

# **Kollet PowerETL**

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## Kollect PowerETL

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## Kollect PowerETL Introduction

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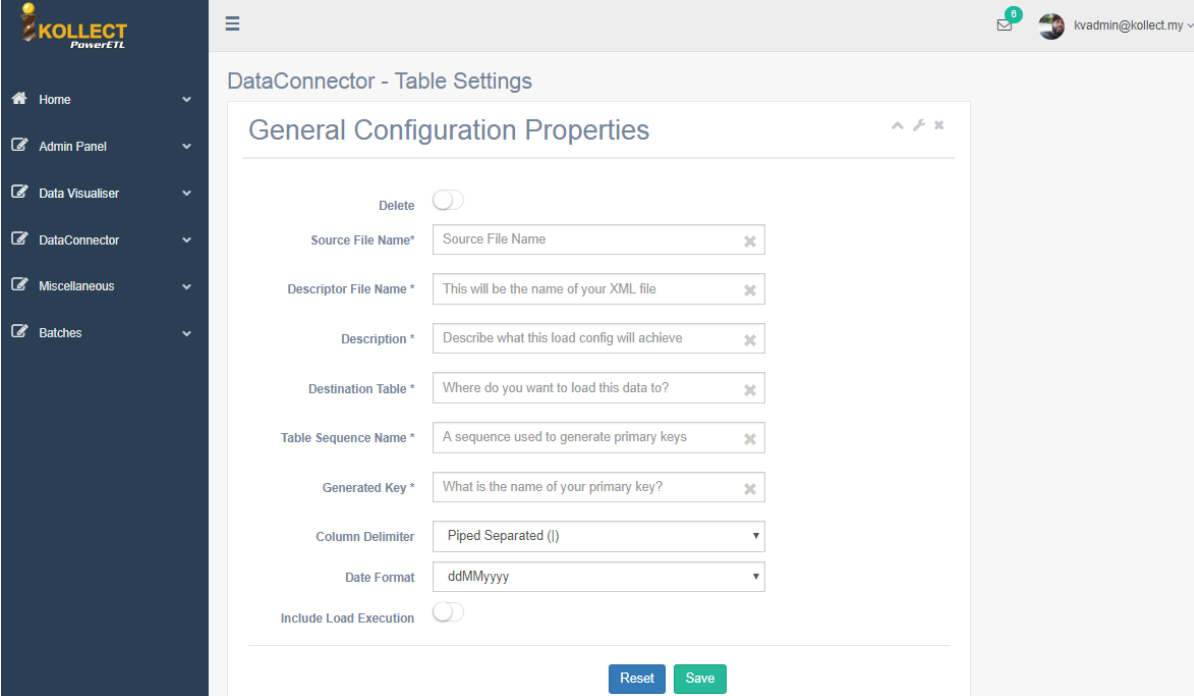
KollectValley operates daily for our tenants but how is KollectValley always up to date? This is done by extracting data directly from our tenant's accounting system and loading it into the Kollect Database. Once the data is loaded into the database, the most up to date information becomes available for our tenants. However, the data structure from the tenants are not the same as the data structure in the Kollect Database. This data would need to be transformed somehow to match Kollect's data structure and this is achieved by using the Kollect PowerETL.

The PowerETL was created for internal use by Kollect to handle this daily data. Data from these tenants are stored in data files, and these data files are Extracted, Transformed and then Loaded into Kollect's Database. This streamlines the flow of the data from the data files extracted to its entry into Kollect's Database.

