

Deploy: validation DPM EBA

Summary	
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2 Objective

This document has as objective to compile the necessary steps, to deploy the code and the datamodel that are necessary for validating the Data Point Model, version 2 of the EBA.

3 Requirements

3.1 Hardware requirements

The machine and the Operative System are:

Windows edition _____

Windows 8.1 Enterprise

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System _____

Processor: Intel(R) Core(TM) i5-2520M CPU @ 2.50GHz 2.49 GHz

Installed memory (RAM): 8,00 GB (7,90 GB usable)

System type: 64-bit Operating System, x64-based processor

3.2 Software Requirements

It is necessary to have installed the following programs for executing the code:

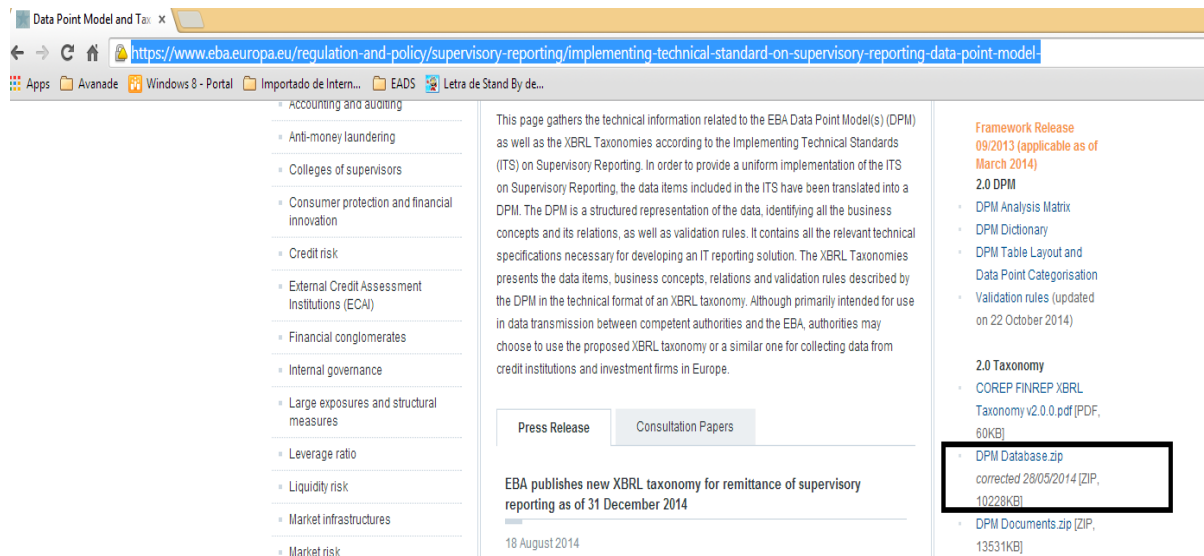
- SQL Server 2012 Enterprise or Developer Edition.
 - o Installation of the module of Integration Services, SQL Server Data Tools. SSDT.
- Microsoft Office.

4 Processes.

4.1 Load of the BackUp DPM EBA v2.0

The valid data come from the DPM of the EBA v2.0. These data can be downloaded from:

<https://www.eba.europa.eu/regulation-and-policy/supervisory-reporting/implementing-technical-standard-on-supervisory-reporting-data-point-model->



