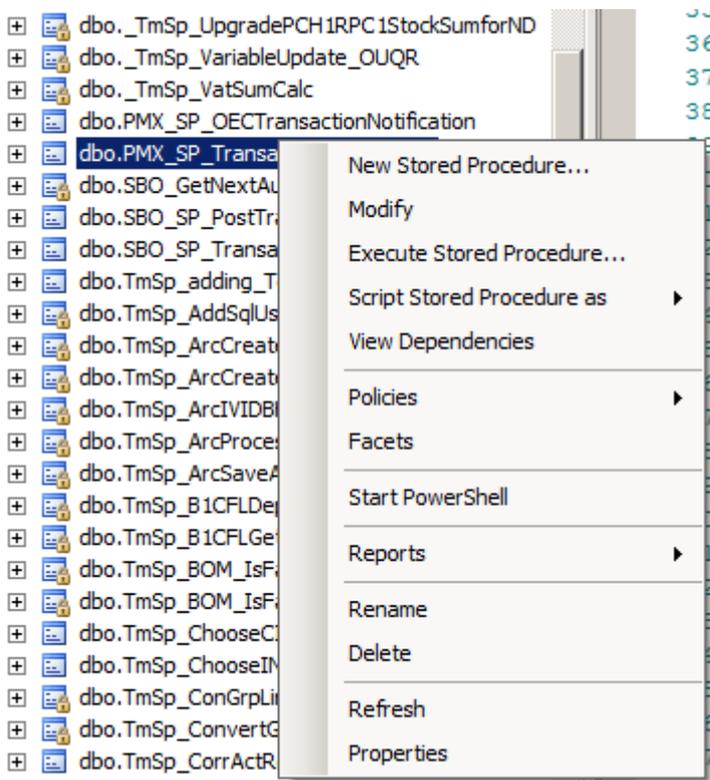# 3.4.1. Enable the standard PMX stored procedure

The following sections describe the process of enabling the standard PMX stored procedure with Microsoft SQL (section 3.4.1.1) and SAP HANA (section 3.4.1.2).

3.4.1.1. With Microsoft SQL Server

After the configuration is done, you need to enable the (custom) stored procedures in the stored procedure of SAP named "SBO_TransactionNotification".

When applying the Produmex Add-on the first time to a database, you also need to adapt the stored procedure "SBO_SP_TransactionNotification".

1. Open SQL Server Management Studio and connect to your database server.

2. Expand the "Databases" folder and locate the database to which you want to apply the Produmex Add-on.

3. Open this database directory and open the "Programmability\Stored Procedures" subdirectory.

4. Locate the "dbo.PMX_SP_TransactionNotification" stored procedure, right-click it and select "Modify".
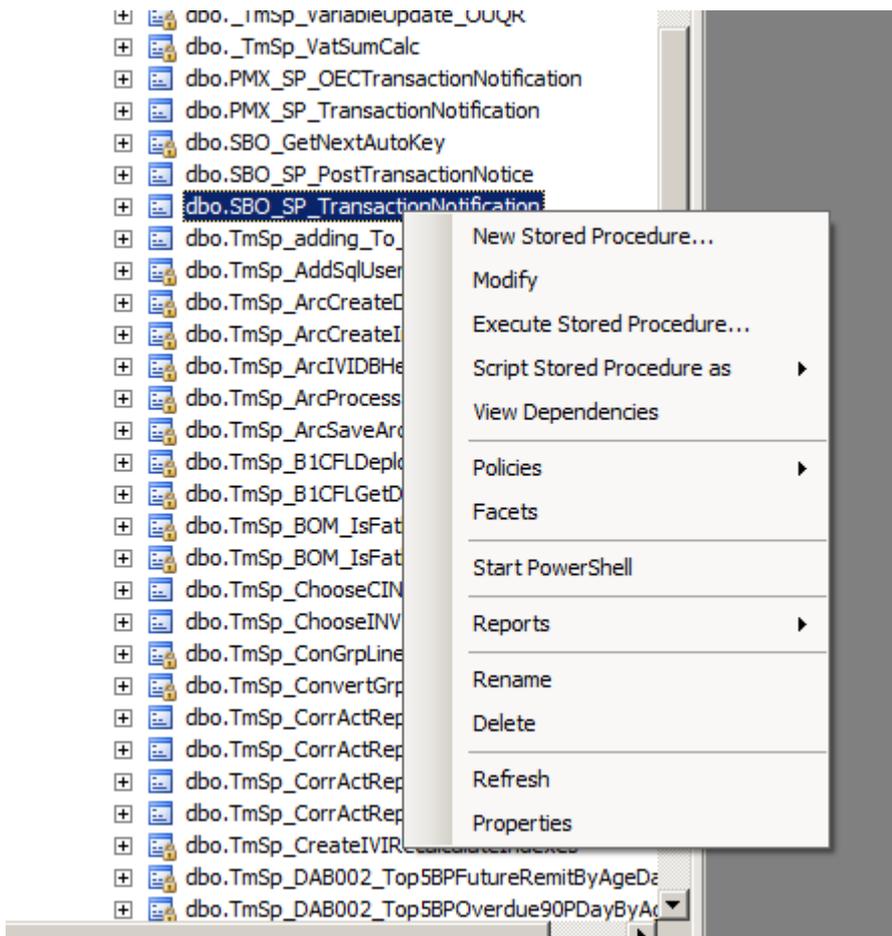

