

# Kollet PowerETL

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## Kollect PowerETL

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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 is 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.

Kollect Power ETL is a new system which was developed to ease the Loading process across all the KollectValley platforms in handling this daily data. Data from these tenants which 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.

## Admin Panel

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The Admin Panel is a module the administrator can access to make changes to the PowerETL or to its users. The administrator is given a wide array of settings that can be adjusted or tweaked. The settings given to the administrator include User Management, Secure File Transfer Protocol (SFTP) Settings, Email Settings, Database Settings and Settings for Automated jobs by the host.

## User Management

**Figure 1: User Management**

The User Management page is a section for administrators to either view, add, edit or remove users who have access to the PowerETL. On the left side of the page, the administrator can Create or Edit details of a user. The administrator can also define the role of the users between a regular user and an administrator, and define the tenants that they are working on. On the right side of the page, there is a table that displays all the registered users First Name, and their Email Addresses. The administrator can also click edit in the Actions column to edit details of a user that is already registered.

## SFTP Settings

**Figure 2: SFTP Settings**

In the SFTP Settings section, the administrator defines the server name, port number and directories for Secured File Transfer Protocol.

## Email Settings

**KOLLECT PowerETL**

Admin - Email Settings

### Email Configuration Properties

Send Email ☒

User Authentication \*

Username \*

Password \*

Email Host \*

Email Recipient(s) \*

Email Port \*

Email Subject \*

Email Message \*

Subject Error \*

Message Error \*

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**Figure 3: Email Settings**

Email Configuration Properties is where the administrator can assign an email address for messages to go out from the PowerETL. When a batch is loaded with no issues, an email is sent to addresses in the 'Email Recipient' column, stating that the loading has successfully occurred. Alternatively, if there are any errors in the loading process, a message will also be sent to the registered email address stating that there was an error in the loading process. This allows the administrator with an assurance that they will receive an update from the PowerETL especially if there was an issue with the loading process.

## Database Settings

**Admin - Database Settings**

### Database Configuration Properties

Driver \*

URL \*

Port \*

Additional Args

Username \*

Password \*

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

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**Figure 4: Database Settings**

Database Settings define the Driver, URL and the port number to access the Database. The administrator would also need to provide the system with a username and password to the database to ensure smooth steady access for the PowerETL.

## Host

**Admin - Host**

### Add Job

Name \*

FQDN \*

Username \*

Host \*

Port \*

Public Key \*

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

### Jobs

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

No.	Name	Host
1	Weekly	abc.com
2	Midday Job	code.kollect.my
3	Midnight Jobs	xyz.com

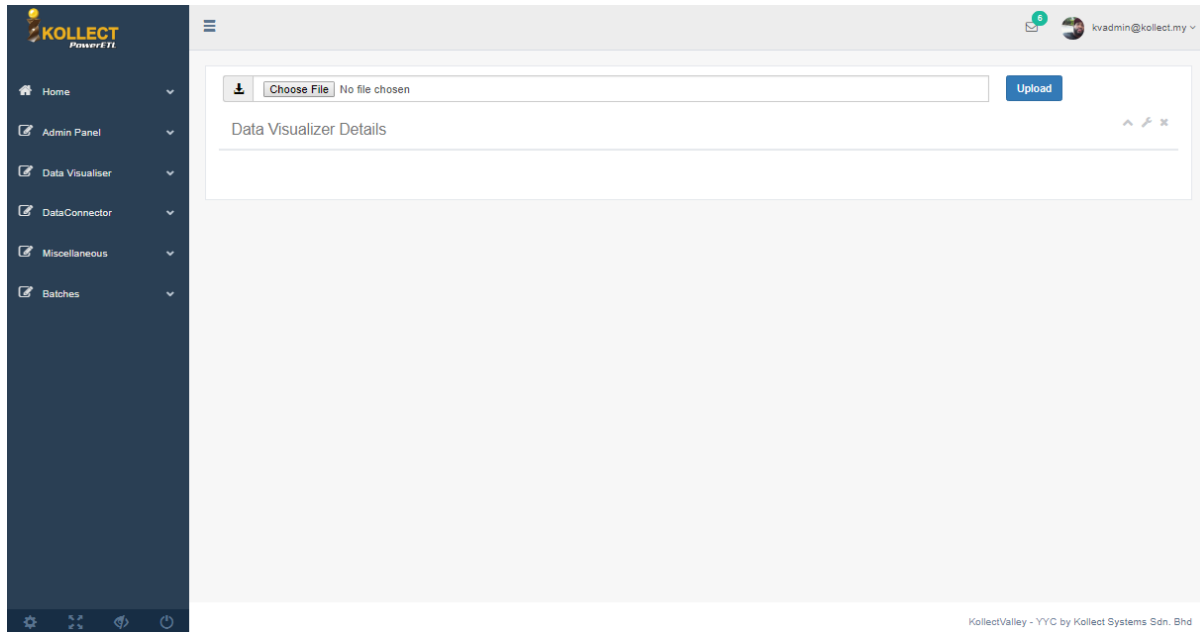
Showing 1 to 3 of 3 entries [Previous](#) [Next](#)

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**Figure 5: Host**

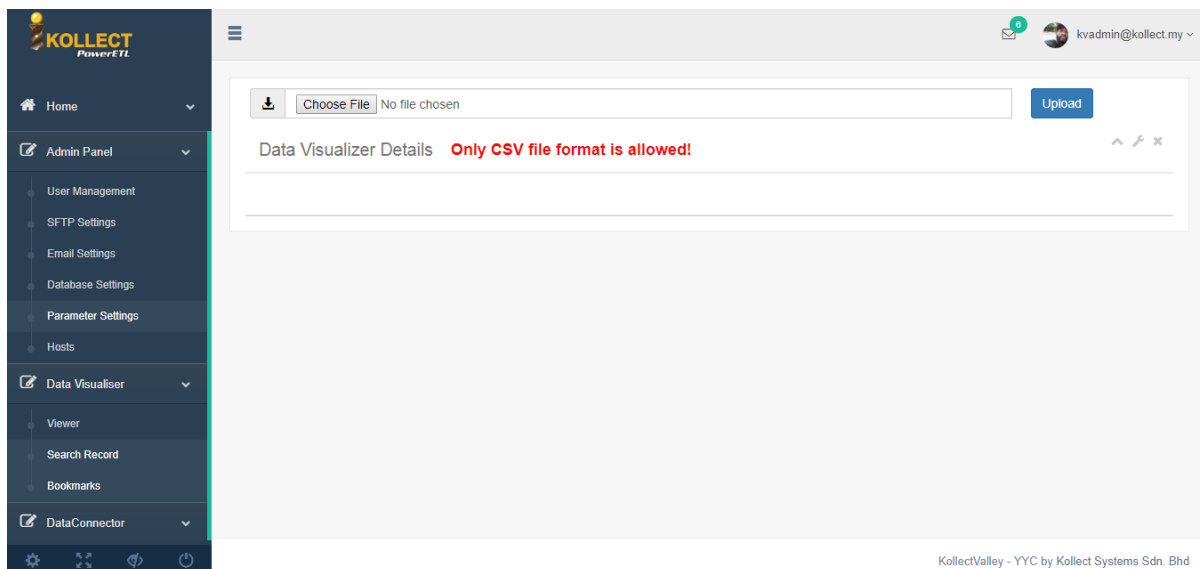
Automated jobs are set here in the Host section. An administrator can create automated jobs for the ETL to perform, and can also edit or delete jobs here.

