



**Friends of
Smithgall Woods**

phpMyAdmin

User Guide

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UGA MBT Capstone Project

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Introduction

The purpose of this document is to give guidance to the administrator on using the phpMyAdmin interface available on the 1and1.com site to manage the FSGW database.

phpMyAdmin is a free software tool written in PHP that is intended to handle the administration of MySQL over the World Wide Web. phpMyAdmin supports a wide range of operations with MySQL. The most frequently used operations are supported by the user interface (managing databases, tables, fields, relations, indexes, users, permissions, etc.), while you still have the ability to directly execute any SQL statement.

Through the phpMyAdmin Control Panel, you can

- browse and drop tables, views, fields, and indexes
- create, copy, drop, rename and alter tables, fields, and indexes
- execute, edit and bookmark any SQL-statement, even batch-queries
- manage MySQL users and privileges
- manage stored procedures and triggers

Refer to these sites for more information concerning phpMyAdmin:

http://www.phpmyadmin.net/home_page/docs.php

http://wiki.phpmyadmin.net/pma/Welcome_to_phpMyAdmin_Wiki

The database for the volunteer and friends information that is accessible by the Volunteer Application and Admin Tool Box is called FSGWData. To access the database, log in to the 1and1.com Control Panel. On the left-side menu bar of the control panel, click on “MySQL Database.”

The Database

There are two databases that are associated with the site:

- WordPress database called Fresh root WP install (db360322876)
- MySQL database that stores the friends and volunteer profile and hours information called FSGWData (db358933030)

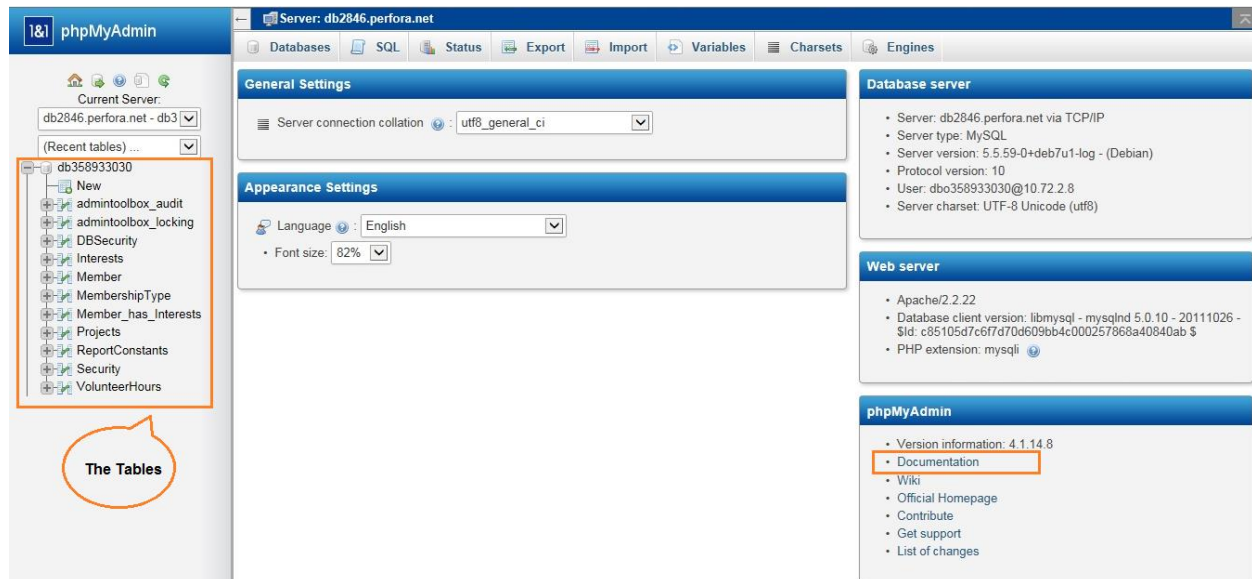
Click on the “Open” link under phpMyAdmin column of MySQL Database to access the database administration utilities.

The screenshot shows the 1&1 Control Panel interface. On the left, a sidebar menu lists various services, with 'MySQL Database' highlighted and a red arrow pointing to it. The main content area displays a table of databases. The table has four columns: 'Database', 'Storage', 'phpMyAdmin', and 'Actions'. The 'FSGWData' database is highlighted with a red arrow pointing to its 'Open' link in the 'phpMyAdmin' column.

