

Importing Qualified Tables and Main Table Data in a Single Step



Applies to:

SAP MDM system. For more information, visit the [Master Data Management homepage](#).

Summary

The article gives a step by step process to import main table data along with qualified data in a single step.

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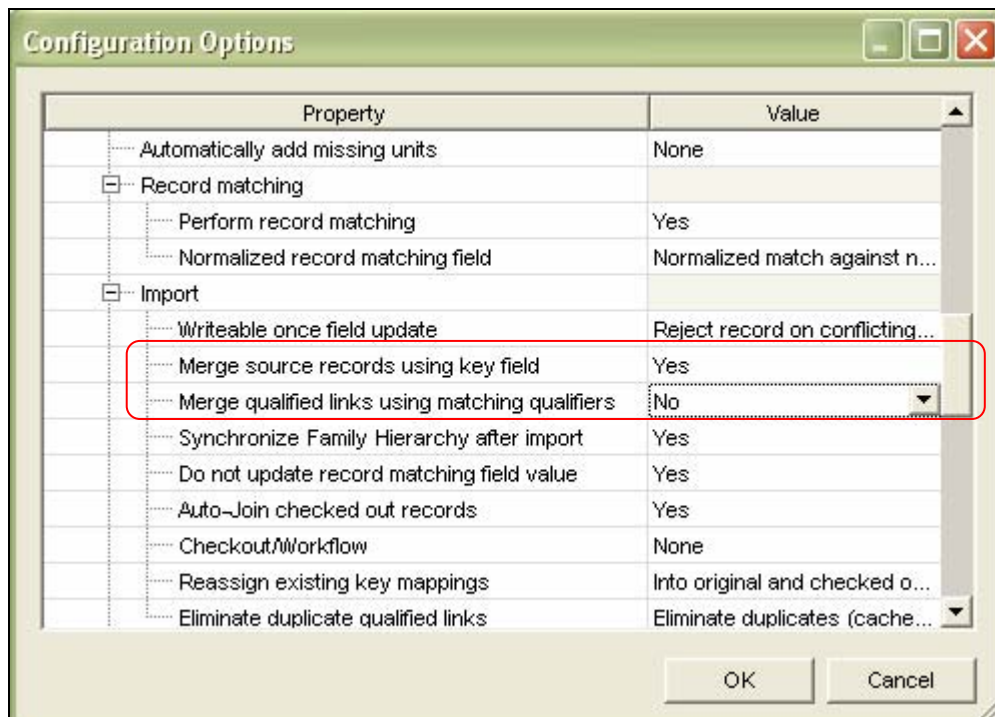
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Introduction

Linking the main table data with qualified tables is most important thing while importing the industry specific data to your repository. While importing the data, it is always doubtful that what should be the strategy to import main table data and qualified data together. The problem is still simple if you have only one field as no qualifier in all the qualified table. But it becomes quite strategic when you have to import data for main table, qualified table with single no qualifier and qualified table with more than one no qualifier together.

Prerequisites

- All the no qualifiers in a table should be display fields.
- All the no qualifier fields should be present in your source file.
- In import manager -> Configuration options, following two settings are mandatory.



Design in MDM Console

Here we have maintained two qualified tables “Banking Details” and “Email Addresses” in our repository. Banking details is the table with two no qualifiers “Account number” and “Country”. You can have any number of no qualifiers as per your business scenario.

Fields						
	Name	Type	Keyword	DF	UF	Qualifier
▶	Account Number	Text	None	[1]		No
	Country	Lookup [Fl...	None	[2]		No
	Bank Name	Text	None			Yes
	Bank Key	Text	None			Yes
	Account Holder Name	Text	None			Yes

In table “Email addresses” we have only a single no qualifier “Is standard email address”.

