

Step by Step Procedure for Loading of Data From the Flat File to the Master Data/Text Tables



Applies to:

SAP BI 7.0. For more information, visit [EDW Homepage](#).

Summary

This Article we will discuss the step by step through the basic procedures for creating a master data/text and Uploading a data with the Inclusion of Time Dependent and Time Independent scenario. In addition to the loading of a data this document also explains about the Master data Tables.

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Table of Content

Introduction:.....	3
Step by Step Process:	3
Creating Info Object Catalog and Info Object (Characteristics):	3
Creation of Master Data/Text:	6
Creation of an Attribute:	7
Table Generation:	9
Table Generation:	10
Creation of a Flat File:	10
Creation of Data Source:	10
Creating Transformation:	13
Create Data Transfer Process:	14
Loaded data into the Master Table / Result:	15
Related Content	16
Disclaimer and Liability Notice	17

Introduction:

This Article describes about the techniques to be followed for uploading a .CSV file (Flat File). The criteria's that has to be maintained for the Time dependent data , and the way in which SAP accepts the date formats through the flat file is explained with the help of the screen shots.

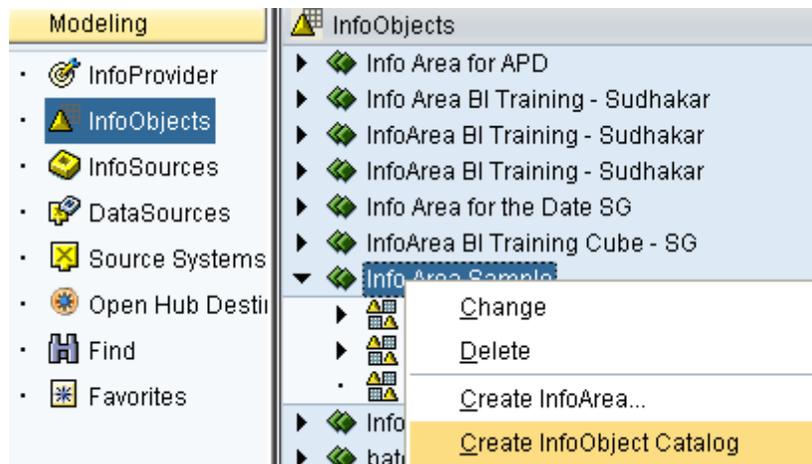
Step by Step Process:

Creating Info Object Catalog and Info Object (Characteristics):

- Select RSA1 transaction for data modeling.
- First you have to create Info area which can hold all your info objects.
- For that, initially you have to select info objects from the left side. This window pane opens. Right click on Info objects and select - Create Info Area.



- In the context menu of your Info Area, choose create Info Object Catalog.



- On the next screen, enter a technical name and a description.
- Select Char. as Info Object Type.
- Choose Create.
- You go to the screen for Info Object catalog editing.

- Activate the Info Object catalog.
- The Info Object catalog is displayed in your Info Area.
- Right click on the created Info Object Catalog and select Create Info Object.

- Enter the Characteristics name and their Description and click on Continue.

Version Comparison | Business Content

Characteristic: IO_MAT3
 Long description: Material Three
 Short description: Material Three
 Version: New (Not saved)
 Object Status: Inactive, not executable

General | Business Explorer | Master data/texts | Hierarchy | Attribute

Dictionary

Data element: /BIC/OIIO_MAT3
 Data Type: CHAR - Character String
 Length: 10
 Lowercase letters:
 Convers. Rout.: ALPHA
 Output length: 10
 SID table: [Empty]

Other

Attribute Only
 Person Respons.: [Empty]
 Content release: [Empty]
 Characteristic Is Document Property
 Constant: [Empty]

Transfer Routine

Transfer routine exists
 [Icons: New, Edit, Copy, Paste, Delete]

If Lowercase Letters is checked, the Input from the .CSV file can be in either of the Alphabets or Mixed.

Last change

By: [Empty]
 On: [Empty] 00:00:00

If you have given a Standard object then the data type, Length and Output Length come automatically, else manipulate the data type length etc as required.

Lowercase letters are checked in the general tab, and then the data from the Flat file can be taken in both the formats (Small and Capital). If not then the Default value should be in the Capital fonts from the Input Flat File.

