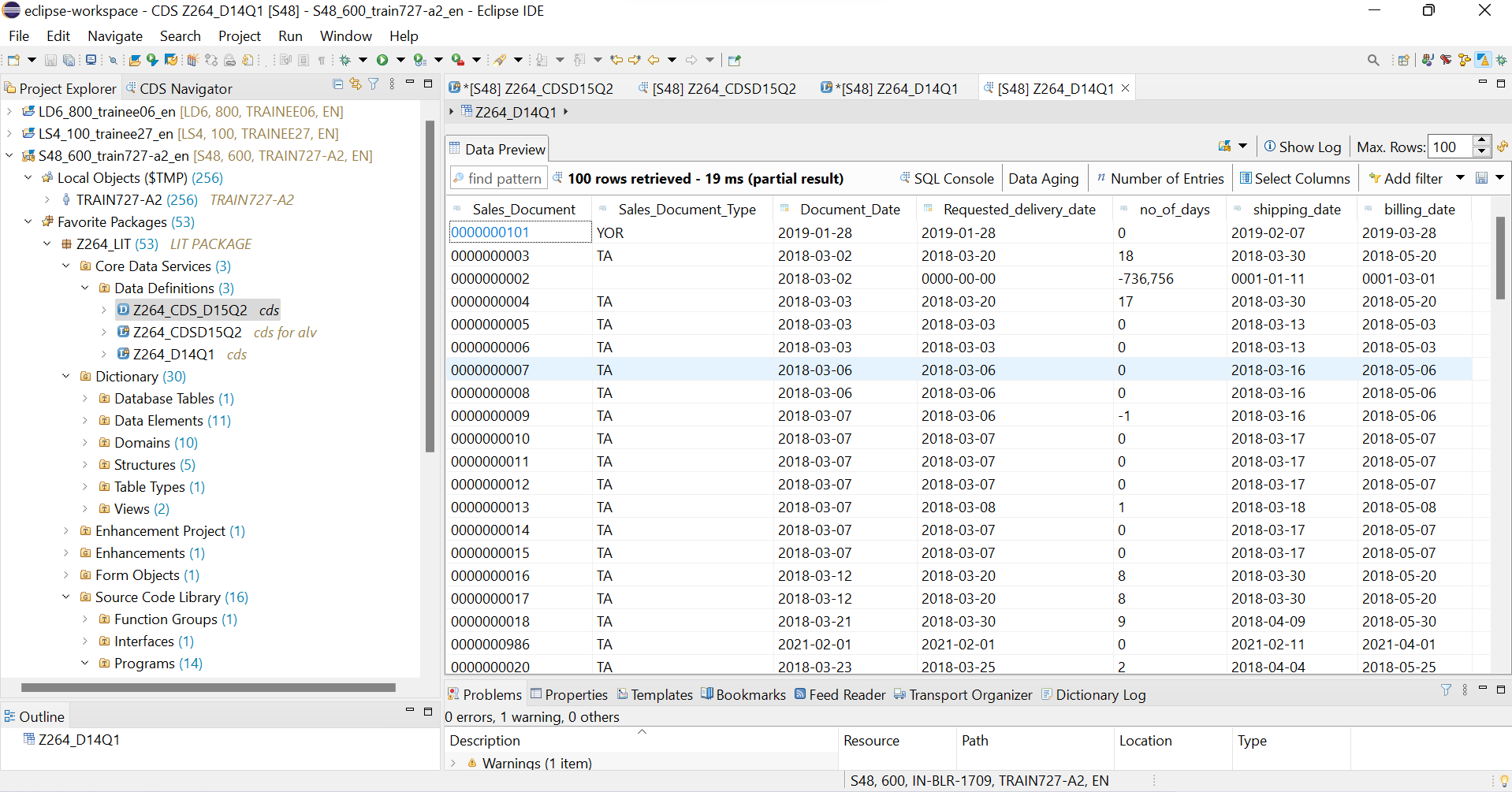
DATS\_DAYS\_BETWEEN**(**audat**,** vdatu**)** **as** no\_of\_days**,**

DATS\_ADD\_DAYS**(**vdatu**,** 10**,** 'NULL'**)** **as** shipping\_date**,**

DATS\_ADD\_MONTHS**(**vdatu**,** 2**,** 'NULL'**)** **as** billing\_date

**}**

**OUTPUT:**



 CDS-Assignment 2 –

Create a Simple CDS view with String Functions in ABAP CDS Views

@AbapCatalog.sqlViewName: 'ZSQL\_264CS'