KollectValley - YYC by Kollect Systems Sdn. Bhd

## Table Settings - General Configuration Properties

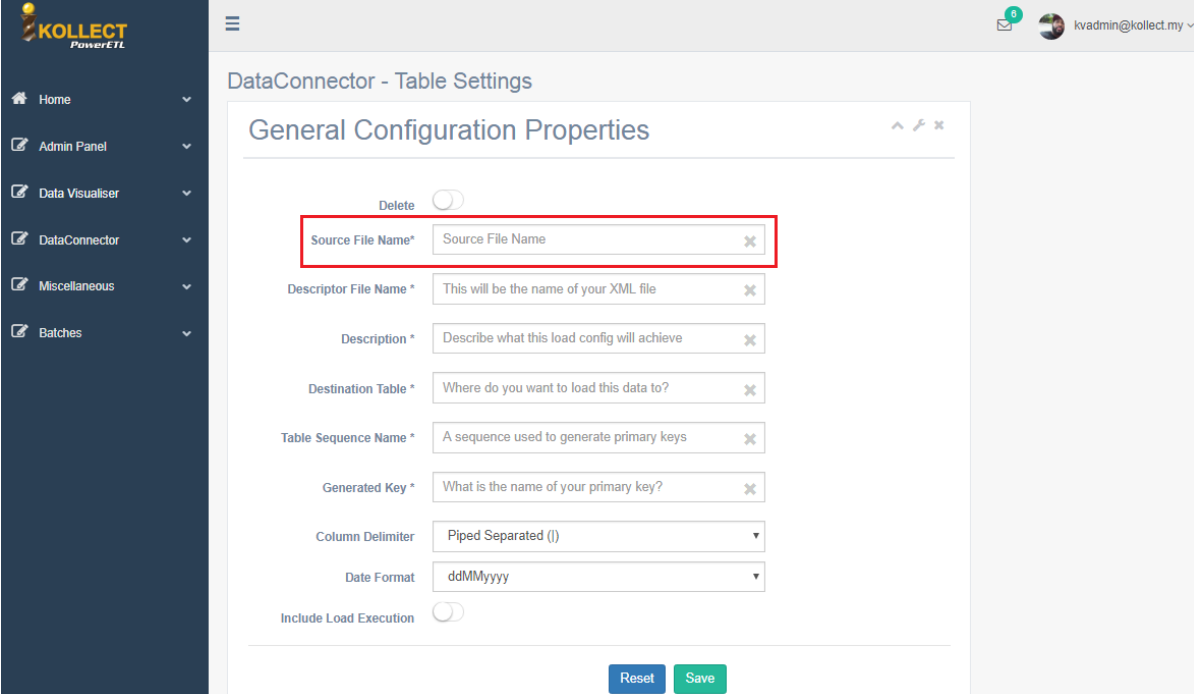
This section is for users to insert information about the data file that is to be loaded. Most of these files will come as CSV (Comma Separated Values) or PSV (Pipe Separated Values) files, both of which consist of rows and columns like an Excel file. Information about the data file and then its columns need to be recorded and below is the method for inserting the initial information about the data file itself.



The screenshot displays the 'DataConnector - Table Settings' interface. On the left is a dark blue sidebar with the 'KOLLECT PowerETL' logo and a menu containing: Home, Admin Panel, Data Visualiser, DataConnector, Miscellaneous, and Batches. The main content area is titled 'DataConnector - Table Settings' and features a 'General Configuration Properties' form. The form includes a 'Delete' toggle switch at the top. Below it are several input fields, each with a placeholder text and a clear (X) button: 'Source File Name\*' (placeholder: 'Source File Name'), 'Descriptor File Name \*' (placeholder: 'This will be the name of your XML file'), 'Description \*' (placeholder: 'Describe what this load config will achieve'), 'Destination Table \*' (placeholder: 'Where do you want to load this data to?'), 'Table Sequence Name \*' (placeholder: 'A sequence used to generate primary keys'), and 'Generated Key \*' (placeholder: 'What is the name of your primary key?'). There are also two dropdown menus: 'Column Delimiter' (set to 'Piped Separated (|)') and 'Date Format' (set to 'ddMMyyyy'). At the bottom of the form is an 'Include Load Execution' toggle switch. Below the form are two buttons: 'Reset' (blue) and 'Save' (green). The top right of the interface shows a user profile icon and the email 'kvadmin@kollect.my'.