## Data Visualizer



**Figure 6: Data Visualizer - Viewer**

This function is for users to view CSV file formats, but to have each column separated by its Separator Value. The user can upload only a CSV file and its contents will be displayed below. The user will receive an error message if a non CSV file is uploaded. Files uploaded here are only for viewing and do not affect any loading processes, however the user can either download a copy of the CSV file, copy the contents to the clipboard or even print out the details that are displayed.



**Figure 7: Data Visualizer - Viewer error message**



## 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, just 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.

**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

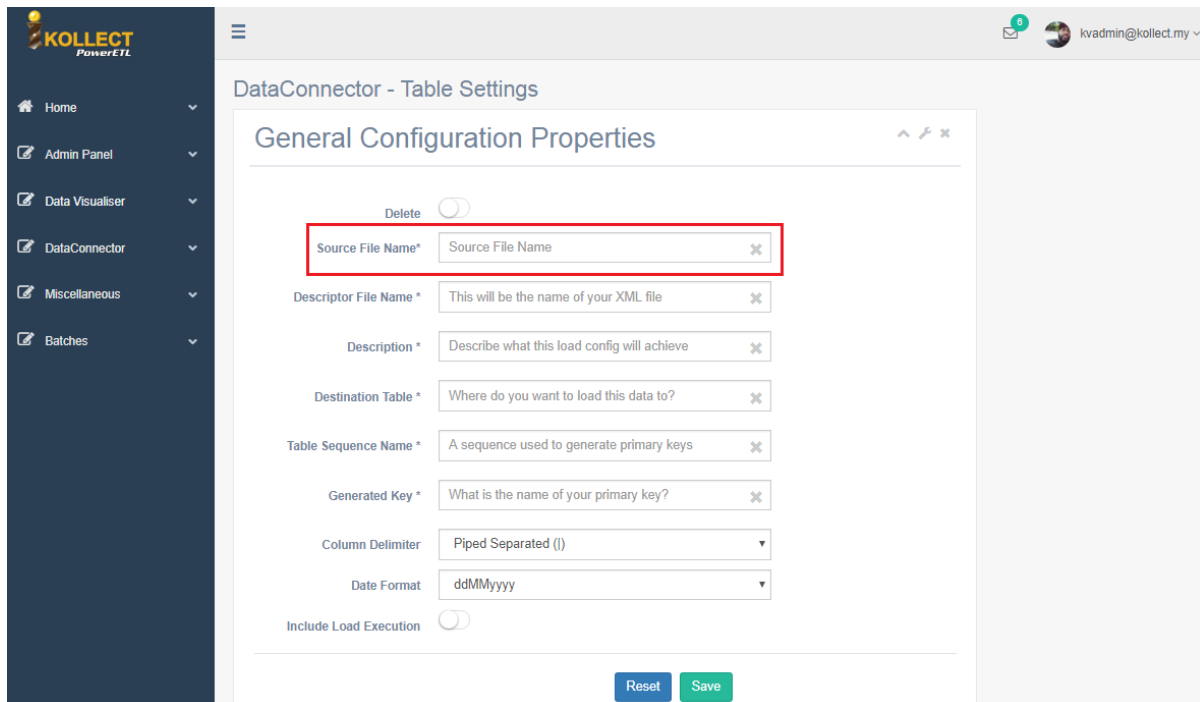
Date Format

Include Load Execution ☐

Reset Save

**Figure 8: Table Settings**

## Source File Name



The screenshot shows the 'DataConnector - Table Settings' page in the KOLLECT PowerETL application. The 'General Configuration Properties' section is active, and the 'Source File Name' field is highlighted with a red box. The field contains the text 'Source File Name'. Other fields include 'Descriptor File Name', 'Description', 'Destination Table', 'Table Sequence Name', 'Generated Key', 'Column Delimiter', 'Date Format', and 'Include Load Execution'.

**Figure 9: 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.

Eg: Transactions\_1234.CSV

## Descriptor File Name

The screenshot shows the 'DataConnector - Table Settings' 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 includes several form fields: 'Source File Name' (text input), 'Descriptor File Name' (text input, highlighted with a red box), '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' (toggle switch). At the bottom right of the form are 'Reset' and 'Save' buttons. The 'Descriptor File Name' field contains the placeholder text 'This will be the name of your XML file'.

**Figure 10: 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.

Eg: Transactions

## Description

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'. Below this is a section titled 'General Configuration Properties'. This section contains several form fields, each with a label, a text input, and a clear (X) button. The fields are: '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'), 'Generated Key' (with value 'What is the name of your primary key?'), 'Column Delimiter' (a dropdown menu with 'Piped Separated (|)' selected), and 'Date Format' (a dropdown menu with 'ddMMyyyy' selected). There is also a 'Delete' toggle switch at the top and an 'Include Load Execution' toggle switch at the bottom. At the bottom right of the form are 'Reset' and 'Save' buttons. The 'Description' field is highlighted with a red rectangular box.

**Figure 11: General Settings - Description**

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

Eg: Transactions Loading Configuration

## Destination Table

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 'DataConnector - Table Settings' and contains a 'General Configuration Properties' section. This section includes several input fields and a 'Delete' toggle. The 'Destination Table' field is highlighted with a red box, indicating it is the focus of the document. The fields are as follows:

- Delete:** A toggle switch.
- Source File Name \*:** A text input field with the placeholder 'Source File Name'.
- Descriptor File Name \*:** A text input field with the placeholder 'This will be the name of your XML file'.
- Description \*:** A text input field with the placeholder 'Describe what this load config will achieve'.
- Destination Table \*:** A text input field with the placeholder 'Where do you want to load this data to?'. This field is highlighted with a red box.
- Table Sequence Name \*:** A text input field with the placeholder 'A sequence used to generate primary keys'.
- Generated Key \*:** A text input field with the placeholder 'What is the name of your primary key?'.
- 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.

