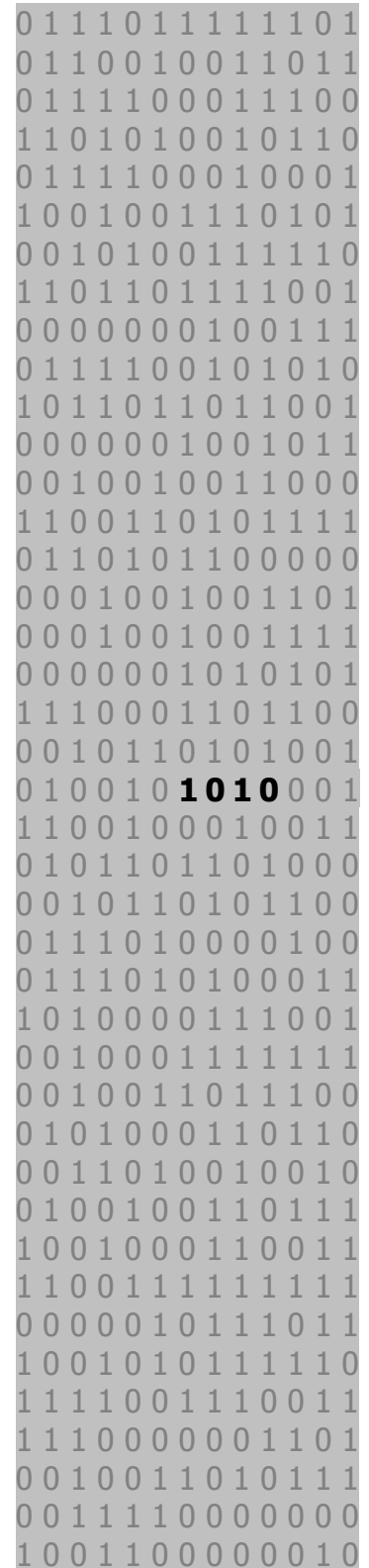




PowerLoader User Guide

Version I



Release 20080701

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Chapter 1: PowerLoader Overview

1010data's PowerLoader is a browser-based user interface that allows users to upload large datasets quickly and easily.

Logging In

To enter the PowerLoader web site you must have a Username and Password.

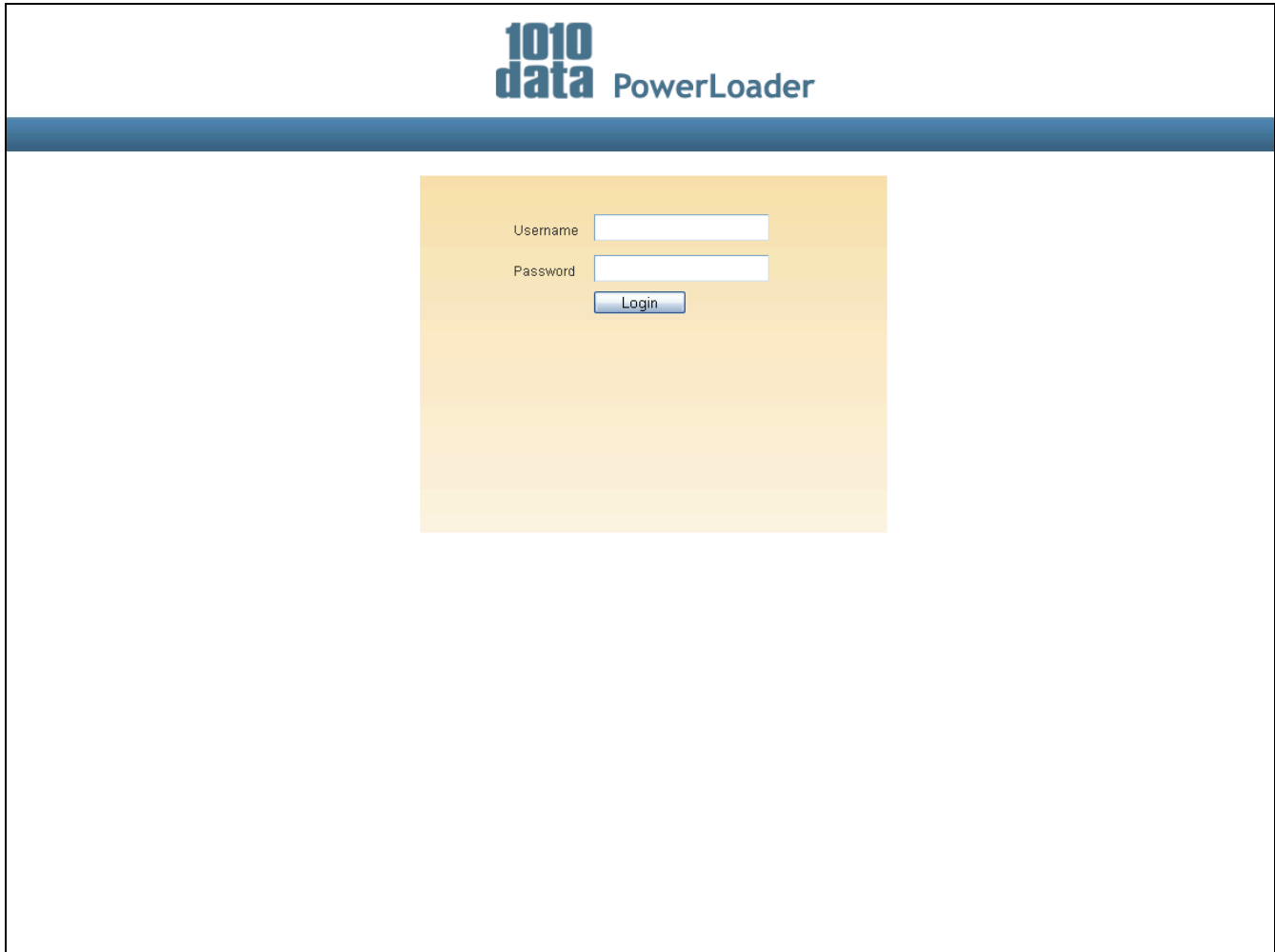
- If you already have a PowerLoader Username and Password, please move ahead to Step 1.
- **The PowerLoader requires API access. If you do not have API access, please send an email to support@1010data.com. Your PowerLoader account will be set up with your existing 1010data Username and Password.**
- An FTP account is required to use the PowerLoader. If you would like to use 1010data's FTP service, please send an email to support@1010data.com to request an FTP account.

Step 1: Go to <http://www.1010data.com/powerloader2>

Step 2: Enter your Username and Password in the appropriate boxes and click the **Login** button.

