FmPro Migrator Batch Transfer - Usage Manual

FmPro Migrator Batch Transfer - Usage Manual

1 Overview

2 Theory of Operation

3 Installation

4 Configuration

5 Testing

6 Troubleshooting

7 Configuring a Windows Scheduled Job

8   Configuring a macOS Scheduled Event

Overview

Overview - FmPro Migrator Batch Transfer

This document explains the operation of the FmPro Migrator Batch Transfer utility and how to configure a scheduled job on Windows or macOS to run it at regular intervals.

The FmPro Migrator Batch Transfer app is designed to be scheduled to run at regular intervals in order to transfer data from FileMaker to SQL databases in an automated manner.

Limitations:
(1) The batch transfer process is supported with regular data fields in FileMaker and does not support transferring repeating fields data or container fields.

Manual Revision 3
FmPro Migrator Batch Transfer 1.05
7/21/2021

[Revision Notes: Updated with support for new xferData.exe perl2EXE compiled executable, and updated install notes and troubleshooting for MySQL and PostgreSQL database servers.
Added support for macOS 10.15 since xferData.app is now a 64-bit executable on macOS with 64-bit and 32-bit executables available for Windows.]

Theory of Operation

Usage with FmPro Migrator Platinum Edition

FmPro Migrator Transfer Data

Migration Process

Tables	Relationships	TOs	Value Lists	CFs	Layouts	Scripts	GUI
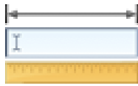
Tables: 8

Original Table	New Table	Source	Destination	Fields	Records
Clients ①	clients	FileMaker 18	MySQL	342	
Companies	companies	FileMaker 18	MySQL	5	3
Companies 2	companies_2	FileMaker 18	MySQL	5	1
Members	members	FileMaker 18	MySQL	17	29
placeholder_table	placeholder_table	FileMaker 18	MySQL	1	

Fields: 342

ID	Original Fieldname	PK	Auto-Increment	Next SN	New Fieldname
2	AddressLine1	0	0		addressline1
3	Phone1	0	0		phone1
4	Phone2	0	0		phone2
5	FirstVisit	0	0		firstvisit
6	City	0	0		city

Instructions:

Step 2:
Install the FileMaker ODBC driver.

Create an ODBC DSN matching the DSN name listed in the Table Details window.

Turn on ODBC Sharing within FileMaker.
Menu: File > Sharing > ODBC/JDBC

Click the Get FieldSize icon.

Troubleshooting:
Make sure the specified ODBC DSN

Step 2
Get Fieldsize
Completed

Step 3
Create Table
Completed

③ **Step 4**
Transfer Data
Not Started

② Shift Key

**Optional**
Image Transfer

The FmPro Migrator Batch Transfer utility uses the configuration and files created by FmPro Migrator in order to set up its batch transfer configuration.
(1) When holding down the Shift key while (2) pressing the Transfer Data button - FmPro Migrator creates and uses xferData.EXE/APP and xferData.pl files to transfer data from FileMaker to SQL databases.

NOTE: These xferData files only get written if the Shift key is pressed at the same time the Transfer Data button is clicked.
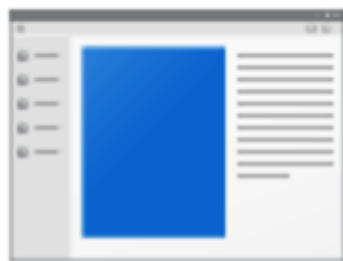
macOS xferData Files
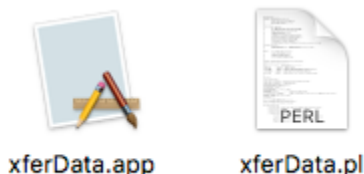
xferData.app   xferData.pl

FmPro Migrator generates the xferData.pl file and writes it to disk within the FmPro Migrator project folder. It also writes the xferData.app executable into the same folder. The xferData.pl file is custom generated to match the fields and table name selected in FmPro Migrator.

Then FmPro Migrator launches the xferData.app application. As soon as this application runs it looks for the xferData.pl file in the same folder and runs it. After the data is transferred, the xfer_completed.txt file is written to signify that the data transfer has completed without errors. If the data transfer fails, then the xfer_failed.txt file is written containing the text of the error message.

Windows xferDataFiles


xferData.exe   xferData.pl

FmPro Migrator generates the xferData.pl file and writes it to disk within the FmPro Migrator project folder. It also writes the xferData.exe executable into the same folder. The xferData.pl file is custom generated to match the fields and table name selected in FmPro Migrator.

Then FmPro Migrator launches the xferData.exe application. As soon as this application runs it looks for the xferData.pl file in the same folder and runs it. After the data is transferred, the xfer_completed.txt file is written to signify that the data transfer has completed without errors. If the data transfer fails, then the xfer_failed.txt file is written containing the text of the error message.

File Copying
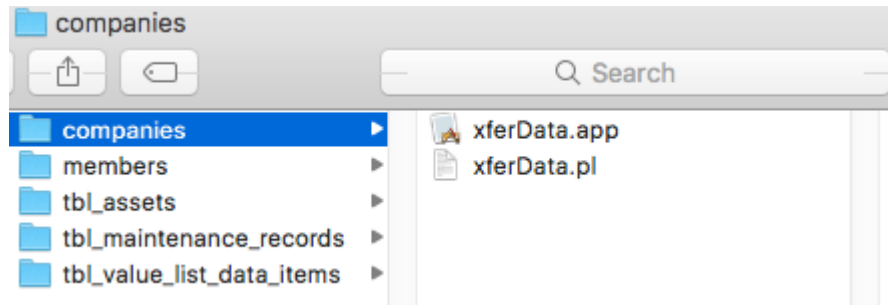
When adding a table to the list of tables to be processed, the FmPro Migrator Batch Transfer utility makes a folder using the name of the database table and copies these files into the folder. When the configuration has been completed, a folder have been created for each table which needs to be transferred during batch transfer processing.

Truncate Tables

Note1: Each SQL database table will first be truncated by the FmPro Migrator Batch Transfer utility, before transferring all of the data. This process prevents conflicts due to duplicated primary key columns.

Note2: It also means that all records are transferred during each data transfer. This process doesn't require making any changes to the original FileMaker database to add trigger scripts/calculations to each table.

Installation

Windows Installation - FmPro Migrator Batch Transfer

Unzip Application
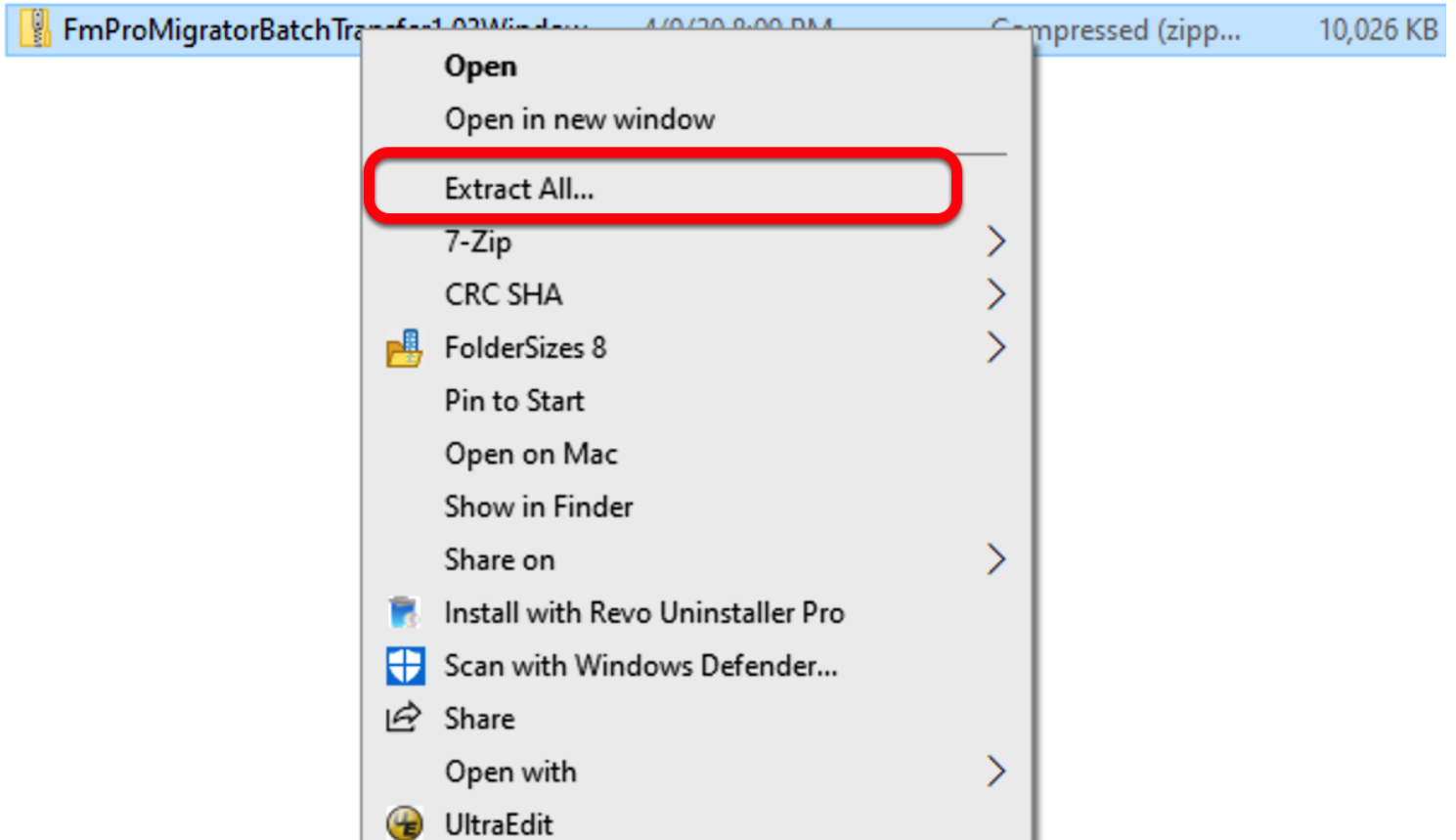
The FmPro Migrator Batch Transfer utility is delivered as a zip file. Right click on the zip file, and select Extract All... from the contextual menu to extract the contents.

Move Application Folder (Optional)

You can move the application folder to the Program files folder or wherever else you find convenient. No installation application is required.

The first time the app runs, it will create a preferences folder named FmPro Migrator Batch Transfer within the Documents directory. A preferences file named FmPro_Migrator_Batch_Transfer.json will be created within this folder.

Note: The version number is not included in the name of the app, so that it can be updated without requiring a change to the job scheduler configuration.

Windows - DBD::mysql & Strawberry Perl Installation

In order to support the DBD::mysql module, it is necessary to install Strawberry Perl on Windows, then use cpan to install the required modules.

Download & Install Strawberry Perl for Windows

The Perl for MS Windows, free of charge!

Perl is a programming language suitable for writing simple scripts as well as complex applications — see https://www.perl.org.

Strawberry Perl is a perl environment for MS Windows containing all you need to run and develop perl applications. It is designed to be as close as possible to perl environment on UNIX systems.

It includes perl binaries, compiler (gcc) + related tools, all the external libraries (crypto, math, graphics, xml...), all the bundled database clients and all you expect from Strawberry Perl.