Fields						
	Name	Type	Keyword	DF	UF	Qualifier
▶	Is Standard E-Mail Address	Boolean	None	[1]		No
	E-mail Address	Text	None			Yes
	Create Date	Create St...	None			Yes

In main table, we have a field “Banking details” of the type “Lookup [Qualified Flat] (multi-valued)”. This field is a look up field to our qualified table “Banking Details”.

Field Detail	
Name	Banking Details
Code	Banking_Details
Description	Banking Details
Type	Lookup [Qualified Flat] (multi-valued)
Required	No
Writable Once	No
Matrix	Normal
Multi-Lingual	
Keyword	None
Display Field	No
Unique Field	No
Sort Index	None
Calculated	
Calculation	
Search Tab	Yes
Multi-Valued	Yes
Lookup Table	Banking Details

In main table, we have another field “Email Address” of the type “Lookup [Qualified Flat] (multi-valued)”. This field is a look up field to our qualified table “Email Addresses”.

Basically, these are the two fields which will link qualified tables with main table.

Field Detail	
Name	E-mail Address
Code	MDM_EMAIL_ADDRESS
Description	E-mail Address
Type	Lookup [Qualified Flat] (multi-valued)
Required	No
Writable Once	No
Matrix	Normal
Multi-Lingual	
Keyword	None
Display Field	No
Unique Field	No
Sort Index	None
Calculated	
Calculation	
Search Tab	Yes
Multi-Valued	Yes
Lookup Table	EMAIL ADDRESSES

Importing the Data in to MDM

Go to import manager and select your repository. Provide the user name and password to connect to the repository and say “Next”.

Connect to MDM Repository

SAP MDM Import Manager

Repository: MDV_NATURAL_PERSON [10.111.61.67] ...

Language: English [US]

User: Admin

Password: [REDACTED]

Save password About...

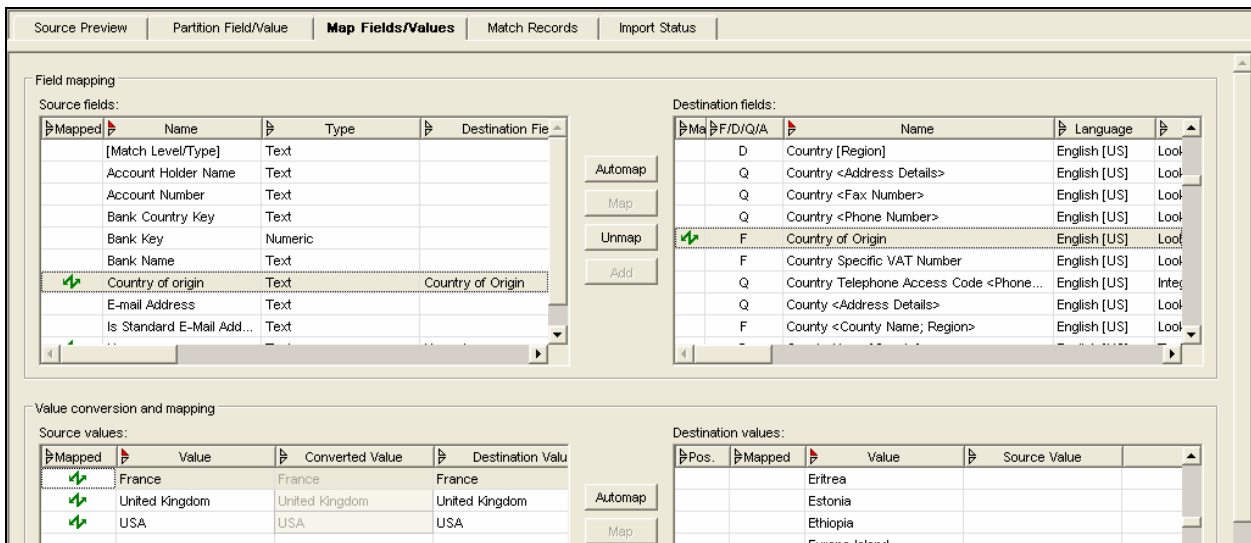
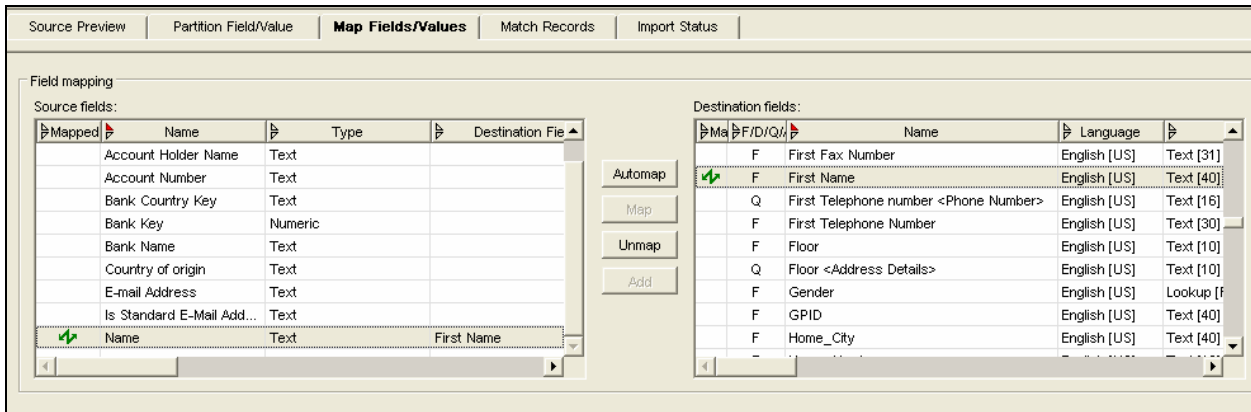
< Back Next > Cancel

