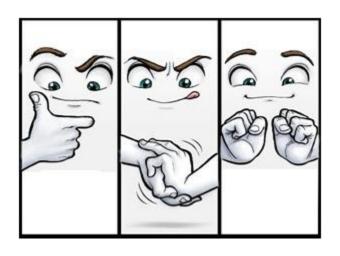
ABAP

Advanced Business Application Programming

OData-Service – Access to data [CRUD]



ABAP

Goals of the workshop

After this workshop, you should be able to:

 Create an OData-Service based on an existing DB-Table, implement and test it



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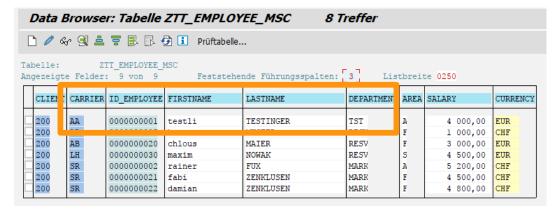


Start

<u>Transactions</u>

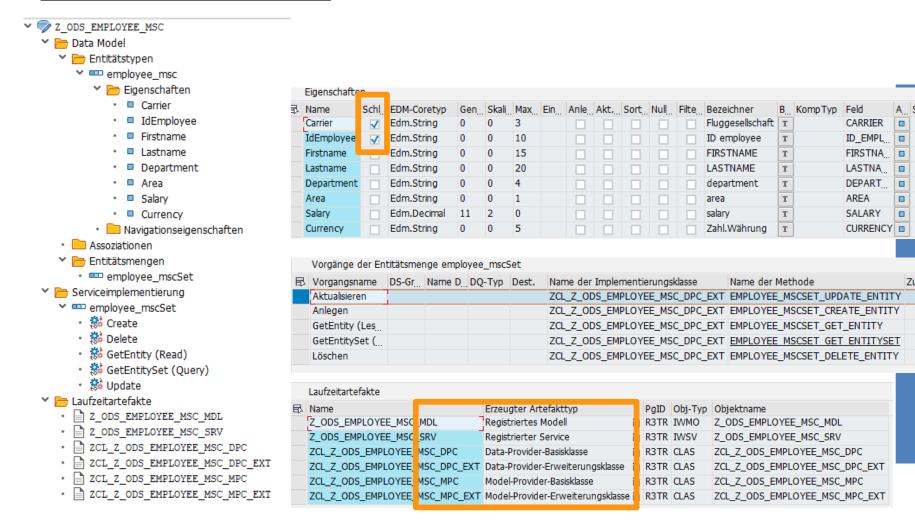
- ➤ Favoriten
 ★ SE80 Object Navigator
 ➤ odata_ui5
 ★ SEGW Transaktion SEGW
 ★ /IWFND/MAINT_SERVICE Services aktivieren u
 ★ /IWFND/GW_CLIENT Gateway Client
 ★ /IWFND/ERROR_LOG Gateway-Fehlerprotokoll
- Table