@AbapCatalog.compiler.compareFilter: true

@AbapCatalog.preserveKey: true

@AccessControl.authorizationCheck: #NOT\_REQUIRED

@EndUserText.label: 'cds string'

**define** **view** z264\_d14q2 **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**,**

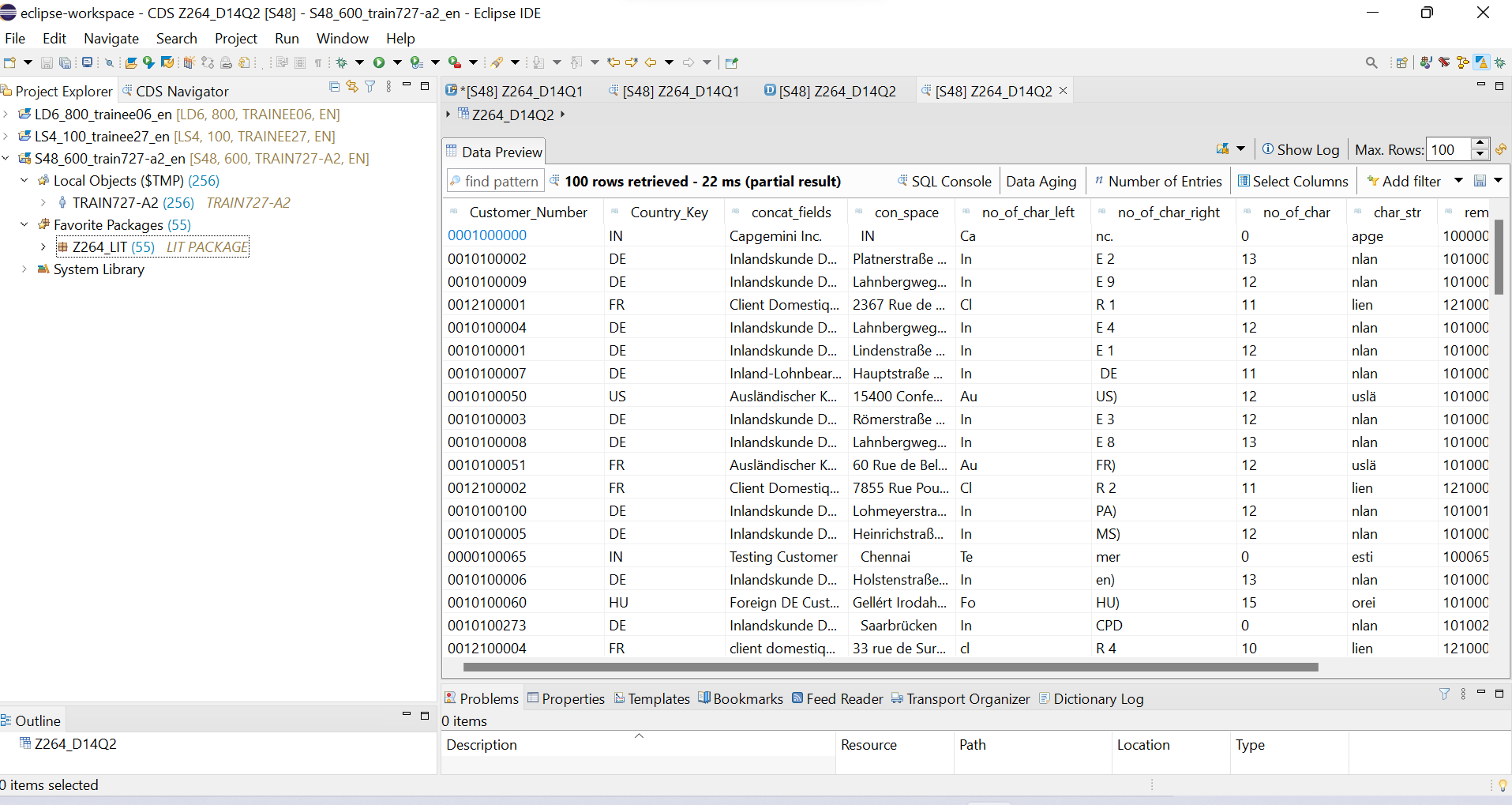
substring**(**name1**,**2**,**4**)** **as** char\_str**,**

