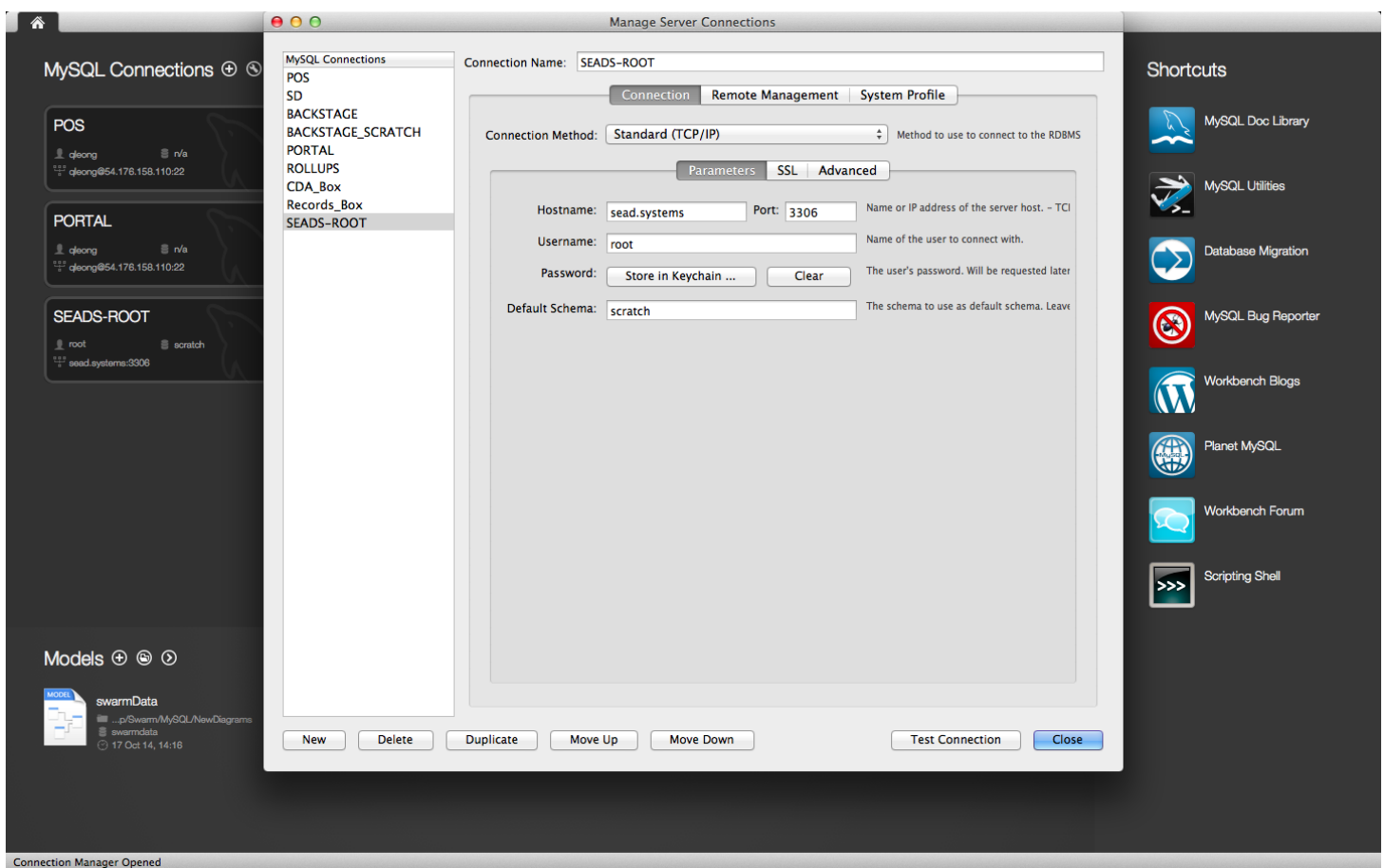# How To Gather SEAD Plug Raw Data From MySQL

MySQL Setup/Connection

You will need a MySQL GUI tool to access and download SEAD plug in csv data format. MySQL Workbench is one such tool, free for download here: http://dev.mysql.com/downloads/workbench/

