

How to consume Attribute Views in ABAP on HANA

08/02/2015

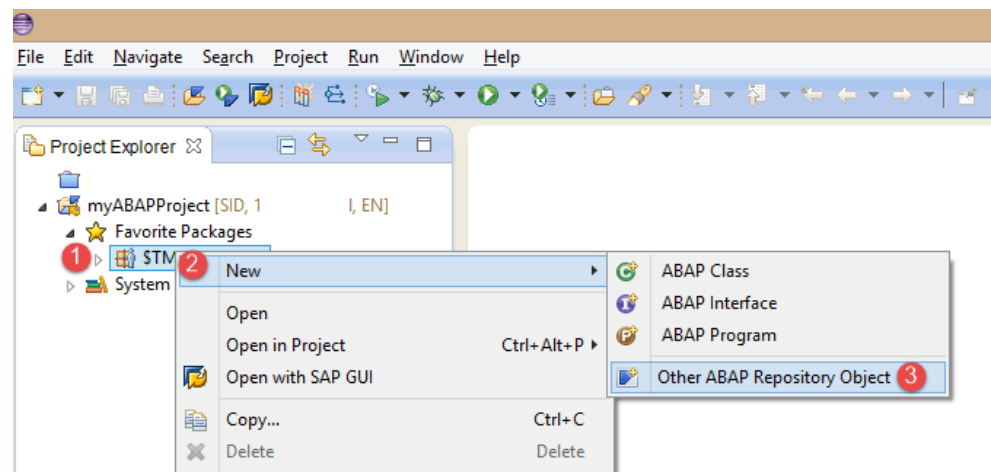
Hello everyone, in this ABAP on HANA tutorial, we will learn how to consume Attribute Views in ABAP on HANA. Lets get started.

Prerequisites

1. You should have Attribute View created in HANA Repository. Please read our previous tutorial on [how to create Attribute View](#).
2. You should have created [ABAP project in Eclipse IDE](#).

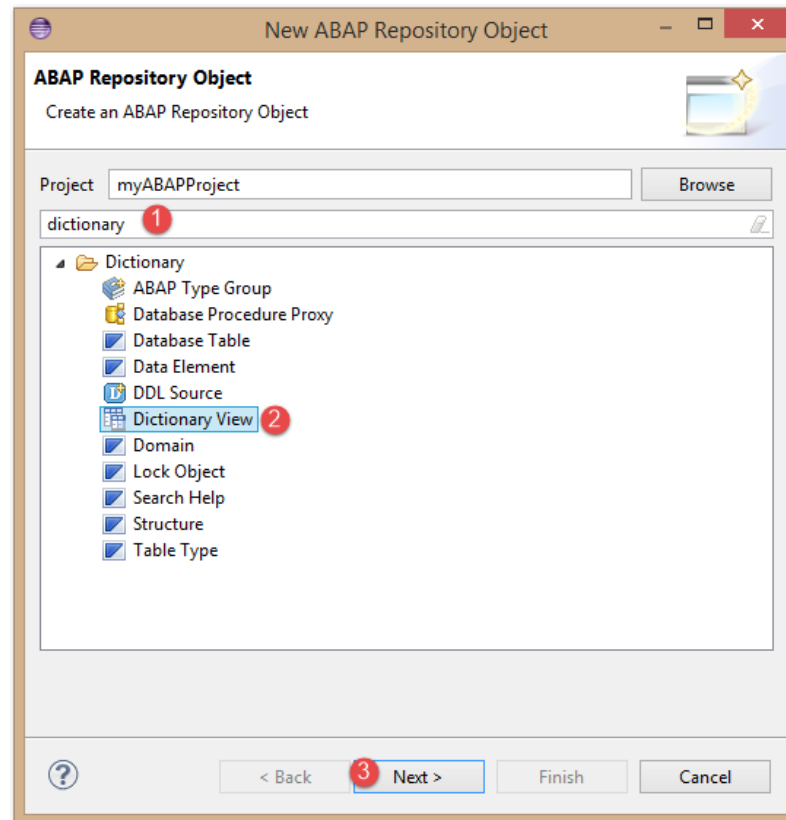
Step-By-Step Procedure

1. Right Click on your package and choose **New** → **Other ABAP Repository Object**.



New ABAP Repository Object

2. In the **New ABAP Repository Object** window, search by "dictionary" and choose **Dictionary View** under Dictionary folder and hit **OK**.