ltrim**(**kunnr**,** '0'**)** **as** rem\_zeros**,**

rtrim**(**telf1**,**'4'**)** **as** rem\_last\_char

**}**

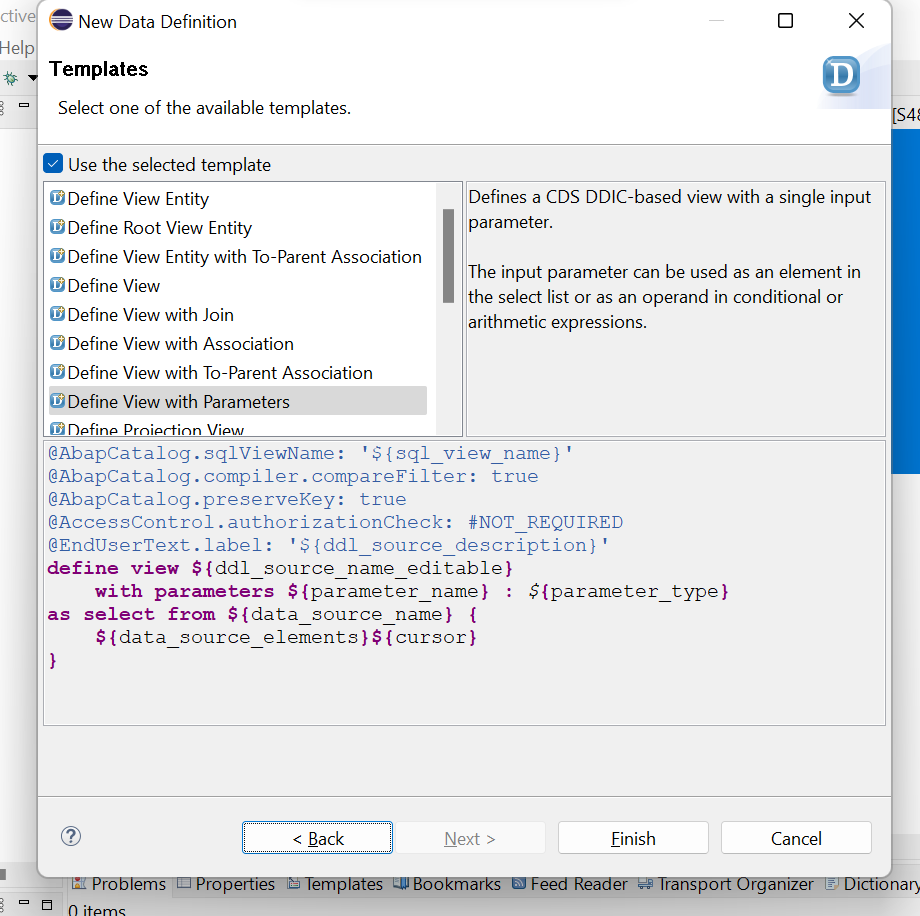
**OUTPUT:**



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



 @AbapCatalog.sqlViewName: 'Z264\_CDSPAR'

@AbapCatalog.compiler.compareFilter: true

@AbapCatalog.preserveKey: true

@AccessControl.authorizationCheck: #NOT\_REQUIRED

@EndUserText.label: 'CDS WITH PARAMETERS'

**define** **view** z264\_d14q3

**with** **parameters** in\_curr **:** *abap***.***cuky***(**5**)**

**as** **select** **from** bseg**{**

bukrs**,**

belnr**,**

gjahr**,**

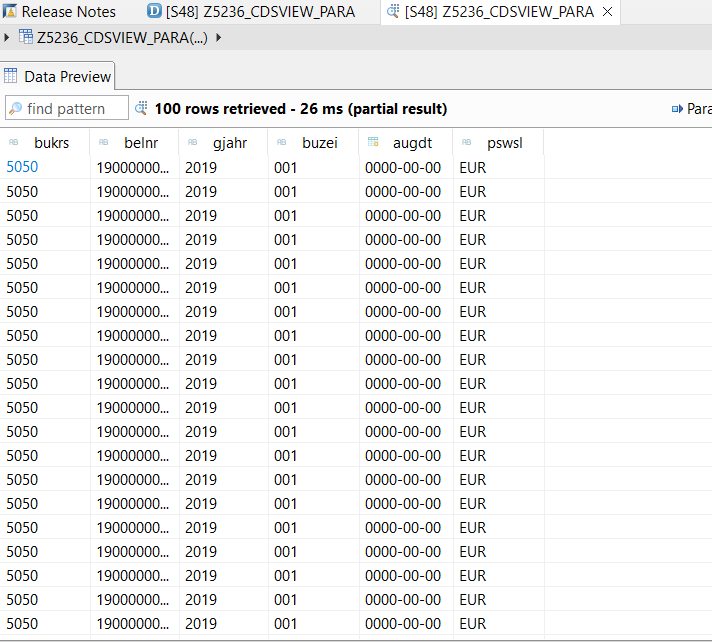
buzei**,**

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

**AMDP CLASS:**

class zz64\_d14\_amdp1definition

  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 zz64\_d14\_amdp1IMPLEMENTATION.

