

# TMG Using RAP

## Step 1: Create Your Custom Table. Right-click → **New** → **Other Repository Object** → **Database Table**

- **Mandatory Settings (inside the red box).**

```
@EndUserText.label : 'Employee Master Data'
@AbapCatalog.enhancement.category : #NOT_EXTENSIBLE
@AbapCatalog.tableCategory : #TRANSPARENT
@AbapCatalog.deliveryClass : #A
@AbapCatalog.dataMaintenance : #ALLOWED
define table zemploye_master {

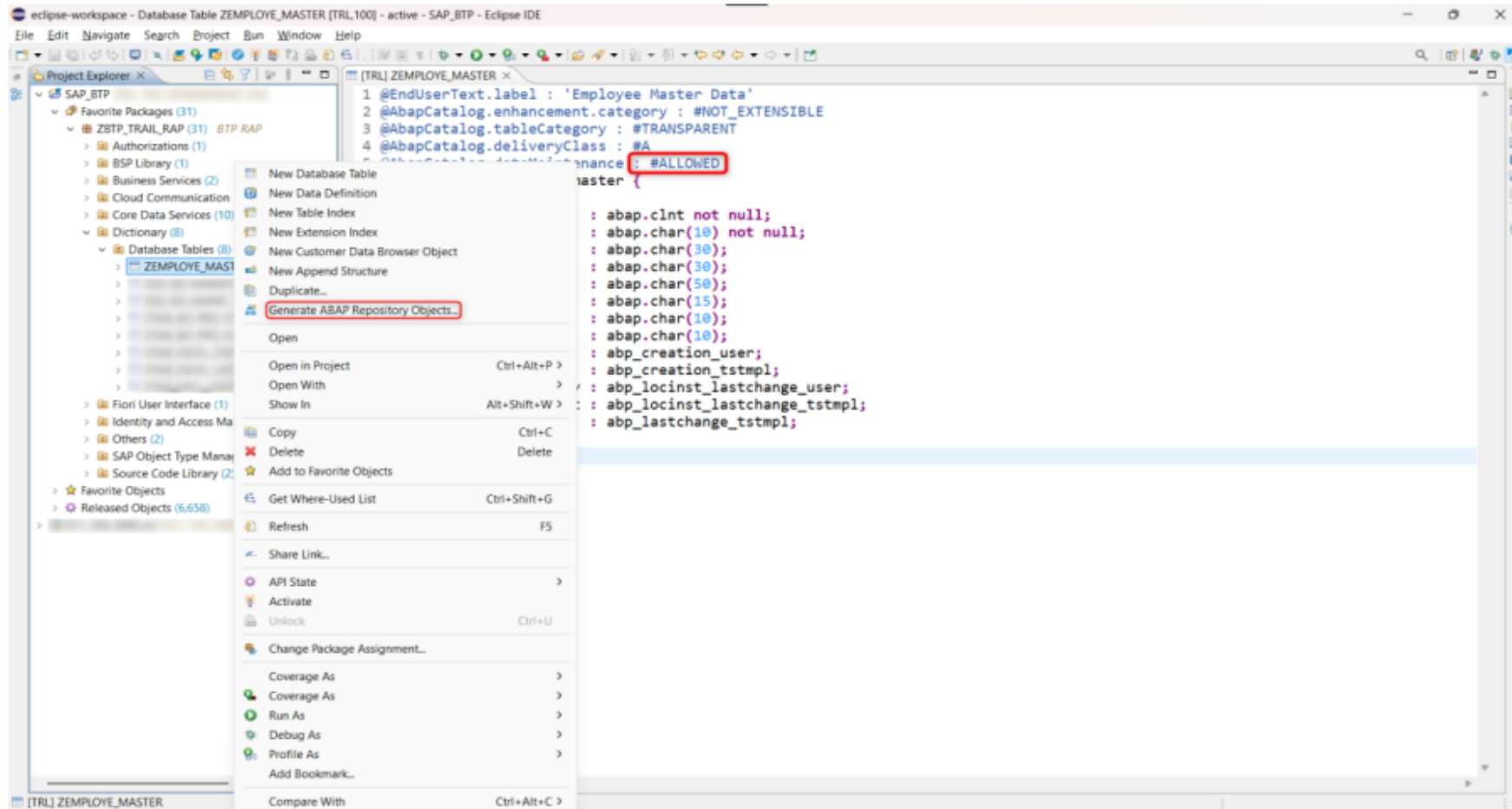
    key client          : abap.clnt not null;
    key employee_id     : abap.char(10) not null;
    first_name          : abap.char(30);
    last_name           : abap.char(30);
    email               : abap.char(50);
    phone               : abap.char(15);
    department_id       : abap.char(10);
    manager_id          : abap.char(10);
    local_created_by    : abp_creation_user;
    local_created_at     : abp_creation_tstmpl;
    local_last_changed_by : abp_locinst_lastchange_user;
    local_last_changed_at : abp_locinst_lastchange_tstmpl;
    last_changed_at      : abp_lastchange_tstmpl;

}
```