**Figure 2: Table Settings**

## Source File Name



**DataConnector - Table Settings**

### General Configuration Properties

Delete ☐

Source File Name\*

Descriptor File Name\*

Description\*

Destination Table\*

Table Sequence Name\*

Generated Key\*

Column Delimiter

Date Format

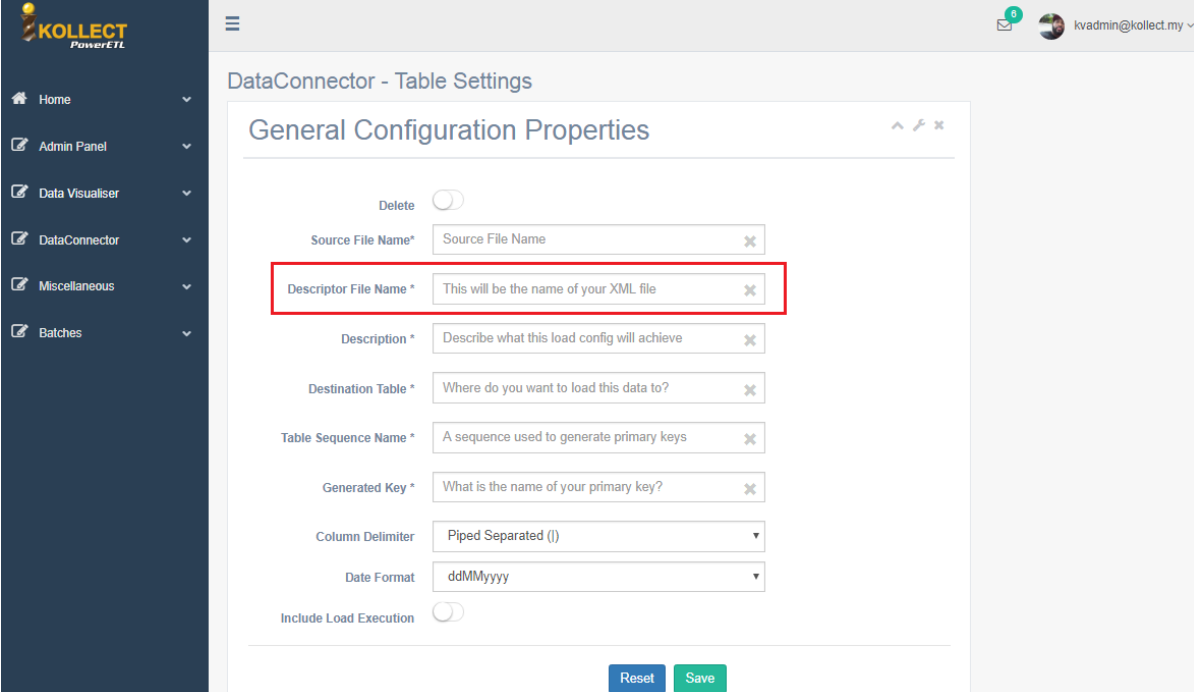
Include Load Execution ☐

[Reset](#) [Save](#)

**Figure 3: General Settings - Source File Name**

Insert the Source File Name in full to this field. Also remember to include the extension type of the file, into this field.

## Descriptor File Name



**DataConnector - Table Settings**

### General Configuration Properties

Delete ☐

Source File Name\*

Descriptor File Name\*

Description\*

Destination Table\*

Table Sequence Name\*

Generated Key\*

Column Delimiter

Date Format

Include Load Execution ☐

[Reset](#) [Save](#)

**Figure 4: General Settings - Descriptor File Name**

The Descriptor File Name is for the user to enter the name of the data file in this field, but without numbers or its extension. The value in this field will become the name of the XML file created.

## Description

The screenshot shows the 'DataConnector - Table Settings' interface. On the left is a dark blue sidebar with the 'KOLLECT PowerETL' logo and a menu with items: Home, Admin Panel, Data Visualiser, DataConnector, Miscellaneous, and Batches. The main content area has a header 'DataConnector - Table Settings' and a sub-header 'General Configuration Properties'. Below this is a form with several fields: 'Delete' (toggle), 'Source File Name' (text input), 'Descriptor File Name' (text input with placeholder 'This will be the name of your XML file'), 'Description' (text input with placeholder 'Describe what this load config will achieve', highlighted with a red box), 'Destination Table' (text input), 'Table Sequence Name' (text input), 'Generated Key' (text input), 'Column Delimiter' (dropdown menu), 'Date Format' (dropdown menu), and 'Include Load Execution' (toggle). At the bottom right are 'Reset' and 'Save' buttons.