Modify first dataset : <Prename>, <Lastname>, Department TST



Create Service

Transaction SEGW



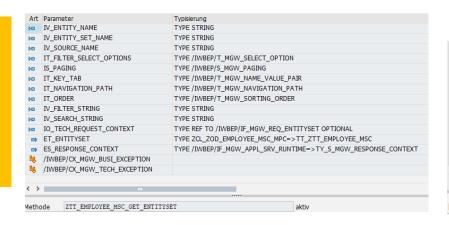
M.Schaffner/2018@gibb

Implementation: Methods

Redefine the Class-Methods

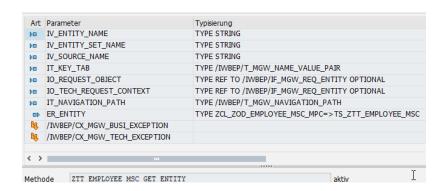
	·
✓ E ZCL_ZOD_EMPLOYEE_MSC_DPC_EXT ZODE ZO	Sekundäre Data-Provider-Klasse
✓ Superklassen	
ZCL_ZOD_EMPLOYEE_MSC_DPC	Data-Provider-Basiskl.
✓ Attribute	
Geerbte Attribute	
> IWBEP/IF_MGW_CORE_SRV_RUNTIME	OData Channel - Core Runtime Interface - Framework
 ▲ MO_CONTEXT 	MGW Context
 A MR_REQUEST_DETAILS 	the request details for a remote request to a mgw server
 A MR_SERVICE_DOCUMENT_NAME 	
 A MR_SERVICE_NAMESPACE 	
 MR_SERVICE_VERSION 	Count parameters
 A mo_injection 	
Methoden	
Geerbte Methoden	
> IWBEP/IF_SB_DPC_COMM_SERVICES	DPC Common Services
> IWBEP/IF_MGW_APPL_SRV_RUNTIME	Gateway Application Interface
> IWBEP/IF_MGW_CONV_SRV_RUNTIME	OData Channel - Application Convenience Interface
> IWBEP/IF_MGW_CORE_SRV_RUNTIME	OData Channel - Core Runtime Interface - Framework
· A CHECK SURSCRIPTION AUTHORITY	
→ Para Proposition Propos	
 ■ /IWBEP/IF_MGW_APPL_SRV_RUNTIME~EXECUTE_ACTION 	executes a function import
 ▲ ZTT_EMPLOYEE_MSC_CREATE_ENTITY 	
 A ZTT_EMPLOYEE_MSC_DELETE_ENTITY 	
 A ZTT_EMPLOYEE_MSC_GET_ENTITY 	
 A ZTT_EMPLOYEE_MSC_GET_ENTITYSET 	
 ▲ ZTT EMPLOYEE MSC UPDATE ENTITY 	
→ Typen	
> IWBEP/IF_MGW_APPL_SRV_RUNTIME	Gateway Application Interface
> IWBEP/IF_MGW_CORE_SRV_RUNTIME	OData Channel - Core Runtime Interface - Framework
• 🔳 S	Single-Character Indicator
 TY_S_MEDIA_RESOURCE 	Media Type Information

Implementation: Parameters



Art	Parameter	Typisierung	
Þ	IV_ENTITY_NAME	TYPE STRING	
Þm	IV_ENTITY_SET_NAME	TYPE STRING	
Þ	IV_SOURCE_NAME	TYPE STRING	
Þm	IT_KEY_TAB	TYPE /IWBEP/T_MGW_NAME_VALUE_PAIR	
Þ	IO_TECH_REQUEST_CONTEXT	TYPE REF TO /IWBEP/IF_MGW_REQ_ENTITY_D OPTIONAL	
Þ	IT_NAVIGATION_PATH	TYPE /IWBEP/T_MGW_NAVIGATION_PATH	
Ŋ	/IWBEP/CX_MGW_BUSI_EXCEPTION		
ß,	/IWBEP/CX_MGW_TECH_EXCEPTION		
< >	· · ·		

Metho	thode ZTT_EMPLOYEE_MSC_DELETE_ENTITY aktiv		

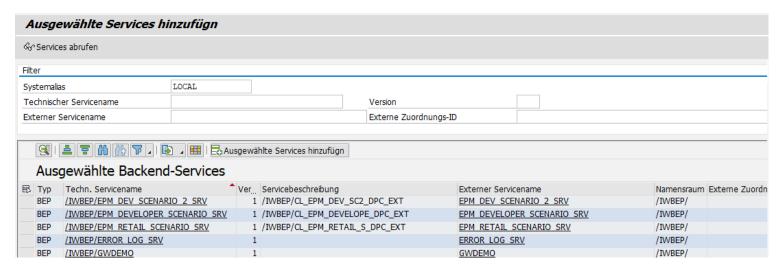


Parameter	Typisierung		
IV_ENTITY_NAME	TYPE STRING		
IV_ENTITY_SET_NAME	TYPE STRING		
IV_SOURCE_NAME	TYPE STRING		
IT_KEY_TAB	TYPE /IWBEP/T_MGW_NAME_VALUE_PAIR		
IO_TECH_REQUEST_CONTEXT	TYPE REF TO /IWBEP/IF_MGW_REQ_ENTITY_C OPTIONAL		
IT_NAVIGATION_PATH	TYPE /IWBEP/T_MGW_NAVIGATION_PATH		
IO_DATA_PROVIDER	TYPE REF TO /IWBEP/IF_MGW_ENTRY_PROVIDER OPTIONAL		
ER_ENTITY	TYPE ZCL_ZOD_EMPLOYEE_MSC_MPC=>TS_ZTT_EMPLOYEE_MSC		
/IWBEP/CX_MGW_BUSI_EXCEPTION			
/IWBEP/CX_MGW_TECH_EXCEPTION			
The state of the s			
III			