***Note:** If you are still logged in to the 1010data query interface when you login to the PowerLoader, your session with the query interface will be terminated.

The following Screenshot 1.1 depicts the PowerLoader login screen.



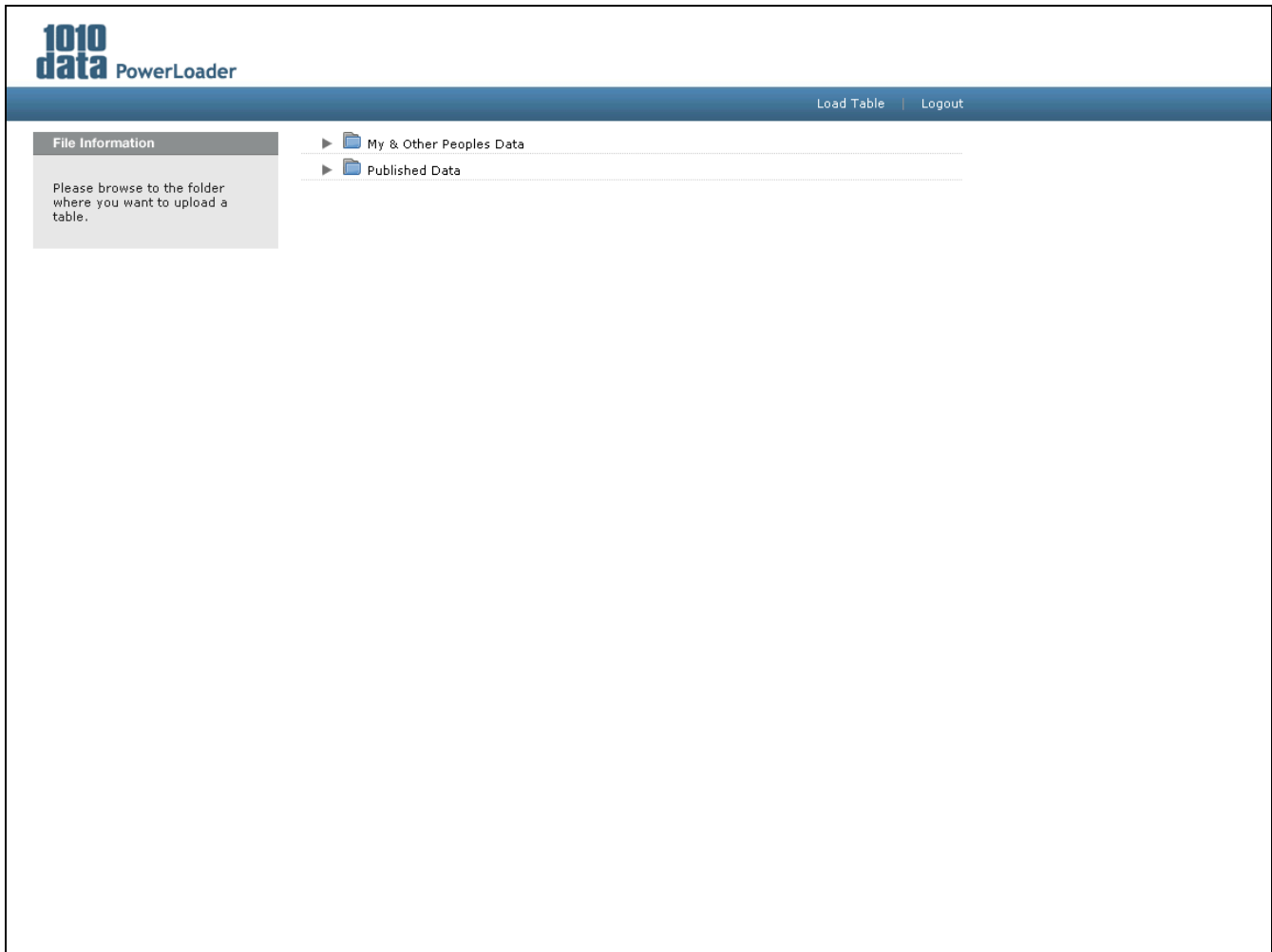
Screenshot 1.1

Data Access and Folder Organization

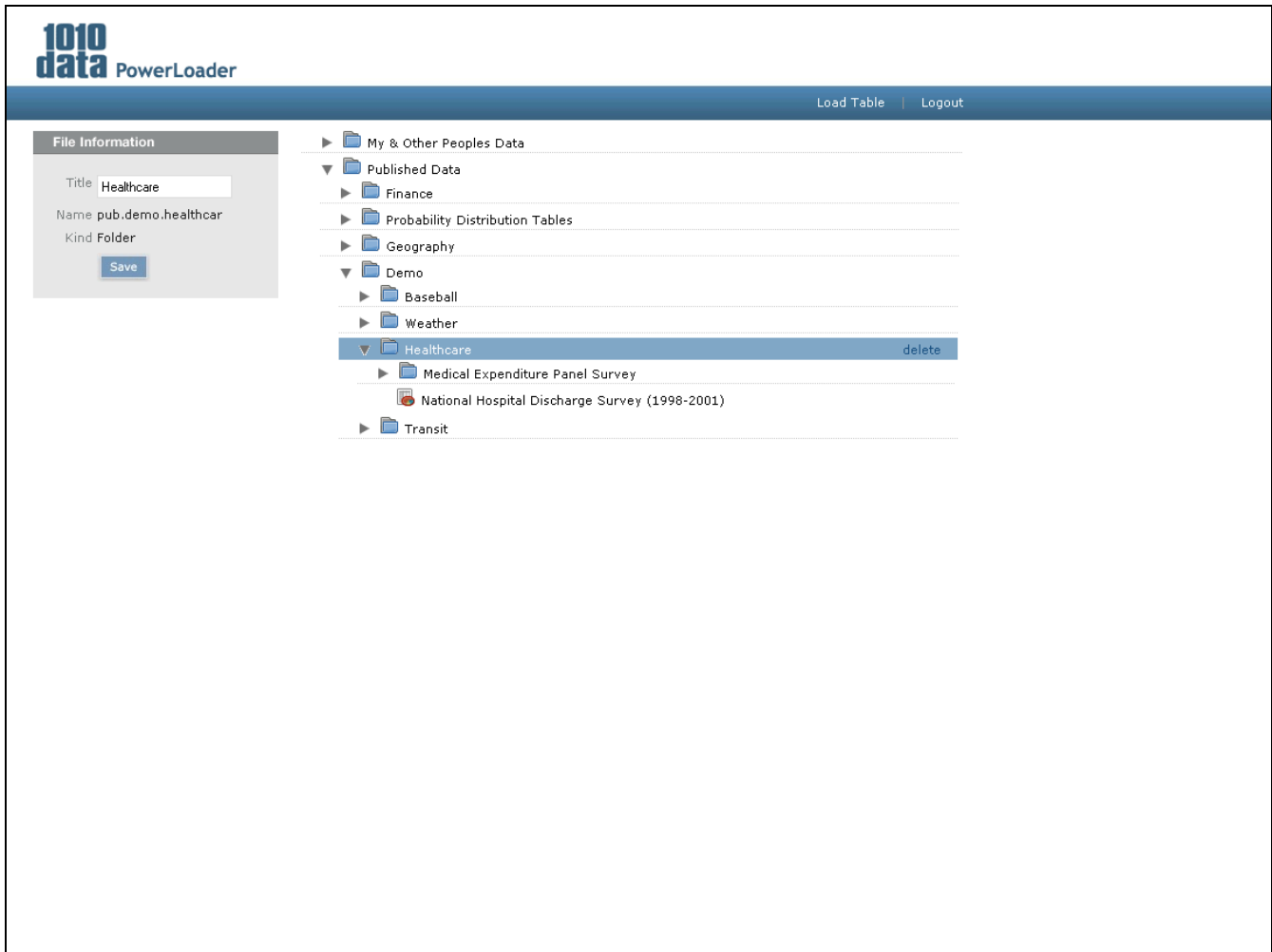
Once you have successfully logged into the application, you will enter the main page of the PowerLoader. This page displays a set of folders, which contain all of the data available to you, as depicted below in Screenshot 1.2. All folders have a blue manila folder icon next to the name of the folder. The PowerLoader displays the data similarly to 1010data, in that it is organized into a hierarchical folder system to allow you to find the appropriate tables. A folder may contain one or more subfolders and/or tables, which can be accessed by clicking the arrow to the left of the folder's name, as seen in Screenshot 1.3.