**Figure 5: General Settings - Description**

In this field, the user is expected to fill up a short description of the file that is being loaded.

## Destination Table

The screenshot displays the 'DataConnector - Table Settings' page. On the left is a dark blue sidebar with the 'KOLLECT PowerETL' logo and a menu containing: Home, Admin Panel, Data Visualiser, DataConnector, Miscellaneous, and Batches. The main content area is titled 'DataConnector - Table Settings' and contains a 'General Configuration Properties' section. This section includes several form fields: 'Source File Name' (text input), 'Descriptor File Name' (text input), 'Description' (text input), 'Destination Table' (text input, highlighted with a red box), 'Table Sequence Name' (text input), 'Generated Key' (text input), 'Column Delimiter' (dropdown menu set to 'Piped Separated (|)'), and 'Date Format' (dropdown menu set to 'ddMMyyyy'). There are also 'Delete' and 'Include Load Execution' toggle switches. At the bottom right of the form are 'Reset' and 'Save' buttons. The top right of the interface shows a user profile for 'kvadmin@kollect.my'.

**Figure 6: General Settings - Destination Table**

All data files are eventually loaded into Kollect Database and in this Destination Table field, the user needs to specify the database table where the data will be loaded to.



## Table Sequence Name

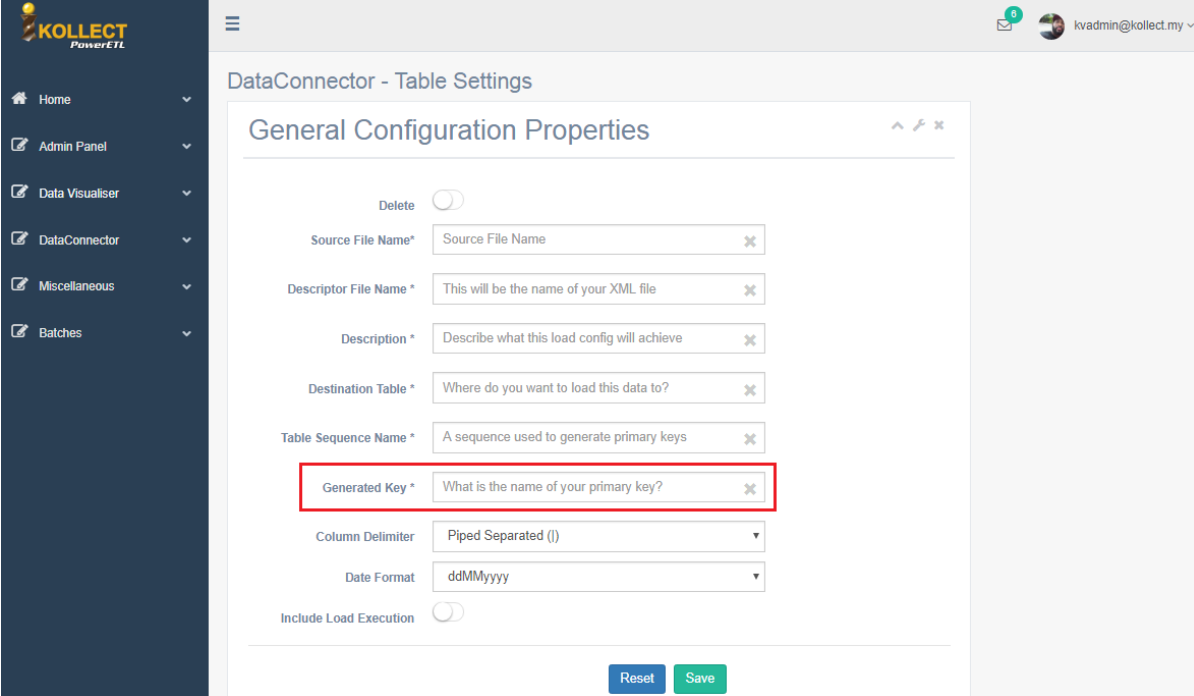
The screenshot shows the KOLLECT PowerETL interface. On the left is a dark blue sidebar with navigation links: Home, Admin Panel, Data Visualiser, DataConnector, Miscellaneous, and Batches. The main content area is titled 'DataConnector - Table Settings' and contains a 'General Configuration Properties' section. This section has several input fields, each with a placeholder text and a clear (X) button. The 'Table Sequence Name' field is highlighted with a red rectangular box. Below the input fields are 'Reset' and 'Save' buttons. The 'Delete' toggle is at the top left of the configuration area.