Select your source file type, Remote system and browse the file and say “Finish”.

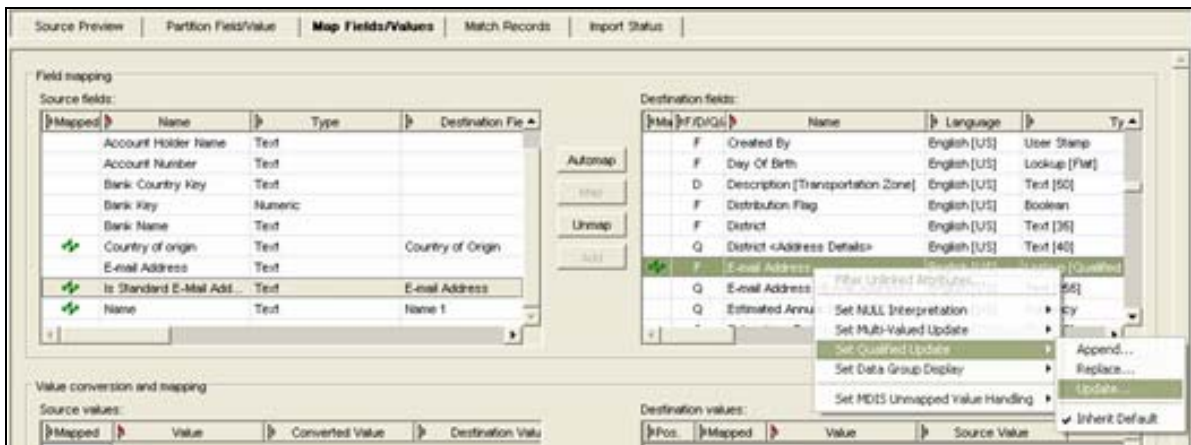
Here you can see the format of data in our source file. For example, for “Petroval” we have three different bank accounts in three different countries and one standard email address and two alternative email addresses.