The **Healthcare** folder selected in Screenshot 1.3 is a subfolder of the **Demo** folder, which is a subfolder of the **Published Data** folder. The **Healthcare** folder contains two items: a subfolder titled **Medical Expenditure Panel Survey** and a table titled **National**

Hospital Discharge Survey (1998-2001). To find out information about a folder or table, simply click the item's name and the **File Information** box to the left of the hierarchy will display the **Title**, **Name** and **Kind** of the item, as displayed in Screenshot 1.3. **Title** is the title that the user chooses to name the item. If the user has permission to alter the file, they can change the title by typing a new title in the **File Information** box and clicking **Save**. **Name** is the pathname of the item as it is stored in the system and **Kind** is the type of the item, such as Folder or Table.



Screenshot 1.2



Screenshot 1.3

Chapter 2: Uploading Data

Now that you know your way around the file hierarchy, you can begin loading your own data into the system. The first step is to browse to the folder where you want the new data to be placed. By default, if no folders are selected, any new data will be placed in the **My Data** folder. Once you've selected the desired location, click the **Load Table** button in the right-hand side of the toolbar, which will direct you to the screen depicted in Screenshot 2.1.

1010 data PowerLoader

Open Save AutoFill Browse Logout

Load

Destination
Submit

Load a table
Input File - Choose below or [Upload](#)

03103_90
03103_91
03103_92

Type: Fixed

Choose a file to load and pick its type.

Record Delimiter: CRLF

A delimiter is a character used to specify the boundary between records or fields

Skip: Load:

Number of records to skip or load for each input file.

Table Attributes

Name: uploads.

Table path selected in file browser. If this is not the desired path, [click here](#) to pick a new path.

Title: Short Description:

Choose a title and description you want displayed in the 1010data filesystem view.

Long Description:

Long description you want displayed under table information.

Link Header: Time Series: NO

Is this a timeseries table?

User:

User who can view the table. [Click here](#) to add another user

Column Attributes + - ↕

Name: Header:

Choose a name (unique identifier) and title for the column. ex. name: loan_id title: Loan Id.

Column Help:

Meta information that describes the context of the column data.

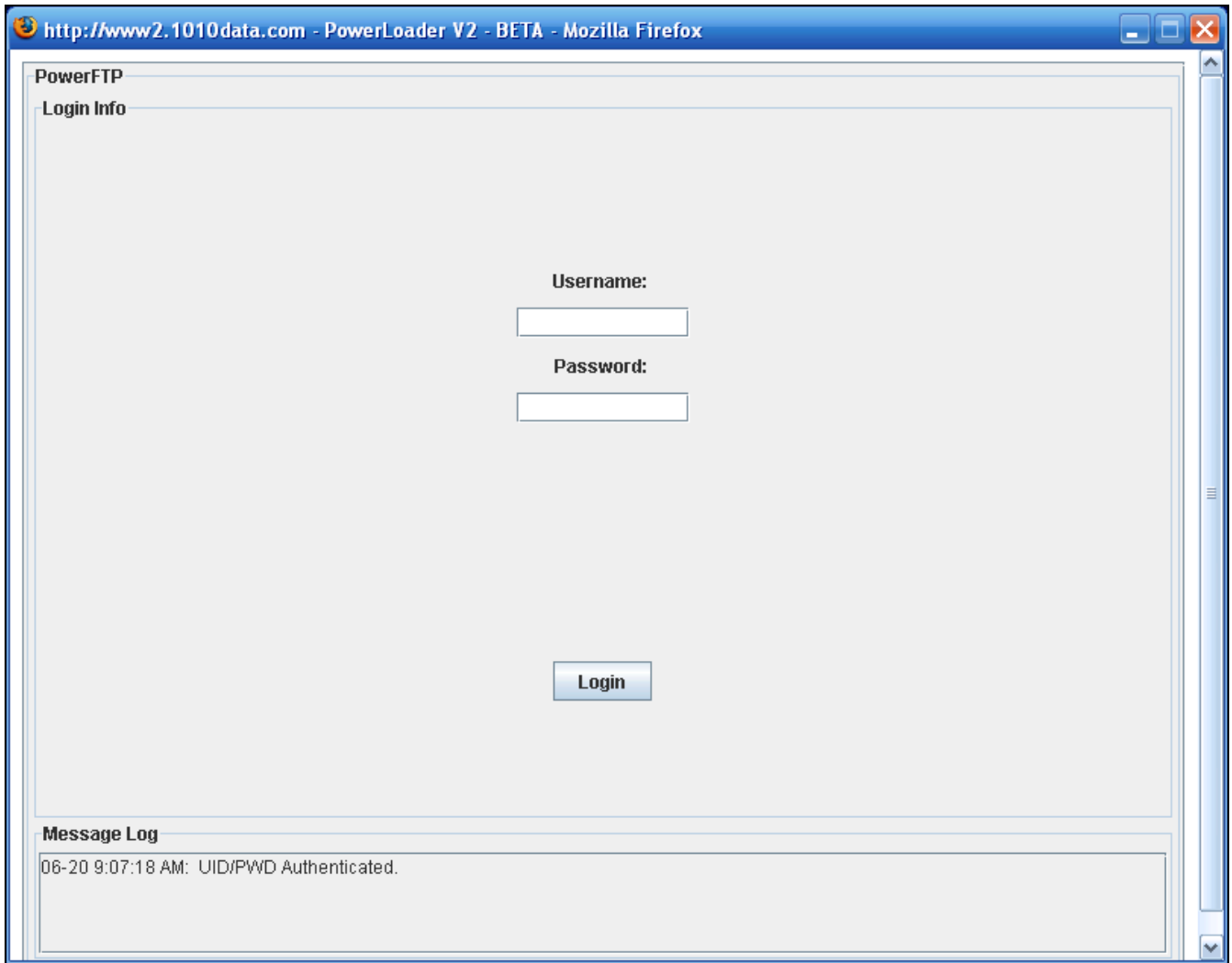
Expression:

Write a 1010data expression to modify the data as it loads.

Screenshot 2.1

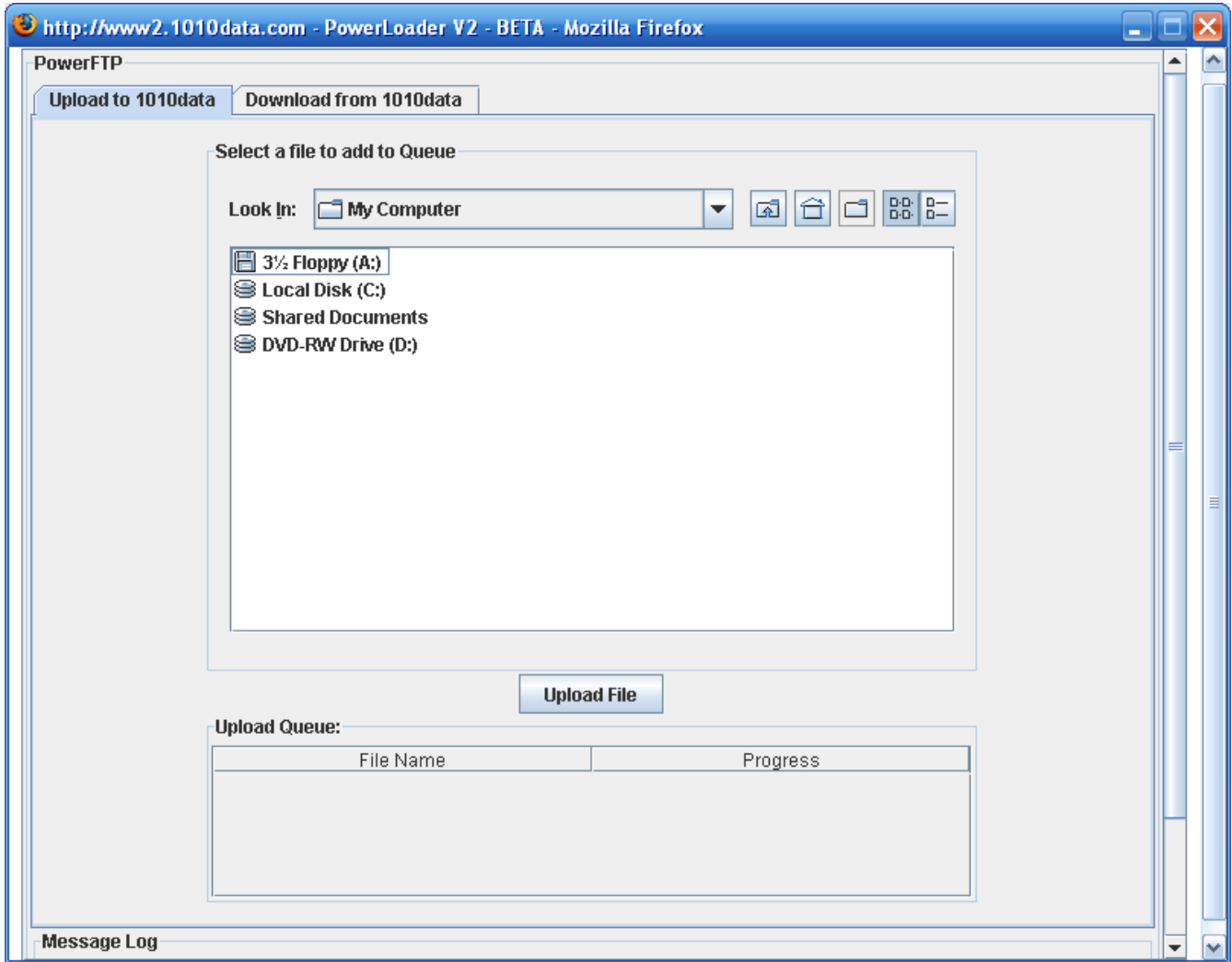
The first step is to upload files via FTP. If you have used the PowerLoader before and have already uploaded files, please move ahead to the next chapter. A box will appear in the top right-hand corner of the screen, above the **Type** listbox, which will contain your uploaded files, as shown in the previous Screenshot 2.1.

If you are a first-time user, you can either use the 1010data FTP client, or you can use your own FTP client (see Chapter 5: Links to Other Topics of Interest), to upload files. If you will be using a different FTP client, please move ahead to the next chapter. If you will be using 1010data's FTP client, please click the **Upload** button to generate the screen shown in Screenshot 2.2. Enter your Username and Password in the appropriate boxes and click the **Login** button.