5. Locate the "Produmex Logex Addon Code" at the end of this stored procedure (see illustration below)

```
8113
8114 ----Following code must be added to the stored procedure SBO_SP_TransactionNotification
8115 ----to execute the PMX stored procedure:
8116
8117 ----********************************************************************************************
8118 ----Start executing Produmex Logex Addon code
8119 ----********************************************************************************************
8120 --BEGIN TRY
8121 --  EXEC [dbo].[PMX_SP_TransactionNotification]
8122 --  @object_type,
8123 --  @transaction_type,
8124 --  @num_of_cols_in_key,
8125 --  @list_of_key_cols_tab_del,
8126 --  @list_of_cols_val_tab_del,
8127 --  @error = @error OUTPUT,
8128 --  @error_message = @error_message OUTPUT
8129 --END TRY
8130 --BEGIN CATCH
8131 --  SET @error = ERROR_NUMBER()
8132 --  SET @error_message = ERROR_MESSAGE()
8133 --  DECLARE @msg as NVARCHAR(255)
8134 --  SET @msg = SUBSTRING('PMX_SP: sql error ' + CAST(ERROR_NUMBER() AS NVARCHAR) + ' : ' + ERROR_MESSAGE()
8135 --          + ISNULL( ' line ' + CAST(ERROR_LINE() AS NVARCHAR), '' ) + ISNULL( ' in ' + ERROR_PROCEDURE(), '' ),1,255)
8136 --  EXEC xp_logevent 999999, @msg, ERROR
8137 --END CATCH;
8138 ----********************************************************************************************
8139 ----End executing Produmex Logex Addon code
8140 ----********************************************************************************************
```

6. Copy the "Produmex Logex Addon Code".
Now paste the code into the "dbo.SBO_SP_TransactionNotification" stored procedure as follows.

7. Locate the "dbo.SBO_SP_TransactionNotification" stored procedure, right-click it and select Modify.

8. Paste the "Produmex Logex Addon Code" at the end of it. With a new installation you will see a marked area like "– ADD YOUR CODE HERE".