The screenshot shows a web browser window displaying the EBA website. The address bar shows the URL: <https://www.eba.europa.eu/regulation-and-policy/supervisory-reporting/implementing-technical-standard-on-supervisory-reporting-data-point-model->. The page content includes a navigation menu on the left with categories like 'Accounting and auditing', 'Anti-money laundering', 'Colleges of supervisors', etc. The main content area features a 'Press Release' section with the title 'EBA publishes new XBRL taxonomy for remittance of supervisory reporting as of 31 December 2014' and a date of '18 August 2014'. The right-hand sidebar contains a 'Framework Release' section with the date '09/2013 (applicable as of March 2014)' and a '2.0 DPM' section with links to 'DPM Analysis Matrix', 'DPM Dictionary', 'DPM Table Layout and Data Point Categorisation', and 'Validation rules (updated on 22 October 2014)'. Below this is a '2.0 Taxonomy' section with links to 'COREP FINREP XBRL Taxonomy v2.0.0.pdf [PDF, 60KB]' and 'DPM Database.zip corrected 28/05/2014 [ZIP, 10228KB]'. The 'DPM Database.zip' link is highlighted with a black box.

This model is developed in Access. However, these data are translated to the RDBMS MS SQL Server.

Download of the OpenFiling web¹ the file DPM Database201_full_F20141009_H1831.bak.

This backup has to be restored to an instance MS SQL server.

¹ <http://www.openfiling.info/>.

4.2 Load of the BackUp DPM EBA v2.0

From the databases of the EBA a data model is created with the necessary relationships of the DPM.

This database is empty, only it has the structure of the DPM of the EBA. This database will have the validated DPM, through IIS (integration Services)².

It is necessary to download from the OpenFilling web the file DPM Testing Database201_full.bak.

It is also to restore of this Database in an instance SQL Server

4.3 Download the code of SSIS

Download from OpenFilling web³ the file .rar with the code of Integration Services. With these packets it is possible to run the proof of concepts.

Inside are the solution and the Dtsx.

4.4 Download of the structure of the folders.

Download of the OpenFilling web⁴ the file .rar with the structure of the folders. The file is:

INTEGRACION_DATOS_EBA.rar

² MS SQL Server.

³ <http://www.openfiling.info/>.

⁴ <http://www.openfiling.info/>.

Inside the structure of the folders will be found the file of Excel and files with messages of errors in txt format.

The paths can be updated, in the solution file of the SSIS Project.params.

param_RutaERR	String	C:\PFC\SSIS\INTEGRACION_DATOS_EBA\ERR\	False	False	
param_RutaIN	String	C:\PFC\SSIS\INTEGRACION_DATOS_EBA\IN\	False	False	

5 Proofs of concept.

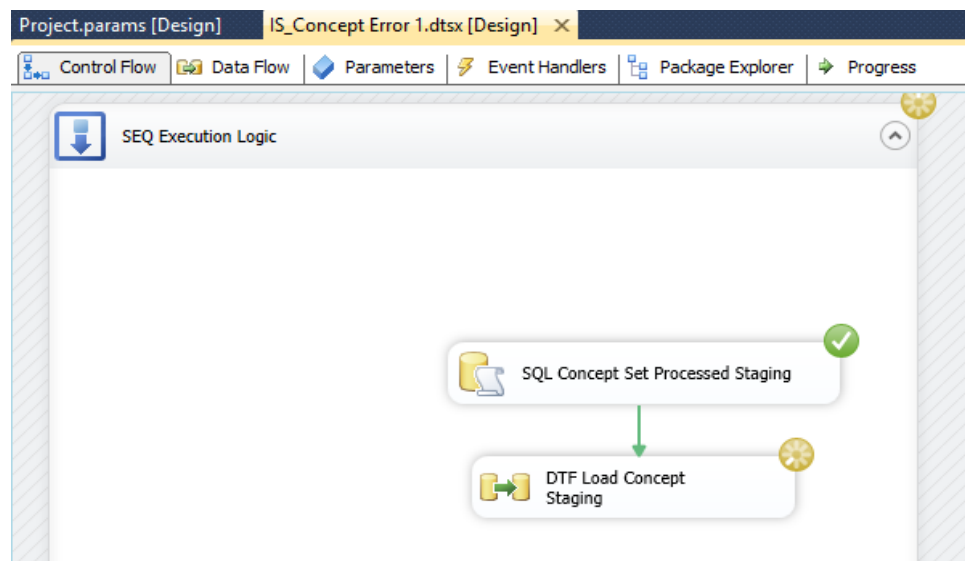
5.1 Dtsx Concept

There are two Dts:

- *IS_Concept.dtsx* → Data EBA without updated.
- *IS_Concept Error 1.dtsx* → Data EBA updated with a duplicated key.