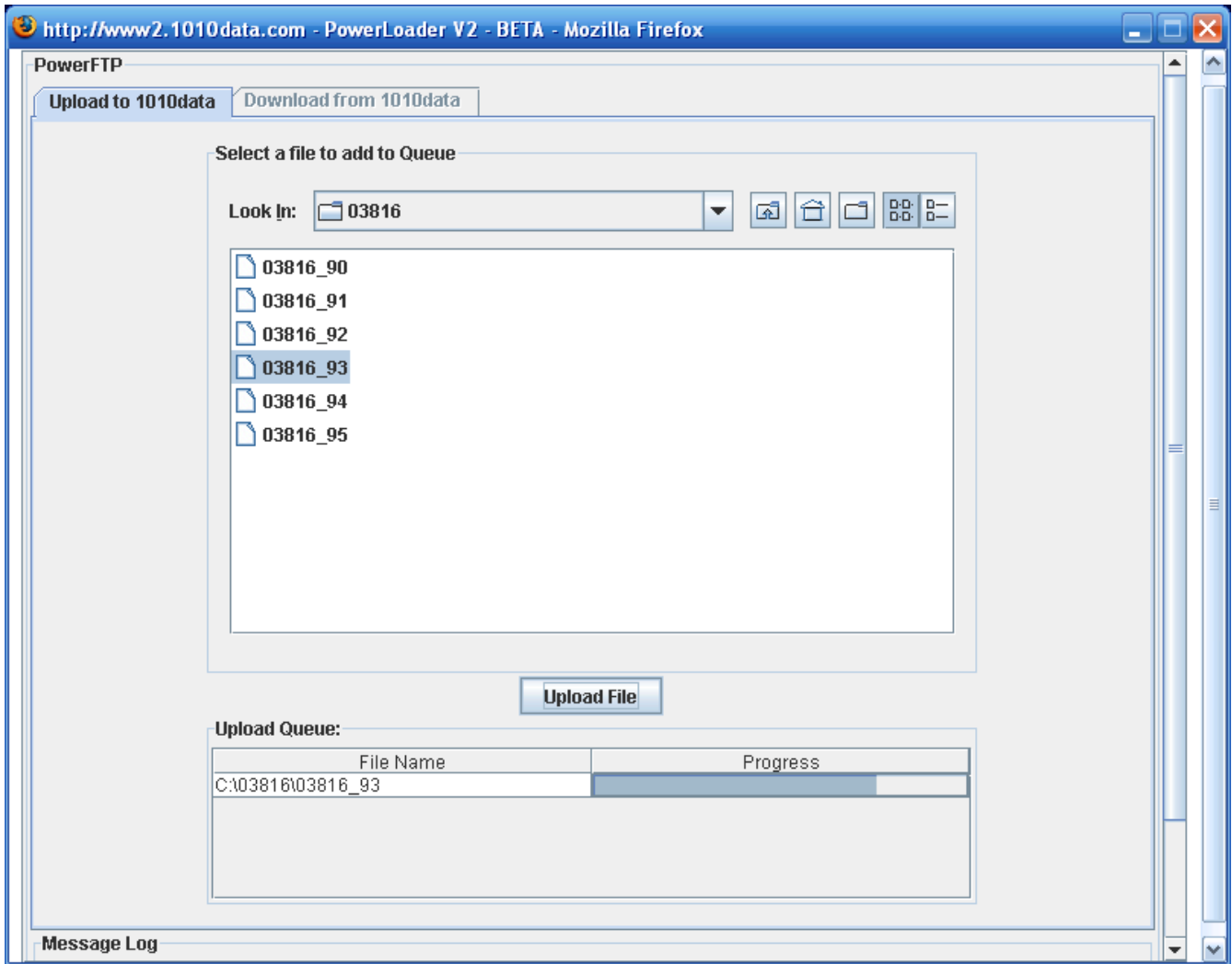
Screenshot 2.2

Once you have logged in to your FTP account, a screen will appear with two tabs: **Upload to 1010data** or **Download from 1010data**, as shown in Screenshot 2.3. In addition, there will be a **Message Log** at the bottom of the screen, which will record any error messages and/or file transfers.



Screenshot 2.3

If you would like to upload data into 1010data’s system, click the **Upload to 1010data** tab, browse to the desired file, select it and click the **Upload File** button. This action is depicted in Screenshot 2.4. The file pathname should appear in the bottom part of the screen, under **File Name**. A bar will appear under **Progress** showing the progress of the upload. Once the file has been uploaded, its name and progress will disappear from the **Upload Queue** table. To exit the FTP, simply click the X icon in the top right-hand corner of the screen.