❌

9. Uncomment the SP by clicking on the `Uncomment` button in SQL Management Studio.

```
     SQLQuery4.sql ...S_41 (sa (63))*   SQLQuery3.sql ...S_41 (sa (61))   SQLQuery2.sql ...S_41 (sa (59))*   SQLQuery1.sql ...S_41 (sa (55))
19
20   -- Return values
21   declare @error   int              -- Result (0 for no error)
22   declare @error_message nvarchar (200)        -- Error string to be displayed
23   select @error = 0
24   select @error_message = N'Ok'
25
26   ----------------------------------------------------------------------------------------------------------
27
28
29   ----**************************************************************************************************
30   --Start executing Produmex Logex Addon code
31   --**************************************************************************************************
32   BEGIN TRY
33       EXEC [dbo].[PMX_SP_TransactionNotification]
34       @object_type,
35       @transaction_type,
36       @num_of_cols_in_key,
37       @list_of_key_cols_tab_del,
38       @list_of_cols_val_tab_del,
39       @error = @error OUTPUT,
40       @error_message = @error_message OUTPUT
41   END TRY
42   BEGIN CATCH
43     SET @error = ERROR_NUMBER()
44     SET @error_message = ERROR_MESSAGE()
45     DECLARE @msg as NVARCHAR(255)
46     SET @msg = SUBSTRING('PMX_SP: sql error ' + CAST(ERROR_NUMBER() AS NVARCHAR) + ' : ' + ERROR_MESSAGE()
47              + ISNULL( ' line ' + CAST(ERROR_LINE() AS NVARCHAR), '' ) + ISNULL( ' in ' + ERROR_PROCEDURE(), '' ),1,255)
48     EXEC xp_logevent 999999, @msg, ERROR
49   END CATCH;
50   --**************************************************************************************************
51   --End executing Produmex Logex Addon code
52   --**************************************************************************************************
53
54
55   -- Select the return values
56   select @error, @error_message
57
58   end
59
```

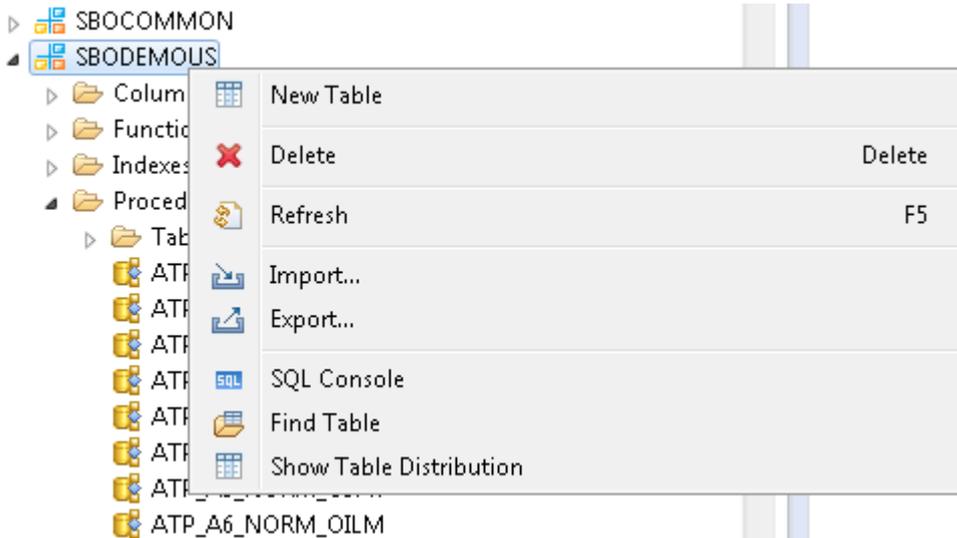10. Execute the SBO_SP_TransactionNotification stored procedure.

Continue with section 3.4.2. Enable a custom stored procedure.

3.4.1.2. With SAP HANA

After the configuration is done you need to enable the (custom) stored procedures in the stored procedure of SAP named "SBO_TRANSACTIONNOTIFICATION".