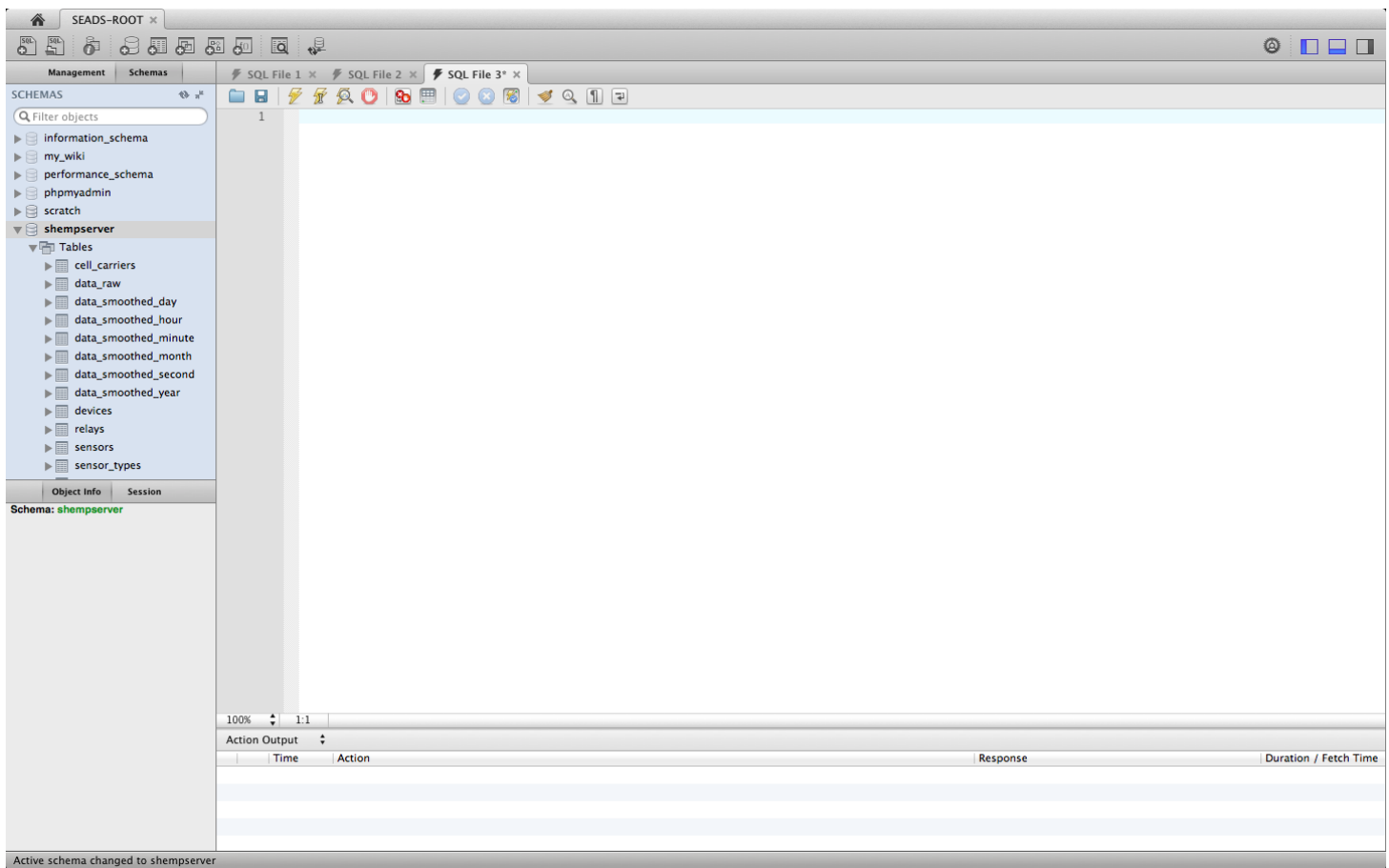Once downloaded, you create a connection to the database with the folllwing parameters:

- Connection Name: (You may choose whatever name you wish)

- Use standard TCP/IP connection method.

- Hostname: sead.systems

- Port: 3306

- Username: root

- Password: teammantey

- Default Schema (Optional): shempserver

This is a screenshot of a valid MySQL database connection.

Press the "Test Connection" button to verify that the parameters are correct, then close the window.

Open the connection to the database by double clicking on the connection you just created.