"When I'm on Windows, I use Strawberry Perl"
-- Larry Wall

Recommended version:

strawberry-perl-5.30.2.1-64bit.msi
strawberry-perl-5.30.2.1-32bit.msi

If you are using the 64-bit version of FmPro Migrator, then download the 64-bit version of Strawberry Perl from: www.StrawberryPerl.com

A 32-bit version is also available.

Note: Before installing Strawberry Perl, remove any previous versions you may have installed like ActiveState Perl. This can be done via the Programs & Features control panel in Windows. You can also perform the following test at the command line:

perl -v

To make sure that everything got removed from the previous version, before performing the new installation.

Install DBI Using cpan

Once Strawberry Perl has been installed, using the command prompt or PowerShell:

(1) cpan

Then install the DBI module.

(2) install DBI

All dependent modules will be installed and you will be returned to the cpan prompt.

Install DBD::mysql Using cpan

Using the same cpan shell, install DBD::mysql

Note: Capitalization does matter when entering the names of cpan modules.

Install DBD::ODBC Using cpan

```
cpan> install DBD::ODBC
Database was generated on Tue, 26 May 2020 01:08:45 GMT
DBD::ODBC is up to date (1.61).
```

Using the same cpan shell, install DBD::ODBC

Quit cpan shell

```
cpan> q
Lockfile removed.
PS C:\>
```

Type q and then return to quit the cpan shell.

Windows - DBD::Pg & Strawberry Perl Installation

In order to support the DBD::Pg module, it is necessary to install Strawberry Perl on Windows, then use cpan to install the required modules.

The Perl for MS Windows, free of charge!

Perl is a programming language suitable for writing simple scripts as well as complex applications — see https://www.perl.org.

Strawberry Perl is a perl environment for MS Windows containing all you need to run and develop perl applications. It is designed to be as close as possible to perl environment on UNIX systems.

It includes perl binaries, compiler (gcc) + related tools, all the external libraries (crypto, math, graphics, xml...), all the bundled database clients and all you expect from Strawberry Perl.

"When I'm on Windows, I use Strawberry Perl"
-- Larry Wall

Recommended version:

strawberry-perl-5.30.2.1-64bit.msi
strawberry-perl-5.30.2.1-32bit.msi

If you are using the 64-bit version of FmPro Migrator, then download the 64-bit version of Strawberry Perl from: www.StrawberryPerl.com

A 32-bit version is also available.

Note: Before installing Strawberry Perl, remove any previous versions you may have installed like ActiveState Perl. This can be done via the Programs & Features control panel in Windows. You can also perform the following test at the command line:

perl -v

To make sure that everything got removed from the previous version, before performing the new installation.

Install DBI Using cpan

Once Strawberry Perl has been installed, using the command prompt or PowerShell:

(1) cpan

Then install the DBI module.

(2) install DBI

All dependent modules will be installed and you will be returned to the cpan prompt.

Install DBD::Pg Using cpan

Using the same cpan shell, install DBD::Pg

Note: Capitalization does matter when entering the names of cpan modules.

Install DBD::ODBC Using cpan

```
cpan> install DBD::ODBC
Database was generated on Tue, 26 May 2020 01:08:45 GMT
DBD::ODBC is up to date (1.61).
```

Using the same cpan shell, install DBD::ODBC

Quit cpan shell

```
cpan> q
Lockfile removed.
PS C:\>
```

Type q and then return to quit the cpan shell.
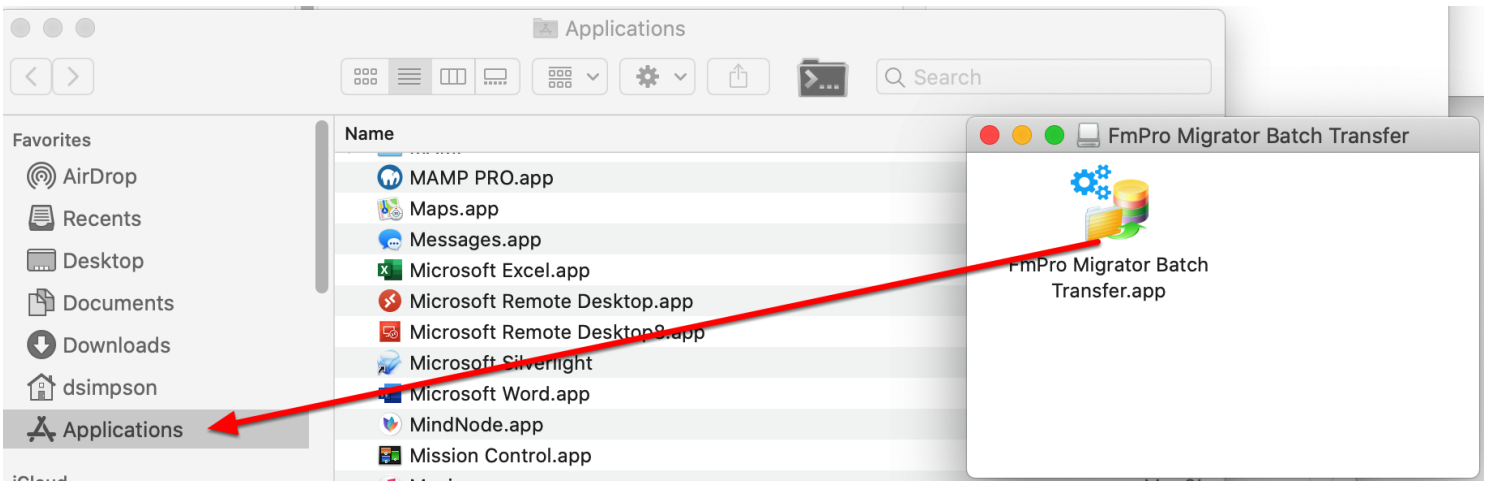
Open DMG File

Open the FmProMigratorBatchTransferX.XXmacOS.dmg file, and drag the app to your Applications folder. The FmPro Migrator Batch Transfer app is a 64-bit app, notarized by Apple to prevent error messages when launching.

Note: The version number is not included in the name of the app, so that it can be updated without requiring a change to the job scheduler configuration.

macOS - MySQL Client Installation for xferData.app

Skip this step if you don't need to transfer data from FileMaker to MySQL database servers. None of the other servers require installing client library software on macOS

xferData.app - MySQL Client Software Dependency

xferData.app   xferData.pl

The xferData.app is a 64-bit compiled perl executable, created with the perl2exe tool from IndigoStar Software. In order to transfer data to MySQL database servers, the mysql client library needs to be installed on macOS.

Install HomeBrew

The easiest way to install the MySQL client library is by installing HomeBrew.
[Note: The correct URL is http://brew.sh - not the similarly named homebrew.sh URL (which might be a virus site).]

Use the URL shown on the website to start the installation via the macOS Terminal.app.

Unless you have already installed the Xcode command line utilities, these will automatically be installed first.

Install   mysql-client@5.7

Once HomeBrew is installed, use it to install the MySQL client software using the following command:

brew mysql-client@5.7

HomeBrew will install the MySQL client software along with any dependencies which are required.

Configuration

Configuration Options & GUI Explanation

Launching FmPro Migrator Batch Transfer - Windows

Name	Date modified
Externals	4/9/20 8:04 PM
FmPro Migrator Batch Transfer.exe	4/9/20 8:05 PM
revpdfprinter.dll	4/9/20 8:05 PM
revsecurity.dll	4/9/20 8:05 PM

To open the FmPro Migrator Batch Transfer utility, just open the extracted folder and double-click on the FmPro Migrator Batch Transfer.EXE file.