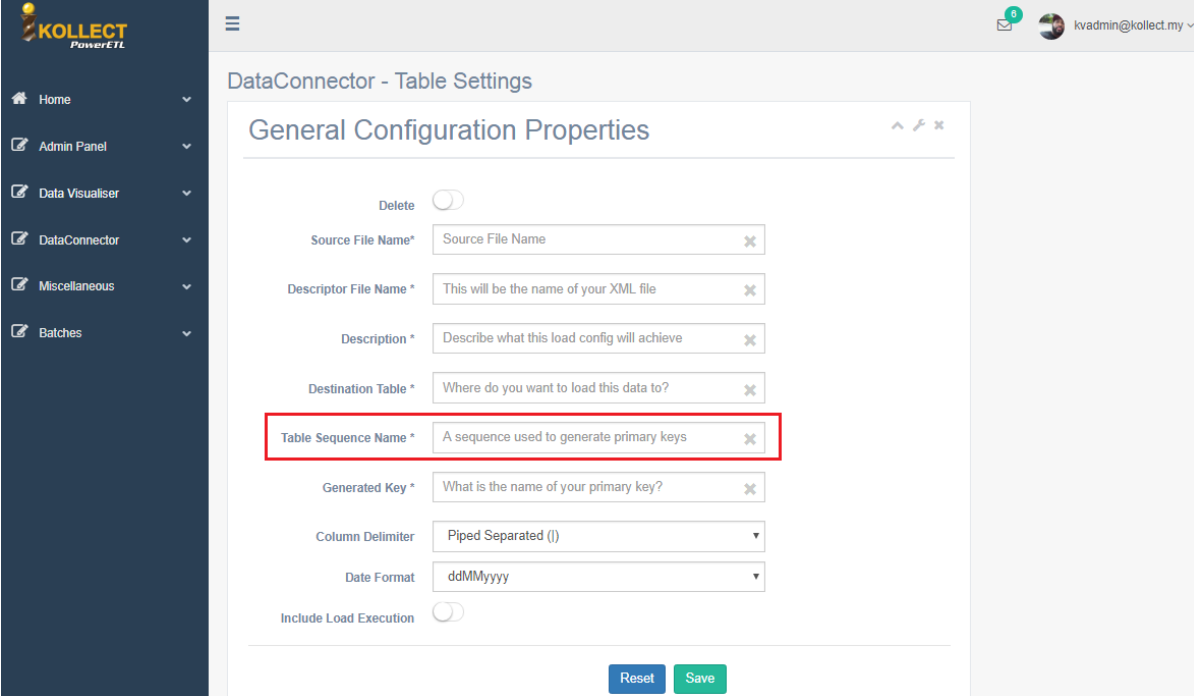
At the bottom of the form, there are two buttons: 'Reset' and 'Save'.

**Figure 12: 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.

Eg: Transactions

## Table Sequence Name



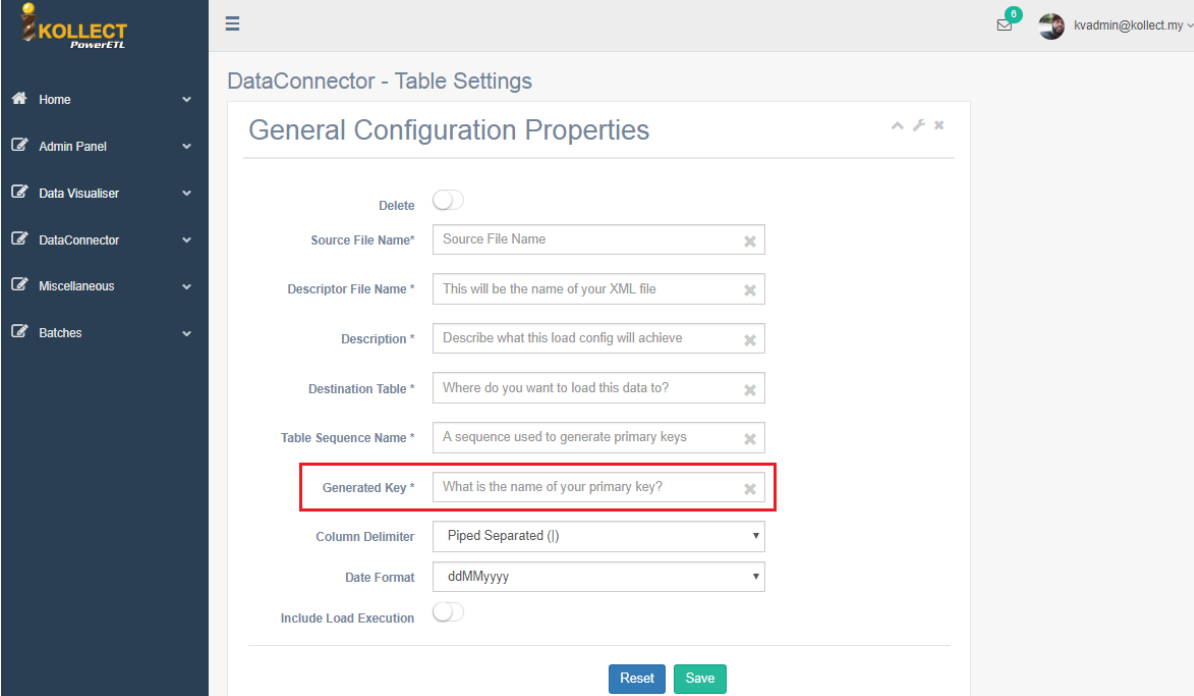
The screenshot shows the 'DataConnector - Table Settings' interface. On the left is a dark sidebar with navigation links: Home, Admin Panel, Data Visualiser, DataConnector, Miscellaneous, and Batches. The main content area is titled 'DataConnector - Table Settings' and contains a 'General Configuration 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), '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). At the bottom of the form are 'Reset' and 'Save' buttons. The user's email 'kvadmin@kollect.my' is visible in the top right corner.

**Figure 13: General Settings - Table Sequence Name**

The table sequence name specifies a column to be the Primary Key for the table. Here, the user is supposed to enter the Database Table Name, followed by `_ID`.

Eg: Transactions\_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 form are two buttons: 'Reset' and 'Save'.

**Figure 14: 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 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 'Reset' and 'Save' buttons.

**Figure 15: 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 from the dropdown menu, how to expect the data to be separated.



## Date Format

The screenshot displays the KOLLECT PowerETL web 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), 'Description' (text input), 'Destination Table' (text input), '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'). The 'Date Format' field is highlighted with a red rectangle. At the bottom of the form are 'Reset' and 'Save' buttons. A 'Delete' toggle switch is located at the top left of the form area. The top right of the interface shows a user profile for 'kvadmin@kollect.my'.

**Figure 16: 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** ☐

**Figure 17: General Settings - Include Load Execution**

The user is required to switch this button ON.

## Parent Table Settings

**Parent Table Settings**

Show  entries

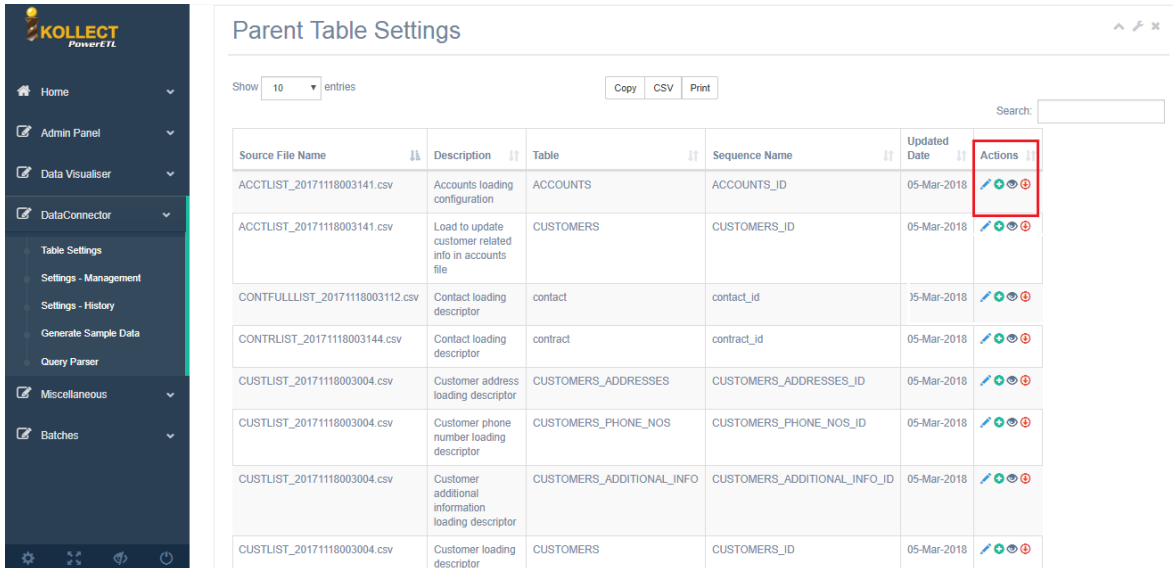
Search:

Source File Name	Description	Table	Sequence Name	Updated Date	Actions
ACCTLIST_20171118003141.csv	Accounts loading configuration	ACCOUNTS	ACCOUNTS_ID	05-Mar-2018	<a href="#">+</a> <a href="#">-</a> <a href="#">x</a> <a href="#">d</a>
ACCTLIST_20171118003141.csv	Load to update customer related info in accounts file	CUSTOMERS	CUSTOMERS_ID	05-Mar-2018	<a href="#">+</a> <a href="#">-</a> <a href="#">x</a> <a href="#">d</a>
CONTFULLIST_20171118003112.csv	Contact loading descriptor	contact	contact_id	05-Mar-2018	<a href="#">+</a> <a href="#">-</a> <a href="#">x</a> <a href="#">d</a>
CONTRLIST_20171118003144.csv	Contact loading descriptor	contract	contract_id	05-Mar-2018	<a href="#">+</a> <a href="#">-</a> <a href="#">x</a> <a href="#">d</a>
CUSTLIST_20171118003004.csv	Customer address loading descriptor	CUSTOMERS_ADDRESSES	CUSTOMERS_ADDRESSES_ID	05-Mar-2018	<a href="#">+</a> <a href="#">-</a> <a href="#">x</a> <a href="#">d</a>
CUSTLIST_20171118003004.csv	Customer phone number loading descriptor	CUSTOMERS_PHONE_NOS	CUSTOMERS_PHONE_NOS_ID	05-Mar-2018	<a href="#">+</a> <a href="#">-</a> <a href="#">x</a> <a href="#">d</a>
CUSTLIST_20171118003004.csv	Customer additional information loading descriptor	CUSTOMERS_ADDITIONAL_INFO	CUSTOMERS_ADDITIONAL_INFO_ID	05-Mar-2018	<a href="#">+</a> <a href="#">-</a> <a href="#">x</a> <a href="#">d</a>
CUSTLIST_20171118003004.csv	Customer loading descriptor	CUSTOMERS	CUSTOMERS_ID	05-Mar-2018	<a href="#">+</a> <a href="#">-</a> <a href="#">x</a> <a href="#">d</a>

**Figure 18: 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. To find the desired table, a user can also enter a search term in the search bar on the top right of the table to find the desired table to insert.




The screenshot displays the 'Parent Table Settings' interface. On the left is a dark sidebar with navigation options: Home, Admin Panel, Data Visualiser, DataConnector, Table Settings, Settings - Management, Settings - History, Generate Sample Data, Query Parser, Miscellaneous, and Batches. The main content area is titled 'Parent Table Settings' and includes a 'Show 10 entries' dropdown, 'Copy', 'CSV', and 'Print' buttons, and a search bar. Below these is a table with the following columns: Source File Name, Description, Table, Sequence Name, Updated Date, and Actions. The 'Actions' column is highlighted with a red box, showing icons for edit, add, preview, and download. The table lists various data sources and their configurations.

Source File Name	Description	Table	Sequence Name	Updated Date	Actions
ACCTLIST_20171118003141.csv	Accounts loading configuration	ACCOUNTS	ACCOUNTS_ID	05-Mar-2018	[Edit] [Add] [Preview] [Download]
ACCTLIST_20171118003141.csv	Load to update customer related info in accounts file	CUSTOMERS	CUSTOMERS_ID	05-Mar-2018	[Edit] [Add] [Preview] [Download]
CONTFULLLIST_20171118003112.csv	Contact loading descriptor	contact	contact_id	15-Mar-2018	[Edit] [Add] [Preview] [Download]
CONTRLIST_20171118003144.csv	Contact loading descriptor	contract	contract_id	05-Mar-2018	[Edit] [Add] [Preview] [Download]
CUSTLIST_20171118003004.csv	Customer address loading descriptor	CUSTOMERS_ADDRESSES	CUSTOMERS_ADDRESSES_ID	05-Mar-2018	[Edit] [Add] [Preview] [Download]
CUSTLIST_20171118003004.csv	Customer phone number loading descriptor	CUSTOMERS_PHONE_NOS	CUSTOMERS_PHONE_NOS_ID	05-Mar-2018	[Edit] [Add] [Preview] [Download]
CUSTLIST_20171118003004.csv	Customer additional information loading descriptor	CUSTOMERS_ADDITIONAL_INFO	CUSTOMERS_ADDITIONAL_INFO_ID	05-Mar-2018	[Edit] [Add] [Preview] [Download]
CUSTLIST_20171118003004.csv	Customer loading descriptor	CUSTOMERS	CUSTOMERS_ID	05-Mar-2018	[Edit] [Add] [Preview] [Download]

**Figure 19: 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

Show 10 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	100	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