Methode ZTT_EMPLOYEE_MSC_CREATE_ENTITY aktiv			
thode ZTT_EMPLOYEE_MSC_UPDATE_ENTITY			
	IV_ENTITY_NAME IV_ENTITY_SET_NAME IV_SOURCE_NAME IT_KEY_TAB IO_TECH_REQUEST_CONTEXT IT_NAVIGATION_PATH IO_DATA_PROVIDER ER_ENTITY /IWBEP/CX_MGW_BUSI_EXCEPTION /IWBEP/CX_MGW_TECH_EXCEPTION		

Add/Activate Service

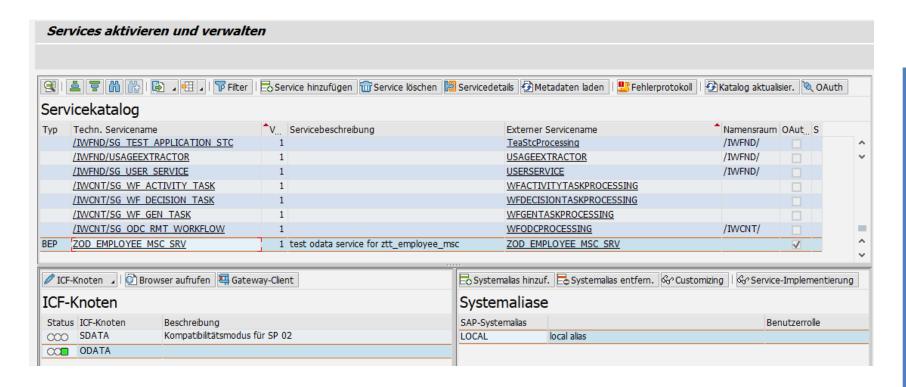
<u>Transaction /IWFND/MAINT_SERVICE</u>





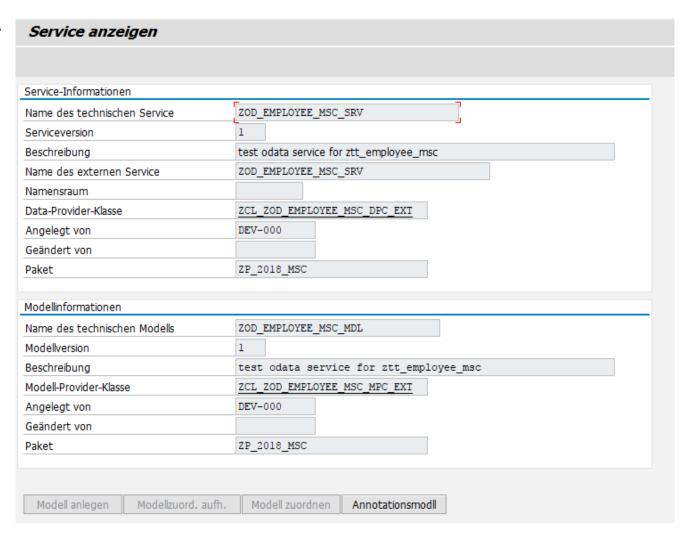
Add/Activate Service

Result



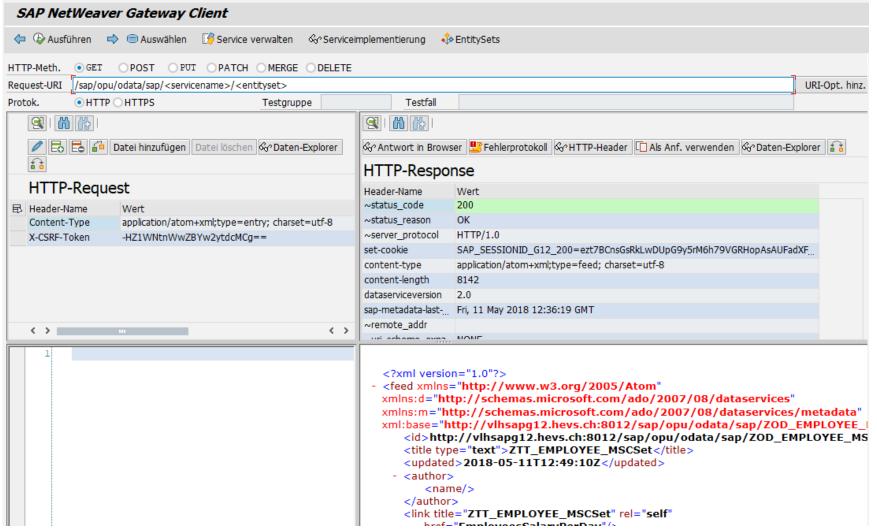
Add/Activate Service

Detailview



Test Service

Gateway Client (as in a Webbrowser)



Functionimport

Additional functionality to change/prepare data