Field	Placeholder Text
Source File Name *	Source File Name
Descriptor File Name *	This will be the name of your XML file
Description *	Describe what this load config will achieve
Destination Table *	Where do you want to load this data to?
Table Sequence Name *	A sequence used to generate primary keys
Generated Key *	What is the name of your primary key?
Column Delimiter	Piped Separated ( )
Date Format	ddMMyyyy

**Figure 7: General Settings - Table Sequence Name**

The table sequence name specifies the sequence used to generate Primary Keys. Here, the user is supposed to enter the Database Table Name, followed by `_ID`.

## Generated Key



The screenshot shows the Kollect PowerETL interface. On the left is a dark blue sidebar with navigation links: Home, Admin Panel, Data Visualiser, DataConnector, Miscellaneous, and Batches. The main content area is titled 'DataConnector - Table Settings'. Inside this, there's a 'General Configuration Properties' section. At the top of this section is a 'Delete' toggle switch. Below it are several text input fields, each with a placeholder text and a clear (X) button: 'Source File Name\*' (placeholder: Source File Name), 'Descriptor File Name\*' (placeholder: This will be the name of your XML file), 'Description\*' (placeholder: Describe what this load config will achieve), 'Destination Table\*' (placeholder: Where do you want to load this data to?), 'Table Sequence Name\*' (placeholder: A sequence used to generate primary keys), and 'Generated Key\*' (placeholder: What is the name of your primary key?). The 'Generated Key\*' field is highlighted with a red circle. Below these fields are two dropdown menus: 'Column Delimiter' (set to 'Piped Separated (|)') and 'Date Format' (set to 'ddMMyyyy'). At the bottom of the section is an 'Include Load Execution' toggle switch. At the very bottom of the settings area are two buttons: 'Reset' and 'Save'.

**Figure 8: General Settings - Generated Key**

The Generated Key specifies the name of the Primary Key column. In Kollect's Database Tables, the Primary Key Column is always the ID column and as such, this field's value is always, ID

## Column Delimiter

The screenshot shows the KOLLECT PowerETL interface. On the left is a dark blue sidebar with navigation links: Home, Admin Panel, Data Visualiser, DataConnector, Miscellaneous, and Batches. The main content area is titled 'DataConnector - Table Settings'. Inside this, there's a 'General Configuration Properties' section. At the top of this section is a 'Delete' toggle switch. Below it are several text input fields with placeholder text: 'Source File Name' (placeholder: Source File Name), 'Descriptor File Name' (placeholder: This will be the name of your XML file), 'Description' (placeholder: Describe what this load config will achieve), 'Destination Table' (placeholder: Where do you want to load this data to?), 'Table Sequence Name' (placeholder: A sequence used to generate primary keys), and 'Generated Key' (placeholder: What is the name of your primary key?). Below these is a 'Column Delimiter' dropdown menu, which is highlighted with a red rectangle and currently shows 'Piped Separated (|)'. Below the dropdown is a 'Date Format' dropdown showing 'ddMMyyyy'. At the bottom of the section is an 'Include Load Execution' toggle switch. At the very bottom of the settings area are two buttons: 'Reset' and 'Save'.