Next Click on the Master Data/Text Tab

Creation of Master Data/Text:

Business Explorer **Master data/texts** Hierarchy Attribute Compounding

With master data With texts

Master Data Tables

View of MstrDtaTbIs

Master data tab

SID table attr.

MstDataMaint with Authorization Check

DS Object for Check

Text Table Properties

Text table

Short text exists

Medium length text exists

Long text exists

Texts language dependent

Texts are time-dep.

By Default in the Master Data/Texts Tab a checkbox is selected for With Master Data/Text and with Text. If it's not checked the Attribute for the Particular Info object cannot be created.

Business Explorer **Master data/texts** Hierarchy Compounding

With master data With texts

Master Data Tables

View of MstrDtaTbIs

Master data tab

SID table attr.

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DS Object for Check

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Short text exists

Medium length text exists

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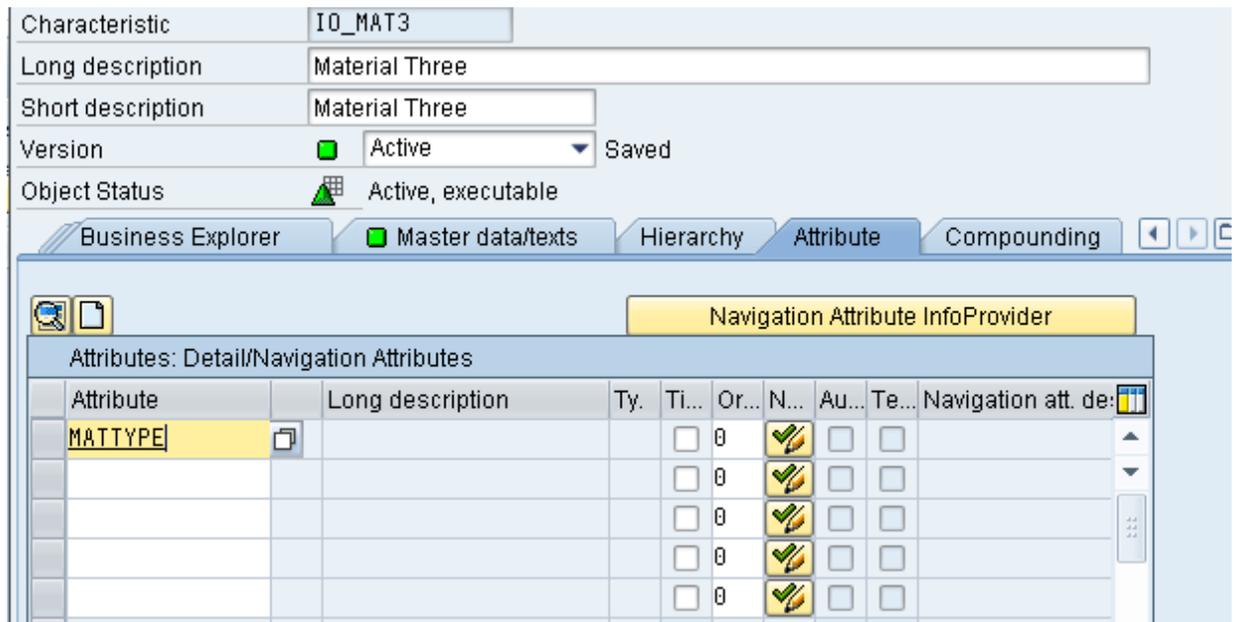
Texts language dependent

Texts are time-dep.

If the With Master data check Box is Unchecked means it cannot have an attribute for it.

In General for loading a data to the Master data/Text can be attained by only through the Attributes. Next tick the check box and click on the Attribute Tab.

Creation of an Attribute:



The screenshot shows the SAP Business Explorer interface for creating an attribute. The 'Attribute' tab is selected, and the 'Navigation Attribute InfoProvider' is visible. The 'Attributes: Detail/Navigation Attributes' table is shown with the following data:

Attribute	Long description	Ty.	Ti...	Or...	N...	Au...	Te...	Navigation att. de:
MATTYPE			<input type="checkbox"/>	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

- Enter the Attribute name, double click on the name or click the create button in the screen.