Launching FmPro Migrator Batch Transfer - macOS
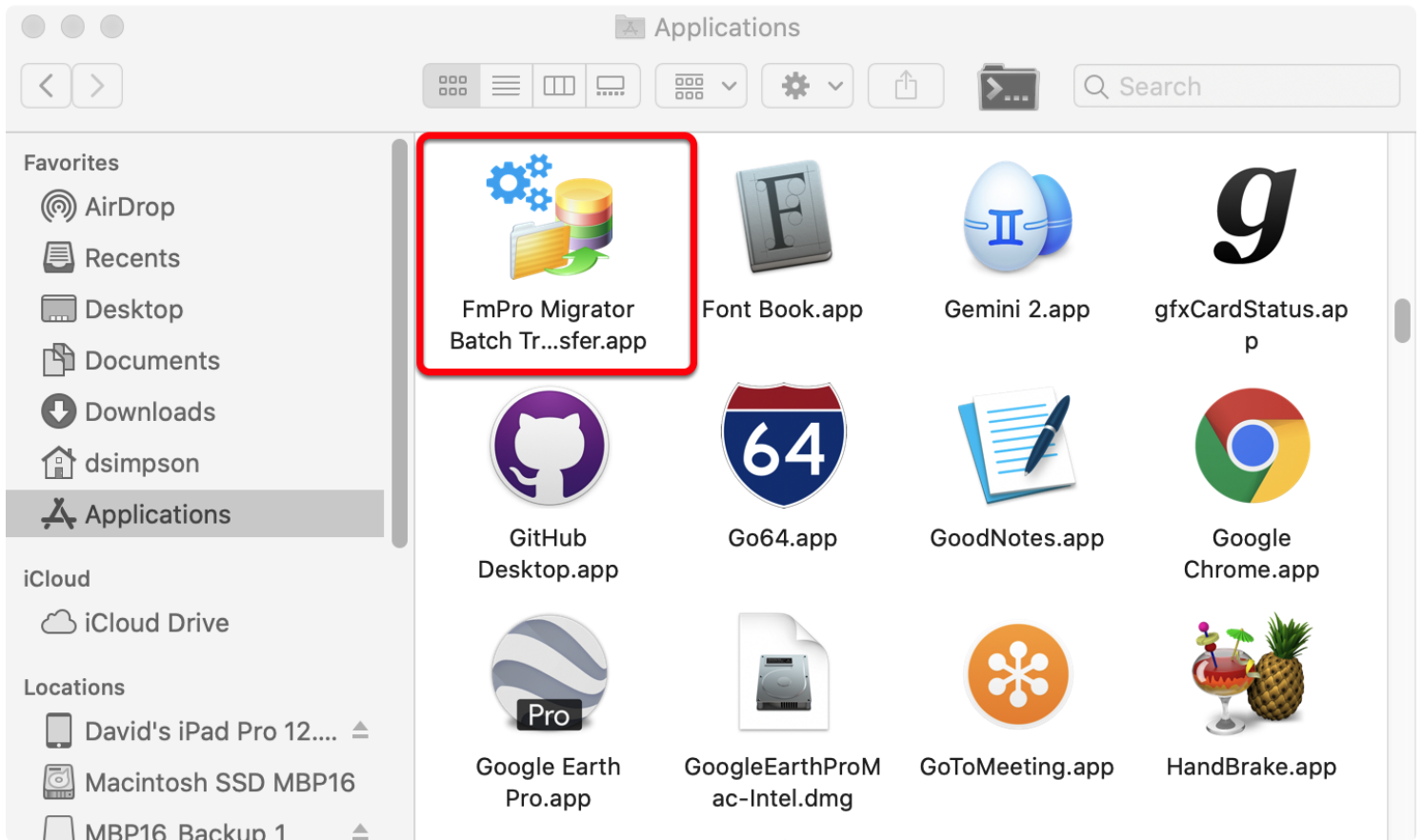
(1) Double-click the FmPro Migrator Batch Transfer icon in the Applications folder.
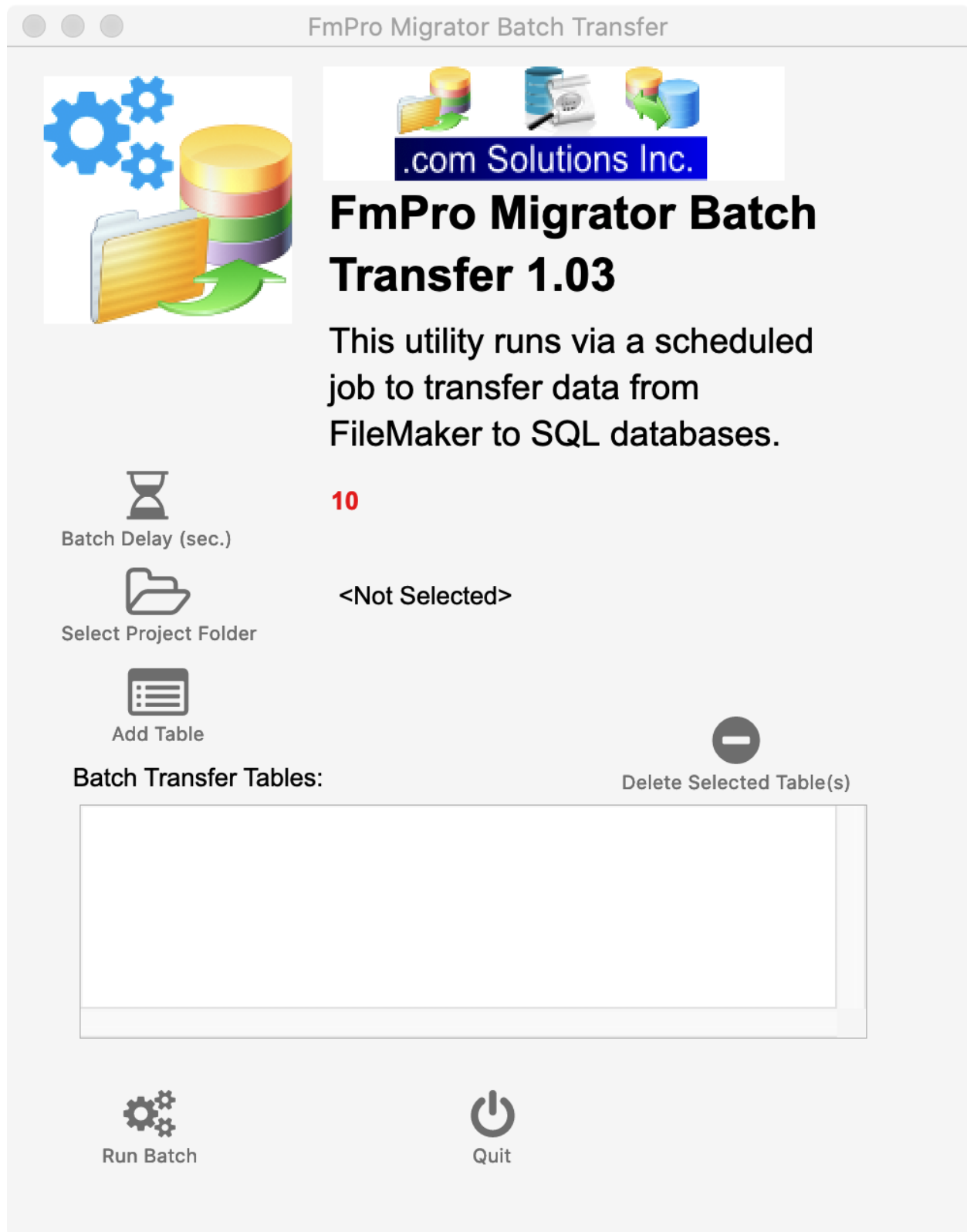
The FmPro Migrator Batch Transfer utility will automatically start counting down from 10 seconds when it is launched. This is exactly the behavior you want if the app is running via an automated schedule, but you want to stop this countdown when configuring the app.

<u>Clicking anywhere in the window will stop this automatic countdown.</u>

If you don't click anywhere on the window of the app, FmPro Migrator Batch Transfer will attempt to truncate data and transfer data for all of the tables in the list and then it will quit. If no tables have been added, the app will just quit after the timer has counted down and no data transfer will be attempted.
This screenshot shows that no tables have yet been added to the app for batch transfer.
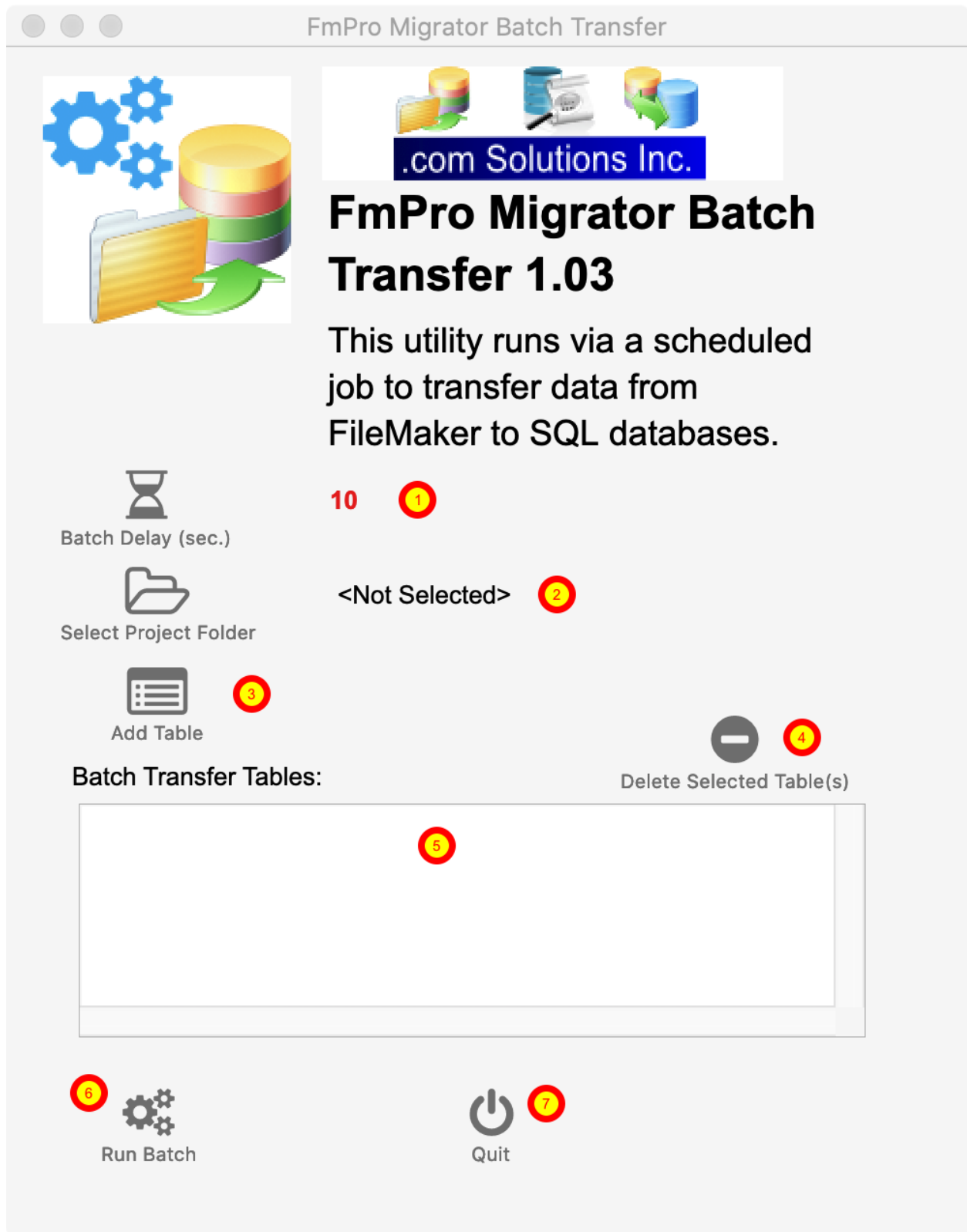
Each of the settings described here will be automatically saved into the preferences file when the options is selected.

(1) Batch Delay is set by selecting the number of seconds to delay from the pop-up menu displayed whenever clicking the Batch Delay button.
Default = 10 seconds
(2) Click the Select Project Folder button to select the FmPro Migrator project folder. This is the project folder used by FmPro Migrator to store the MigrationProcess.db3 project file.
(3) Add table. Click this button after selecting a table, then pressing the Shift Key while pressing the Transfer Data button in the Migration Process window.
(4) Delete Selected Table button. Select the name of a table from the list, then click this button to delete it from the list of batch transfer tables.
(5) List of batch transfer tables - empty by default.
(6) Click the Run Batch button, to immediately truncate tables and transfer the data again to all of the table in the list.
(7) Click the Quit button or select the File -> Quit menu to quit the app.

(1) Click the Select Project Folder button to select the FmPro Migrator project folder.

Select Project Folder - Error Message

The selected folder doesn't contain the MigrationProcess.db3 project file.

OK
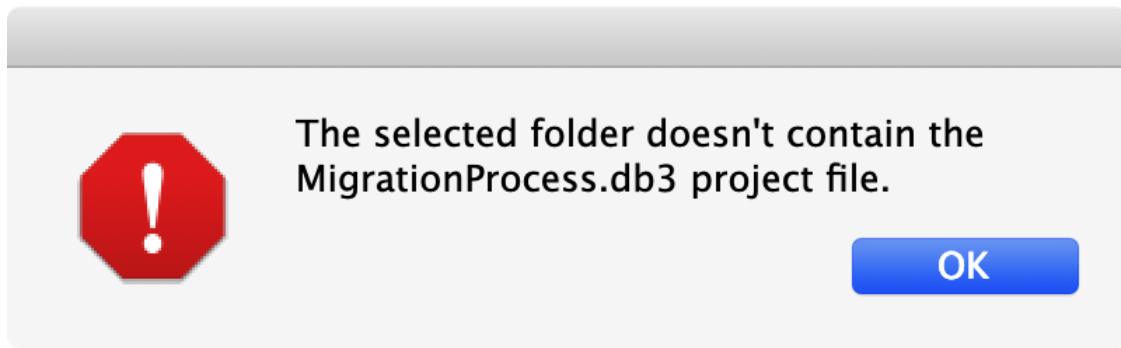
If the selected folder doesn't contain a MigrationProcess.db3 file, then it isn't an FmPro Migrator project folder, and this error message will be displayed.

