

Kollet PowerETL

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Kollect PowerETL



Kollect PowerETL Introduction

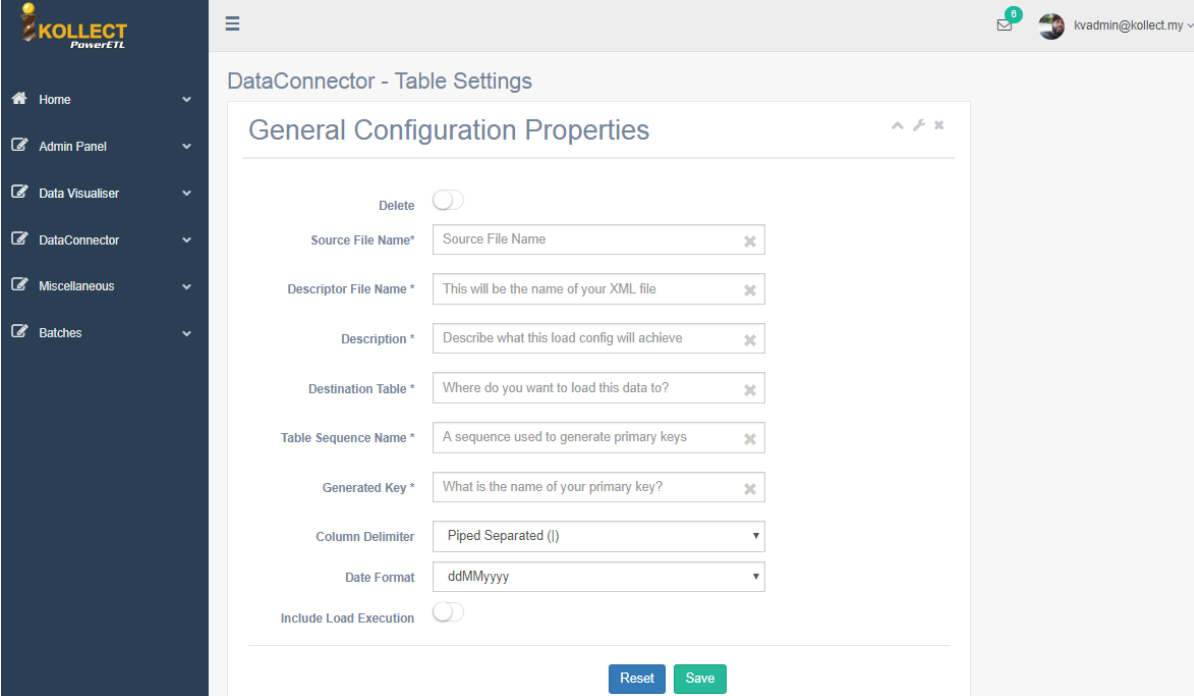
KollectValley operates daily for our tenants but how is KollectValley always up to date? This is done by extracting data directly from our tenant's accounting system and loading it into the Kollect Database. Once the data is loaded into the database, the most up to date information becomes available 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 for 'kvadmin@kollect.my'.

Figure 2: Table Settings

Source File Name

The screenshot shows the 'DataConnector - Table Settings' page. 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 content area is titled 'DataConnector - Table Settings' and contains a 'General Configuration Properties' form. The form has a 'Delete' toggle at the top. The 'Source File Name*' field is highlighted with a red box and contains the text 'Source File Name'. Below it are fields for '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'), 'Generated Key *' (placeholder: 'What is the name of your primary key?'), 'Column Delimiter' (dropdown: 'Piped Separated (|)'), 'Date Format' (dropdown: 'ddMMyyyy'), and an 'Include Load Execution' toggle. At the bottom are 'Reset' and 'Save' buttons.

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

This screenshot is identical to the previous one, showing the 'DataConnector - Table Settings' page. In this view, the 'Descriptor File Name *' field is highlighted with a red box. It contains the placeholder text 'This will be the name of your XML file'. All other elements, including the sidebar, form fields, and buttons, are the same as in Figure 3.