Name	Account Nu	Country of orig	Bank Name	Bank Count	Bank Key	Account Holder Ne	Is Standard E-Me	E-mail Address
A Grade Petroleu...	53698436	USA	First Nation...	USA	551986354	A Grade Petroleu...	False	petroleum@usa...
ABIRD HOLDIN...	51591884	United Kingdom	Barclays Ba...	France	986535815	ABIRD HOLDIN...	False	abird.holding@fr...
ABIRD HOLDIN...	34564334	United Kingdom	ICICI	USA	577417578	ABIRD HOLDIN...	False	abird.holding@u...
ABIRD HOLDIN...	34645156	United Kingdom	lloyds	United Kin...	713545786	ABIRD HOLDIN...	TRUE	abird.holding@uk...
PETROVAL	45688757	France	Barclays Ba...	USA	546843596	PETROVAL	False	petroval@usa.com
PETROVAL	68543424	France	ICICI	United Kin...	468360255	PETROVAL	False	petroval@uk.com
PETROVAL	74988856	France	lloyds	France	895436895	PETROVAL	TRUE	petroval@france...
Pioneer Distribut...	81248334	USA	HSBC	Afghanistan	346898855	Pioneer Distribut...	False	pionners@afgan...
Pioneer Distribut...	65669834	USA	Barclays Ba...	East Timor	454465658	Pioneer Distribut...	False	pionners@eastto...
Pioneer Distribut...	63632134	USA	ICICI	France	564466489	Pioneer Distribut...	False	pionners@france...
Pioneer Distribut...	35987345	USA	lloyds	USA	453548985	Pioneer Distribut...	False	pioneers@usa.com
Pioneer Distribut...	15467453	USA	Citi	USA	123154456	Pioneer Distribut...	TRUE	pioneerdistributi...
Quest westerns ...	45567442	United Kingdom	ICICI	USA	240591473	Quest westerns ...	TRUE	quest@usa.com
Samsons Ltd	55786875	United Kingdom	lloyds	United Kin...	565587365	Samsons Ltd	TRUE	samsons@uk.com

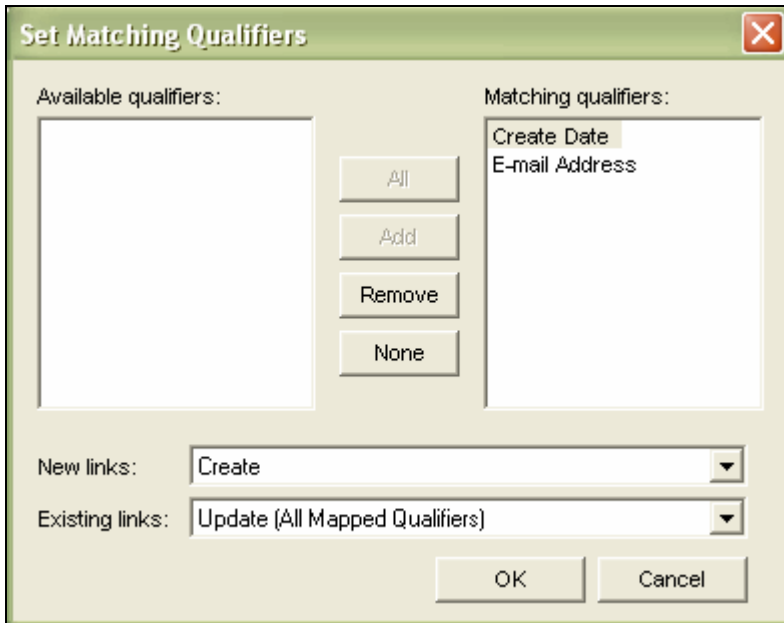
Select your source file and destination table (Main Table) on the top of import manager. Then go to Map fields/Values tab and map the main table fields (Name and Country of Origin) and do the corresponding value mappings.