Suggestion:
(1) Double-check which folder is being used for the FmPro Migrator project folder.
(2) If FmPro Migrator has not yet been used, then create the SQL tables and start transferring data for each of the tables manually first - to make sure that all database configuration options are correctly set up first.
The FmPro Migrator Batch Transfer utility should be used after all database tables have been created in the SQL database and transferred once manually.
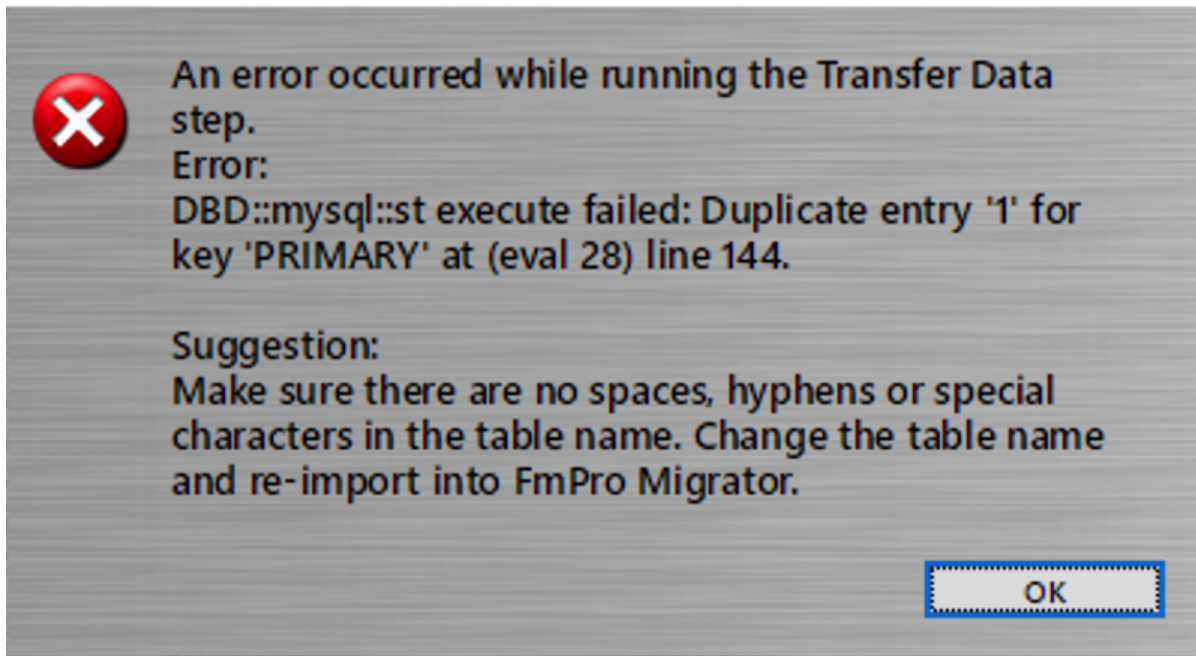
Add a Table - Step 1 - FmPro Migrator Transfer Data Button - Shift Key

(1) Click on a table on the Migration Process window.
(2) Hold down the Shift Key
(3) Click the Step #4 -Transfer Data button.

FmPro Migrator will generate the xferData.pl script and write the xferData.EXE/App application and will transfer the data to the SQL database using the xferData.pl script.

Ignore Primary Key Error

An error occurred while running the Transfer Data step.
Error:
DBD::mysql::st execute failed: Duplicate entry '1' for key 'PRIMARY' at (eval 28) line 144.

Suggestion:
Make sure there are no spaces, hyphens or special characters in the table name. Change the table name and re-import into FmPro Migrator.

If you have already transferred data into the SQL database, ignore this error dialog caused by duplicate primary key values. You should have already tested performing the data transfer with FmPro Migrator prior to reaching this step.

Note: All of the tables listed will be truncated first, before the data gets transferred. This is done in order to prevent unique constraint errors with Primary Key columns.
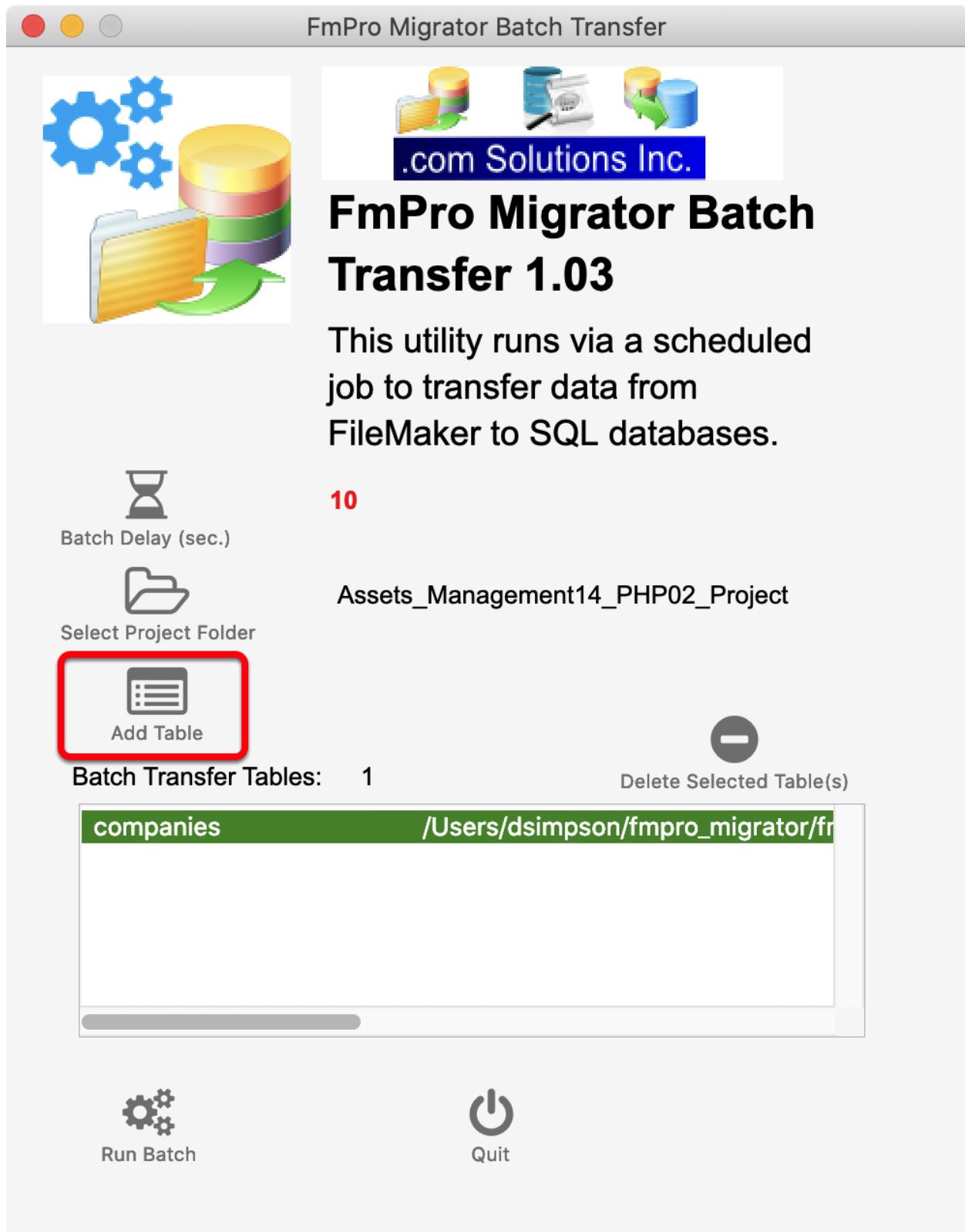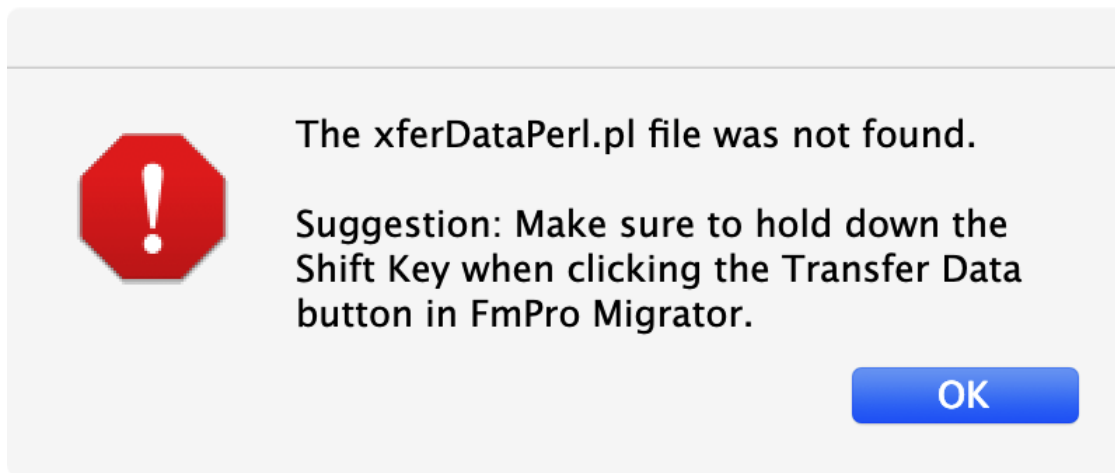
Click the Add Table button in the FmPro Migrator Batch Transfer utility.

In this example, the folder named "companies" will be created, the xferData.pl and the xferData.EXE/Apps will be moved into the new folder, and the table with its path will be added to

the Batch Transfer Tables list.

Missing xferData.pl Error

The missing xferData.pl error will be displayed if:
1) You didn't hold down the Shift Key while clicking the Transfer Data button.
2) If you click the Add Table button a 2nd time - after the xferData.pl file has been moved into the folder named for the table being copied.

Repeat for Each Table

Tables: 8

Original Table	New Table	Source	Destination	Fields	Records
Clients	clients	FileMaker 18	MySQL	342	
Companies	companies	FileMaker 18	MySQL	5	3
Companies 2	companies_2	FileMaker 18	MySQL	5	1
Members	members	FileMaker 18	MySQL	17	29
placeholder_table	placeholder_table	FileMaker 18	MySQL	1	