Change Characteristic MATTYPE: Detail

Characteristic: MATTYPE

Long description: Material Type

Short description: Material Type

Version: Active Saved

Object Status: Active, executable

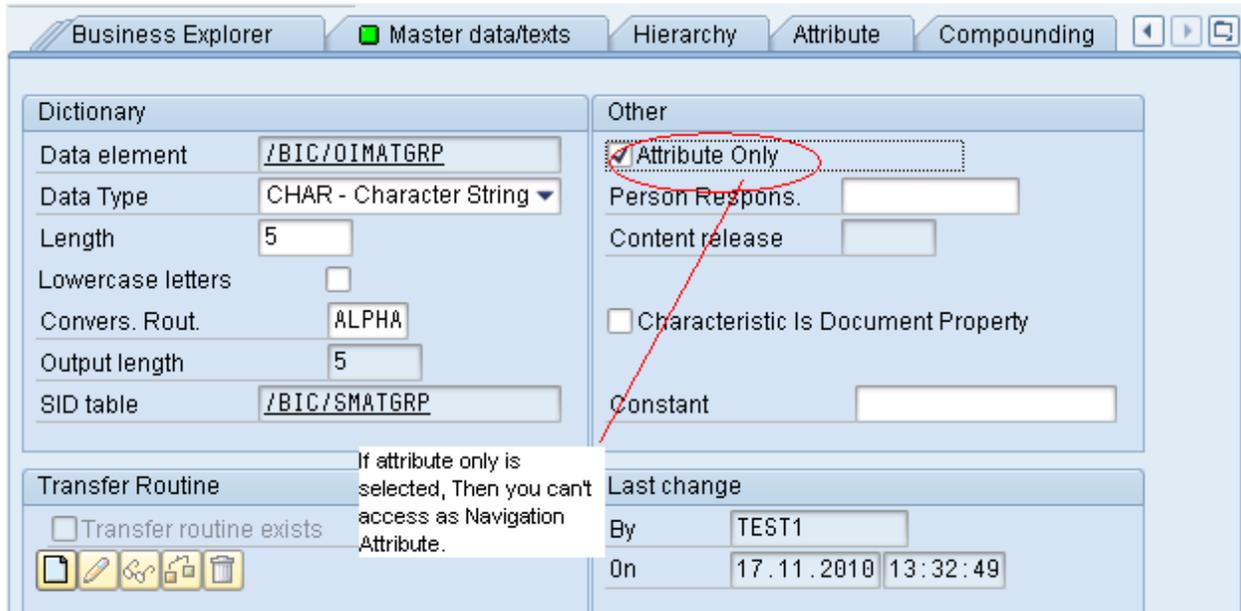
Business Explorer | Master data/texts | Hierarchy | Attribute | Compounding

<p>Dictionary</p> <p>Data element: /BIC/OIMATTYPE</p> <p>Data Type: CHAR - Character String</p> <p>Length: 4</p> <p>Lowercase letters: <input checked="" type="checkbox"/></p> <p>Convers. Rout.: ALPHA</p> <p>Output length: 4</p> <p>SID table: /BIC/SMATTYPE</p>	<p>Other</p> <p><input checked="" type="checkbox"/> Attribute Only</p> <p>Person Respons.: <input type="text"/></p> <p>Content release: <input type="text"/></p> <p><input type="checkbox"/> Characteristic Is Document Property</p> <p>Constant: <input type="text"/></p>
<p>Transfer Routine</p> <p><input type="checkbox"/> Transfer routine exists</p> <p></p>	<p>Last change</p> <p>By: TEST1</p> <p>On: 21.12.2010 15:53:31</p>

- A screen appears corresponding to that attribute and fill the Necessary Details.

Note: If the Attributes Only check box is checked, then the navigation is not possible where as Display Attribute is default for it.

Likewise create the Necessary attributes with the same steps..