## Step 2: Generate ABAP Repository Objects.

After saving the table:

- In the **Project Explorer**, right-click your table.
- Choose **Generate ABAP Repository Objects**.



## You'll see a screen titled **Select Generator**:

- Select **OData UI Service**
- Click **Next**
- Your **package**
- Click **Next**

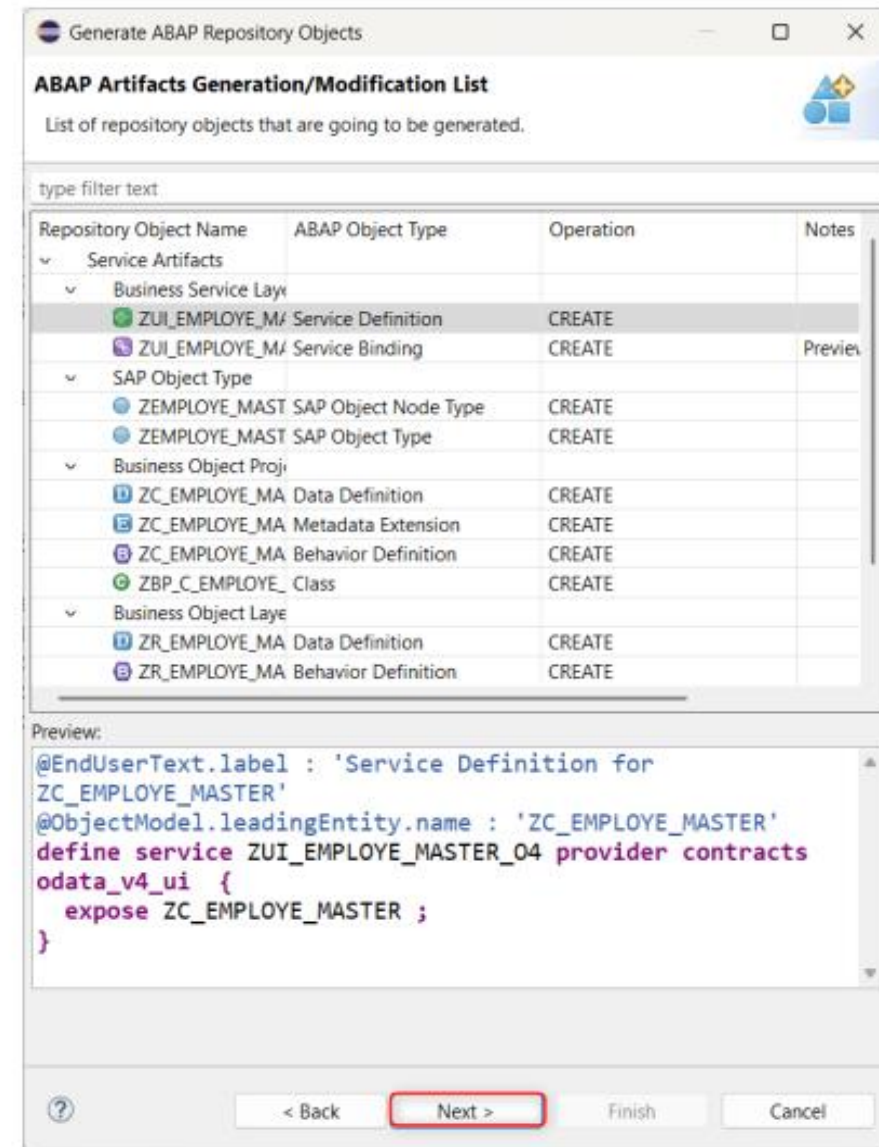
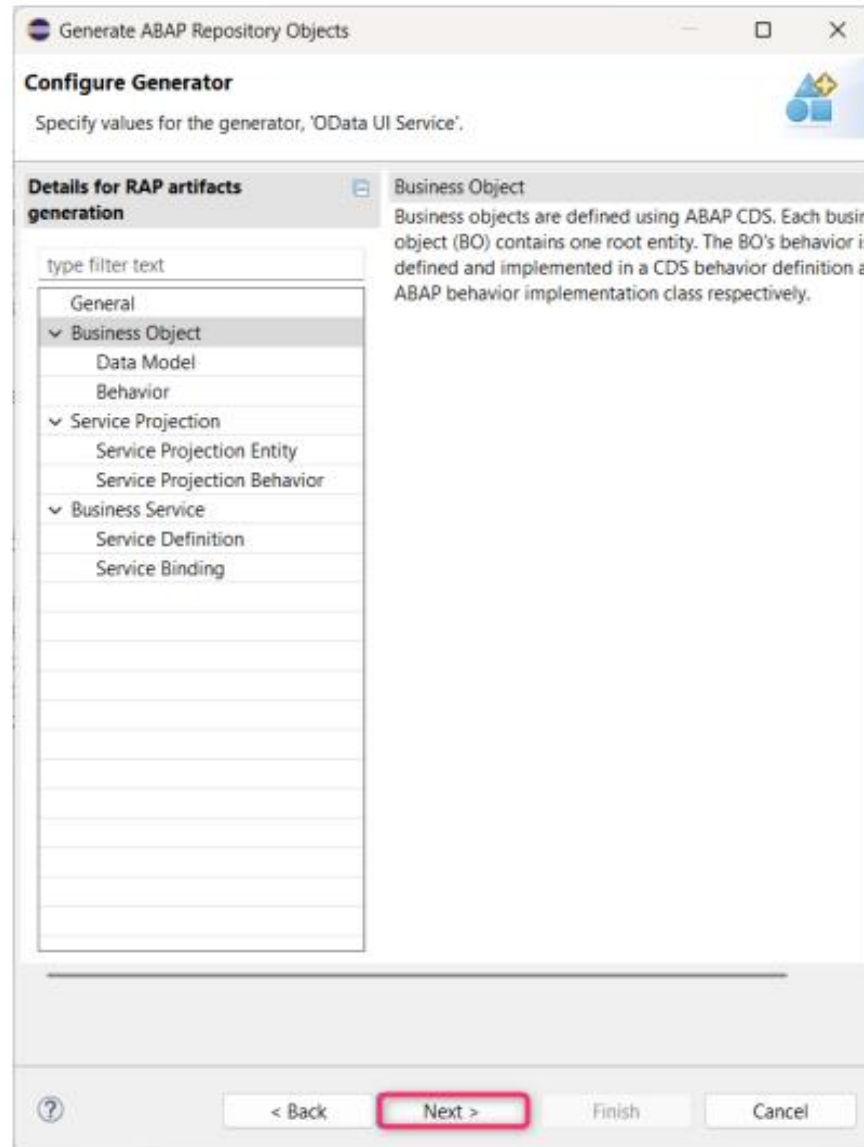
The 'Select Generator' dialog box is shown. It has a title bar 'Generate ABAP Repository Objects' and a subtitle 'Select Generator'. Below the subtitle is the instruction 'Generate multiple repository objects.' The 'Project: \*' field contains 'SAP\_BTP' and has a 'Browse...' button. The 'Filter by:' field contains 'TABL (Database Table)'. A search filter 'type filter text' is present. A tree view on the left shows the following structure:

- ABAP RESTful Application Programming Model
  - OData UI Service** (highlighted)
  - OData Web API Service
- Business Configuration Management
  - Business Configuration Maintenance Object

The right pane displays information for the selected 'OData UI Service' generator, including a description and a list of objects it creates: CDS view entity, CDS behavior definition, and ABAP implementation class. At the bottom, the 'Referenced Object:' field contains 'ZEMPLOYE\_MASTER' with a 'Browse...' button. Navigation buttons at the bottom include '< Back', 'Next >', 'Finish', and 'Cancel'.