Continue clicking on each of the tables in the list, then pressing the Transfer Data button while holding the Shift Key - until you have added all of the tables to the list of batch transfer tables in the FmPro Migrator Batch Transfer utility.
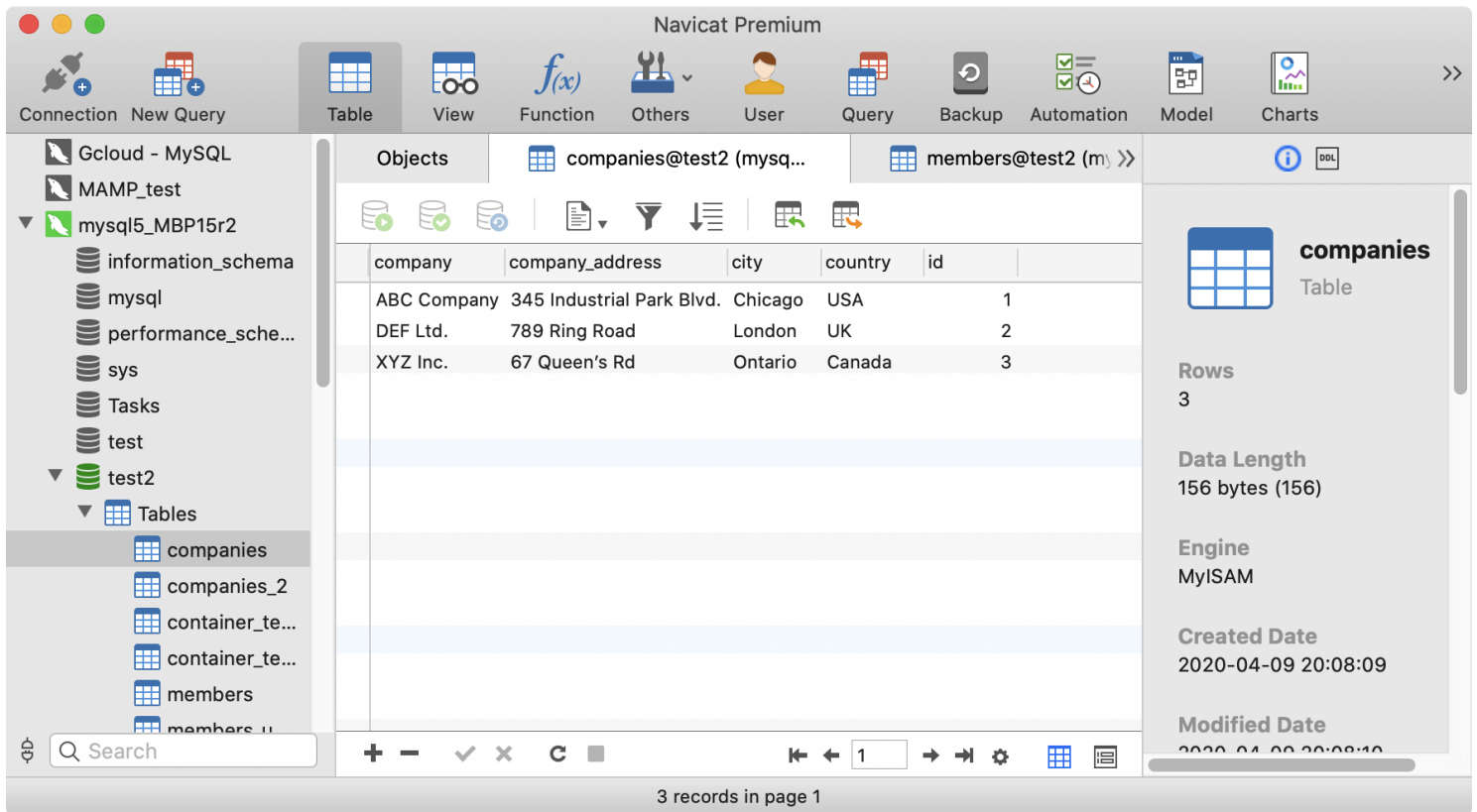
Testing

Testing the Batch Transfer
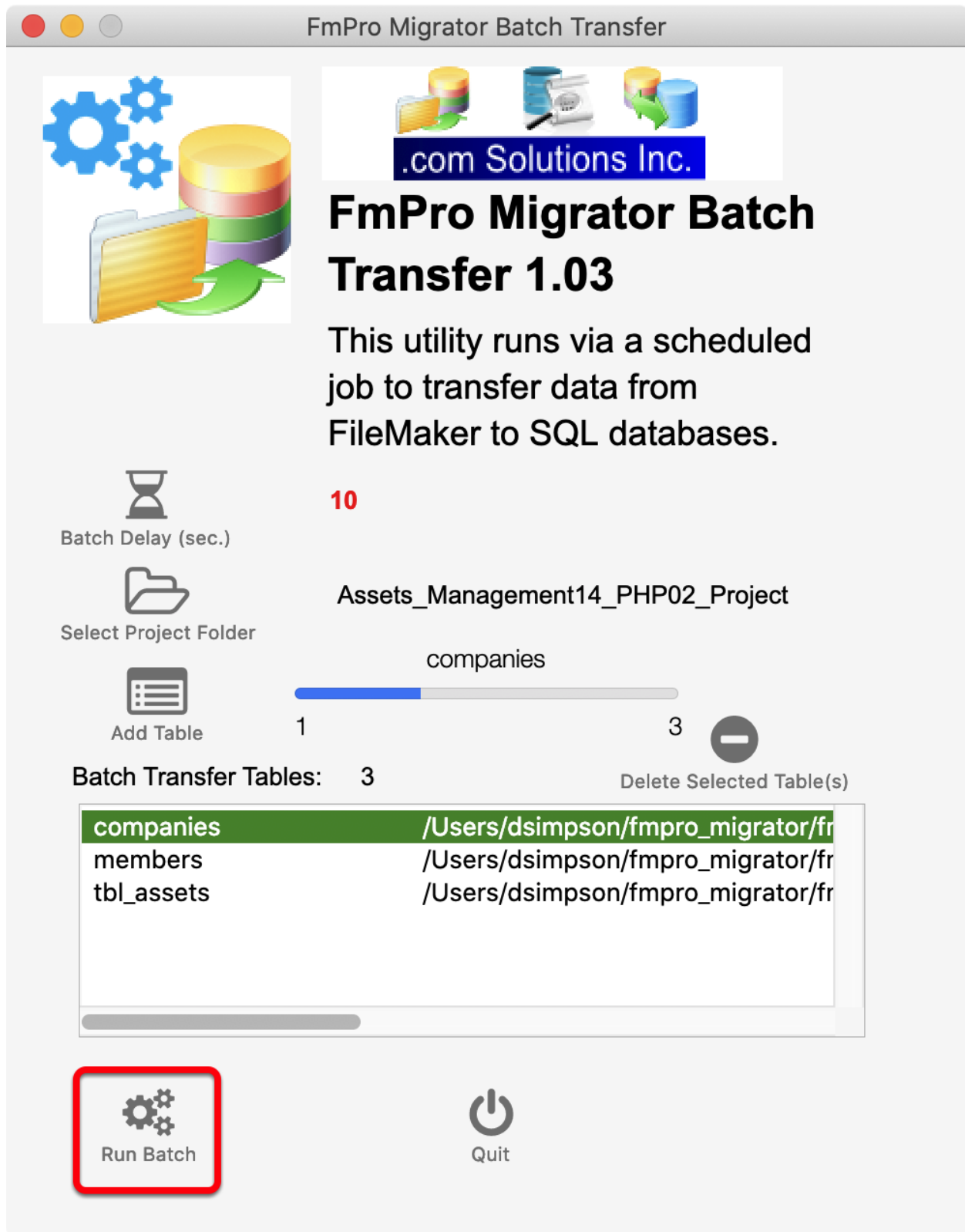
Once you have added all of the tables to the batch transfer list, click the Run Batch button.

The FmPro Migrator Batch Transfer utility will truncate the tables in the SQL database then it will

start executing the xferData.EXE/xferData.app applications within each of the individual folders to transfer the data.

Testing Results

Then you can use your favorite SQL database management tools to view the data which has been transferred. To verify that updated data has been transferred from the FileMaker database, make changes to a specific table, run the batch transfer and verify that the new data is displayed in the SQL database tables.

Or you could manually modify records in the SQL database, run the batch transfer, and then verify that the changes were overwritten.

Troubleshooting

Troubleshooting

ErrorLog.txt File


```
FmPro Migrator Batch Transfer Error Log   Thursday, April
9, 2020 7:01:58 PM

companies        DBI
connect('example_fmp_dsn17','Admin',...) failed: [iODBC]
[Driver Manager]Specified driver could not be loaded
(SQL-IM003) [state was IM003 now 00000]
[iODBC][Driver Manager]dlopen(/Library/ODBC/FileMaker
ODBC.bundle/Contents/MacOS/fmodbc.so, 6): no suitable
image found.  Did find:
        /Library/ODBC/FileMaker ODBC.bundle/Contents/
MacOS/fmodbc.so: no matching architecture in universal
wrapper
        /Library/ODBC (SQL-00000) at (eval 63) line 104

members DBI connect('example_fmp_dsn17','Admin',...)
failed: [iODBC][Driver Manager]Specified driver could not
be loaded (SQL-IM003) [state was IM003 now 00000]
[iODBC][Driver Manager]dlopen(/Library/ODBC/FileMaker
ODBC.bundle/Contents/MacOS/fmodbc.so, 6): no suitable
image found.  Did find:
        /Library/ODBC/FileMaker ODBC.bundle/Contents/
```

ErrorLog.txt

text - 2 KB

Information

Created	Thursday, April 9, 2020 at 7:01 PM
Modified	Thursday, April 9, 2020 at 7:01 PM
Last opened	Thursday, April 9, 2020 at 7:05 PM

If errors occur during the batch processing, these errors will be written into the ErrorLog.txt file.This file will be written into the FmPro Migrator project folder selected for batch processing. This file gets overwritten each time batch processing runs, so it won't grow in size.

Suggestion:
If errors occur, go back to FmPro Migrator and test transferring data again, either with the Shift Key held down or without holding the Shift Key down.

Upgrading from 1.03 to 1.04 Versions

FmPro Migrator Batch Transfer 1.04 (or higher versions) is dependent upon using FmPro Migrator Platinum Edition 9.00 or higher. The reason for this dependency is due to changes which have been made within the xferData.EXE/xferData.APP executables.

On Windows:
1) These executables are now available in 32-bit and 64-bit versions.
2) The DBD::mysql and DBD::Pg modules are now being used, which require Strawberry Perl and the DBD database driver modules to be installed on the local machine. The xferData.pl script is run directly by FmPro Migrator and FmPro Migrator Batch Transfer

On macOS:
1) The name of the executable inside the file bundle is now named xferData instead of the previous longer name.
2) The xferData.app is run by executing the executable inside the bundle instead of just launching the bundle itself.
3) The xferData.app is now a 64-bit executable, when previously it was a 32-bit executable.

Switching Database Server Types

Generally, most customers won't run into this issue, but it has been observed during testing.

If you switch from using one database server type (i.e. MySQL), to another server type (i.e. PostgreSQL), then you need to re-select the project folder again. This is because the destination server type and connection info is read into preferences only once and then it is stored. This info is used in two places:

1) The destination server type is used for constructing the syntax of the TRUNCATE TABLE command. SQLite uses DELETE instead of TRUNCATE but that is the only syntax change which is made internally within the software.
2) The database connection info is used to send the TRUNCATE TABLE command. Without the proper database login info you could run the TRUNCATE TABLE command against the wrong database.
If you change your database server login credentials, you would also need to update this info within FmPro Migrator Platinum Edition, the changes would get written into the MigrationProcess.db3 file within the project folder. Then you would select this folder again so that the prefs could be read and used by FmPro Migrator Batch Transfer.
3) Also, if you changed your database server login credentials, you would need to update the xferData.pl perl scripts used for each database table.

Note: Though it might look possible when looking at the GUI, FmPro Migrator Batch Transfer is not

designed to transfer data to different servers at the same time. Mainly, this is due to there being only one central location where the database connection info is stored for the TRUNCATE TABLE command.