When applying the Produmex Add-on the first time to a database you will also need to adapt the stored procedure "SBO_SP_TRANSACTIONNOTIFICATION"
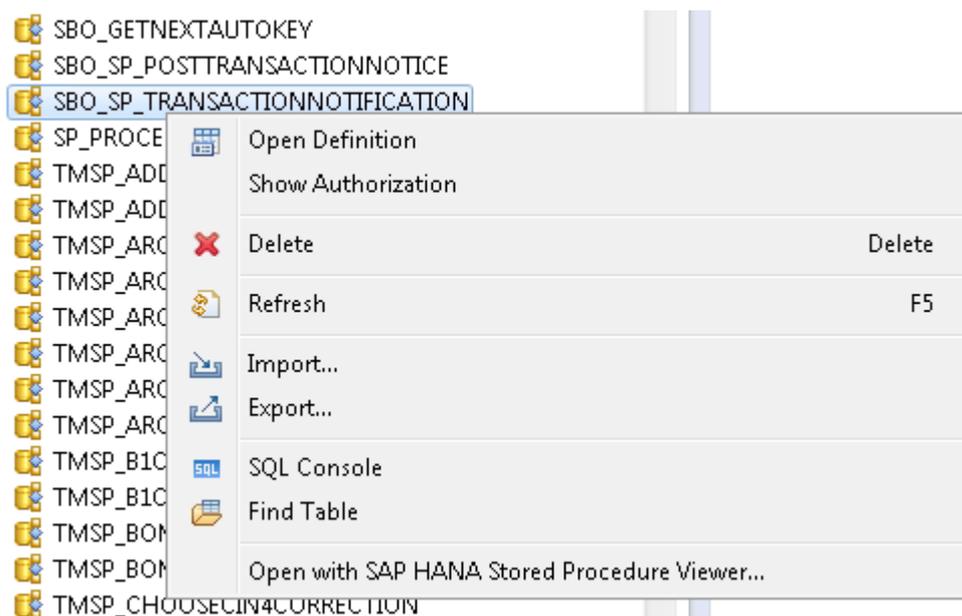
1. Open the SAP HANA Studio and connect to your SAP HANA server.

2. Expand the "Catalog" folder and locate the schema to which you want to apply the Produmex Add-on.

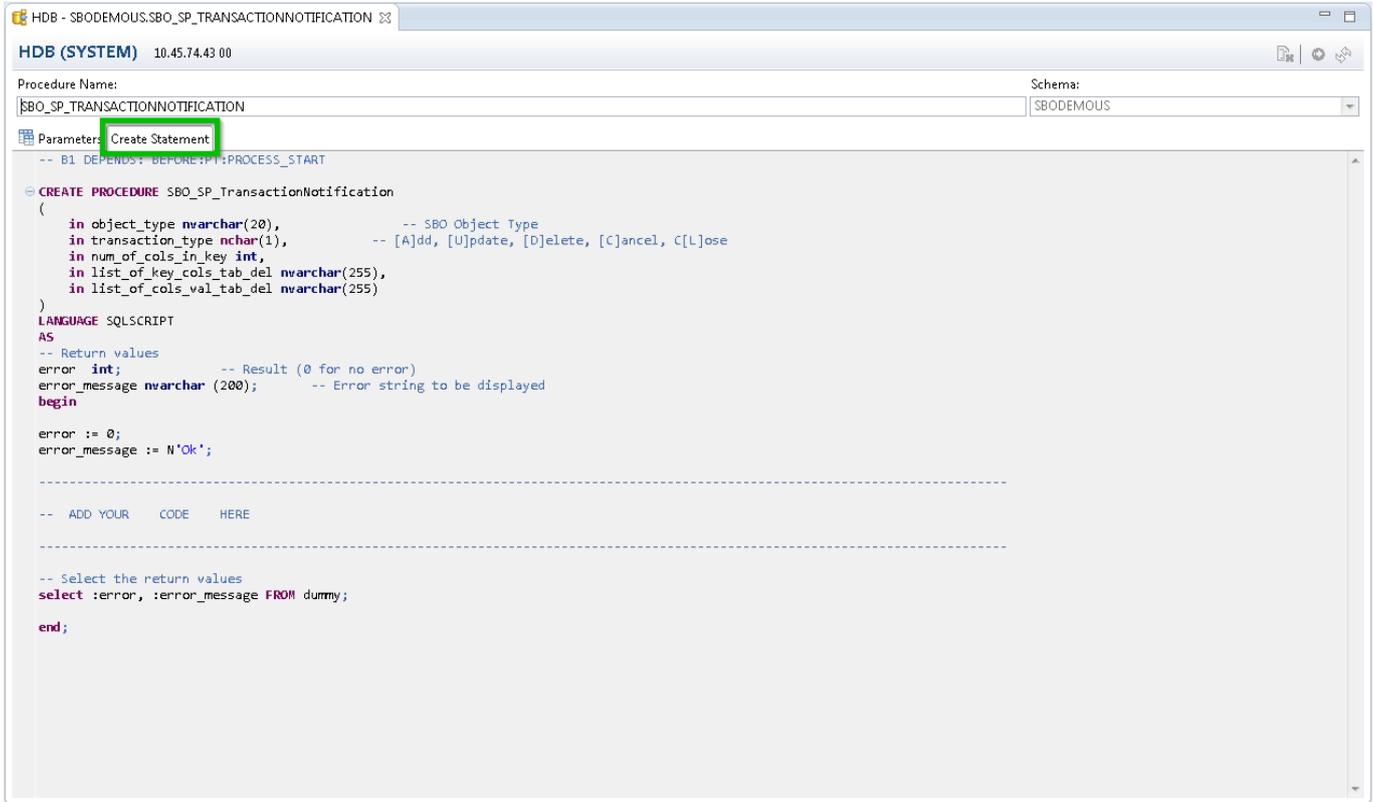3. Right-click on this schema and select "SQL Console" to open a new SQL console.