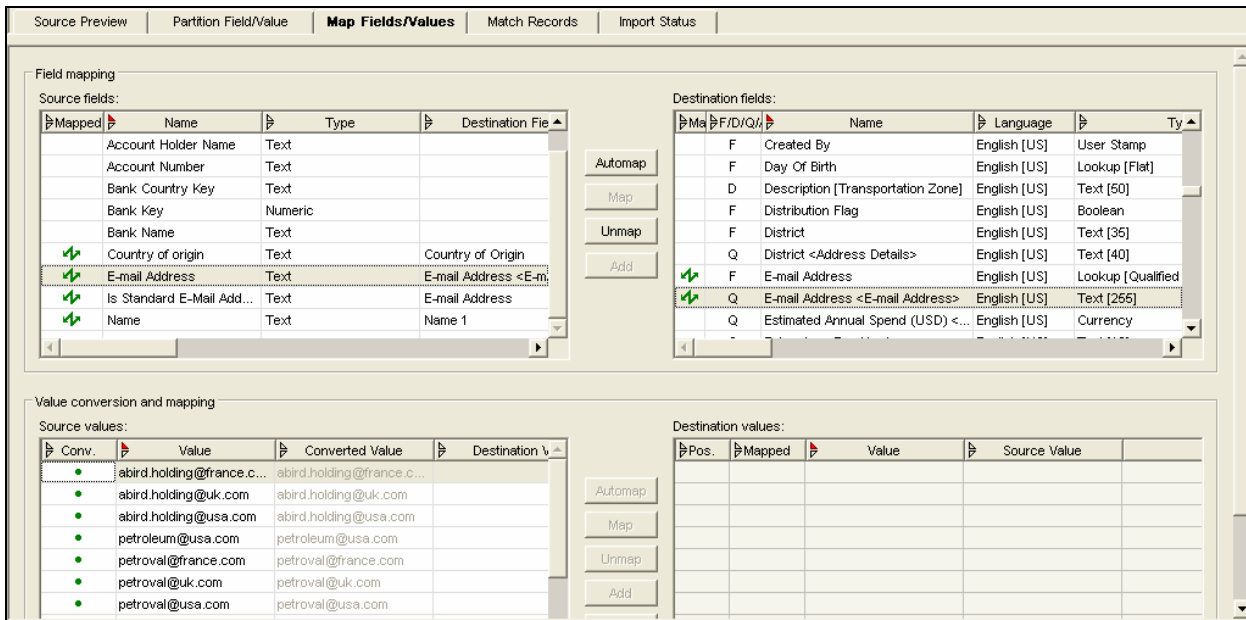
Then map the source field "Is standard email address" to the main table field for email address ("F" will be there against this field). This field is the field you created in main table as a lookup qualified to table "Email Addresses". Then right click on this field and say "Set Qualified Update" -> "Update".



A window for selecting the matching qualifiers will open up. Select the yes qualifier on the basis of which you want to decide that new link should be created or not. In the new links, select “Create” and for existing links, select “Update all mapped qualifiers”. On the basis of your matching qualifiers, it will check the links in source file and decide whether to create a new link or update the existing link. Then say “OK”.



Then map the yes qualifiers for this table and do the corresponding value mappings.



Now the mapping for "Email Addresses" is complete. After this map the fields for "Banking Details". Map all the no qualifiers for table "Banking details". Here in this case we have two no qualifiers: Account Number and Bank Country. Both of these fields will have "D" against them in the destination side.

Source Preview | Partition Field/Value | **Map Fields/Values** | Match Records | Import Status

Field mapping

Source fields:

Mapped	Name	Type	Destination File
	[Match Level/Type]	Text	
	Account Holder Name	Text	
	Account Number	Text	
✓	Bank Country Key	Text	Country [Banking De
	Bank Key	Numeric	
	Bank Name	Text	
✓	Country of origin	Text	Country of Origin
✓	E-mail Address	Text	E-mail Address <E-m
✓	Is Standard E-Mail Add...	Text	E-mail Address

Destination fields:

Mapped	F/D/Q	Name	Language	Type
	Q	Consecutive Number <Fax Num...	English [US]	Text [3]
	Q	Consecutive Number <Phone N...	English [US]	Text [3]
	Q	Consuming System <Request De...	English [US]	Lookup [Flat]
✓	D	Country [Banking Details]	English [US]	Lookup [Flat]
	D	Country [Region]	English [US]	Lookup [Flat]
	D	Country [Region]	English [US]	Lookup [Flat]
	Q	Country <Address Details>	English [US]	Lookup [Flat]
	Q	Country <Fax Number>	English [US]	Lookup [Flat]
	Q	Country <Phone Number>	English [US]	Lookup [Flat]

Buttons: Automap, Map, Unmap, Add

Source Preview | Partition Field/Value | **Map Fields/Values** | Match Records | Import Status

Field mapping

Source fields:

Mapped	Name	Type	Destination File
	[Match Level/Type]	Text	
	Account Holder Name	Text	
✓	Account Number	Text	Account Number [Ba
✓	Bank Country Key	Text	Country [Banking Det
	Bank Key	Numeric	
	Bank Name	Text	
✓	Country of origin	Text	Country of Origin
✓	E-mail Address	Text	E-mail Address <E-m
✓	Is Standard E-Mail Add...	Text	E-mail Address

Destination fields:

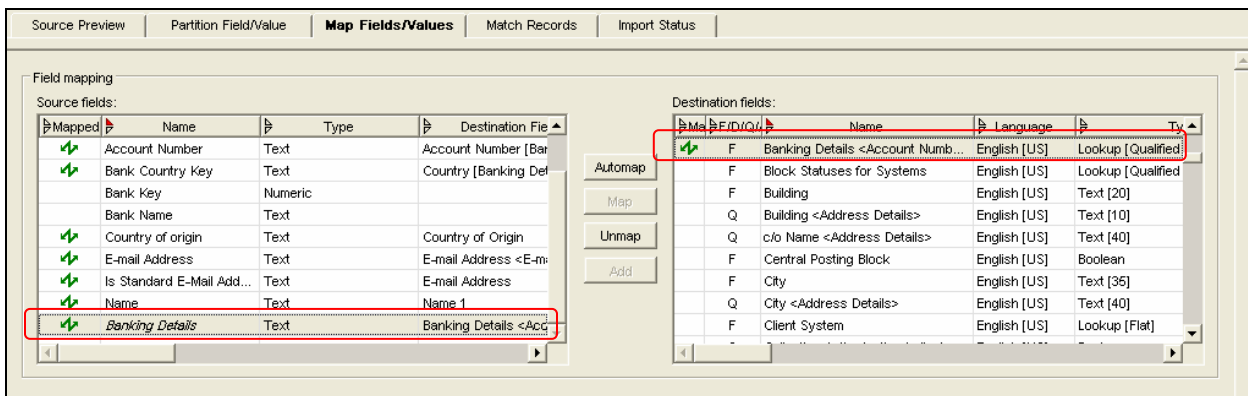
Mapped	F/D/Q	Name	Language	Type
	F	Account group	English [US]	Lookup [Flat]
	Q	Account Holder Name <Bank Det...	English [US]	Text [50]
	Q	Account Holder Name <Banking ...	English [US]	Text [50]
✓	D	Account Number [Banking Details]	English [US]	Text [50]
	Q	Additional Recipients <Request ...	English [US]	Text [60]
	Q	Address <Bank Details>	English [US]	Text [50]
	F	Address Details	English [US]	Lookup [Qualified]
	F	Alternate Name	English [US]	Text [40]
	Q	Bank Control Key <Bank Details>	English [US]	Text [50]