The 'Enter Package' dialog box is shown. It has a title bar 'Generate ABAP Repository Objects' and a subtitle 'Enter Package'. Below the subtitle is the instruction 'Enter the details required to generate the objects.' The 'Project: \*' field contains 'SAP\_BTP'. The 'Package: \*' field contains 'ZBTP\_TRAIL\_RAP' and has a 'Browse...' button. The 'Referenced Object: \*' field contains 'ZEMPLOYE\_MASTER'. The 'Original Language:' field contains 'EN'. Navigation buttons at the bottom include '?', '< Back', 'Next >', 'Finish', and 'Cancel'.

- **Configure Generator:** Just click **Next** (no selections needed)
- **ABAP Artifacts Generator:** Again, click **Next**



### Step 3: Publish and Test the App.

After the generation process:

- A **Service Binding** will be created.
- **Right-click → Publish**
- Wait for a few moments until you see the **Service Version Details** appear.

The screenshot shows the SAP Service Binding and Service Version Details interface. The left pane is titled "Service Binding: ZUI\_EMPLOYE\_MASTER\_O4" and contains a "General Information" section with "Binding Type: OData V4 - UI". Below this is the "Services" section, which includes a "Local Service Endpoint" field set to "Unpublished" and a "Publish" button. A table lists the services associated with the binding:



Service Name	Version	API State	Service Definition
▼ ZUI_EMPLOYE_MASTE	1.0.0	Not Released	ZUI_EMPLOYE_MASTER_I



The right pane is titled "Service Version Details" and shows information for the selected service version. It includes fields for "Service URL" and "Test App URL", a "Test..." button, and a "Preview..." button. The "Entity Set and Association" section lists "ZC\_EMPLOYE\_MASTER". A "Create Fiori App..." button is also visible. Two numbered callouts are present: "1" points to the "Publish" button, and "2" points to the "Preview..." button.



## Click Preview

- The browser will open a **Fiori Elements App** based on your table.
- Click the **Create** button to add a new record.


 Preview for Fiori Elements App 



**Standard**  


Editing Status:  Employeeid:  FirstName:  LastName:  Email:  Phone:

Departmentid:  Managerid:  Created By:  Created On:  Changed By:  Changed On:

Changed On:

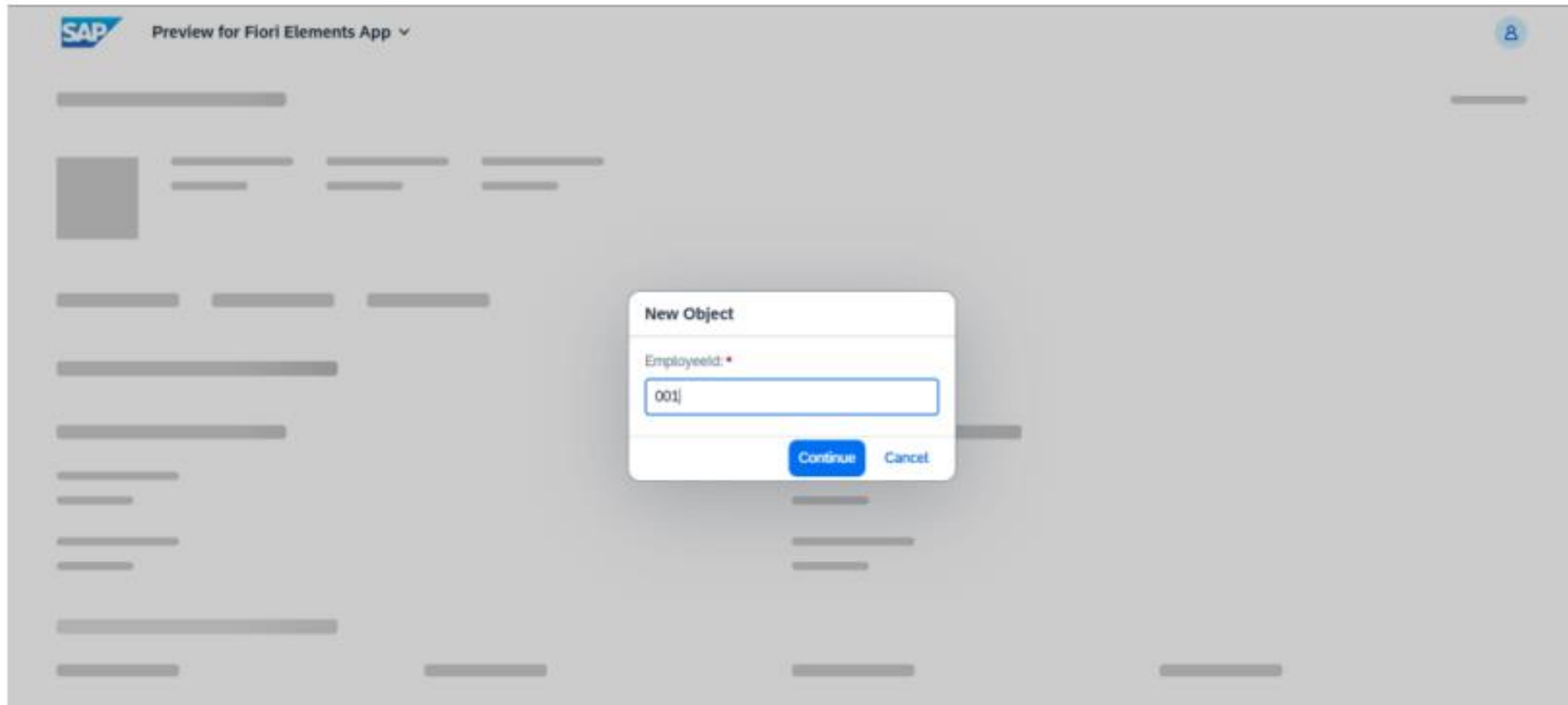
 Adapt Filters (1)