The proofs of the concept consist of:

1. Execute the packet *IS_Concept Error 1.dtsx*. Press F5

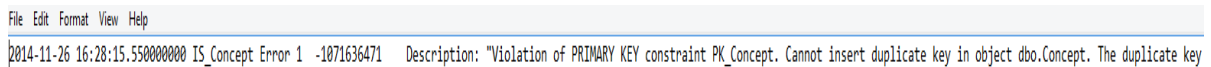


2. This Dts (paquet) will give an error, because it has a duplicated key. Through the file:

EBA_Tables - Concept - Error.xlsx

	A	B	C	D	E	F	G
1	ConceptID	ConceptType	OwnerID	CreationDate	ModificationDate	FromDate	ToDate
2	2	Member	1	01-dic-13		01-dic-13	
3	2	Member	1	01-dic-13		01-dic-13	
4	3	Member	1	01-dic-13		01-dic-13	

3. Verification of the output.



5.2 Dtsx Member

There are three Dts:

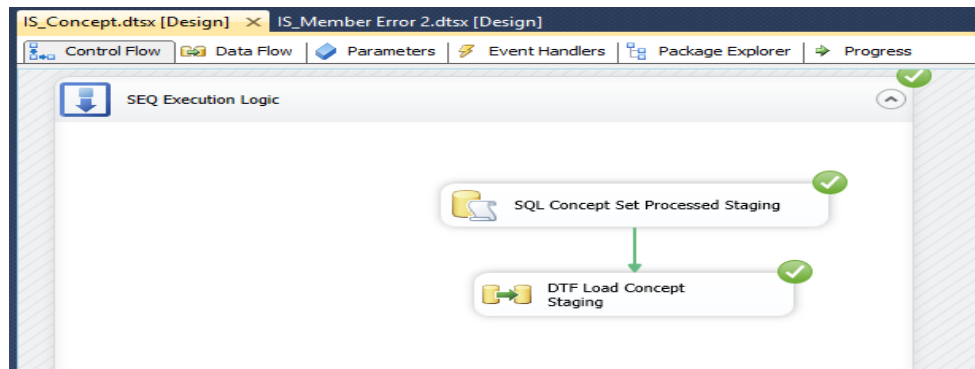
- **IS_Member.dtsx** → Data from the EBA without updated and with tables fill out Concept y Domain.
- **IS_Member Error 1.dtsx** → Data from the EBA updated and with one duplicated key.
- **IS_Member Error 2.dtsx** → Data from the EBA without updated, without updating ith table fills out Concept and empty Domain.

The proof of concept IS_Member Error 1 is the same that in the last Dts. It is a violation of the Primary Key.

The proof of the concept of the IS_Member Error 2 consists of:

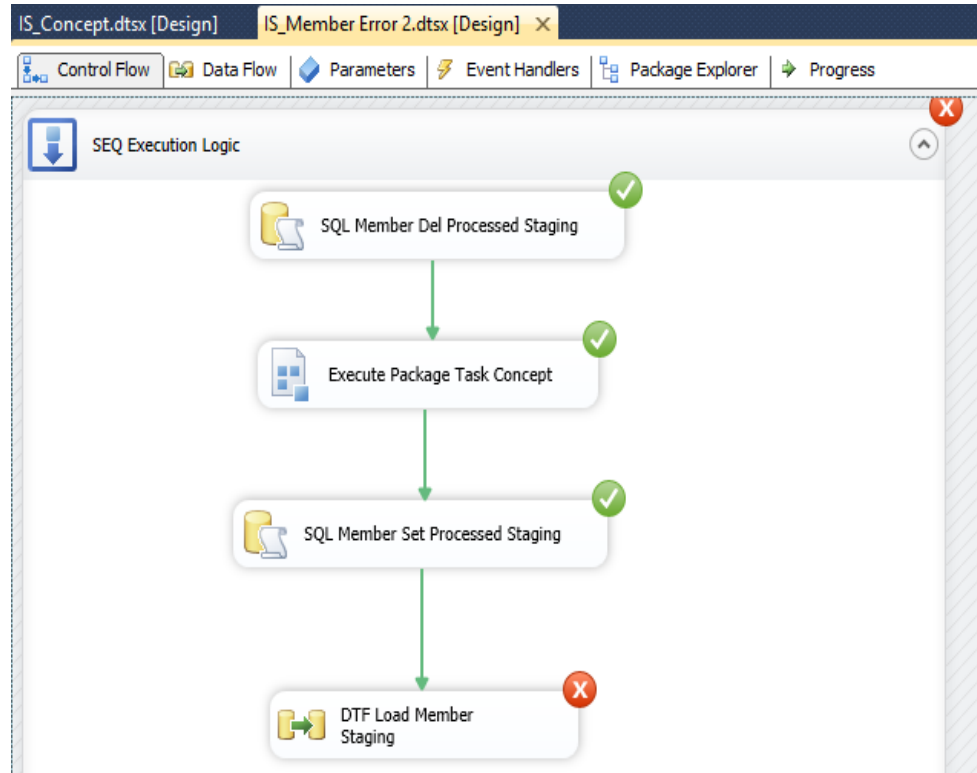
1. Running the packet IS_Member Error 2.dtsx. Press F5

***Firstly the reference data are integrated**

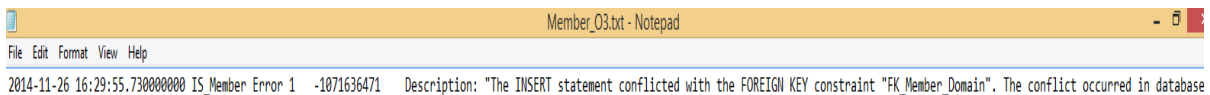


2. ***This Dts will give an error, because it has a relation with foreign key with the tables: Concept and Domain, according to the EBA.***

In our case, it is only inserted referenced data to the concepts.



3. ***Comprobar la salida.***



5.3 Dtsx Dimension

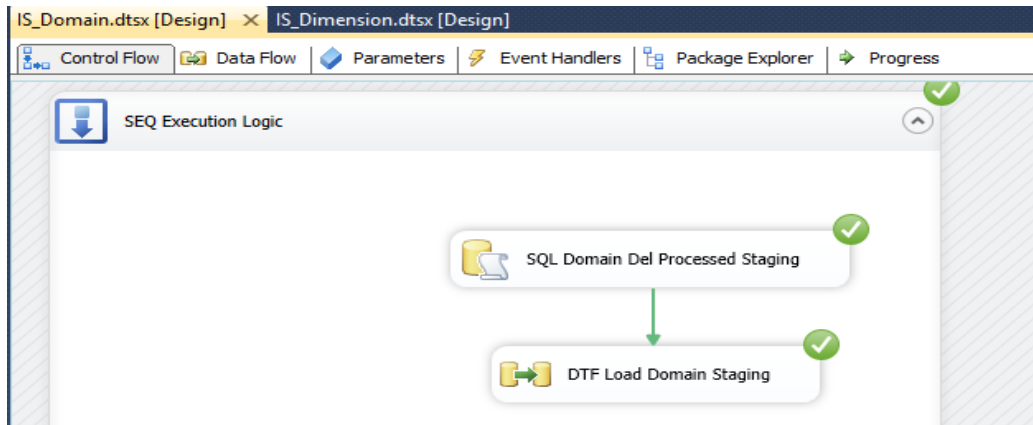
There is a Dts:

- ***IS_Dimension.dtsx → Data from tje EBA without updating.***

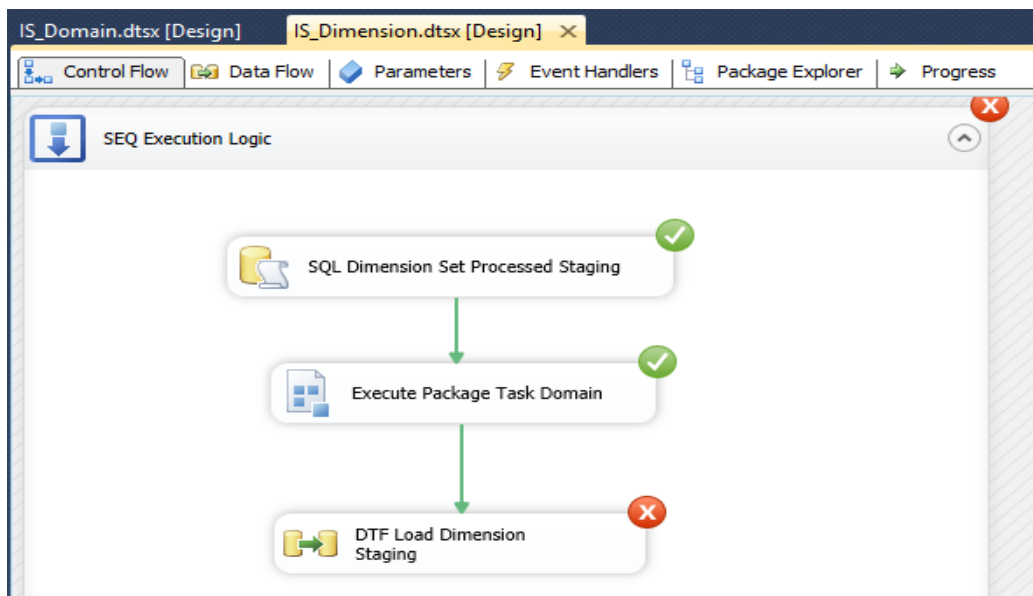
The proof of the concept consists in:

4. ***Running the packet IS_Dimension.dtsx. Press F5***

****First the Domain is loaded.***



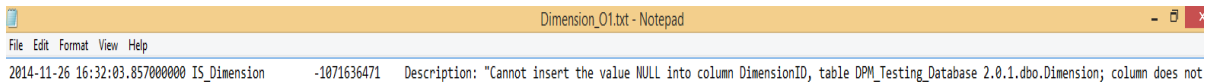
5. Este Dts dará un error debido a que posee una PK clave primaria con valor Null.



EBA_TablesDimension.xlsx

105	790	380	ACT	Accountin	Defines w	FALSE	FALSE	eba_dim:ACT	
106	795	530	INC	Individual	Indicate ti	TRUE	FALSE	eba_dim:INC	
107	800	530	GCC	Group of c	Indicate ti	TRUE	FALSE	eba_dim:GCC	
108	805	540	AST	Accountin	The accou	FALSE	TRUE	eba_dim:AST	
109			NULL	NULL	NULL	NULL	NULL	NULL	
110									