Keep this SQL console open during the whole process.

4. Expand the schema directory and open the "Procedures" subdirectory.

5. Locate the "SBO_SP_TRANSACTIONNOTIFICATION" stored procedure, right-click it and select "Open Definition".
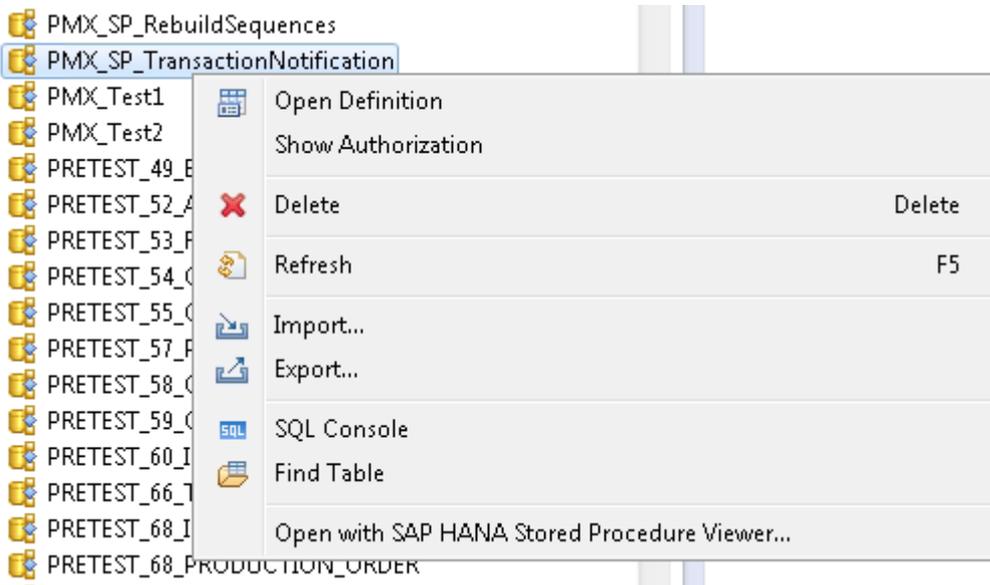

6. Open its content by opening the *Create Statement* tab:

7. Copy the content into the SQL console.

8. Locate the "PMX_SP_TransactionNotification" stored procedure, right-click it and select "Open Definition".

9. Open its content by opening the *Create Statement* tab, and locate the "Produmex Logex Addon Code" at the end of this stored procedure (see illustration below).

10. Copy the "Produmex Logex Addon Code".

11. This code should now be pasted into the SQL console, where you have already pasted the content of the "SBO_SP_TRANSACTIONNOTIFICATION" stored procedure. Paste the "Produmex Logex Addon

Code" at the end of it. With a new installation you will see a marked area like "– ADD YOUR CODE
HERE".

12. Uncomment the copied code by removing the leading '–' from each line.

13. Add the following line on the top of your SQL console:
DROP PROCEDURE SBO_SP_TransactionNotification;

The SQL console should look like this:

14. Execute the code in your SQL console to modify the SBO_SP_TRANSACTIONNOTIFICATION
procedure.