The screenshot shows the 'Navigation Attribute InfoProvider' window. It displays a table titled 'Attributes: Detail/Navigation Attributes' with the following data:

Attribute	Long description	Ty.	Ti...	Or...	N...	Au...	Te...	Navigation att. de:
MATTYPE	Material Type	DIS	<input checked="" type="checkbox"/>	0	<input type="checkbox"/>	<input type="checkbox"/>		
MATGRP	Material Group	DIS	<input type="checkbox"/>	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
MATCOLOUR	Material Colour	DIS	<input type="checkbox"/>	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
MATNUM	material number	DIS	<input checked="" type="checkbox"/>	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

- Maintain the Time dependency variables where ever its necessary

Note: When time dependency is checked for an attribute then the default date from and date to should be given in the flat file while loading a data.

Table Generation:

Again click on the Master Data Text, Where you can see the automatically created Master Data Tables corresponding to their attributes as Time dependent, Navigation or Display Attribute Etc.

General Business Explorer **Master data/texts** Hierarchy Attribute

With master data

Master Data Tables

View of MstrDtaTbIs /BIC/MIO_MAT3

Master data tab /BIC/PIO_MAT3

SID table attr.

MasDataTab. timDep. /BIC/QIO_MAT3

SIDTab timeDepAttr.

MstDataMaint with Authorization Check

DS Object for Check

With texts

Text Table Properties

Text table /BIC/TIO_MAT3

Short text exists

Medium length text exists

Long text exists

Texts language dependent

Texts are time-dep.

The Corresponding Master Tables are created as /BIC/MIO_MAT3, /BIC/QIO_MAT3 etc...

Note: The Tables that are automatically created are starts with /BIC.

Table Generation:

In general depending upon the Attributes entered the Following Tables will be generated.

M – Master Data Tables Contains all the Attributes.

P – Time Independent

Q – Time Dependent

X – Time Independent and Navigation Attributes

Y – Time Dependent and Navigation Attribute.

In our Example P and Q Tables are generated. M Table is Mandatory where all the Attributes will be displayed.

Creation of a Flat File:

Now Create a Flat File Data in Excel/ Open Office etc as Necessary and save it as .CSV Values.

Data.csv - OpenOffice.org Calc

File Edit View Insert Format Tools Data Window Help

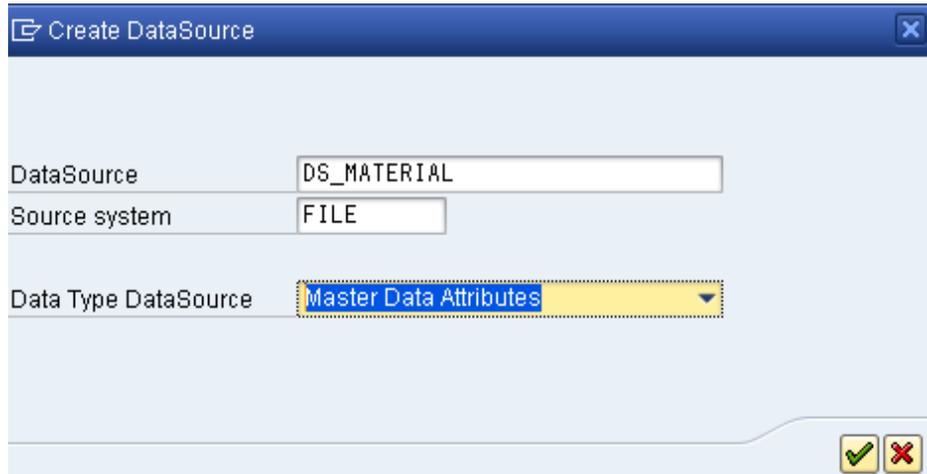
A1 = /BIC/IO_MAT2

	A	B	C	D	E	F	G
1	/BIC/IO_MAT2	DATEFROM	DATETO	/BIC/MATTYPE	/BIC/MATGRP	/BIC/MATCOLOUR	/BIC/MATNUM
2	Bottle	21.12.2010	30.12.2025	Plastics	P1	Blue	112
3	Wood	21.12.2010	10/09/25	Wood	W1	Brown	110
4							

Creation of Data Source:

Loading of Data through Data Source

- Click on the Data Source Tab in the Modeling Window.
- Create an Application component by right clicking on the Data Source File Desk
- Right Click on that Particular Component and click Create Data Source.
- Enter the Data Source name and Select the Data Type Data source as Master Data Attributes.