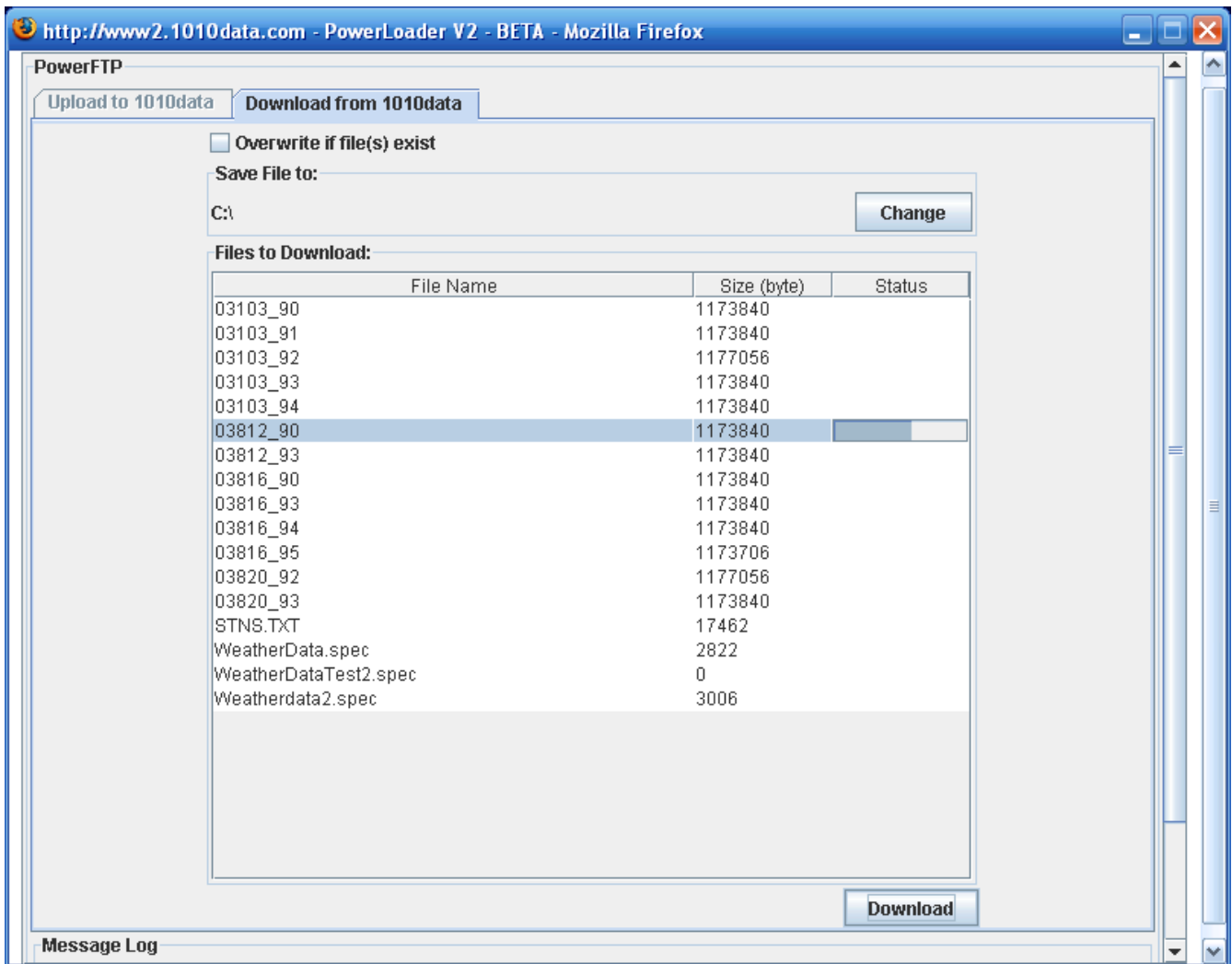


Screenshot 2.4

If you would like to download data from 1010data’s system, click the **Download from 1010data** tab, select the desired file and click the **Download** button. This action is depicted in Screenshot 2.5. A bar will appear under the **Status** column showing the status of the download. When downloading files, you have the option to **Overwrite if file(s) exist**. If you do not select this checkbox and attempt to download a file that already exists in the specified location, a popup box will appear titled **Confirm Overwrite**. This box will ask **File already exists, continue saving file?** If you select **Yes**, the download will continue. If you select **No**, the download will stop and **Cancelled** will appear under the **Status** column.

The default location to place the download is the Desktop, but you can change the location by clicking the **Change** button. Browse to where you want to save the file, and

the specified location will appear in the **Save File to:** box. To exit the FTP, simply click the X icon in the top right-hand corner of the screen.



Screenshot 2.5

Chapter 3: Loading a Table

File Information

Once you have uploaded a file, you can begin to fill out the necessary information on the form depicted in Screenshot 3.1 below.

Screenshot 3.1

The first piece of information to provide is the **Type** of the file, which is a required field. *All required fields are highlighted in red.* This field specifies how the file's data is separated, whether **Fixed** or **Delimited**. **Fixed** means that the data has a fixed number of characters in each field, therefore every row has a fixed number of characters. **Delimited** means that the fields are separated by some character or symbol, such as commas, tabs, pipes, etc. If the file is **Delimited**, an additional listbox will appear next to **Record Delimiter**, labeled **Field Delimiter**. **Field Delimiter** is a required field where you must choose from the listbox what the delimiter is for the data. The choices for **Field Delimiter** are Comma, Tab, Pipe or Other, where you specify your own delimiter. **Record Delimiter** specifies the delimiter for each record (i.e. the symbol ending each record). There are four choices for this listbox: CRLF (Carriage Return Line Feed), NL (New Line), LF (Line Feed) and CRNL (Carriage Return New Line). CRLF and CRNL are essentially the same.

The next two listboxes are titled **Skip** and **Load**. In the **Skip** textbox, you can specify the number of records, if any, you would like the loader to skip over. For example, you may want to skip the header record for a file. Skipping a record means that the system does not load that record. In the **Load** textbox, you can specify the number of records to load. This can be useful if you are planning on uploading a large number of records and would first like to try to load a sample set before loading the entire set.

Table Attributes

After filling in the basic information for the file, you can fill out the information necessary for building the table with which the system will display the uploaded data. The **Table Attributes** category contains seven fields:

***Reminder:** All fields highlighted in red are **required** by the system

- A) **Name:** This is the name of the table in the system, consisting only of alphanumeric characters and underscore. The name is used as a variable in the 1010data macro language. If you load into the **My Data** folder, which is named **uploads**, **Name** is given by the system and cannot be specified by the user.
- B) **Title:** This will be the title of the created table and will be displayed above the table in the 1010data file system view. Unlike **Name**, it can contain alphanumeric characters, underscore *and blanks*.
- C) **Short Description:** This is a short description of the table, which is displayed in the 1010data file system view.
- D) **Long Description:** This is a long description of the table, which is displayed under table information.
- E) **Link Header:** This is the header that will be added to the column titles of linked tables.
- F) **Time Series:** This field allows you to fill in whether the table is a Time Series Table or not. A Time Series Table contains a time series, which is a set of data collected over a successive period of time, usually at fixed intervals. Some examples of times series are monthly sales figures, quarterly inventory data and daily bank balances. A Time Series Table should contain one or more **Time** column(s) and one grouping. The **Time** column should always contain integer values that are evenly spread apart, i.e. years (YYYY), months (YYYYMM), days (YYYYMMDD), etc. If you select **Y** for the **Time Series** input, an additional field will be added to each column, titled **Time Series Break Order**. In this field, enter an integer denoting the relative order of the grouping, where the **Time** columns are always last.

- G) **User**: This is your username, automatically filled in by the system. To add more users to have access to the table, simply click the **here** link under the **User** textbox, and an additional user textbox will appear. You can add as many users as you wish.

Column Attributes






The final category of information needed for building the table is the **Column Attributes**, which contains 13 fields:

***Reminder:** All fields highlighted in red are **required** by the system

- A) **Name**: This is the name of the column, consisting only of alphanumeric characters and underscore. It is a unique identifier used in expressions and functions in the 1010data macro language.
- B) **Header**: This is the column header, which is displayed above the column in the created table. Unlike **Name**, it can contain alphanumeric characters, underscore *and blanks*.
- C) **Column Help**: This is Meta information that describes the context of the column data and is displayed in the **Column Info** menu item in the 1010data file system view.
- D) **Expression**: This is a 1010data expression that modifies the data as it loads. For example, if you were a department store with a ten percent off sale on all items, you might want to change your column of prices to represent the sale prices. To load the prices as ten percent less of the original value, type “price - (price*.10)” in this textbox, assuming **price** is the name of the column, and the prices will load as the values computed by the expression.
- E) **Fixed Column**: This choice allows you to specify the column as fixed or not. Fixed columns are separated by orange lines from the rest of the data and remain on the screen no matter where you scroll inside the table.
- F) **Hide Column**: This choice allows you hide a column. The data in the column will be uploaded, but it won't be displayed in the created table.
- G) **Destroy Column**: This choice allows you destroy a column. By destroying a column, the system does not upload it; therefore it is unavailable for viewing and/or referencing.
- H) **Force Case**: This field allows you to force either **Lower** or **Upper** case on text strings within the data, which is useful for case insensitive searching.
- I) **Type**: This is the type of the data in the column. The primary types are Text, Integer and Float.