Figure 4: General Settings - Descriptor File Name

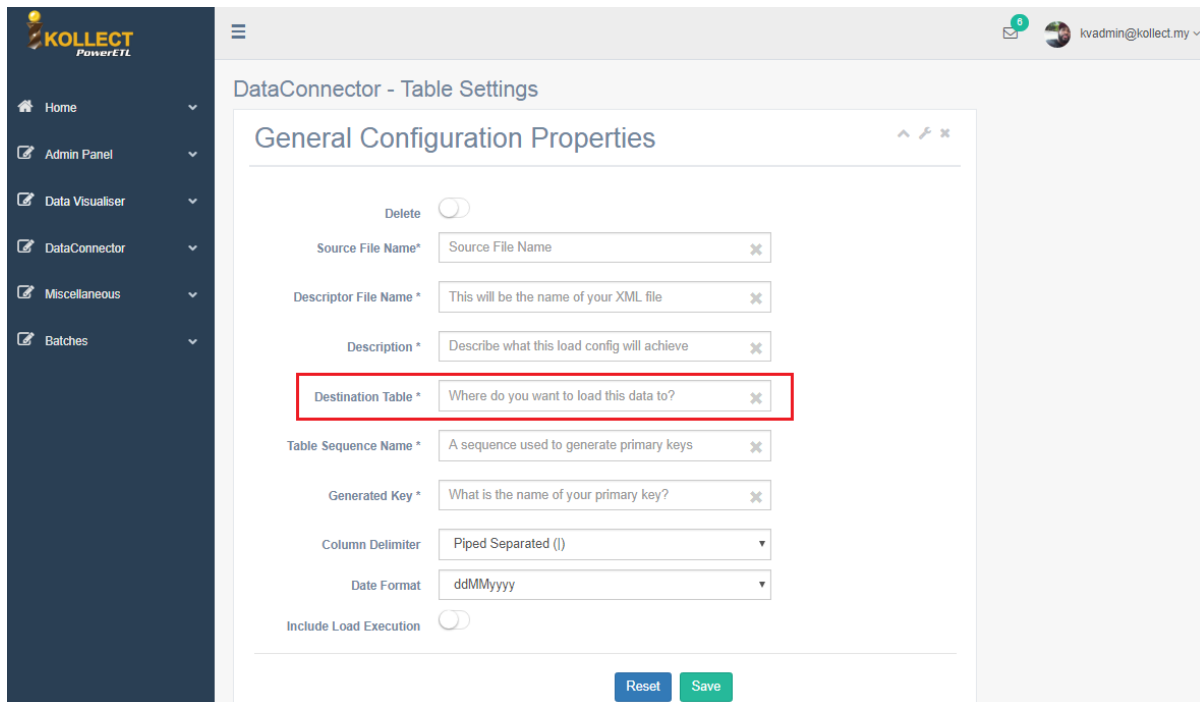
The Descriptor File Name is for the user to enter the name of the data file in this field, but without numbers or its extension. The value in this field will become the name of the XML file created.

Description

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 'DataConnector - Table Settings' page in the Kollect PowerETL application. The 'General Configuration Properties' section is active, displaying various input fields for configuring a data connector. The 'Destination Table' field is highlighted with a red rectangle, indicating its importance. The field contains the placeholder text 'Where do you want to load this data to?'. Other fields include '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'), 'Table Sequence Name' (placeholder: 'A sequence used to generate primary keys'), 'Generated Key' (placeholder: 'What is the name of your primary key?'), 'Column Delimiter' (dropdown menu with 'Piped Separated (|)' selected), 'Date Format' (dropdown menu with 'ddMMyyyy' selected), and 'Include Load Execution' (toggle switch). The 'Delete' toggle switch is also visible at the top of the configuration section. The 'Reset' and 'Save' buttons are located at the bottom right of the configuration area.

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 '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' section. This section has a 'Delete' toggle at the top. Below it are several text input fields, each with a placeholder 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. At the very bottom of the settings panel are 'Reset' and 'Save' buttons. The 'Table Sequence Name' field is highlighted with a red rectangular box.

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 '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' section. This section includes a 'Delete' toggle, and several text input fields: 'Source File Name' (with value 'Source File Name'), 'Descriptor File Name' (with value 'This will be the name of your XML file'), 'Description' (with value 'Describe what this load config will achieve'), 'Destination Table' (with value 'Where do you want to load this data to?'), 'Table Sequence Name' (with value 'A sequence used to generate primary keys'), and 'Generated Key' (with value 'What is the name of your primary key?'). The 'Generated Key' field is highlighted with a red rectangular box. Below these are dropdown menus for 'Column Delimiter' (set to 'Piped Separated (|)') and 'Date Format' (set to 'ddMMyyyy'). At the bottom of the form is an 'Include Load Execution' toggle. At the very bottom of the settings panel are 'Reset' and 'Save' buttons. The top right of the interface shows a user profile for 'kvadmin@kollect.my'.

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 sidebar with navigation links: Home, Admin Panel, Data Visualiser, DataConnector, Miscellaneous, and Batches. The main content area is titled 'DataConnector - Table Settings'. Inside, there's a 'General Configuration Properties' section with various input fields and a 'Delete' toggle. The 'Column Delimiter' dropdown is highlighted with a red box and is set to 'Piped Separated (|)'. Other fields include 'Source File Name', 'Descriptor File Name', 'Description', 'Destination Table', 'Table Sequence Name', 'Generated Key', 'Date Format', and 'Include Load Execution'. At the bottom right are 'Reset' and 'Save' buttons.