<input type="checkbox"/>	Employeeid	FirstName	LastName	Email	Phone	Departmentid	Managerid	Created By
								


## Step 4: Use the App Like TMG.

- Enter the Employee ID and click Continue





- You'll be taken to another page where you can enter more fields like name, department, etc.
- Click **Create** – this will save the record.

 ###GENERATED Core Data Service Entity 8

**001**  
001

### General Information

EmployeeId: 001	Email: <input type="text"/>	ManagerId: <input type="text"/>	Changed By: CB9980008387
FirstName: <input type="text"/>	Phone: <input type="text"/>	Created By: CB9980008387	Changed On: May 29, 2025, 11:37:01AM
LastName: <input type="text"/>	DepartmentId: <input type="text"/>	Created On: May 29, 2025, 11:37:01AM	Changed On: –

- Preview the data.
- Use **filters** to fetch specific records

**SAP** Preview for Fiori Elements App ▾

**Standard** ▾

Editing Status: All ▾

EmployeeId:

FirstName:

LastName:

Email:

Phone:

DepartmentId: =002 x |

ManagerId:

Created By:

Created On:

Changed By:

Changed On:

**Go** Adapt Filters (2)

EmployeeId	FirstName	LastName	Email	Phone	DepartmentId	ManagerId
001	Krithik	Sivakumar	cskrithiksivakumar@gmail.com		002	2025
003	Ameer	Harris	AmeerHarris@gmail.com		002	2025
006	thoufik	abdullah	thoufikabdullah@gmail.com		002	2025
007	Karan	S	KaranS@gmail.com		002	2025

- Confirm that the data is **saved to your table** in the backend

[TRL] ZEMPLOYEE\_MASTER [TRL] ZUI\_EMPLOYEE\_MASTER\_O4 [TRL] ZEMPLOYEE\_MASTER x

Data Preview

find pattern 7 rows retrieved - 38 ms

SQL Console # Number of Entries Configure... Add Filter

CLIENT	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE	DEPARTMENT_ID	MANAGER_ID	LOCAL_CREATED_BY	LOCAL_CREATED_AT	LOCAL_LAST_CHANGED_BY
100	002	Rohith	Kumar	rohithkumar...		007	2025	CB9980008387	20250527121858.6919280	CB9980008387
100	001	Krithik	Sivakumar	cskrithiksivak...		002	2025	CB9980008387	20250527122145.4572490	CB9980008387
100	003	Ameer	Harris	AmeerHarris...		002	2025	CB9980008387	20250527122016.9730020	CB9980008387
100	004	Akash	J U	AkashJu@g...		007	2025	CB9980008387	20250527122321.7586240	CB9980008387
100	005	Dharunika	Namagiri	DharunikaNa...		007	2025	CB9980008387	20250527122503.8008160	CB9980008387
100	006	thoufik	abdullah	thoufikabdul...		002	2025	CB9980008387	20250527122630.9565600	CB9980008387
100	007	Karan	S	KaranS@gm...		002	2025	CB9980008387	20250527122731.3078270	CB9980008387