DBD::Pg - load_file:The specified module could not be found - Windows

DBD::Pg Error Dialog
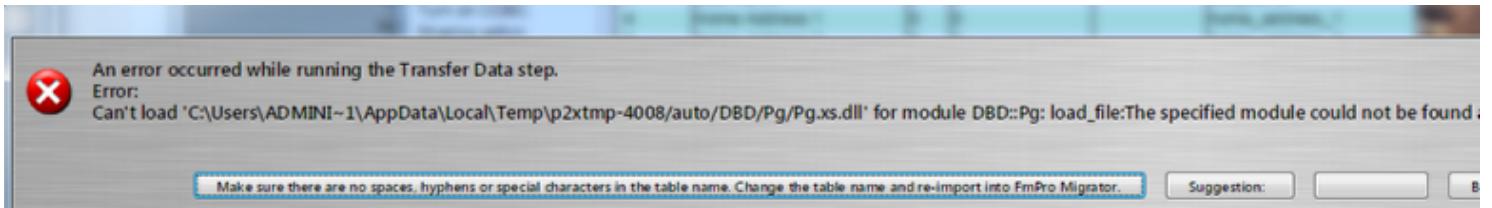
This dialog is displayed in FmPro Migrator if the DBD::Pg module has not been installed prior to running the xferData.exe executable.
Click any button to continue.

The full text of the error message is located within the xfer_failed.txt file in the same folder where the xferData.exe executable is found.
The error text will look similar to the following:

Can't load 'C:\Users\ADMINI~1\AppData\Local\Temp\p2xtmp-1772/auto/DBD/Pg/Pg.xs.dll' for module DBD::Pg: load_file:The specified module could not be found at PERL2EXE_STORAGE/DynaLoader.pm line 193.
** at (eval 9) line 42.**
Compilation failed in require at (eval 9) line 42.
BEGIN failed--compilation aborted at (eval 9) line 42.

Before using the xferData.exe executable to transfer data on Windows, the DBD::Pg module needs to be installed. For more details, see the installation instructions for Windows.

This error will only occur if data is being transferred to a PostgreSQL database server.

DBD::mysql - load_file:The specified module could not be found - Windows

DBD::mysql Error Dialog
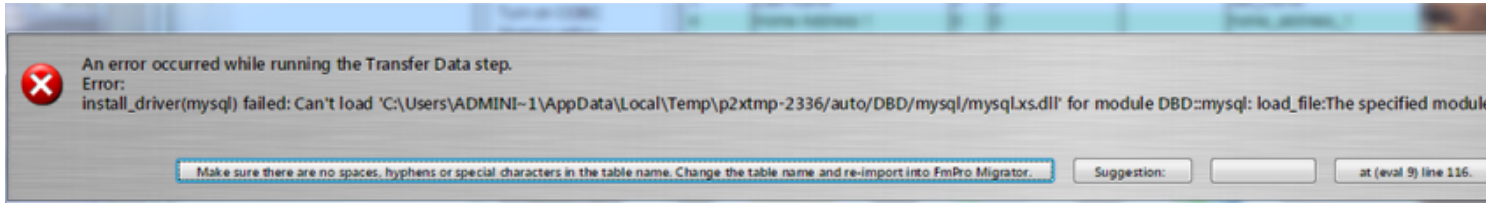
The full text of the error message is located within the xfer_failed.txt file in the same folder where the xferData.exe executable is found.
The error text will look similar to the following:

install_driver(mysql) failed: Can't load '<code>C:\Users\ADMINI~1\AppData\Local\Temp\p2xtmp-5100/auto/DBD/mysql/mysql.xs.dll</code>' for module DBD::mysql: load_file:The specified module could not be found at PERL2EXE_STORAGE/DynaLoader.pm line 193.
 at (eval 11) line 3.
Compilation failed in require at (eval 11) line 3.
Perhaps a required shared library or dll isn't installed where expected
 at (eval 9) line 116.

This dialog is displayed in FmPro Migrator if the DBD::mysql module has not been installed prior to running the xferData.exe executable.
Click any button to continue.

Before using the xferData.exe executable to transfer data on Windows, the DBD::mysql module needs to be installed. For more details, see the installation instructions for Windows.

This error will only occur if data is being transferred to a MySQL database server.

Configuring a Windows Scheduled Job

Using the Windows Task Scheduler

(1) Click the Start menu, then start typing the application name into the search box.
Before you finish typing the entire word, Windows will show the Task Scheduler in the list of apps.

(2) Click Task Scheduler in the list to open it.

Open Task Scheduler - Windows 10
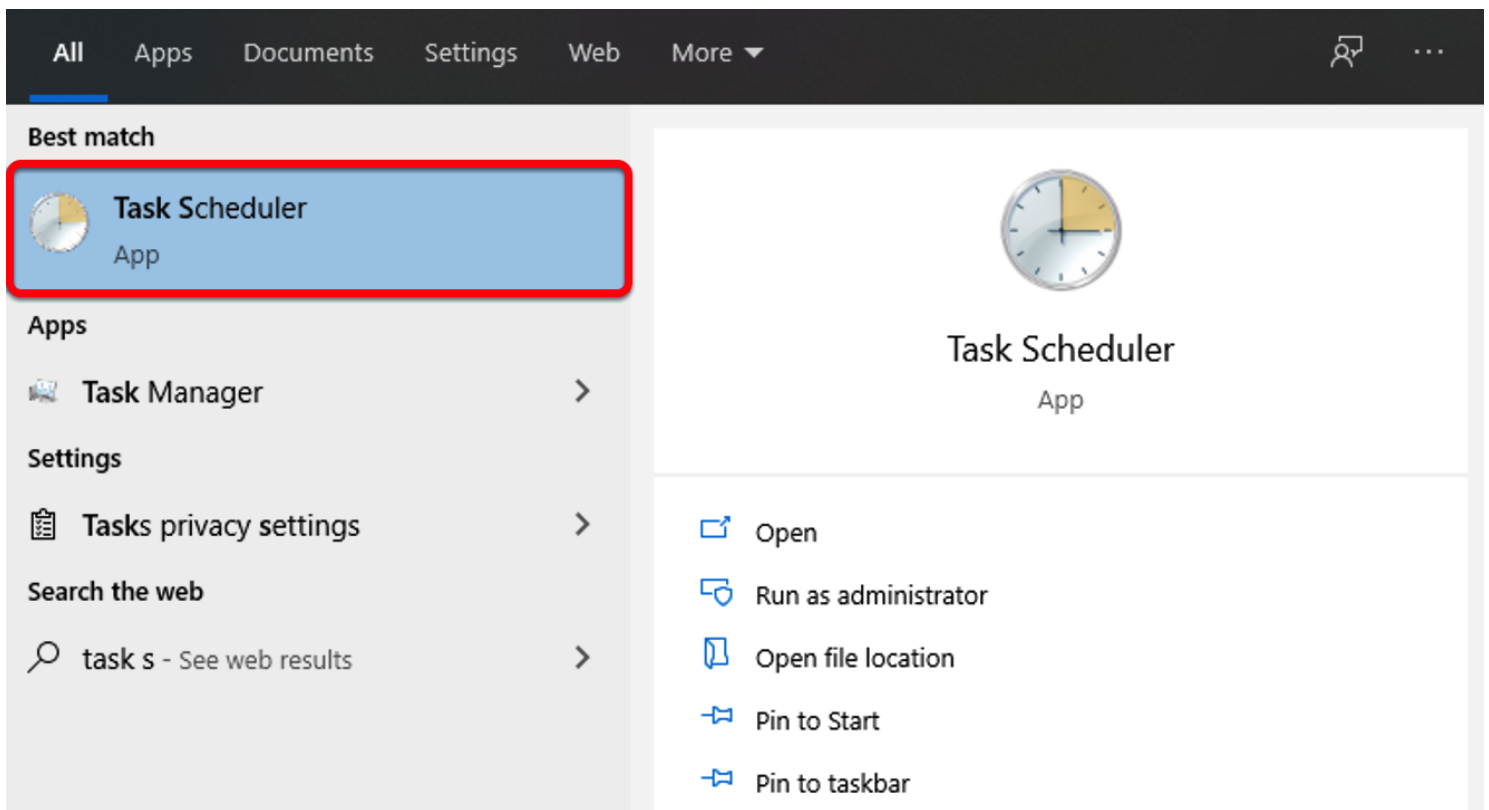
Click the Start menu, then start typing the text: task scheduler
Before you finish typing the entire word, Windows will show the Task Scheduler in the list of apps.

Click Task Scheduler in the list to open it.

Create Basic Task...
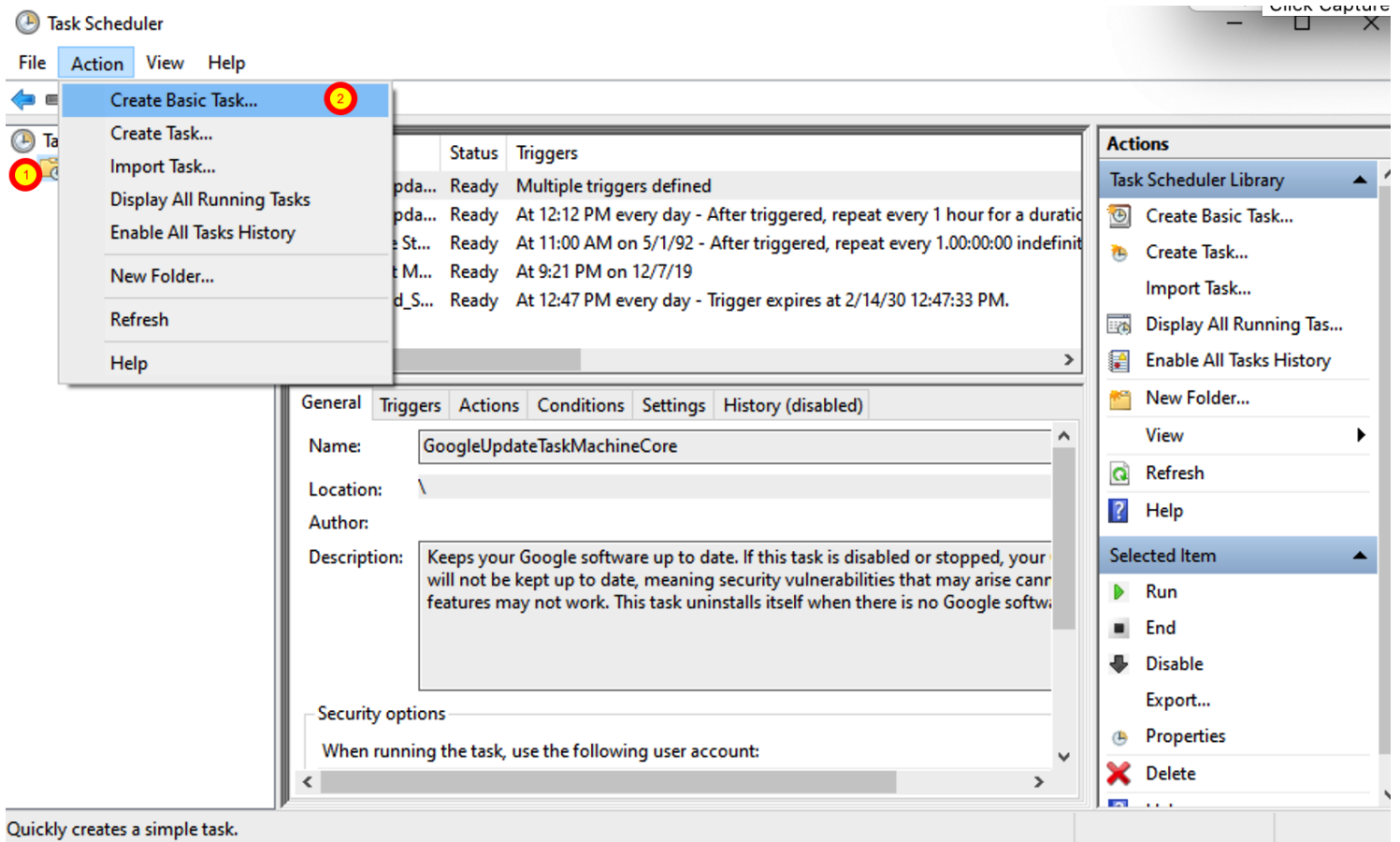
(1) Click the Task Scheduler Library folder.