- Click Continue.
- Enter the General Information for the Particular Data Source to be Created where the short description etc...
- Click on the Extraction Tab.
- Enter the Flat File Path name from which the Data has to be uploaded in the .CSV Format.
- Maintain the Adapter and data Format Settings as follows in the Screen.

- Now Click on the Proposal Tab.
- Select the Load Example Data push Button.

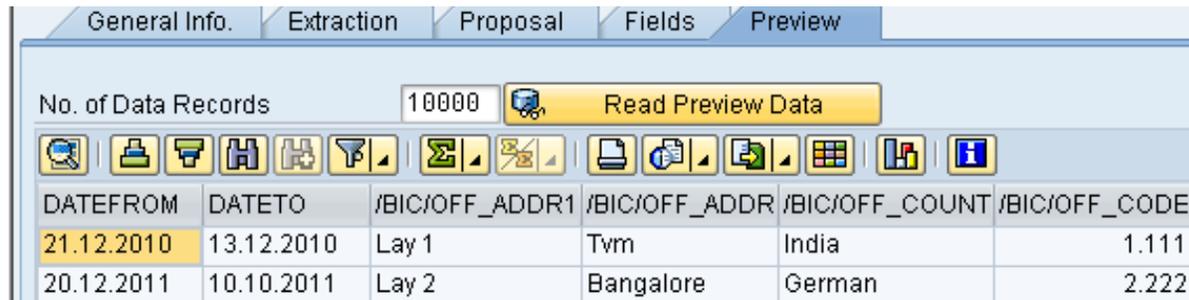
Co.	Po.	Field	Description	Data Type	Length	Decima...	Cutoff...	Conver..	L...	Format
<input checked="" type="checkbox"/>	1	DATEFROM	DATEFROM	DATS	8	0	0	DAT	<input type="checkbox"/>	External
<input checked="" type="checkbox"/>	2	DATE TO	DATE TO	DATS	8	0	0	DAT	<input type="checkbox"/>	External
<input checked="" type="checkbox"/>	3	/BIC/OFF_ADDR1	/BIC/OFF_ADDR1	CHAR	5	0	5		<input checked="" type="checkbox"/>	External
<input checked="" type="checkbox"/>	4	/BIC/OFF_ADDR	/BIC/OFF_ADDR	CHAR	9	0	9		<input checked="" type="checkbox"/>	External
<input checked="" type="checkbox"/>	5	/BIC/OFF_COUNT	/BIC/OFF_COUNT	CHAR	6	0	6		<input checked="" type="checkbox"/>	External
<input checked="" type="checkbox"/>	6	/BIC/OFF_CODE	/BIC/OFF_CODE	INT2	6	0	6		<input type="checkbox"/>	Internal

Example Data is uploaded from the flat file.

Note: The Date field can be maintained in the two ways one is the External and Internal. When an External Format is selected means then the date is been taken as given in the CSV file.

When an Internal Format is given, The SAP takes its own date format.

- Click on the Fields Tab in which you can see the Total number of Fields is to be loaded.
- Activate and the click on the Read Preview data in which you can see the Data as Below.