**Figure 9: General Settings - Column Delimiter**

The Column Delimiter dropdown is to specify how the data is separated in the Data File, and it would be either Comma ( , ) or Pipe ( | ) so the user is required to select how the data is separated.

## Date Format

**KOLLECT PowerETL**

Home Admin Panel Data Visualiser DataConnector Miscellaneous Batches

DataConnector - Table Settings

### General Configuration Properties

Delete ☐

Source File Name\*

Descriptor File Name\*

Description\*

Destination Table\*

Table Sequence Name\*

Generated Key\*

Column Delimiter

Date Format

Include Load Execution ☐

Reset Save

**Figure 10: General Settings - Date Format**

The Date Format here is to specify how dates are formatted in the data file received from the tenant. Date Format Options are selectable by the drop down menu, however the most commonly used date format is ddMMyyyy.

## Include Load Execution

**DataConnector - Table Settings**

**General Configuration Properties**

Delete ☐

Source File Name\*

Descriptor File Name\*

Description\*

Destination Table\*

Table Sequence Name\*

Generated Key\*

Column Delimiter

Date Format

**Include Load Execution** ☐

[Reset](#) [Save](#)

**Figure 11: General Settings - Include Load Execution**

The user is required to switch this button ON.

## Parent Table Settings

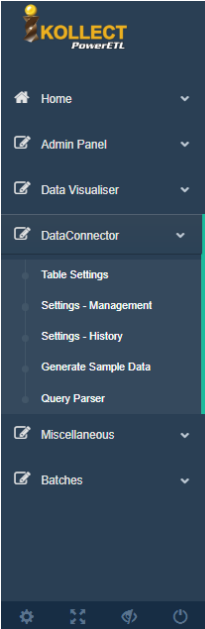
**Parent Table Settings**

Show  entries [Copy](#) [CSV](#) [Print](#) Search:

Source File Name	Description	Table	Sequence Name	Updated Date	Actions
ACCTLIST_20171118003141.csv	Accounts loading configuration	ACCOUNTS	ACCOUNTS_ID	05-Mar-2018	<a href="#">Edit</a> <a href="#">Add</a> <a href="#">Delete</a>
ACCTLIST_20171118003141.csv	Load to update customer related info in accounts file	CUSTOMERS	CUSTOMERS_ID	05-Mar-2018	<a href="#">Edit</a> <a href="#">Add</a> <a href="#">Delete</a>
CONFULLLIST_20171118003112.csv	Contact loading descriptor	contact	contact_id	05-Mar-2018	<a href="#">Edit</a> <a href="#">Add</a> <a href="#">Delete</a>
CONTRLIST_20171118003144.csv	Contact loading descriptor	contract	contract_id	05-Mar-2018	<a href="#">Edit</a> <a href="#">Add</a> <a href="#">Delete</a>
CUSTLIST_20171118003004.csv	Customer address loading descriptor	CUSTOMERS_ADDRESSES	CUSTOMERS_ADDRESSES_ID	05-Mar-2018	<a href="#">Edit</a> <a href="#">Add</a> <a href="#">Delete</a>
CUSTLIST_20171118003004.csv	Customer phone number loading descriptor	CUSTOMERS_PHONE_NOS	CUSTOMERS_PHONE_NOS_ID	05-Mar-2018	<a href="#">Edit</a> <a href="#">Add</a> <a href="#">Delete</a>
CUSTLIST_20171118003004.csv	Customer additional information loading descriptor	CUSTOMERS_ADDITIONAL_INFO	CUSTOMERS_ADDITIONAL_INFO_ID	05-Mar-2018	<a href="#">Edit</a> <a href="#">Add</a> <a href="#">Delete</a>
CUSTLIST_20171118003004.csv	Customer loading descriptor	CUSTOMERS	CUSTOMERS_ID	05-Mar-2018	<a href="#">Edit</a> <a href="#">Add</a> <a href="#">Delete</a>

**Figure 12: Parent Table Settings**

Once all the fields are filled, the user can click save and move on to the next file or to inserting the columns. The user can scroll down to view what they have saved in the Parent Table Settings. In this table, users are also given a list of actions that can be taken. These actions are Edit, Add Fields, Preview DC Configuration File and lastly, Download DC Configuration File. To continue the loading process, users can click the plus(Add) icon to begin inserting the details of each column.



