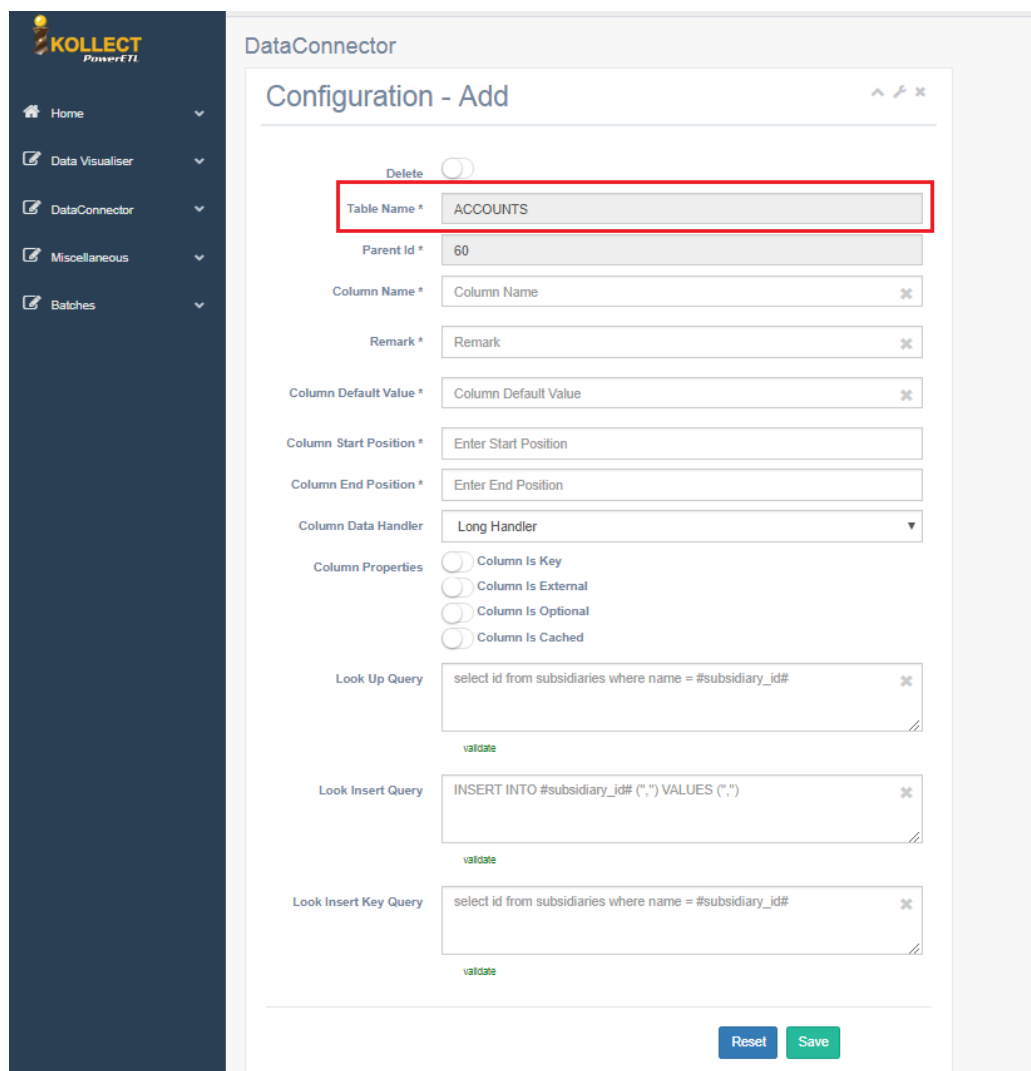
Showing 1 to 10 of 14 entries

Previous 2 Next

**Figure 20: Configuration Page**

Once the user has completed entering the details of the data file, and has selected to add details to the user's entry in the Parent Table Settings, Then the user is taken to a new page to continue inserting information about the data file. Here the user needs to insert details of each individual column starting with the first column, then click save, then start inserting details on the second column and so on. This is done until all the columns are inserted in the Add section in the top of the figure, and once inserted, it can be viewed on the bottom of the figure in the Configuration Table.

## Table Name



The screenshot shows the 'DataConnector Configuration - Add' form. The 'Table Name' field is highlighted with a red box and contains the value 'ACCOUNTS'. Other fields include '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#), 'Look Insert Query' (INSERT INTO #subsidiary\_id# ("") VALUES ("")), and 'Look Insert Key Query' (select id from subsidiaries where name = #subsidiary\_id#). The form has 'Reset' and 'Save' buttons at the bottom right.

**Figure 21: Add - Table Name**

The name reflected in this field should be the name of the Table in which these columns are going into. This is a read only field

## Parent ID

The screenshot shows the 'DataConnector Configuration - Add' form. The 'Parent Id' field is highlighted with a red box and contains the value '60'. The form includes various configuration options for a data connector, such as Table Name, Column Name, Remark, Column Default Value, Column Start Position, Column End Position, Column Data Handler, Column Properties, Look Up Query, Look Insert Query, and Look Insert Key Query. The 'Delete' toggle is turned off. The 'Column Data Handler' is set to 'Long Handler'. The 'Column Properties' section has four radio buttons: 'Column Is Key', 'Column Is External', 'Column Is Optional', and 'Column Is Cached', all of which are currently unselected. The 'Look Up Query' field contains the SQL query 'select id from subsidiaries where name = #subsidiary\_id#'. The 'Look Insert Query' field contains the SQL query 'INSERT INTO #subsidiary\_id# ("") VALUES ("")'. The 'Look Insert Key Query' field contains the SQL query 'select id from subsidiaries where name = #subsidiary\_id#'. The 'Reset' and 'Save' buttons are located at the bottom right of the form.

**Figure 22: Add - Parent ID**

This field displays the Parent ID that is associated to the table. This is a read only field

## Column Name

The screenshot shows the 'Configuration - Add' form in the DataConnector section. The form includes various fields for configuring a new column. The 'Column Name' field is highlighted with a red box. The form also includes a 'Delete' toggle, 'Table Name', 'Parent Id', 'Remark', 'Column Default Value', 'Column Start Position', 'Column End Position', 'Column Data Handler', 'Column Properties', 'Look Up Query', 'Look Insert Query', and 'Look Insert Key Query' fields. At the bottom, there are 'Reset' and 'Save' buttons.

**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

**Figure 23: Add - Column Name**

The Column Name field as it is named, is to insert the column name that the user would wish to load.

Eg: invoice\_date

## Remark

The screenshot shows the 'Configuration - Add' form for the DataConnector. The 'Remark' field is highlighted with a red box. The form includes various input fields for column configuration, such as Table Name, Parent Id, Column Name, Column Default Value, Column Start Position, Column End Position, Column Data Handler, and Column Properties. It also includes sections for Look Up Query, Look Insert Query, and Look Insert Key Query, each with a 'validate' button. The 'Remark' field is currently empty and is the focus of the 'Remark' section.

**Figure 24: Add - Remark**

The user can fill any details about the column in the Remarks field such as its default value.