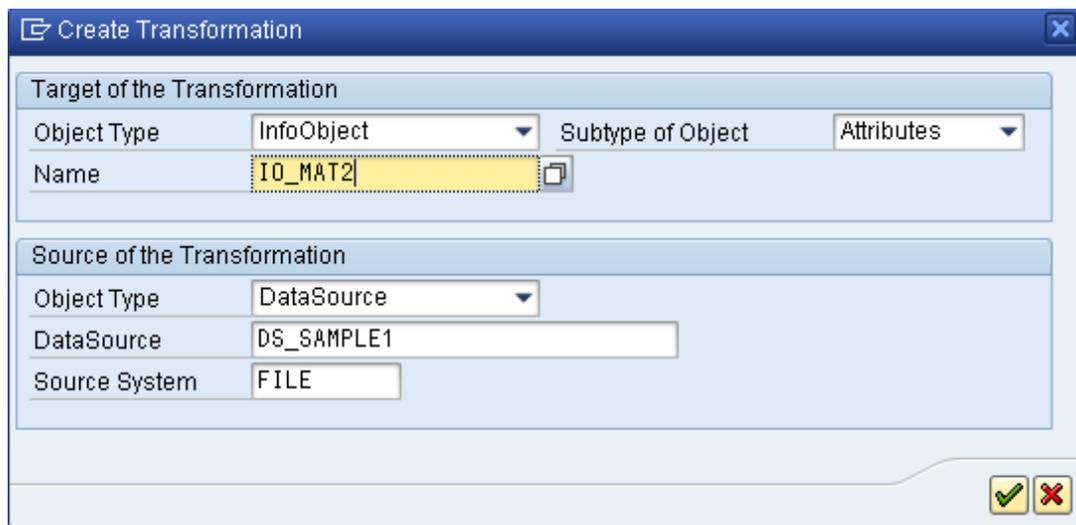


Now Create an Info Package by right clicking on the Created Data Source. Then check the data in the data selection, extraction, Processing, Update and schedule.

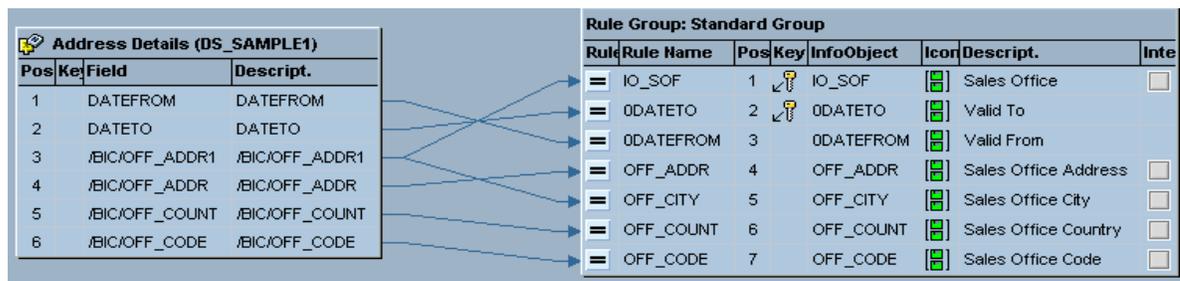
Finally in schedule click the Start / Execute Button for the Data Request. Once the data is stored in PSA (Persistent Storage Area) successfully, and then continue of creating with the Transformation.

Creating Transformation:

- Right Click on the data source and click Create Transformation.
- Enter the Object type, subtype of object and Name as Follows.



- Match the Data as Follow and Activate it.



Create Data Transfer Process:

- Now right click on the Data Source and select Create Data Transfer Process.
- A window appears for the Creation and click continue.

- A window appears on the Right side with the Three Tabs Extraction, Update and Execute.
- Choose the extraction tab and maintain the values as below.

Note: For the Initial Uploading of the Data alone choose the extraction mode as full else choose as the Delta mode.

- Choose the Update Tab and Check the values finally choose the Execute Tab.
- Save, Activate and Execute it.

Loaded data into the Master Table / Result:

- Now again choose the Info Object tab in the Modeling window and choose the Info object.
- Choose the Master Data/Text Table and double click on the Particular tables.

General Business Explorer **Master data/texts** Hierarchy Attribute

With master data With texts

Master Data Tables

View of MstrDtaTbIs /BIC/MIO_MAT2

Master data tab /BIC/PIO_MAT2

SID table attr.

MasDataTab. timDep. /BIC/QIO_MAT2

SIDTab timeDepAttr.

MstDataMaint with Authorization Check

Text Table Properties

Text table /BIC/TIO_MAT2

Short text exists

Medium length text exists

Long text exists

Texts language dependent

Texts are time-dep.

- Check the Uploaded master data values in the corresponding Table by executing it.

Table Entry Edit Goto Settings Utilities Environment System Help

Data Browser: Table /BIC/PIO_MAT2 Select Entries 3

Table: /BIC/PIO_MAT2
Displayed Fields: 5 of 5 Fixed Columns: 2 List Width 0250

	/BIC/IO_MAT2	OBJVERS	CHANGED	/BIC/MATGRP	/BIC/MATCOLOUR
<input type="checkbox"/>	Bottle	A		P1	Blue
<input type="checkbox"/>	Wood	A		W1	Brown

Related Content

[Procedure for Flat Files](#)

[How to upload flat file to Infocube in BI7](#)

[Master Data Tables](#)

For more information, visit [EDW Homepage](#)

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