- J) **Format Type:** This field allows you to customize the format type of the column if its **Type** is an Integer or Float.
- K) **Width:** This field is displayed only if the file **Type** is **Fixed**. The width of the column is the number of spaces designated for each column within the uploaded file.
- L) **Display Width:** This is the number of spaces designated for each column within the created table.
- M) **Dec Places:** This is the number of decimal places that will appear in the table for Integers or Floats.

Adding/Deleting Columns

The **Load a Table** form consists of a single **Column Attributes** box by default. In order to add more columns, which you will most likely want to do, simply click the  icon, located next to the **Column Attributes** label. This will add an additional empty **Column Attributes** box. To duplicate a filled in **Column Attributes** box, simply click the  icon. To delete a column, click the  icon, located next to the **Column Attributes** label of the column you wish to delete. To move between the columns, simply click the   icons located next to any **Column Attributes** label.

Submitting Data

Once you have filled in the **Load a Table** form, you are ready to submit the data to create the table. To submit the data, click the **Submit** button located to the left of the form. If you have filled in the information correctly, the box should say “Validating”, then “Pre-scanning Input Files”, and then a **Status** popup box should appear telling you that your file has loaded successfully in x seconds, as seen from Screenshot 3.2. Click the **OK** button in the **Status** box, and a sample set of your table will appear in the top portion of the screen, as displayed in Screenshot 3.3. The sample set shows the first forty rows in the created table. You can scroll through the sample set by using the vertical and horizontal scrollbars to the right and below the table. To view the entire table, you must logout of the PowerLoader and login to the 1010data query interface. If the system encountered an error while submitting the information, a **Status** popup box will appear telling you that the system failed to load the data due to a specific error.

1010 data PowerLoader Loading

Open Save AutoFill Browse Logout

Load

Destination

Load a table
Input File - Choose below or [Upload](#)

Type:
Choose a file to load and pick its type.

Record Delimiter:
A delimiter is a character used to specify the boundary between records or fields

Skip: Load:

Status

Weather (uploads.t837248704_gsguide) Loaded Successfully in 0.734 seconds

Title: **Short Description:**
Choose a title and description you want displayed in the 1010data filesystem view.

Long Description:
Long description you want displayed under table information.

Link Header: **Time Series:**
Is this a timeseries table?

User:
User who can view the table. Click [here](#) to add another user

Column Attributes

Name: **Header:**
Choose a name (unique identifier) and title for the column. ex. name: loan_id title: Loan Id.

Column Help:
Meta information that describes the context of the column data.

Expression:
Write a 1010data expression to modify the data as it loads.

Screenshot 3.2

1010 data PowerLoader Browse | Logout

Load

Destination

Edit uploads.t837248704_gsguide
All Columns, Rows 1-40 of 8760

ID	Time	Grad	Drad	Total Sky Cover	Opaque Sky Cover	Dr
03812	1990010101	9999	9999	10	10	4.
03812	1990010102	9999	9999	10	10	2.
03812	1990010103	9999	9999	10	10	2.
03812	1990010104	9999	9999	2	2	1.
03812	1990010105	9999	9999	2	2	0.
03812	1990010106	9999	9999	6	6	0
03812	1990010107	9999	9999	5	5	-0
03812	1990010108	9999	9999	6	6	-0
03812	1990010109	9999	9999	6	6	-0
03812	1990010110	9999	9999	6	6	-0
03812	1990010111	9999	9999	5	5	1.
03812	1990010112	9999	9999	5	5	2.
03812	1990010113	9999	9999	6	6	2.
03812	1990010114	9999	9999	4	4	2.
03812	1990010115	9999	9999	7	7	2.
03812	1990010116	9999	9999	6	6	1

Note that the table above is a raw, unformatted preview. Any column formatting is ignored to show you the underlying data. If you want to see the data with formatting applied, please logout and login to the query interface.

Table Attributes

Title: Short Description:
Choose a title and description you want displayed in the 1010data filesystem view.

Long Description:
Long description you want displayed under table information.

Link Header: Time Series: Is this a timeseries table?

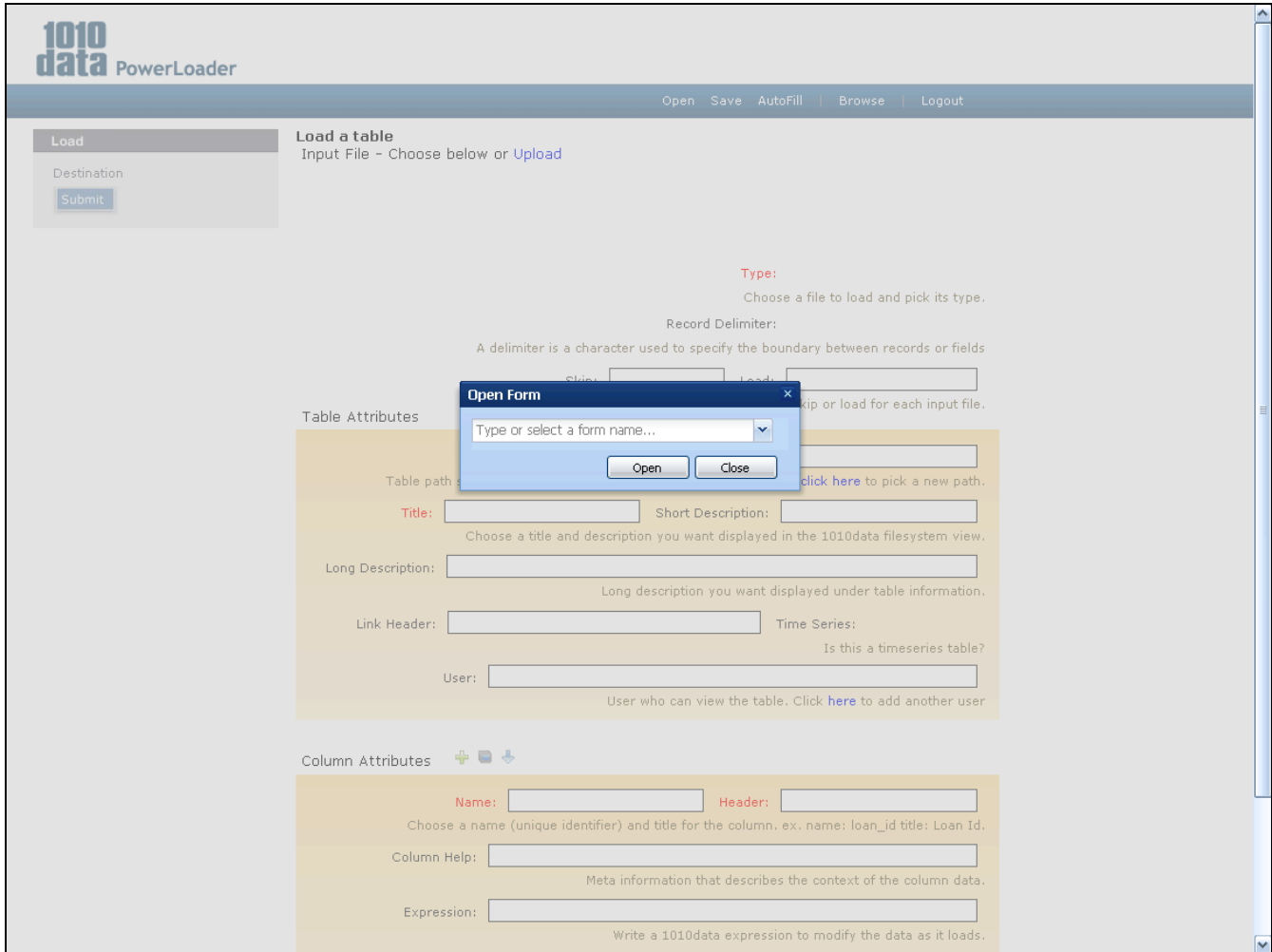
User: User who can view the table. Click [here](#) to add another user