(2) Select the Action -> Create Basic Task... menu item.

Name the Task

Create Basic Task Wizard   ✕

Create a Basic Task

Create a Basic Task	Use this wizard to quickly schedule a common task. For more advanced options or settings such as multiple task actions or triggers, use the Create Task command in the Actions pane.
Trigger	
Action	Name: FmPro Migrator Batch Transfer Launcher ①
Finish	Description: Launch the FmPro Migrator Batch Transfer app to transfer data from FileMaker to SQL databases.
	②

< Back   ③ Next >   Cancel

(1) Enter a name for the scheduled task.
(2) Enter a description for the scheduled task.
(3) Click the Next button.

Configure Trigger

Create Basic Task Wizard   ✕

🗓 Task Trigger

Create a Basic Task   When do you want the task to start?

Trigger   ⦿ Daily ①

Action   ○ Weekly

Finish   ○ Monthly

                             ○ One time

                             ○ When the computer starts

                             ○ When I log on

                             ○ When a specific event is logged

                                          < Back   ② Next >   Cancel

(1) Click the radio button for a Daily task.
(2) Click the Next button.

Choose Time

Create Basic Task Wizard ⌧

Daily

Create a Basic Task
Trigger
Daily
Action
Finish

Start: 4/13/20 ▦▾ 3:05:00 AM ① ☐ Synchronize across time zones

Recur every: 1 days

< Back ② Next > Cancel

(1) Select the time of day when the task should run.
(2) Click the Next button.

Select Action - Start a Program

Create Basic Task Wizard

⏰ Action

Create a Basic Task
Trigger
  Weekly
Action
Finish

What action do you want the task to perform?

◉ Start a program   ①

○ Send an e-mail (deprecated)

○ Display a message (deprecated)

< Back   ② Next >   Cancel

(1) Click the Start a Program option.
(2) Click the Next button.

Create Basic Task Wizard

Start a Program

Create a Basic Task

Trigger
  Weekly

Action
  Start a Program

Finish

Program/script:

Browse... ①

Add arguments (optional):

Start in (optional):

< Back   Next >   Cancel

(1) Click Browse button.

Select Application to Start - (2)
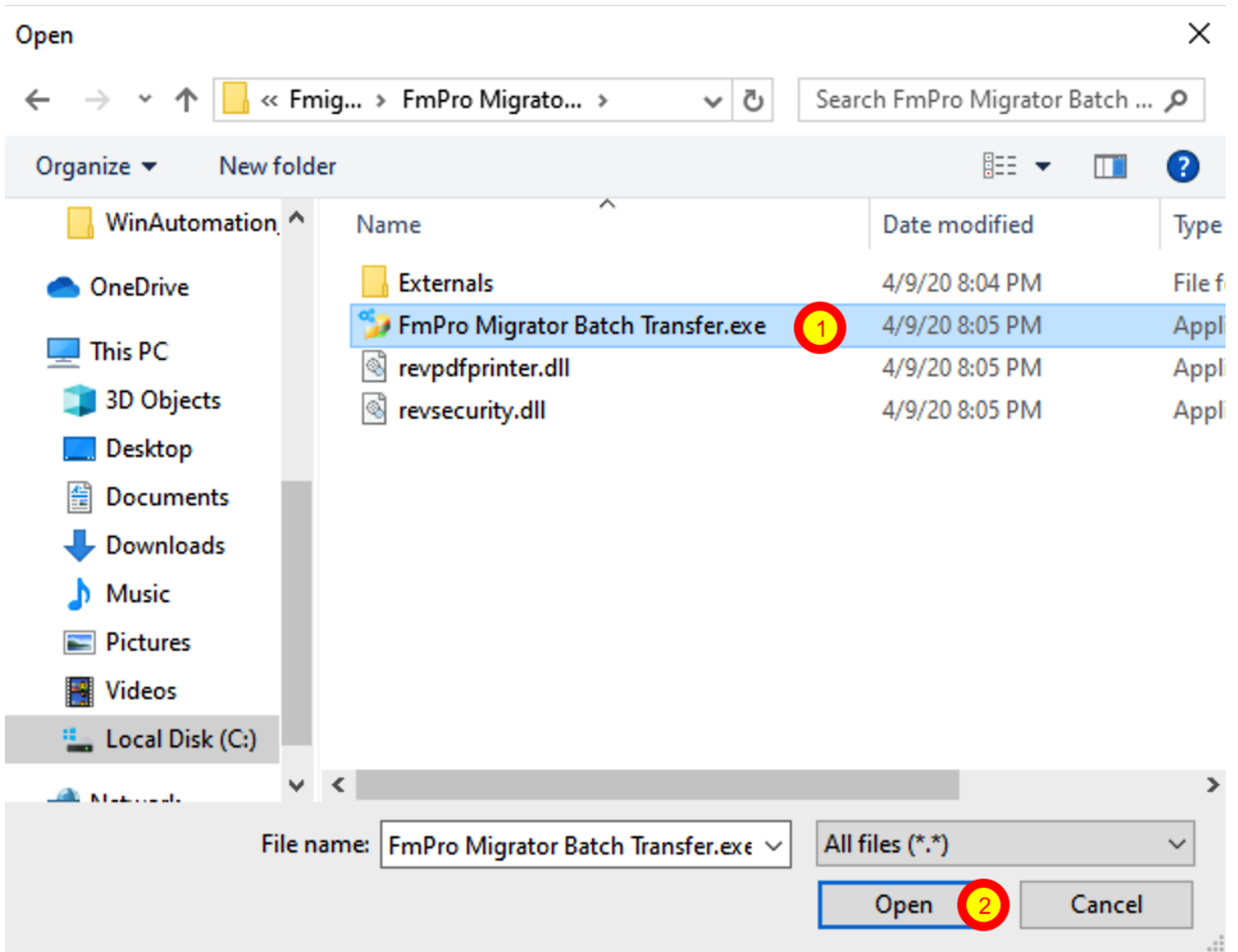
(1) Navigate to the location where the FmPro Migrator Batch Transfer app was installed, select its EXE file.
(2) Click the Open button.

Create Basic Task Wizard   ✕

Start a Program

Create a Basic Task
Trigger
   Daily
Action
   Start a Program
Finish

Program/script:

"C:\ds\Fmig_Batch_Data_Transfer\FmPro Migrator Batch Transfer 1.03\l   Browse...

Add arguments (optional):

Start in (optional):

< Back   (1)   Next >   Cancel

(1) Click the Next button.

Click Finish Button

(1) Click the checkbox next to the Open Properties dialog (2) Click the Finish button.

Scheduled Job Properties - Run Whether User is Logged On or Not

Because you checked the "Open Properties" checkbox on the previous window, the scheduled job properties you just created will be opened. (1) Click on the radio button "Run whether user is logged on or not", (2) Click the Ok button.

Configuring a macOS Scheduled Event

Using the Scheduler App From: www.macscheduler.net

Downloading Scheduler for Macintosh

The Scheduler app is available from: https://www.macscheduler.net/download.html

This app is available for free, but does require submitting an email for registration to receive a free license key via email.

Install Scheduler App
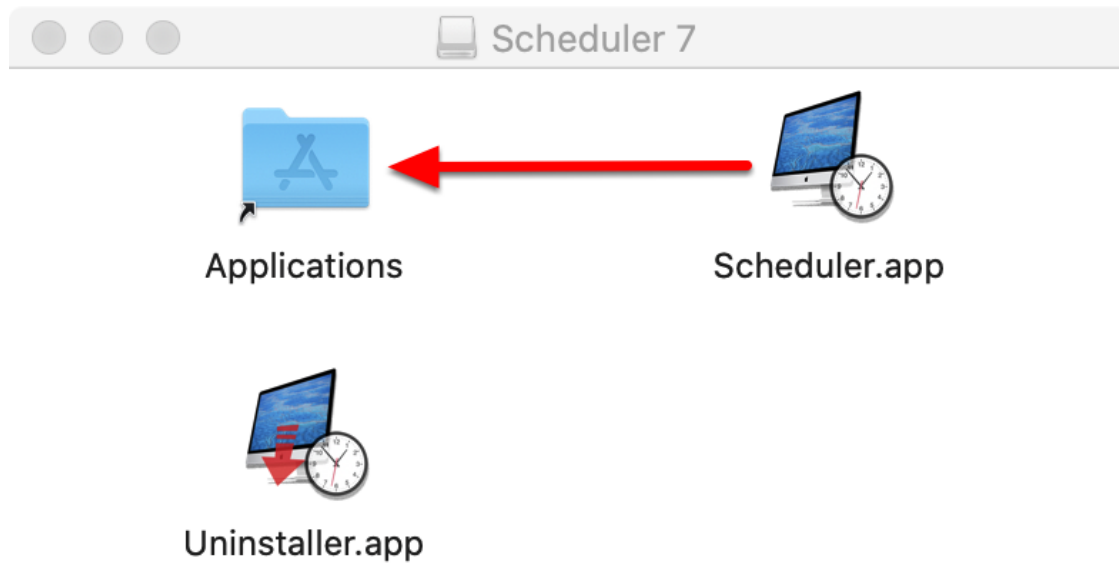
Double-click on the Scheduler.dmg file to open the disk image. Drag the Scheduler.app icon to the Applications folder you see within the DMG window.

Launch Scheduler.app
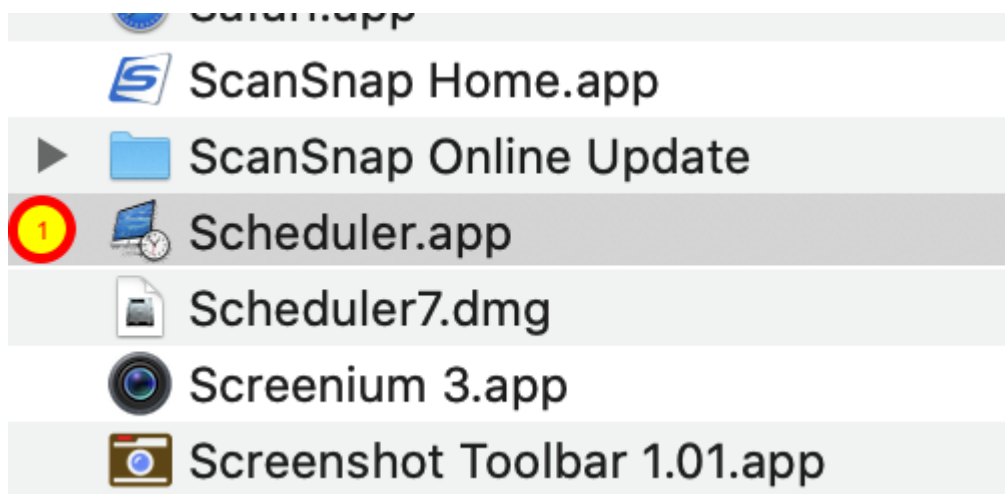
(1) Launch the Scheduler.app by double-clicking its icon within the applications folder.