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.



**REPORT:**

\*&---------------------------------------------------------------------\*

\*& Report z264\_d14\_amdp1

\*&---------------------------------------------------------------------\*

\* Description:                                                        \*

\*                                                                      \*

\* Author:                                                             \*

\*                                                                      \*

\* Create date:                                                       \*

\*                                                                      \*

\*&---------------------------------------------------------------------\*

\* Modification log:                                                    \*

\* -------------------------------------------------------------------- \*

\* Date        User name      ID       Change Request   Case ref.       \*

\*             Description                                              \*

\*&---------------------------------------------------------------------\*

REPORT z264\_d14\_amdp1.

PARAMETERS : p\_vbeln type vbeln.

zz64\_d14\_amdp1=>GET\_DETAILS(

  exporting

    IV\_VBELN = p\_vbeln

  importing

    ET\_ORDER = data(ta\_vbap)

).

cl\_demo\_output=>display\_data(

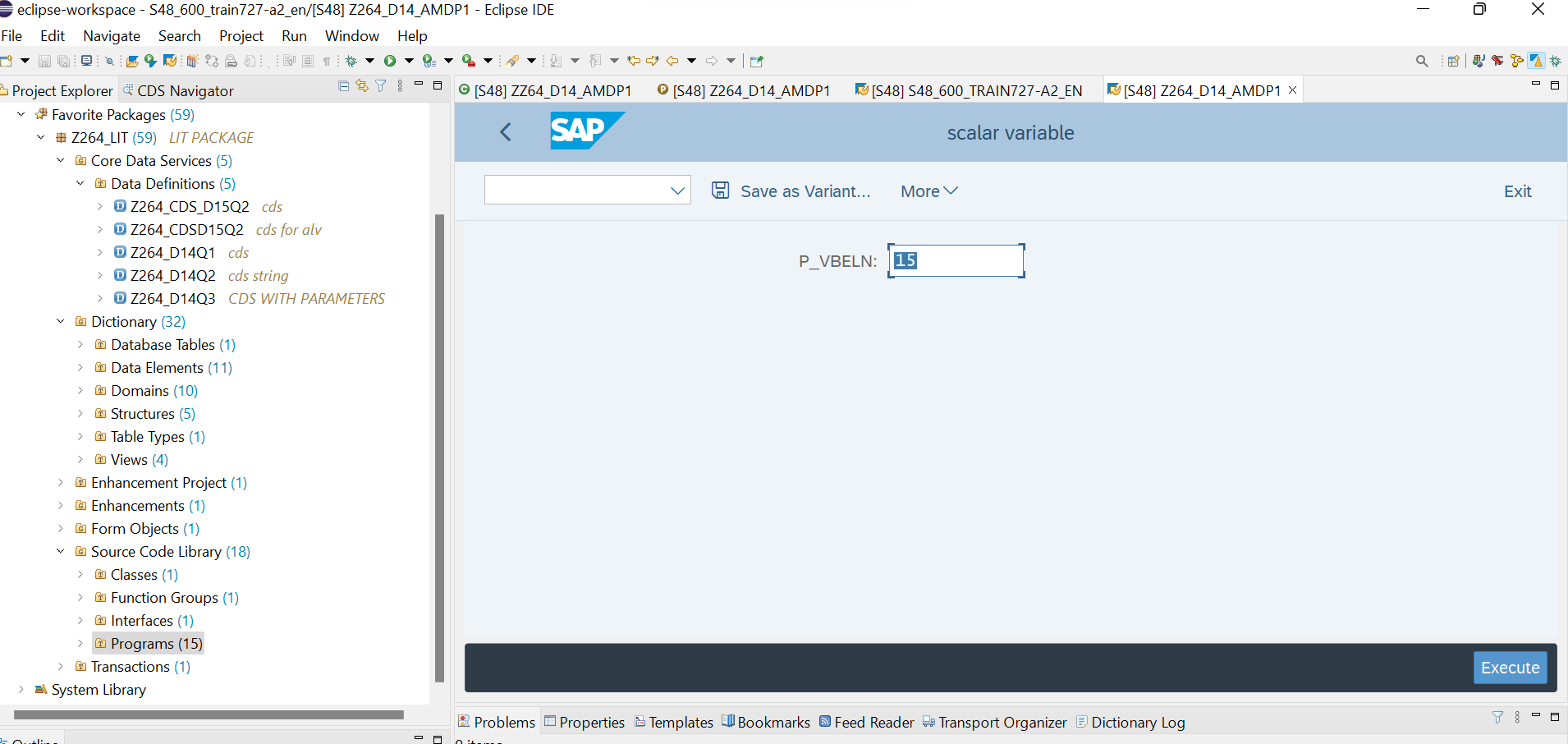
  EXPORTING

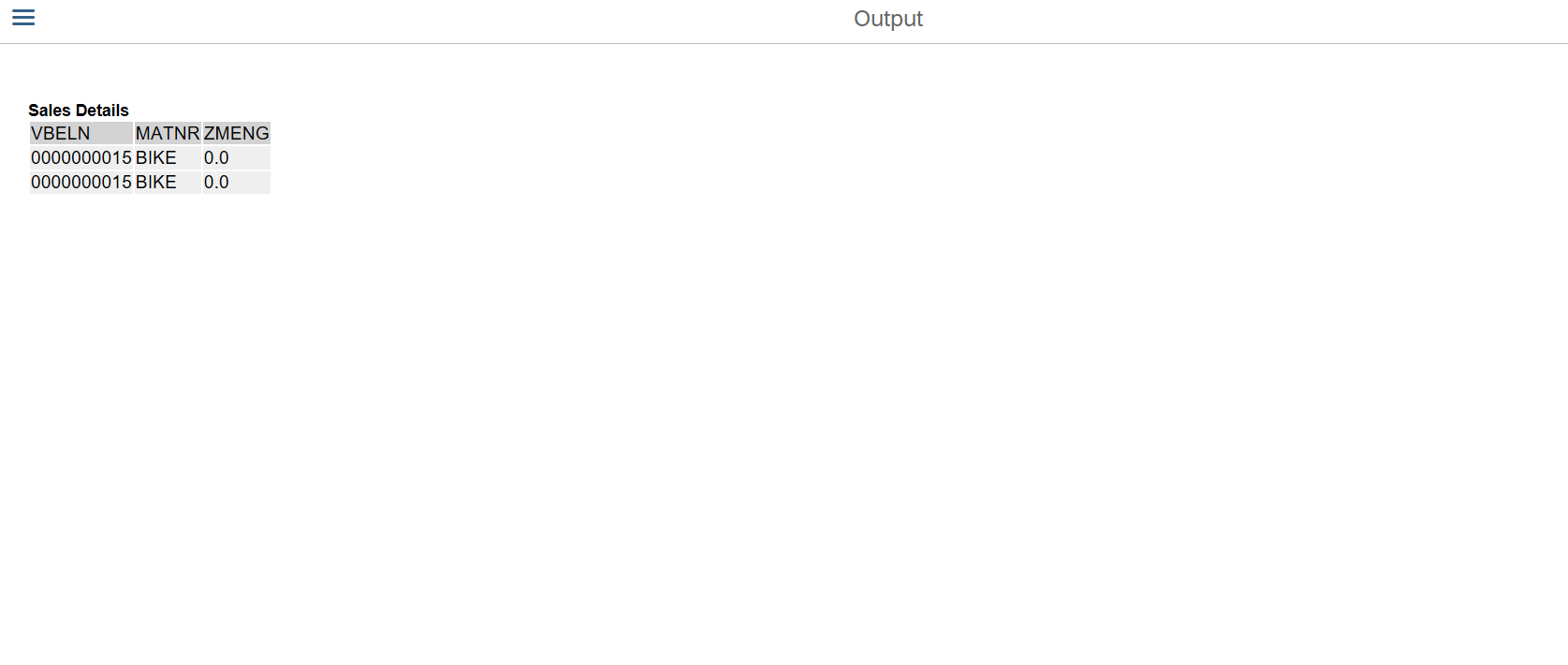
    value = ta\_vbap

    name  = 'Sales Details'

).

**OUTPUT:**



AMDP-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

**AMDP CLASS:**

class z264\_d14\_amdp2definition

  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 z264\_d14\_amdp2IMPLEMENTATION.

 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.

REPORT:

\*&---------------------------------------------------------------------\*

\*& Report z264\_amdp2\_d14

\*&---------------------------------------------------------------------\*

\* Description:                                                       \*

\*                                                                      \*

\* Author:                                                            \*

\*                                                                      \*

\* Create date:                                                       \*

\*                                                                      \*

\*&---------------------------------------------------------------------\*

\* Modification log:                                                    \*

\* -------------------------------------------------------------------- \*

\* Date        User name      ID       Change Request   Case ref.       \*

\*             Description                                              \*

\*&---------------------------------------------------------------------\*

REPORT z264\_amdp2\_d14 .

Parameters : p\_matnr type matnr.

z264\_d14\_amdp2=>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:**