Eg: Invoice date is taken from host invoice\_date



## Column Default Value

**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

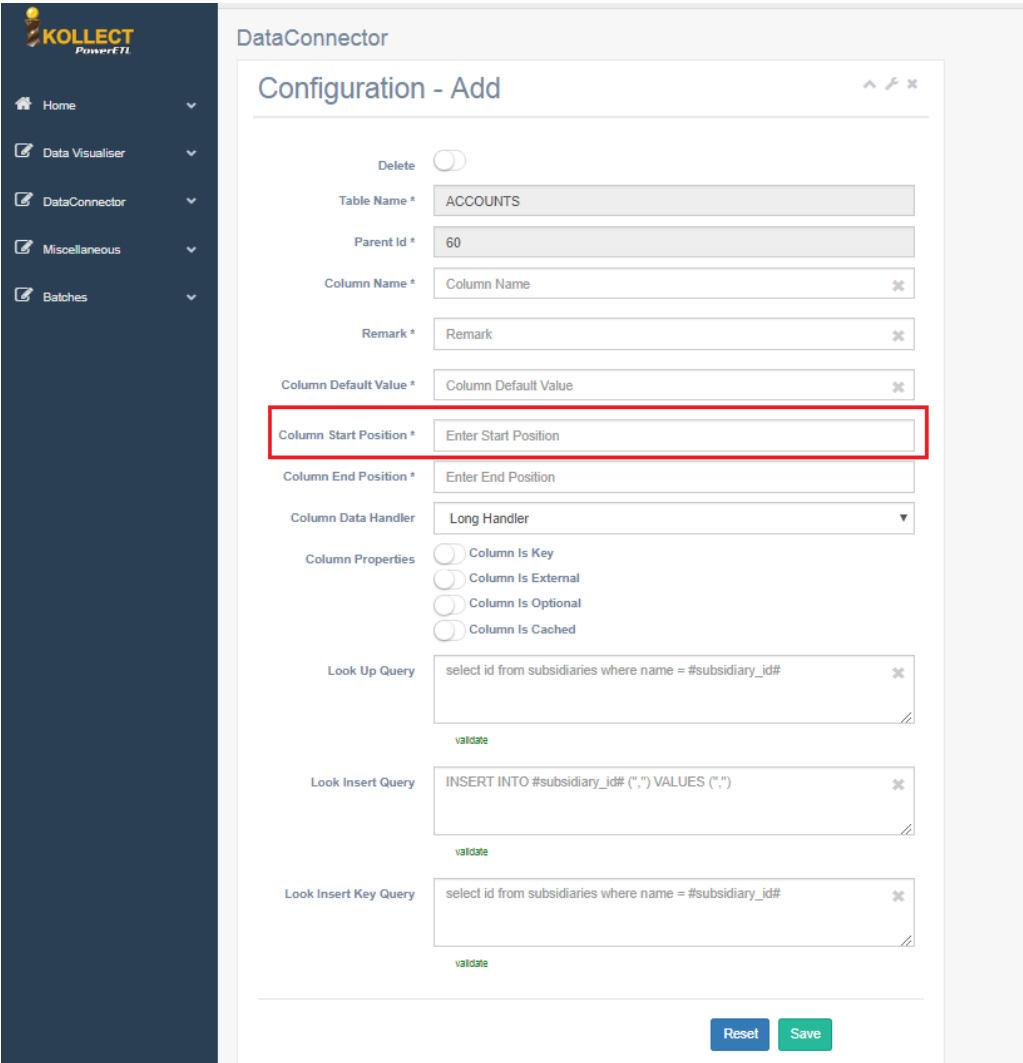
Reset Save

**Figure 25: Add - Column Default Value**

In the database, there are many columns that do not allow for there to be a null or blank column. As such, we define certain default values in their absence. The Column Default Value field is to specify what value should be entered in the event that there is a null or blank column.

Eg: current\_date

## Column Start Position



**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

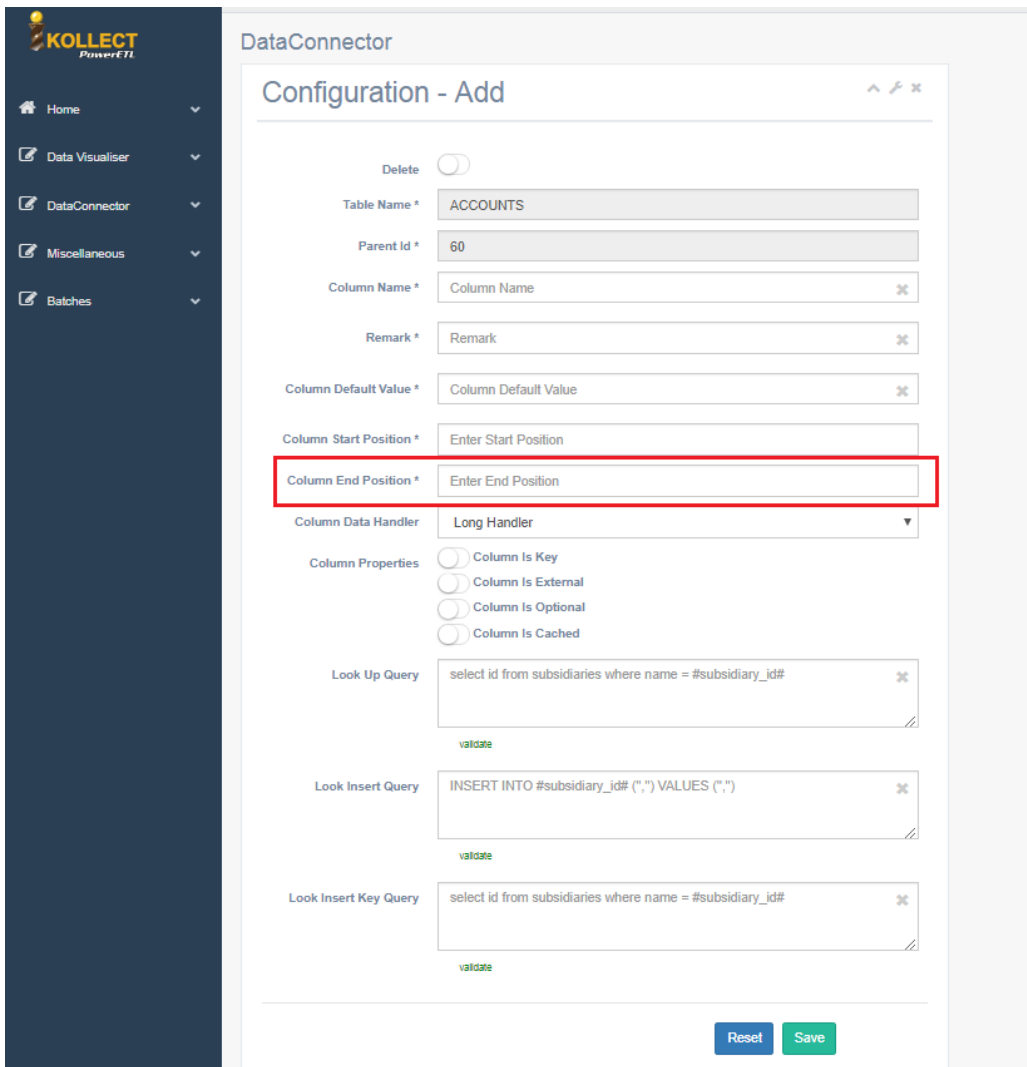
Look Insert Key Query select id from subsidiaries where name = #subsidiary\_id# ✕  
validate

Reset Save

**Figure 26: Add - Column Start Position**

The Column Start Position Field is where the user can input the column number from the Kollect Database, where the data is to be loaded. If it is to be loaded into the first Column of a Database Table, then the value here would be 1. If it is to be loaded into the second Column of a Database Table, the value would then be 2.

## Column End Position



**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

**Figure 27: Add - Column End Position**

The Column End Position Field mirrors what was inserted into the Column Start Position Field. If the Column Start Position is 1, then the Column End Position would be 1.

## Column Data Handler

**KOLLECT PowerETL**

- 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

**Figure 28: Add - Column Data Handler**

The Column Data Handler is a dropdown which lists different data handlers that the user could choose from. The user can choose between Long Handler, String Handler, Default Date Handler, Integer Handler, YN Boolean Handler, Currency Handler and Pass Through Handler however, the data handler selected here should match the data in the column to be loaded.

## Column Properties

**KOLLECT**  
PowerETL

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

Figure 29: Add - Column Properties

## Look Up Query

**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

**Figure 30: Add - Look Up Query**

A user can define the relationship between a column and a column from another table. The query should be entered in here.