6. Analyse the output.



5.4 Dtsx HierarchyNode

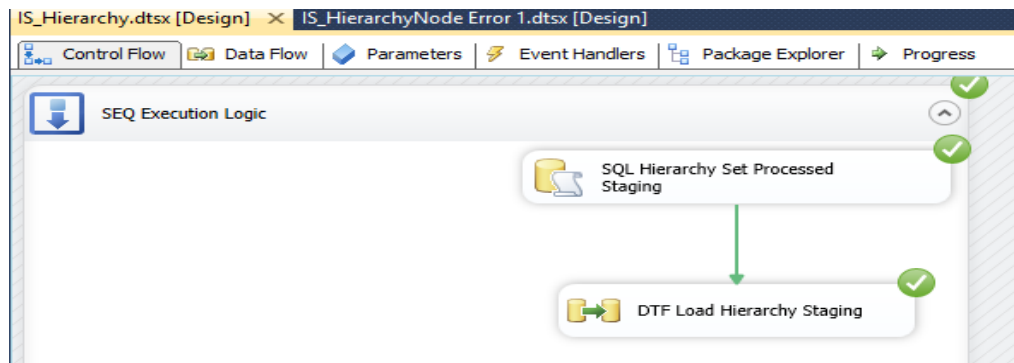
There are three Dts:

- *IS_HierarchyNode.dtsx* → Data from the EBA without updated. With the table Hierarchy loaded.
- *IS_HierarchyNode Error 1.dtsx* → Data from the EBA updated with the field IDHierarchyParent <> IDHierarchy.

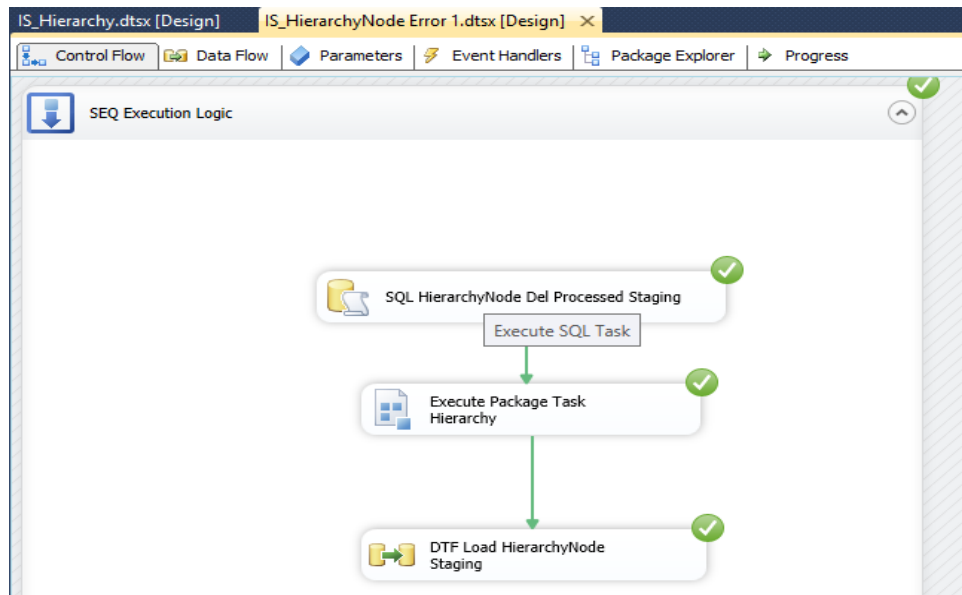
The proof of the concept of the *IS_HierarchyNode Error 1* consists in:

4. Running the packet *IS_HierarchyNode Error 1.dtsx*. Press F5

**firstly the data Hierarchy are loaded.*



5. This Dts doesn't give error, because there is a relation between IDParentHierarchy and IDHierarchy. After that their data are inserted and they fulfil that IDParentHierarchy = IDHierarchy.



EBA_Tables - HierarchyNode Error.xlsx

	A	B	C	D	E	F	G	H	I	J	K
1	HierarchyID	MemberID	IsAbstract	ComparisonOperator	UnaryOperator	Order	Level	Path	ParentHierarchyID	ParentMemberID	
2	110	1000	FALSE		+	165	4	3677.2963	45	1055	
3	45	1006	FALSE		+	75	3	3677.3022	45	3022	
4	80	1007	FALSE		+	95	3	3677.3023	80	3023	

6. Validation in the output.

It shows an error and displays the place.