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

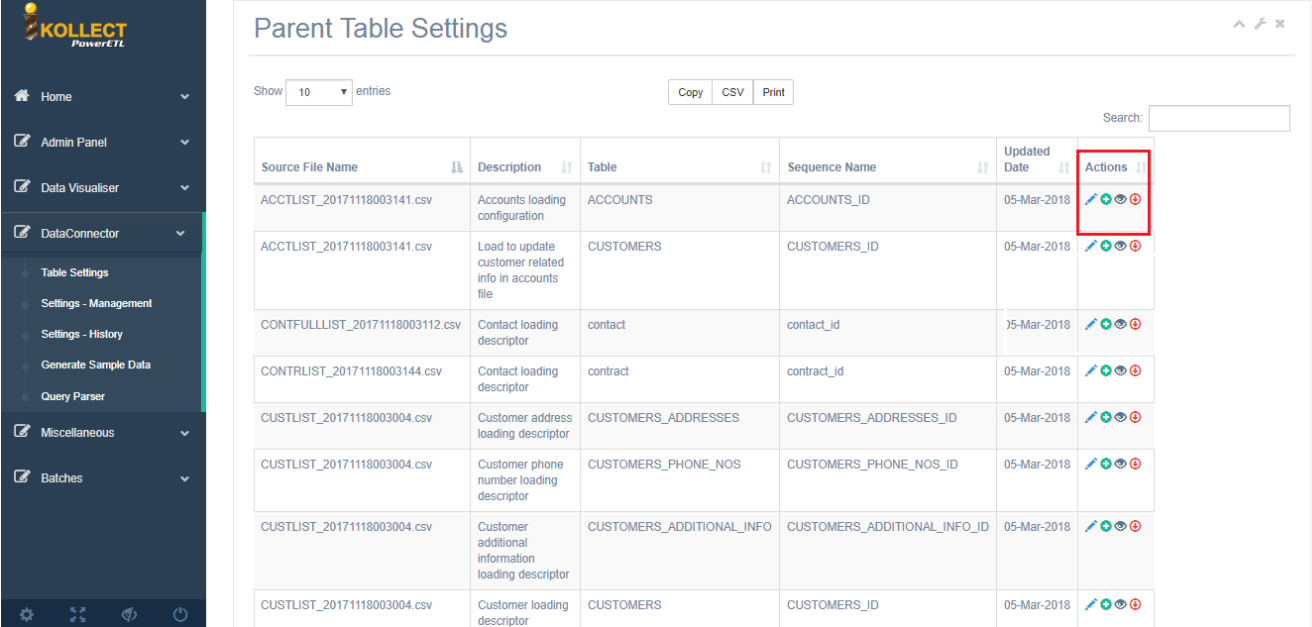
Parent Table Settings

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	Edit View Delete
ACCTLIST_20171118003141.csv	Load to update customer related info in accounts file	CUSTOMERS	CUSTOMERS_ID	05-Mar-2018	Edit View Delete
CONTFULLLIST_20171118003112.csv	Contact loading descriptor	contact	contact_id	05-Mar-2018	Edit View Delete
CONTRLIST_20171118003144.csv	Contact loading descriptor	contract	contract_id	05-Mar-2018	Edit View Delete
CUSTLIST_20171118003004.csv	Customer address loading descriptor	CUSTOMERS_ADDRESSES	CUSTOMERS_ADDRESSES_ID	05-Mar-2018	Edit View Delete
CUSTLIST_20171118003004.csv	Customer phone number loading descriptor	CUSTOMERS_PHONE_NOS	CUSTOMERS_PHONE_NOS_ID	05-Mar-2018	Edit View Delete
CUSTLIST_20171118003004.csv	Customer additional information loading descriptor	CUSTOMERS_ADDITIONAL_INFO	CUSTOMERS_ADDITIONAL_INFO_ID	05-Mar-2018	Edit View Delete
CUSTLIST_20171118003004.csv	Customer loading descriptor	CUSTOMERS	CUSTOMERS_ID	05-Mar-2018	Edit View Delete

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

6

anonymousUser

DataConnector

Configuration - Add

Delete ☐

Table Name *

Parent Id *

Column Name *

Remark *

Column Default Value *

Column Start Position *

Column End Position *

Column Data Handler

Column Properties

- ☐ Column Is Key
- ☐ Column Is External
- ☐ Column Is Optional
- ☐ Column Is Cached

Look Up Query

validate

Look Insert Query

validate

Look Insert Key Query

validate

Reset

Save

Configuration Table

Show entries

Copy
CSV
Print

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
1
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.