**KOLLECT PowerETL**

Home Admin Panel Data Visualiser DataConnector Table Settings Settings - Management Settings - History Generate Sample Data Query Parser Miscellaneous Batches


### Parent Table Settings

Show 10 entries Copy CSV Print Search:

Source File Name	Description	Table	Sequence Name	Updated Date	Actions
ACCTLIST_20171118003141.csv	Accounts loading configuration	ACCOUNTS	ACCOUNTS_ID	05-Mar-2018	   
ACCTLIST_20171118003141.csv	Load to update customer related info in accounts file	CUSTOMERS	CUSTOMERS_ID	05-Mar-2018	   
CONTFULLLIST_20171118003112.csv	Contact loading descriptor	contact	contact_id	05-Mar-2018	   
CONTRLIST_20171118003144.csv	Contact loading descriptor	contract	contract_id	05-Mar-2018	   
CUSTLIST_20171118003004.csv	Customer address loading descriptor	CUSTOMERS_ADDRESSES	CUSTOMERS_ADDRESSES_ID	05-Mar-2018	   
CUSTLIST_20171118003004.csv	Customer phone number loading descriptor	CUSTOMERS_PHONE_NOS	CUSTOMERS_PHONE_NOS_ID	05-Mar-2018	   
CUSTLIST_20171118003004.csv	Customer additional information loading descriptor	CUSTOMERS_ADDITIONAL_INFO	CUSTOMERS_ADDITIONAL_INFO_ID	05-Mar-2018	   
CUSTLIST_20171118003004.csv	Customer loading descriptor	CUSTOMERS	CUSTOMERS_ID	05-Mar-2018	   

**Figure 13: Parent Table Settings - Actions**

# Configuration - Add



Home

Data Visualiser

DataConnector

Miscellaneous

Batches

DataConnector

Configuration - Add

Delete

Table Name \*  
ACCOUNTS

Parent ID \*  
60

Column Name \*  
Column Name

Remark \*  
Remark

Column Default Value \*  
Column Default Value

Column Start Position \*  
Enter Start Position

Column End Position \*  
Enter End Position

Column Data Handler  
Long Handler

Column Properties  
☐ Column Is Key  
☐ Column Is External  
☐ Column Is Optional  
☐ Column Is Cached

Look Up Query  
select id from subsidiaries where name =  
#subsidiary\_id#  
validate

Look Insert Query  
INSERT INTO #subsidiary\_id# ("") VALUES ("")  
validate

Look Insert Key Query  
select id from subsidiaries where name =  
#subsidiary\_id#  
validate

Reset Save

Configuration Table

Search:

Column Name	Default Value	Start Position	End Position	Data Handler	Is Key	Is External	Is Optional	Is Cached
ACCOUNT_GROUP_ID	0	0	0	Long Handler	false	false	false	false
ACCOUNT_NO	-	1	1	String Handler	true	false	false	false
ACCOUNT_NO	-	0	0	Long Handler	false	false	false	false
COMPANY_CODE	0	0	0	Long Handler	false	false	false	false
CREATED_AT	CURRENT_DATE	0	0	Date Default Handler	false	false	false	false
CREATED_BY	106	0	0	Long Handler	false	false	false	false
CUSTOMER_ID	0	1	1	Long Handler	false	false	false	false
HOST_ACCOUNT_NO	-	0	0	String Handler	false	false	false	false
IMPORT_ID	501	0	0	Long Handler	false	false	false	false
STATUS_ID	501	0	0	Long Handler	false	false	false	false

Showing 1 to 10 of 14 entries

Previous 2 Next

Figure 14: Parent Table Settings

Here the user needs to insert details of the first column, then click save, then start inserting details on the second column and so on.