

# **Kollet PowerETL**

# Contents

- Kollect PowerETL..... 3**
- Kollect PowerETL Introduction..... 3**
- Table Settings - General Configuration Properties.....5**
  - Source File Name..... 6
  - Descriptor File Name..... 7
  - Description..... 8
  - Destination Table..... 9
  - Table Sequence Name..... 10
  - Generated Key..... 11
  - Column Delimiter..... 12
  - Date Format..... 13
  - Include Load Execution..... 14

## 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 sidebar with the 'KOLLECT PowerETL' logo and a menu with items: Home, Admin Panel, Data Visualiser, DataConnector, Miscellaneous, and Batches. The main panel is titled 'DataConnector - Table Settings' and features a 'General Configuration Properties' form. The form includes a 'Delete' toggle at the top. Below it are several input fields: 'Source File Name\*' with placeholder 'Source File Name', 'Descriptor File Name\*' with placeholder 'This will be the name of your XML file', 'Description\*' with placeholder 'Describe what this load config will achieve', 'Destination Table\*' with placeholder 'Where do you want to load this data to?', 'Table Sequence Name\*' with placeholder 'A sequence used to generate primary keys', and 'Generated Key\*' with 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. Below the form are 'Reset' and 'Save' buttons. The top right of the interface shows a user profile for 'kadmin@kollect.my'.