Create Scheduled Event
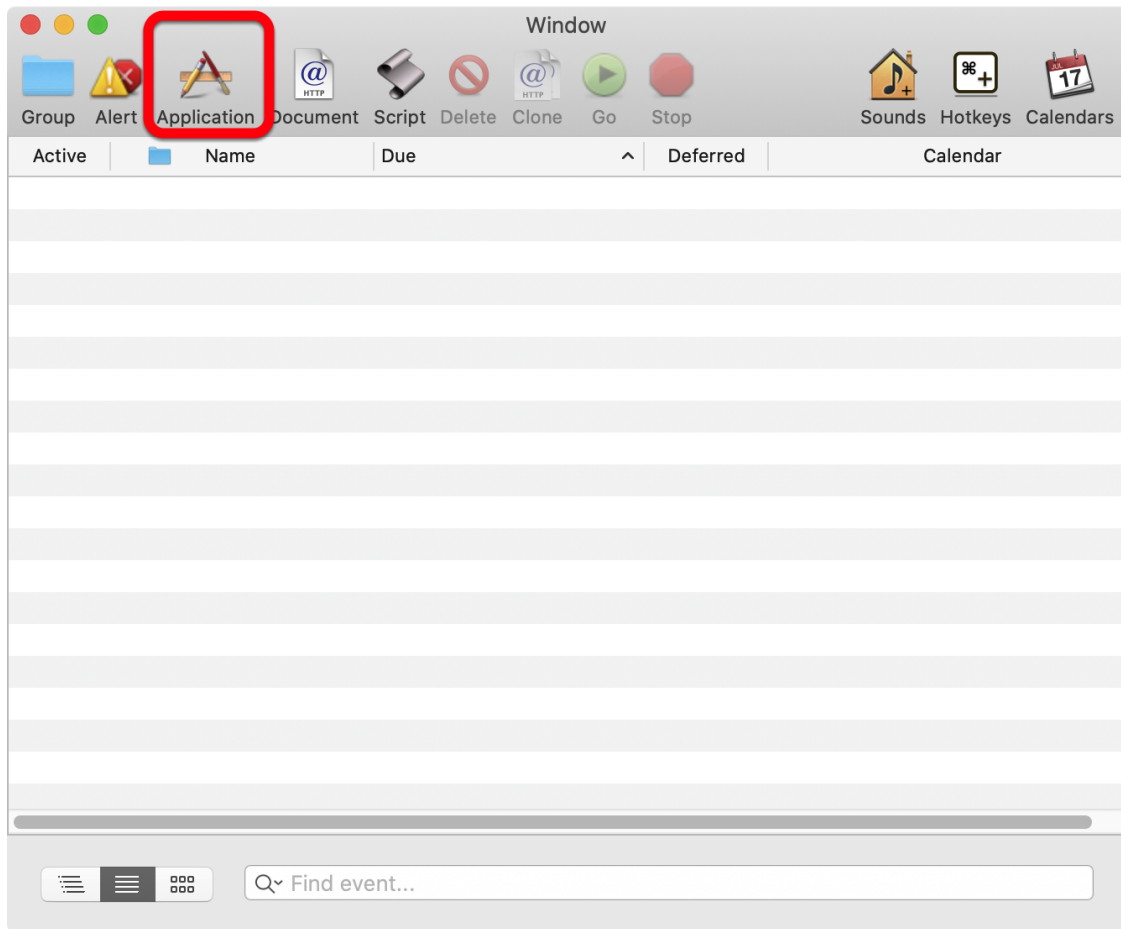
Click the Application icon in the Scheduler configuration window.

(1) Enter a title for the scheduled event, (2) choose a date and (3) time for the first time the FmPro Migrator Batch Transfer app should run, (4) Browse to select the FmPro Migrator Batch Transfer app, (5) select the Launch on date and time radio button. (6) Click the Repeat checkbox then select your desired repeat interval.

If more flexibility is needed for scheduling, then the Custom... menu option can be selected, which will open another configuration window with more details.

When setting a time of day for running the Printer Maintainer, you may want to configure the app to run when users won't generally be using the computer. The computer needs to be turned on, but if a user is performing other tasks they could be surprised to see the app open on its own. FmPro Migrator Batch Transfer will quit when it has completed printing. But if the user clicks anywhere on the FmPro Migrator Batch Transfer window, it will pause the countdown timer indefinitely.
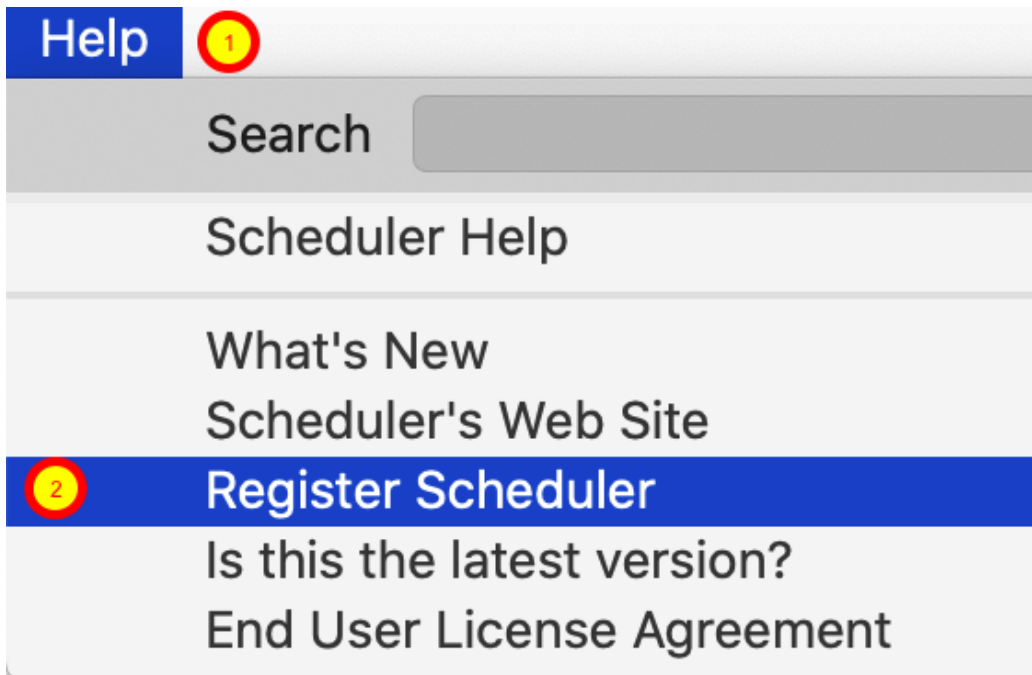
(7) Click the Ok button to save the changes.

Application Event in List
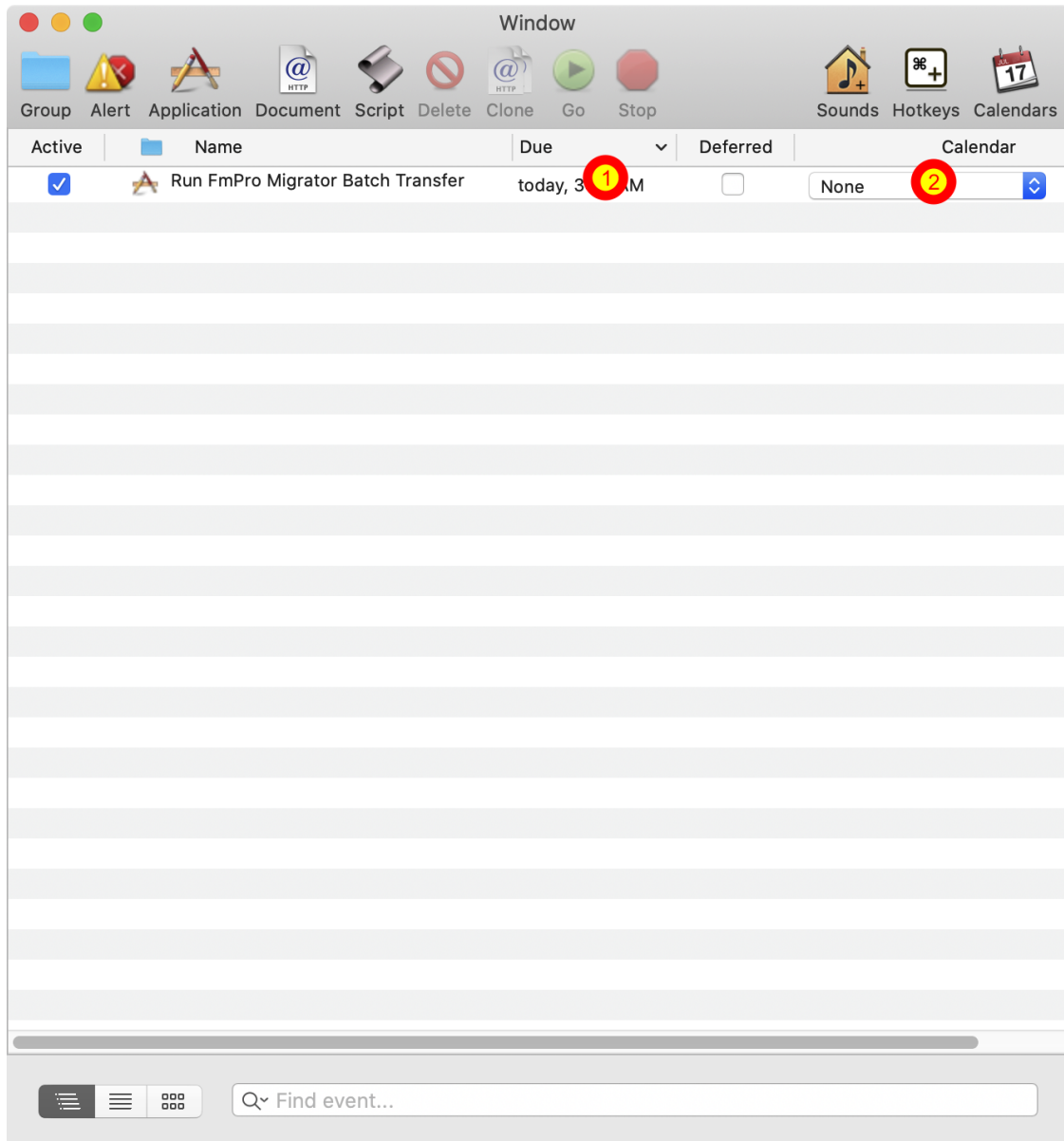
(1) click the Deferred checkbox so that it is unchecked, (2) select None from the Calendar menu.

Registering the Scheduler App

Select (2) Register Scheduler from the (1) Help menu to register the app for free on the computer where it is being used.
The website will open with a registration form.

Registration Form

(1) Select the version you want to register, (2, 3, 4) enter your name/email info, (5) select the notification checkbox if you want to be notified of updates, (6) click the Submit button.