

# SAP NETWEAVER GATEWAY

Let's code CRUD



C.R.U.D / C.R.U.D.Q

C:Create

R:Read

U:Update

D>Delete



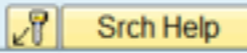



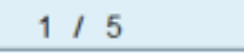
Q:Query

# Demo Table created for experiments

Transparent Table **ZUI5\_DEMO\_TABLE** Active

Short Description Demo table to learn UI5

Attributes Delivery and Maintenance Fields Entry help/check Currency/Quantity Fields

       1 / 5

Field	Key	Initi...	Data element	Data Type	Length	Decim...	Short Description
<b>ZVBLN</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>VBELN VA</b>	<b>CHAR</b>	<b>10</b>	<b>0</b>	<b>0</b> Sales Document
<b>MANDT</b>	<input type="checkbox"/>	<input type="checkbox"/>	<b>MANDT</b>	<b>CLNT</b>	<b>3</b>	<b>0</b>	<b>0</b> Client
<b>ZERDAT</b>	<input type="checkbox"/>	<input type="checkbox"/>	<b>ERDAT</b>	<b>DATS</b>	<b>8</b>	<b>0</b>	<b>0</b> Date on Which Record Was Created
<b>ZERNAM</b>	<input type="checkbox"/>	<input type="checkbox"/>	<b>ERNAM</b>	<b>CHAR</b>	<b>12</b>	<b>0</b>	<b>0</b> Name of Person who Created the Object
<b>ZBSTNK</b>	<input type="checkbox"/>	<input type="checkbox"/>	<b>BSTNK</b>	<b>CHAR</b>	<b>20</b>	<b>0</b>	<b>0</b> Customer purchase order number

C:Create R:Read U:Update D>Delete **Q:Query**

*GET*

➔ Select multiple column

➔ ZUI5\_DEMO\_TABLES\_GET\_ENTITYSET

➔ `SELECT * FROM ZUI5_DEMO_TABLE into CORRESPONDING FIELDS OF TABLE ET_ENTITYSET.`

➔ `/sap/opu/odata/sap/Z_DEMO_TEST4_SRV/ZUI5_demo_tableSet/?$format=json`

C:Create R:Read U:Update D>Delete Q:Query  
GET

➔ Select Single with key column

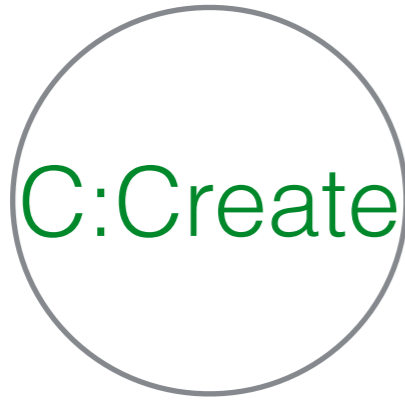
➔ ZUI5\_DEMO\_TABLES\_GET\_ENTITY

➔ DATA:  
lv\_vbeln TYPE vbak-vbeln,  
ls\_key\_tab TYPE /iwbep/s\_mgw\_name\_value\_pair.

*\*Get the key property values*  
READ TABLE it\_key\_tab INTO ls\_key\_tab WITH KEY name = 'zvblen' .  
*"lv\_vbeln = ls\_key\_tab-value.*

SELECT single  
"ZVBELN MANDT ZERDAT ZERNAM ZBSTNK  
\* from ZUI5\_demo\_table into  
CORRESPONDING FIELDS OF er\_entity where zvblen eq ls\_key\_tab-value .  
if sy-subrc <> 0.  
*"Throw exception here*

➔ ENDIF.  
/sap/opu/odata/sap/Z\_DEMO\_TEST4\_SRV/ZUI5\_demo\_tableSet('0000000002')



C:Create R:Read U:Update D>Delete Q:Query

*POST*

➔ Insert Into Table

➔ ZUI5\_DEMO\_TABLES\_CREATE\_ENTITY

➔ `DATA: ls_request_input_data TYPE ZCL_Z_DEMO_TEST3_MPC=>TS_ZUI5_DEMO_TABLE,  
ls_userinfo TYPE ZUI5_DEMO_TABLE.`

*\* Read Request Data*  
`io_data_provider->read_entry_data( IMPORTING es_data = ls_request_input_data ).`

*\* Fill workarea to be inserted*  
`ls_userinfo-ZVBLEN = ls_request_input_data-ZVBLEN.  
" ls_userinfo-MANDAT = .  
ls_userinfo-ZERDAT = ls_request_input_data-ZERDAT.  
ls_userinfo-ZERNAM = ls_request_input_data-ZERNAM.  
ls_userinfo-ZBSTNK = ls_request_input_data-ZBSTNK.`

*\* Insert Data in table ZUSERINFO*  
`INSERT ZUI5_DEMO_TABLE FROM ls_userinfo.  
IF sy-subrc = 0.  
er_entity = ls_request_input_data. "Fill Exporting parameter ER_ENTITY  
ENDIF.`



`/sap/opu/odata/sap/Z_DEMO_TEST4_SRV/ZUI5_demo_tableSet`

C:Create R:Read U:Update D>Delete Q:Query

PUT

➔ Insert Into Table

➔ ZUI5\_DEMO\_TABLES\_UPDATE\_ENTITY

➔

```
DATA: ls_request_input_data TYPE zcl_z_demo_test3_mpc=>ts_zui5_demo_table,  
      ls_userinfo TYPE zui5_demo_table.  
  
* Read Request Data  
io_data_provider->read_entry_data( IMPORTING es_data = ls_request_input_data ).  
  
" Update fields of table ZUSERINFO  
UPDATE zui5_demo_table SET  
zvblen = ls_request_input_data-zvblen  
zerdat = ls_request_input_data-zerdat  
zernam = ls_request_input_data-zernam  
zbstnk = ls_request_input_data-zbstnk  
      where zvblen = ls_request_input_data-zvblen.  
  
IF sy-subrc = 0.  
  er_entity = ls_request_input_data. "Fill Exporting parameter ER_ENTITY  
ENDIF.
```

➔ /sap/opu/odata/sap/Z\_DEMO\_TEST4\_SRV/ZUI5\_demo\_tableSet('0000000002')

C:Create R:Read U:Update **D:Delete** Q:Query

## *DELETE*

➔ Delete from Table

➔ ZUI5\_DEMO\_TABLES\_DELETE\_ENTITY

➔

```
DATA:  ls_key_tab TYPE /iwbsp/s_mgw_name_value_pair,  
       lv_vblen TYPE ZUI5_DEMO_TABLE-ZVBLEN.  
* Read key values  
READ TABLE it_key_tab INTO ls_key_tab WITH KEY name = 'zvblen' .  
lv_vblen = ls_key_tab-value.  
IF lv_vblen IS NOT INITIAL.  
* Delete record from table ZUSERINFO  
  DELETE FROM ZUI5_DEMO_TABLE WHERE zvblen = lv_vblen.  
ENDIF.
```

➔ /sap/opu/odata/sap/Z\_DEMO\_TEST4\_SRV/ZUI5\_demo\_tableSet('0000000002')