**Figure 2: Table Settings**

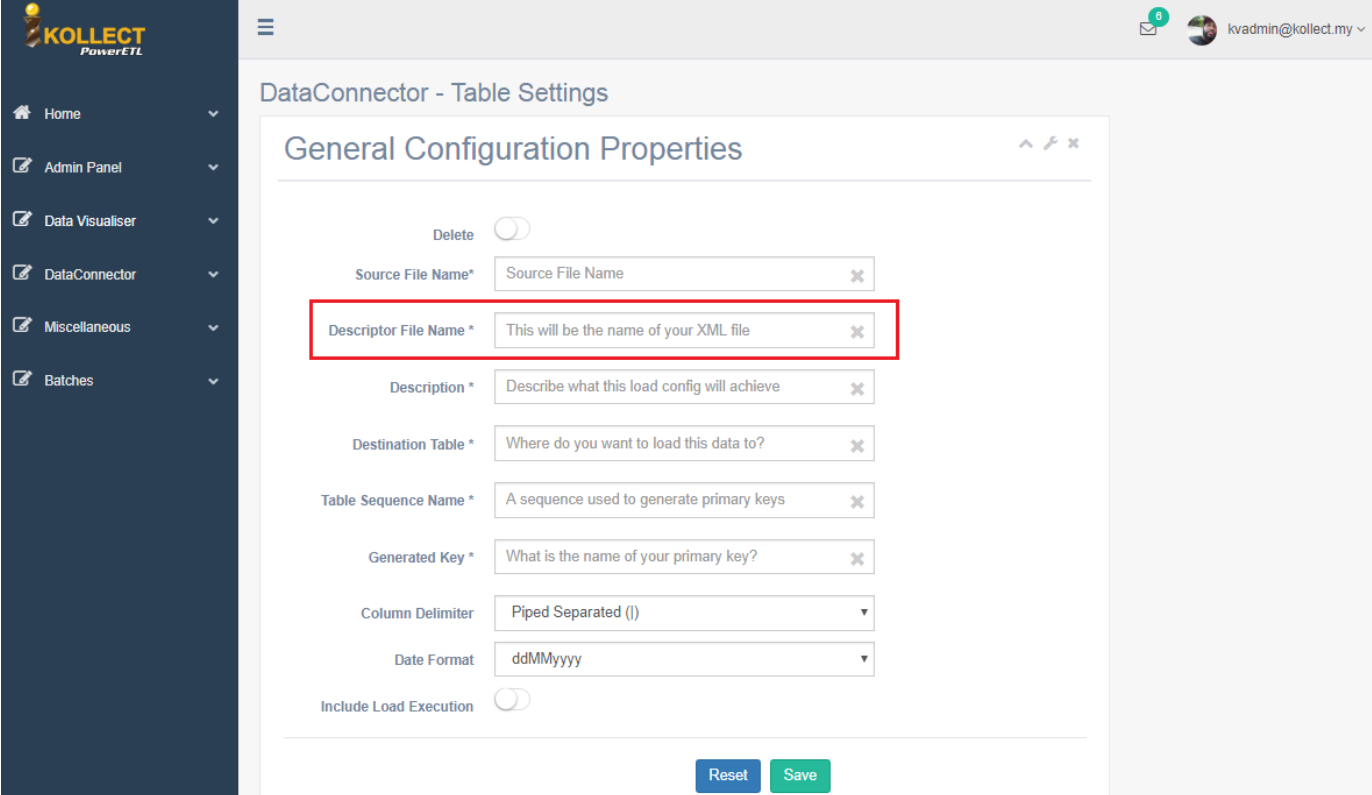
## Source File Name

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 area is titled 'DataConnector - Table Settings' and contains a 'General Configuration Properties' form. The form has several fields: 'Source File Name\*' (highlighted with a red box), 'Descriptor File Name \*', 'Description \*', 'Destination Table \*', 'Table Sequence Name \*', 'Generated Key \*', 'Column Delimiter' (a dropdown menu), 'Date Format' (a dropdown menu), and 'Include Load Execution' (a toggle switch). At the bottom right of the form are 'Reset' and 'Save' buttons. The user's email 'kvadmin@kollect.my' is visible in the top right corner.

**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



The screenshot displays the KOLLECT PowerETL web application 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' form. The form includes several fields: 'Source File Name\*' (text input), 'Descriptor File Name\*' (text input, highlighted with a red circle), 'Description\*' (text