Buttons: Automap, Map, Unmap, Add

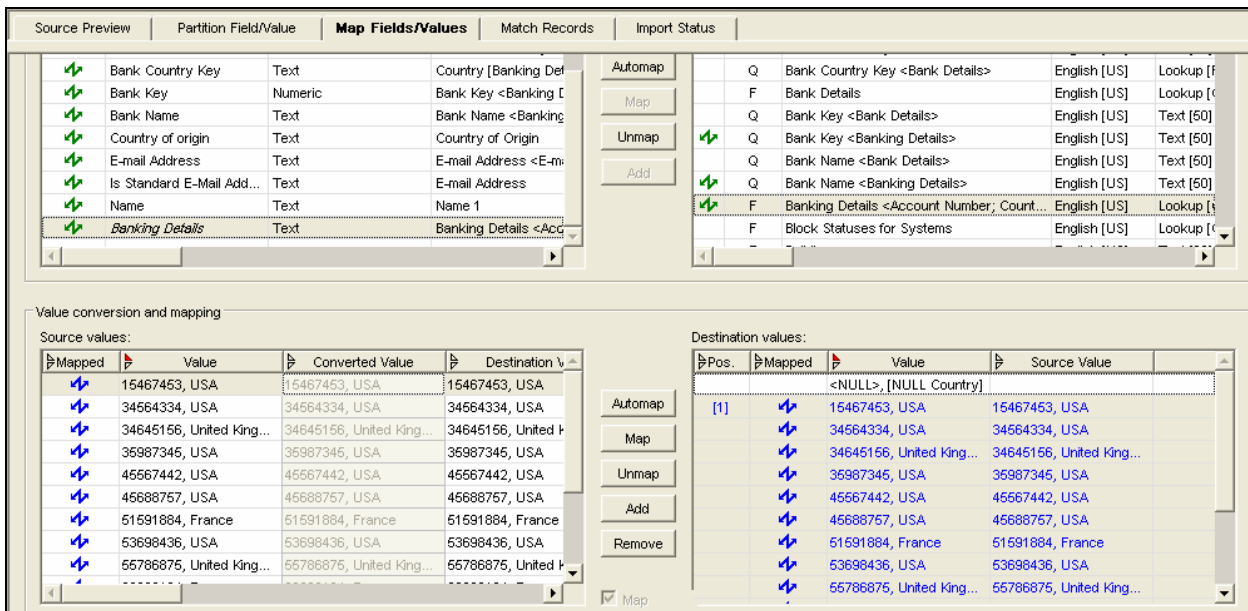
After mapping both these fields, right click on source side and say "Create Compound Field". Only the table "Banking details" will be enabled. Select this table.



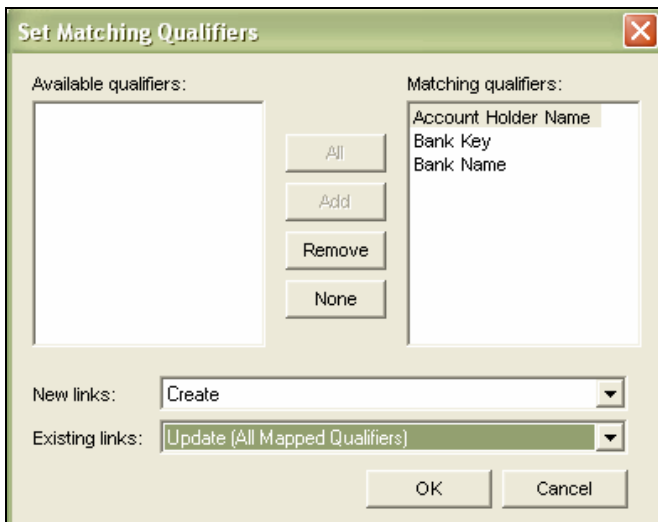
You will see that a new field "Banking Details" gets created on source side and gets automatically mapped to the field "Banking Details" (Main table field created by you as look up qualified to Banking details table). This field on destination side will have "F" against it.



Do the value mapping for it.



After this right click on this field on destination side and choose Set qualified update -> update. Select the matching qualifiers and select the action for new and existing links as done for Email addresses.