## Look Insert Query

- 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#

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

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

Reset Save

Figure 31: Add - Look Insert Query

## Look Insert Key Query

**KOLLECT PowerETL**

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

Figure 32: Add - Look Insert Key Query



## Configuration Table

Column Name	Default Value	Start Position	End Position	Data Handler	Is Key	Is External	Is Optional	Is Cached	Edit
ACCOUNT_GROUP_ID	0	0	0	Long Handler	false	false	false	false	<a href="#">Edit</a>
ACCOUNT_NO	-	1	1	String Handler	true	false	false	false	<a href="#">Edit</a>
ACCOUNT_NO	-	0	0	Long Handler	false	false	false	false	<a href="#">Edit</a>
COMPANY_CODE	0	0	0	Long Handler	false	false	false	false	<a href="#">Edit</a>
CREATED_AT	CURRENT_DATE	0	0	Date Default Handler	false	false	false	false	<a href="#">Edit</a>
CREATED_BY	108	0	0	Long Handler	false	false	false	false	<a href="#">Edit</a>
CUSTOMER_ID	0	1	1	Long Handler	false	false	false	false	<a href="#">Edit</a>
HOST_ACCOUNT_NO	-	0	0	String Handler	false	false	false	false	<a href="#">Edit</a>
IMPORT_ID	501	0	0	Long Handler	false	false	false	false	<a href="#">Edit</a>
STATUS_ID	501	0	0	Long Handler	false	false	false	false	<a href="#">Edit</a>

**Figure 33: Configuration Table**

Once all the column details are entered into their respective fields, the user can click save and view the column that was just saved in the Configuration Table. Here the user can keep adding column and will eventually see a list of the columns like the figure above. Users can Copy the Column Details, create a CSV File with of the Column Details, or just print out the table. The user can also use the search function to find a column, and to change any details, the user can click the edit button on the end of each row and the user will be taken back to the Configuration-Add screen to re-enter or edit the column details.

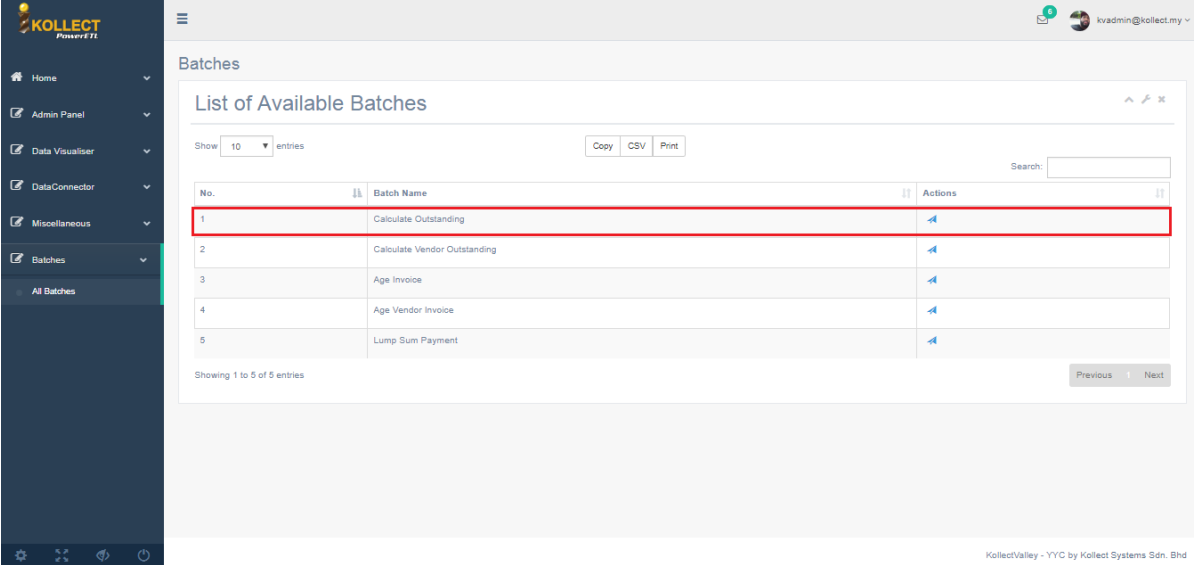
## Batches

No.	Batch Name	Actions
1	Calculate Outstanding	<a href="#">Run Batch</a>
2	Calculate Vendor Outstanding	<a href="#">Run Batch</a>
3	Age Invoice	<a href="#">Run Batch</a>
4	Age Vendor Invoice	<a href="#">Run Batch</a>
5	Lump Sum Payment	<a href="#">Run Batch</a>

**Figure 34: All Batches**

In this module, a user can run batches ad-hoc. Each of the batches has a Run Batch button on the end of each row that the user can click, and the batch will perform and an output will be displayed alerting the user as to how many records were updated.

## Batches - Calculate Outstanding



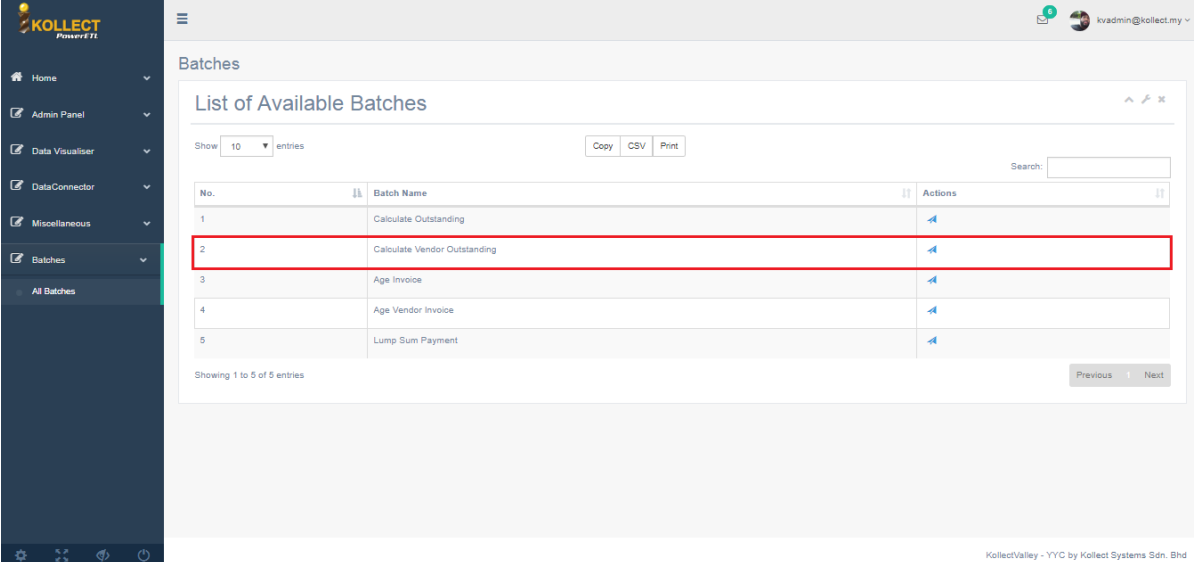
The screenshot shows the KOLLECT PowerFTI interface. On the left is a dark sidebar with a menu including Home, Admin Panel, Data Visualiser, DataConnector, Miscellaneous, and Batches (selected). The main area is titled 'Batches' and contains a 'List of Available Batches' table. The table has columns for No., Batch Name, and Actions. The first row, '1 Calculate Outstanding', is highlighted with a red border. Below the table, it says 'Showing 1 to 5 of 5 entries' and has 'Previous' and 'Next' buttons. At the bottom right, it says 'KollectValley - YYC by Kollect Systems Sdn. Bhd'.