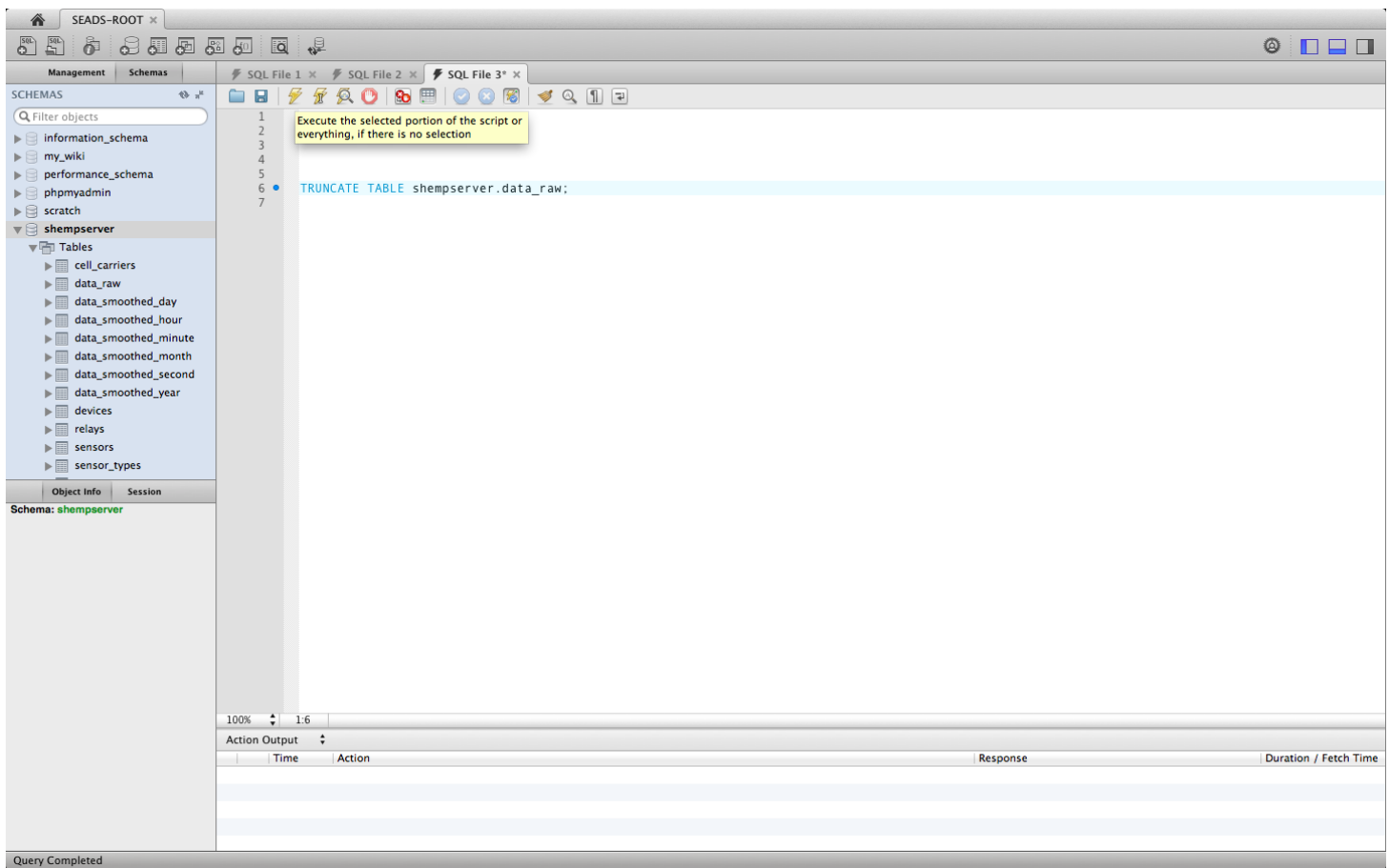**MySQL Workbench successfull connection**

Data Gathering

Repeat the preceeding steps every time you gather data for a new device.

To clear what is currently in the data landing zone table issue the following MySQL command.
WARNING: This will clear all the existing data in the data_raw table, so make sure you have gathered the necessary information from it.

```
TRUNCATE TABLE shempserver.data_raw;
```

To execute a query, hit the lightning bolt on the far left without the magnifying glass or "I" in front of it.

Plug in your appliance into the SEAD Plug, making sure all network connections are established between the plug and the server. (4 Lights should be on)

Turn appliance on and off for a minute as during standard data gathering with the PA1000.

The table will now have the data from the appliance you just gathered.

Retrieve data from table by executing the following query:

```
SELECT * FROM shempserver.data_raw LIMIT 1000000;
```

Hit the floppy disk button on the result set table to export data as CSV file.

Management | Schemas

SQL File 1 × | SQL File 2 × | SQL File 3* ×

SCHEMAS

Filter objects

- information_schema
- my_wiki
- performance_schema
- phpmyadmin
- scratch
- shempserver
  - Tables
    - cell_carriers
    - data_raw
    - data_smoothed_day
    - data_smoothed_hour
    - data_smoothed_minute
    - data_smoothed_month
    - data_smoothed_second
    - data_smoothed_year
    - devices
    - relays
    - sensors
    - sensor_types

Object Info | Session

Schema: shempserver

```
1
2  •   SELECT * FROM shempserver.data_raw LIMIT 1000000;
```

100% | 49:2

Result Grid | Filter Rows: | Export:

Export recordset to an external file

sensor_id	data	microstamp	device_microst...
52	33.4	14161954292...	14161954292...
51	70.785	14161954303...	14161954303...
52	33.4	14161954342...	14161954342...
51	70.125	14161954353...	14161954353...
52	33.3	14161954392...	14161954392...
51	69.63	14161954403...	14161954403...
52	33.4	14161954442...	14161954442...
51	68.31	14161954453...	14161954453...
52	33.7	14161954492...	14161954492...
51	67.65	14161954503...	14161954503...
50	-24	14161954531...	14161954531...
50	-20	14161954531...	14161954531...
50	-22	14161954531...	14161954531...
50	-26	14161954531...	14161954531...
50	-24	14161954531...	14161954531...
50	-20	14161954531...	14161954531...
50	-21	14161954531...	14161954531...
50	-8	14161954531...	14161954531...

data_raw 3

Read Only

Action Output

	Time	Action	Response	Duration / Fetch Time
✓ 1	14:19:42	SELECT * FROM shempserver.data_raw LIMIT 1000000	7736 row(s) returned	0.040 sec / 0.408 sec

Query Completed

```
SELECT * FROM shempserver.data_raw LIMIT 1000000;
```