Screenshot 3.3

Chapter 4: PowerLoader Tabs

Open

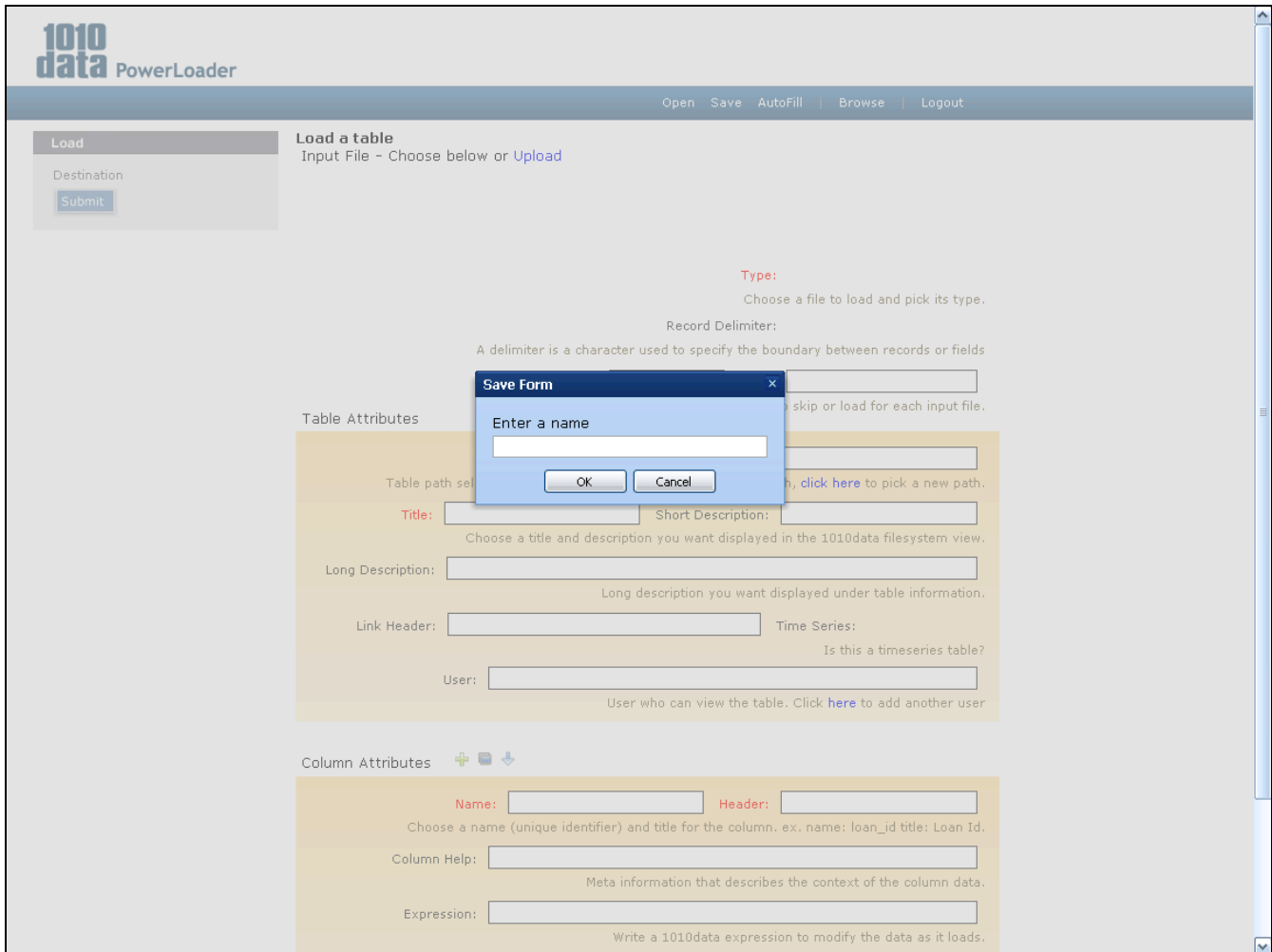
The **Open** tab allows you to open a saved **Load a Table** form. Simply click **Open** and the **Open Form** box will appear, as displayed in Screenshot 4.1. Type in the name of the form you wish to open or select the form from the dropdown list. Click **Open**, and the selected form should appear on the screen.



Screenshot 4.1

Save

The **Save** tab allows you to save your current form so that you can upload the data again at a later time without re-entering all the information. Simply click **Save** and the **Save Form** box will appear, as displayed in Screenshot 4.2. Type in the name of the form you wish to save and click **OK** and a message should appear saying that the form was saved successfully.



Screenshot 4.2

AutoFill

The **AutoFill** tab is a very useful and convenient option, especially if the file you wish to upload has many columns of data. Clicking this action prompts the PowerLoader to statistically analyze the file's data, determine the number of columns and fill in the **Type** and **Name** fields for each column. This will save the user a lot of time and speed up the uploading process.

Browse

The **Browse** tab allows the user to return to the main page of the PowerLoader, which displays the file hierarchy.

Chapter 5: Links to Other Topics of Interest

The following is a list of links to free FTP clients. This list does not represent all available FTP clients, nor does 1010data recommend any client over the other. It is simply for the interest and benefit of the user.

- 1) [**FileZilla**](#)
- 2) [**SmartFTP**](#)
- 3) [**FTPclient**](#)
- 4) [**CoreFTP**](#)