

Kollet PowerETL

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Kollect PowerETL - 1.0

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 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.

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.

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 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

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

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 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 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 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

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 user is required to switch this button ON.

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, and can click the plus icon next to it, and click add to begin inserting the details of each column.

Configuration - Add

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.

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

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

Column Name

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

Remark

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

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 case that there is a null or blank column.

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.

Configuration - Add

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.

1. Table Name

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

2. Parent ID

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

3. Column Name

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

4. Remark

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

5. Common 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 case that there is a null or blank column.

6. 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.

7. 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.

8. Column Data Handler

The Column Data Handler is a dropdown which lists different data handlers that the user could choose from. The data handlers specified here should be the same as the data in the column to be loaded.

9. Column Properties

10. Look Up Query

11. Look Insert Query

12. Look Insert Key Query

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3. Description

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9. Include Load Execution

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