input), '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' (checkbox). The 'Descriptor File Name\*' field contains the placeholder text 'This will be the name of your XML file'. At the bottom right of the form are 'Reset' and 'Save' buttons.

**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

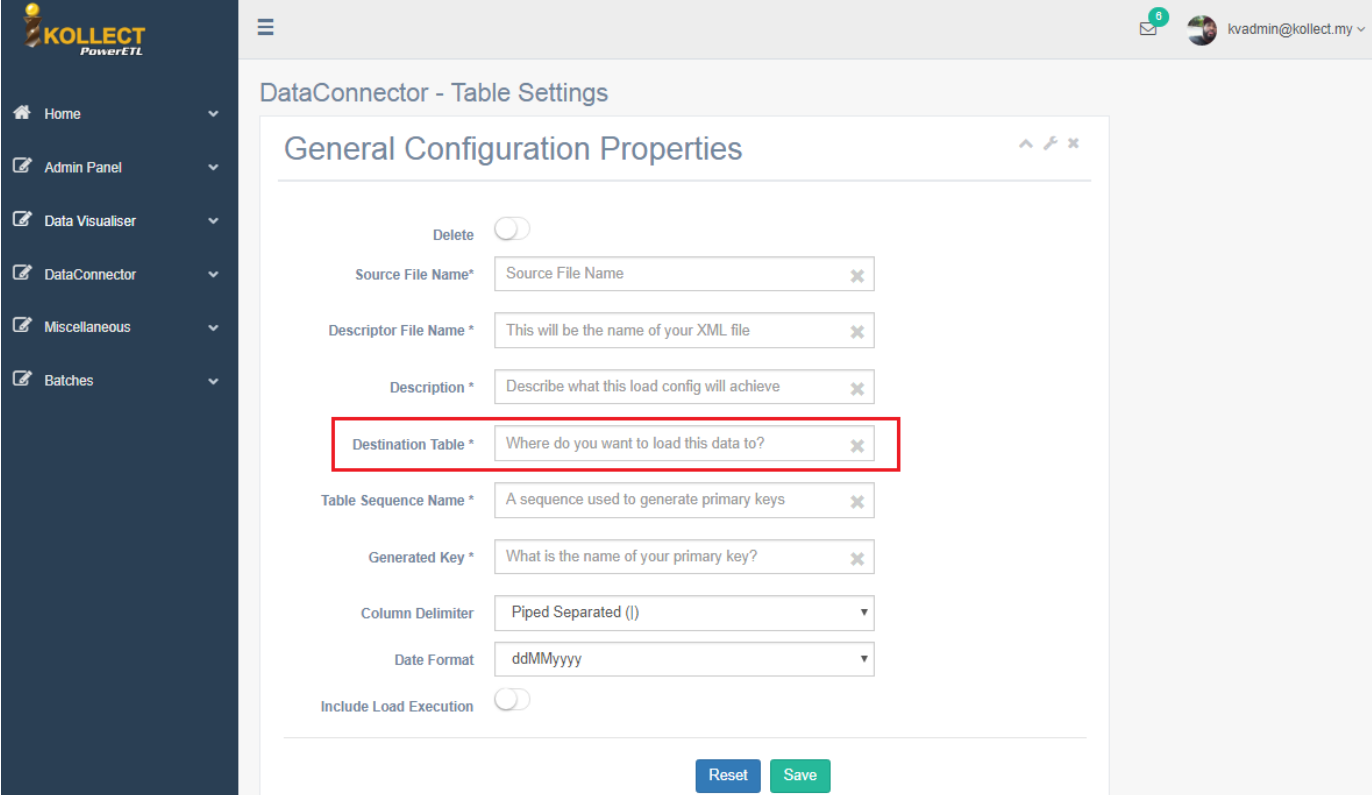
The screenshot shows the 'DataConnector - Table Settings' interface. On the left is a dark blue sidebar with the 'KOLLECT PowerETL' logo and a menu with items: Home, Admin Panel, Data Visualiser, DataConnector, Miscellaneous, and Batches. The main content area is titled 'DataConnector - Table Settings' and contains a 'General Configuration Properties' form. The form has several fields: 'Delete' (toggle), 'Source File Name\*' (text input), 'Descriptor File Name\*' (text input), 'Description\*' (text input, 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 of the form are 'Reset' and 'Save' buttons. The user's email 'kvadmin@kollect.my' is visible in the top right corner.