New Dictionary View

3. In the **New Dictionary View** window, enter **Name**, **Description** and choose **External View** radio button and enter our attribute view name we created in our previous tutorial.

♦ **Tip** : To search for attribute view name you can use Browse button or press **Ctrl+space** (Content Assist Available).

Dictionary View
Create a Dictionary View

Project * myABAPProject Browse...

Package: * \$TMP Browse...

☐ Add to favorite packages

Name: * ZEV_EMP_INFO 1

Description: * External View for Attribute View 2

Original Language: EN

☐ Dictionary View

☒ External View 3

SAP HANA View: * ZEV_EMPLOYEE_INFO 4 Browse...



? < Back 5 Next > Finish Cancel

Dictionary View Details

4. In **Selection of Transport Request** window, choose the transport request in which you want to save the program and hit **Finish** button. Here we are saving the program in \$TMP package so transport request not required.

New ABAP Program

Selection of Transport Request

 No change recording enabled for package STMP 

☐ Choose from requests in which I am involved 1


Transport Request	User	Target	Text
-------------------	------	--------	------


☐ Create a new request

Request description:

☐ Enter a request number

Request number:

 2

5. External View will be created successfully. Click on activate button  to activate the external view created.

Dictionary View: ZEV_EMP_INFO

General Attributes

View Type: External View

SAP HANA View: ZEV_EMPLOYEE_INFO

Fields

DDIC Name	DDIC Type	Length	Decimals	SAP HANA Name	SAP HANA Type
EMPLOYEE_ID	CHAR	10	0	EMPLOYEE_ID	NVARCHAR(10)
FIRST_NAME	CHAR	40	0	FIRST_NAME	NVARCHAR(40)
MIDDLE_NAME	CHAR	40	0	MIDDLE_NAME	NVARCHAR(40)
LAST_NAME	CHAR	40	0	LAST_NAME	NVARCHAR(40)
INITIALS	CHAR	10	0	INITIALS	NVARCHAR(10)
SEX	CHAR	1	0	SEX	NVARCHAR(1)
EMAIL_ADDRESS	CHAR	255	0	EMAIL_ADDRESS	NVARCHAR(255)
CURRENCY	CHAR	5	0	CURRENCY	NVARCHAR(5)
SALARY_AMOUNT	DEC	15	2	SALARY_AMOUNT	DECIMAL(15,2)
CITY	CHAR	40	0	CITY	NVARCHAR(40)
POSTAL_CODE	CHAR	10	0	POSTAL_CODE	NVARCHAR(10)
BUILDING	CHAR	10	0	BUILDING	NVARCHAR(10)
STREET	CHAR	60	0	STREET	NVARCHAR(60)
COUNTRY	CHAR	3	0	COUNTRY	NVARCHAR(3)

Activate External View

6. Congrats, you have successfully created a Dictionary View(External View) for a HANA Attribute View.

Now we need to call this dictionary view ZEV_EMP_INFO in our ABAP program using Open SQL statement.

7. Before calling the view in an ABAP program, we do a quick and easy test to access the data.

Go to **SE16N(Data Browser)** enter ZEV_EMP_INFO and Execute.

[SID] ZEV_EMP_INFO

[SID] ZDEMO_HANA_VIEW

[SID] MYABAPPROJECT

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8. Create a sample ABAP Program ZDEMO_HANA_VIEW in your package. To know how to create an ABAP program [click here](#). Copy and paste the below code into the abap program.

```
REPORT zdemo_hana_view.
```

```
*-- Internal declaration for Dictionary View
```

```
DATA: lt_emp_info TYPE TABLE OF zev_emp_info,
      lo_salv      TYPE REF TO cl_salv_table.
```

```
*-- Open SQL statement to access Dictionary View
```

```
SELECT * FROM zev_emp_info
       INTO TABLE lt_emp_info.
```

```
*.. ALV Display
```

```
cl_salv_table=>factory(
  IMPORTING
    r_salv_table = lo_salv
  CHANGING
```

```
t_table      = lt_emp_info ).
```

```
lo_salv->display( ).
```

9. Save and activate the program and execute the report.

Output

[SID] ZEV_EMP_INFO

[SID] ZDEMO_HANA_VIEW

[SID] ZDEMO_HANA_VIEW

Menu

Congrats, you have successfully know how to consume Attribute Views in ABAP on HANA.

Please stay tuned to us for more ABAP on HANA Eclipse tutorials. Please feel free to comment and let us know your feedback. Your feedback will keep us alive.

Thank you. 😊



Prakash

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