No.	Batch Name	Actions
1	Calculate Outstanding	
2	Calculate Vendor Outstanding	
3	Age Invoice	
4	Age Vendor Invoice	
5	Lump Sum Payment	

**Figure 35: Batches - Calculate Outstanding**

Calculates the total outstanding in the data that has been loaded, and updates the value in the total outstanding column

## Batches - Calculate Vendor Outstanding

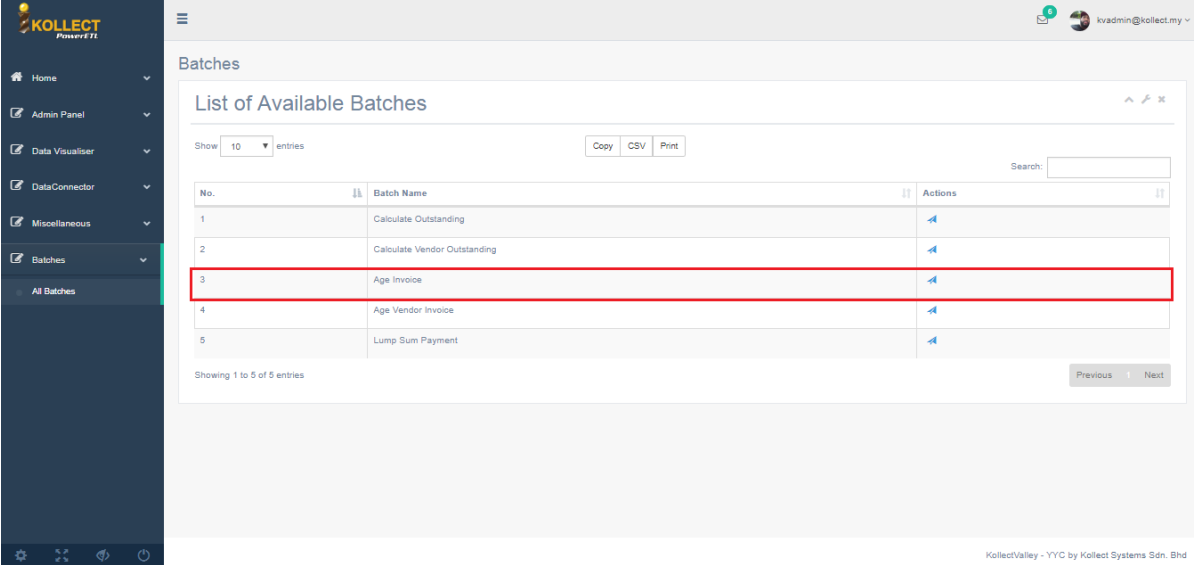


The screenshot shows the KOLLECT PowerFTI interface. On the left is a dark sidebar with a menu including Home, Admin Panel, Data Visualiser, DataConnector, Miscellaneous, and Batches (selected). The main area is titled 'Batches' and contains a 'List of Available Batches' table. The table has columns for No., Batch Name, and Actions. The second row, '2 Calculate Vendor Outstanding', is highlighted with a red border. Below the table, it says 'Showing 1 to 5 of 5 entries' and has 'Previous' and 'Next' buttons. At the bottom right, it says 'KollectValley - YYC by Kollect Systems Sdn. Bhd'.

No.	Batch Name	Actions
1	Calculate Outstanding	
2	Calculate Vendor Outstanding	
3	Age Invoice	
4	Age Vendor Invoice	
5	Lump Sum Payment	

**Figure 36: Batches - Calculate Vendor Outstanding**

## Batches - Age Invoice



**KOLLECT PowerEZ!**

Home Admin Panel Data Visualiser DataConnector Miscellaneous Batches All Batches

**Batches**

List of Available Batches

Show 10 entries Copy CSV Print Search:

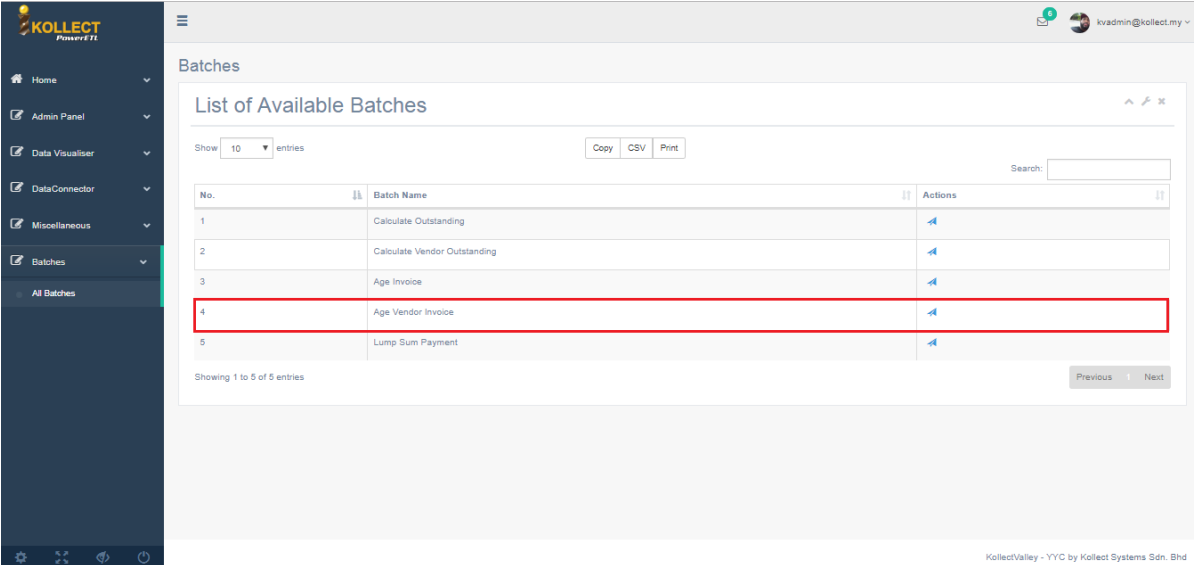
No.	Batch Name	Actions
1	Calculate Outstanding	
2	Calculate Vendor Outstanding	
3	Age Invoice	
4	Age Vendor Invoice	
5	Lump Sum Payment	

Showing 1 to 5 of 5 entries Previous Next

KollecValley - YYG by Kollect Systems Sdn. Bhd

Figure 37: Batches - Age Invoice

## Batches - Age Vendor Invoice



**KOLLECT PowerEZ!**

Home Admin Panel Data Visualiser DataConnector Miscellaneous Batches All Batches

**Batches**

List of Available Batches

Show 10 entries Copy CSV Print Search:

No.	Batch Name	Actions
1	Calculate Outstanding	
2	Calculate Vendor Outstanding	
3	Age Invoice	
4	Age Vendor Invoice	
5	Lump Sum Payment	

Showing 1 to 5 of 5 entries Previous Next

KollecValley - YYG by Kollect Systems Sdn. Bhd

Figure 38: Batches - Age Vendor Invoice

## Batches - Lump Sum Payment

**KOLLECT**  
Powerful

Home  
Admin Panel  
Data Visualiser  
DataConnector  
Miscellaneous  
Batches  
All Batches

Batches

List of Available Batches

Show 10 entries Copy CSV Print Search:

No.	Batch Name	Actions
1	Calculate Outstanding	
2	Calculate Vendor Outstanding	
3	Age Invoice	
4	Age Vendor Invoice	
5	Lump Sum Payment	

Showing 1 to 5 of 5 entries Previous Next

KollectValley - YYG by Kollect Systems Sdn. Bhd

**Figure 39: Batches - Lump Sum Payment**

Calculates and updates lump sum payment in the Kollect Database