**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

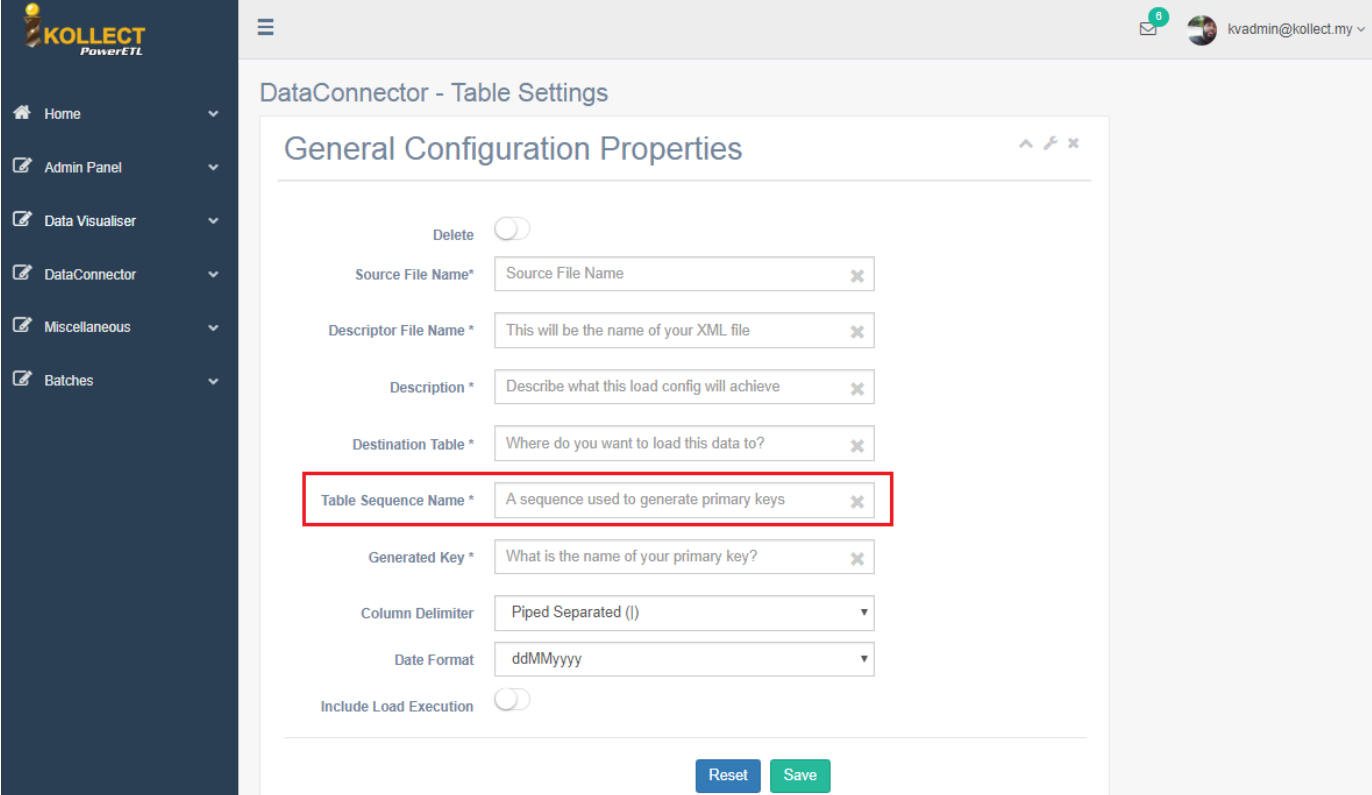


The screenshot shows the Kollect PowerETL interface. On the left is a dark blue sidebar with navigation links: Home, Admin Panel, Data Visualiser, DataConnector, Miscellaneous, and Batches. The main area is titled 'DataConnector - Table Settings' and contains a 'General Configuration Properties' form. The form includes several fields: 'Source File Name' (text input), 'Descriptor File Name' (text input), 'Description' (text input), 'Destination Table' (text input, highlighted with a red circle), 'Table Sequence Name' (text input), 'Generated Key' (text input), 'Column Delimiter' (dropdown menu), 'Date Format' (dropdown menu), and 'Include Load Execution' (checkbox). At the bottom right of the form are 'Reset' and 'Save' buttons. The user's email 'kadmin@kollect.my' is visible in the top right corner.

**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 area is titled 'DataConnector - Table Settings' and contains a 'General Configuration Properties' form. The form has several fields: 'Source File Name' (text input), 'Descriptor File Name' (text input), 'Description' (text input), 'Destination Table' (text input), 'Table Sequence Name' (text input, highlighted with a red box), 'Generated Key' (text input), 'Column Delimiter' (dropdown menu), 'Date Format' (dropdown menu), and 'Include Load Execution' (checkbox). The 'Table Sequence Name' field contains the text 'A sequence used to generate primary keys'. At the bottom right of the form are 'Reset' and 'Save' buttons.

**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 displays the 'DataConnector - Table Settings' page in the Kollect PowerETL application. The left sidebar contains navigation links: Home, Admin Panel, Data Visualiser, DataConnector, Miscellaneous, and Batches. The main content area is titled 'General Configuration Properties' and contains several form fields:

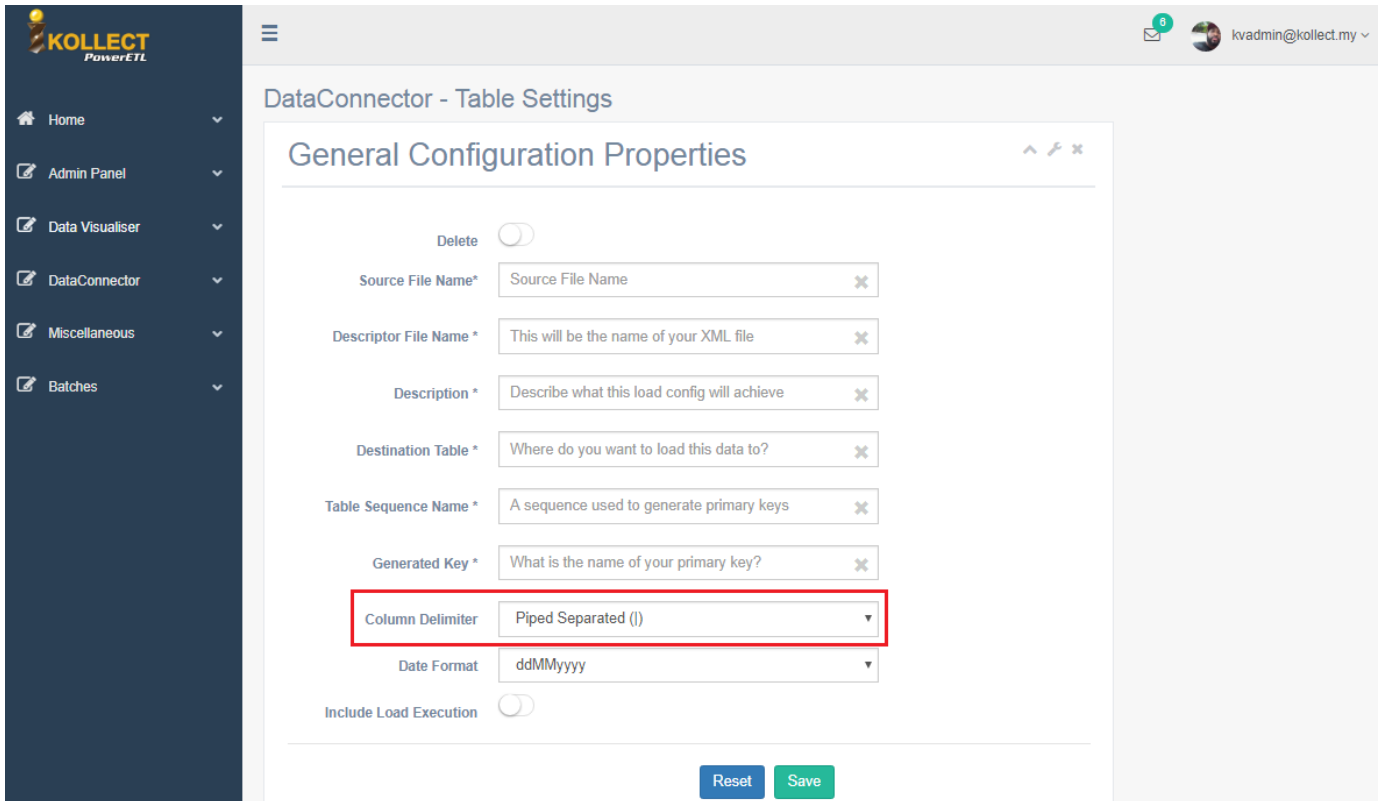
- Delete:** A toggle switch.
- Source File Name\*:** A text input field with the value 'Source File Name'.
- Descriptor File Name\*:** A text input field with the value 'This will be the name of your XML file'.
- Description\*:** A text input field with the value 'Describe what this load config will achieve'.
- Destination Table\*:** A text input field with the value 'Where do you want to load this data to?'.
- Table Sequence Name\*:** A text input field with the value 'A sequence used to generate primary keys'.
- Generated Key\*:** A text input field with the value 'What is the name of your primary key?'. This field is highlighted with a red rectangular border.
- Column Delimiter:** A dropdown menu with the selected value 'Piped Separated (|)'.
- Date Format:** A dropdown menu with the selected value 'ddMMyyyy'.
- Include Load Execution:** A toggle switch.

At the bottom right of the form, there are two buttons: 'Reset' (blue) and 'Save' (green).

**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 'DataConnector - Table Settings' page in the KOLLECT PowerETL application. The left sidebar contains navigation links: Home, Admin Panel, Data Visualiser, DataConnector, Miscellaneous, and Batches. The main content area is titled 'General Configuration Properties' and contains several form fields:

- Delete:** A toggle switch.
- Source File Name\*:** A text input field with the value 'Source File Name'.
- Descriptor File Name\*:** A text input field with the value 'This will be the name of your XML file'.
- Description\*:** A text input field with the value 'Describe what this load config will achieve'.
- Destination Table\*:** A text input field with the value 'Where do you want to load this data to?'.
- Table Sequence Name\*:** A text input field with the value 'A sequence used to generate primary keys'.
- Generated Key\*:** A text input field with the value 'What is the name of your primary key?'.
- Column Delimiter:** A dropdown menu with 'Piped Separated (|)' selected. This field is highlighted with a red rectangle.
- Date Format:** A dropdown menu with 'ddMMyyyy' selected.
- Include Load Execution:** A toggle switch.

At the bottom right of the form 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

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 labels: 'Source File Name\*', 'Descriptor File Name \*', 'Description \*', 'Destination Table \*', 'Table Sequence Name \*', and 'Generated Key \*'. Each field has a placeholder text and a clear (X) button. Below these are two dropdown menus: 'Column Delimiter' (set to 'Piped Separated (|)') and 'Date Format' (set to 'ddMMyyyy'). At the bottom of the form is the 'Include Load Execution' toggle switch, which is circled in red. At the very bottom right of the form are 'Reset' and 'Save' buttons.

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.