



Exercise: Metadata

Service Layer

PUBLIC

INTRODUCTION

Create user-fields, user-tables, user-keys and user-objects in the SAP Business One database.

In this exercise, you will perform the following tasks:

1. Create User-defined Table
2. Create User-defined Fields
3. Create User-defined Key
4. Create User-defined Object
5. Insert records into the User-defined Object

PREREQUISITE:

- Use the demo database for SAP Business One, version for SAP HANA
- Credentials: User code: **manager**

GUIDELINES:

The screenshots provided here are for your reference only and may differ from the actual screenshots in your system.

1. TASK - CREATE USER-DEFINED TABLE

- 1.1. On your Visual Studio project create a new button called “UDT”
- 1.2. Define a variable for the EventArgs class – ensure it is defined as a member of the add-on application class or globally.
- 1.3. Define a class for handling the errors from web service response.
- 1.4. Install NuGet packages - Newtonsoft.Json
- 1.5. Create a generic function to handle the User-defined Table creation.
- 1.6. Assign the *ResponseMessage* from class *ReceivingResponseEventArgs* to the *webResponse* class. This can be done in the **SLReceivingResponse** function.
- 1.7. Add a User-Defined Table (use namespace “TB1_” as a prefix...), but do not add any fields to the table yet. The newly created button for UDF should call the function **AddUserDefinedTable**.

2. TASK – CREATE USER-DEFINED FIELDS

- 2.1. On your Visual Studio project create a new button called “UDF”
- 2.2. Create a generic function to handle the User-defined Field creation.
- 2.3. Add the following User-Defined Fields to your new User-Defined Table.



You will need to create an instance of the UserTablesMD object in order to add a field to the User Table. It is recommended that after you create your table you set this object variable to “Nothing” so that its properties do not inadvertently carry forward to the next table or field you are creating.

Field Name	Field Description	Field Type	Field EditSize
udf1	field 01	db_Alpha	20
udf2	field 02	db_Alpha	20

3. TASK – CREATE USER-DEFINED KEY

- 3.1. On your Visual Studio project create a new button called “UDK”
- 3.2. Defined the button click function to create the User-defined Key

4. TASK – CREATE USER-DEFINED OBJECT

- 4.1. On your Visual Studio project create a new button called “UDO”
- 4.2. Defined the button click function to create the User-defined Object

5. TASK – INSERT RECORDS INTO THE USER-DEFINED OBJECT

- 5.1. On your Visual Studio project create a new button called “UDO”
- 5.2. Defined the button click function to insert entries to the User-defined Object



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