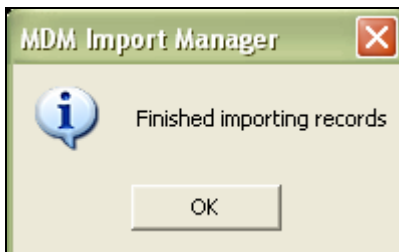
Then go to the matching tab and select the matching field for the data to be imported and select the import action.

Active	Match Level	Match Type	Default Import Action
14 of 14	None	None	Create
0 of 0	Single	Exact	Skip
0 of 0	Single	Partial	Skip
0 of 0	Single	Conflict	Skip
0 of 0	Multiple	Exact	Skip
0 of 0	Multiple	Partial	Skip
0 of 0	Multiple	Conflict	Skip
0 of 0	Filtered	Source	Skip
0 of 0	Filtered	Destination	Skip

Go to Import status tab. There, you will find “Action items” as Ready to import. Then execute the import.

Table Mapping	Source	Destination	Fields Mapped
'NATURAL PERSON\$'	NATURAL PERSON		10 of 9

Field Mapping (without Value Mapping)	Source	Destination	Values Converted
Name	Name 1		6 of 6
E-mail Address	E-mail Address <E-mail Address>		14 of 14
Account Number	Account Number [Banking Details]		14 of 14
Account Holder Name	Account Holder Name <Banking Details>		6 of 6
Bank Key	Bank Key <Banking Details>		14 of 14
Bank Name	Bank Name <Banking Details>		6 of 6



Checking Data in Data Manager

Go to data manager and check the records imported by you. You will see that you got the multiple qualified links for main table records. For example here, we have got three email addresses and three bank accounts for “Abird Holding” and five email addresses and five bank accounts for “Pioneer”.

The screenshot shows the SAP Data Manager interface. On the left, there are search parameters and a 'Free-Form Search' section. The main area displays a list of records with columns for MDM ID, GPID, Account group, and Search Term 1. The record with MDM ID 149 is selected. Below the list, the 'Record Detail' tab is active, showing fields for MDM ID (149), GPID, Account group, Search Term 1, Search Term 2, Supplier / Customer, Title, First Name (ABIRD HOLDING B.V.), Last Name, Gender, Day Of Birth, Month Of Birth, Previous Last Name 1-4, Alternate Name, Name 1-4, and Country of Origin (United Kingdom). On the right, there are filterable sections for Bank Details, Country Specific VAT Number, E-mail Address (3 of 3), Block Statuses for Systems, and Banking Details (3 of 3).

The screenshot shows the SAP Data Manager interface. On the left, there are search parameters and a 'Free-Form Search' section. The main area displays a list of records with columns for MDM ID, GPID, Account group, and Search Term 1. The record with MDM ID 151 is selected. Below the list, the 'Record Detail' tab is active, showing fields for MDM ID (151), GPID, Account group, Search Term 1, Search Term 2, Supplier / Customer, Title, First Name (Pioneer Distributing Company, Inc.), Last Name, Gender, Day Of Birth, Month Of Birth, Previous Last Name 1-4, Alternate Name, Name 1-4, and Country of Origin (USA). On the right, there are filterable sections for Bank Details, Country Specific VAT Number, E-mail Address (5 of 5), Block Statuses for Systems, and Banking Details (5 of 5).

Summary

Here we developed a way for importing main table data along with the data in qualified tables in single step. This will avoid the burden of importing this data in two steps: first importing qualified data and then linking it to the main table data. But one needs to be careful about the format of the source file in this type of scenarios. Because a minor error in the source file format can corrupt the entire data and you will have to repeat the whole process again.

Related Content

<https://www.sdn.sap.com/irj/sdn/weblogs?blog=/pub/wlg/3417>

<https://www.sdn.sap.com/irj/sdn/thread?threadID=716882&messageID=4790989#4790989>

http://help.sap.com/saphelp_mdmgds55/helpdata/EN/43/12036df94c3e92e10000000a1553f6/frameset.htm

For more information, visit the [Master Data Management homepage](#).

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