Database	Storage	phpMyAdmin	Actions
db265662256 login and hours database	100 of 100 MB available	Open Bookmark	
db268336715 calendardb	100 of 100 MB available	Open Bookmark	
db357026991 FSGW	100 of 100 MB available	Open Bookmark	
db358933030 FSGWData	99 of 100 MB available	Open Bookmark	
db360322876 Fresh root WP install	98 of 100 MB available	Open Bookmark	

The Tables

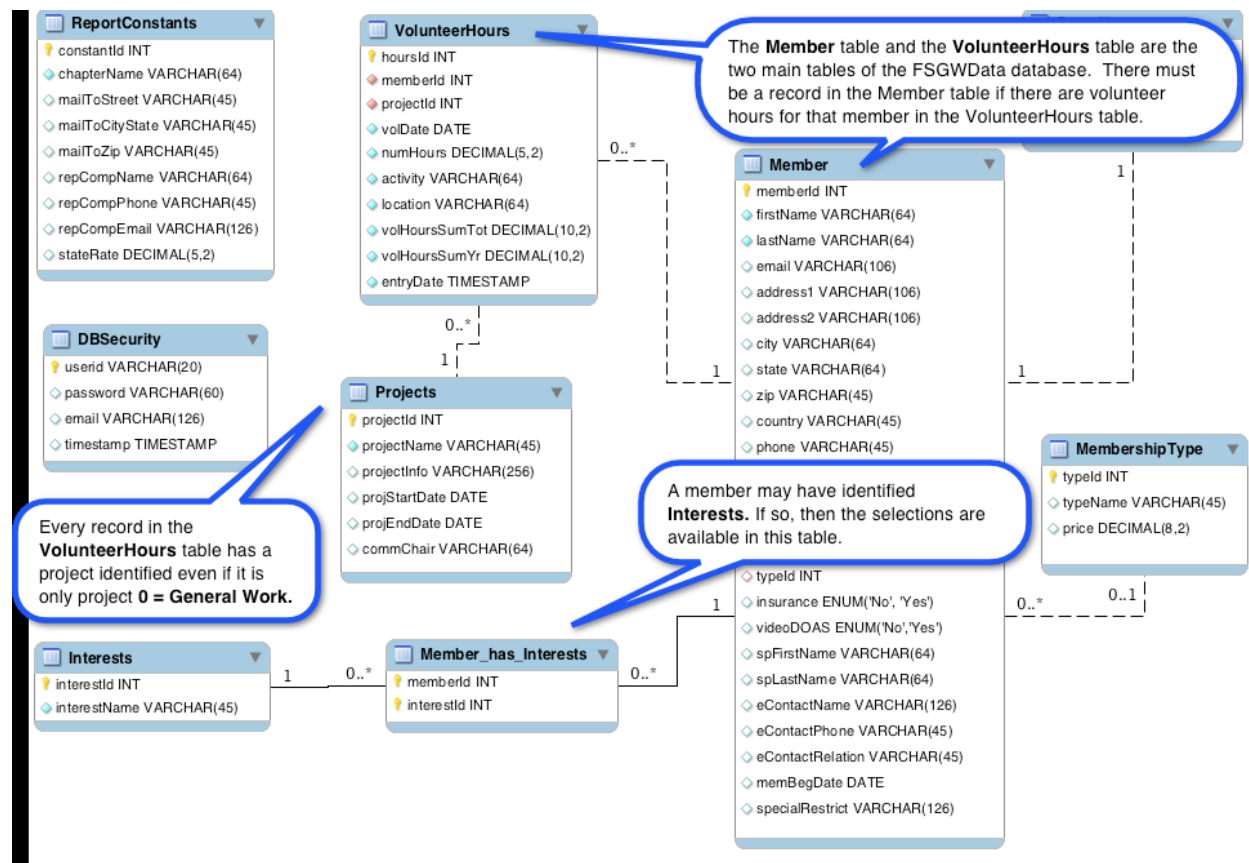
Inside phpMyAdmin, you will see the information about the configuration of the database and a listing of the database tables. By clicking on one of the table names, you can access the information pertaining to that table.



A brief description of the tables is noted below. For more detailed information of the tables and their data fields, please refer to the Data Dictionary in Appendix B.

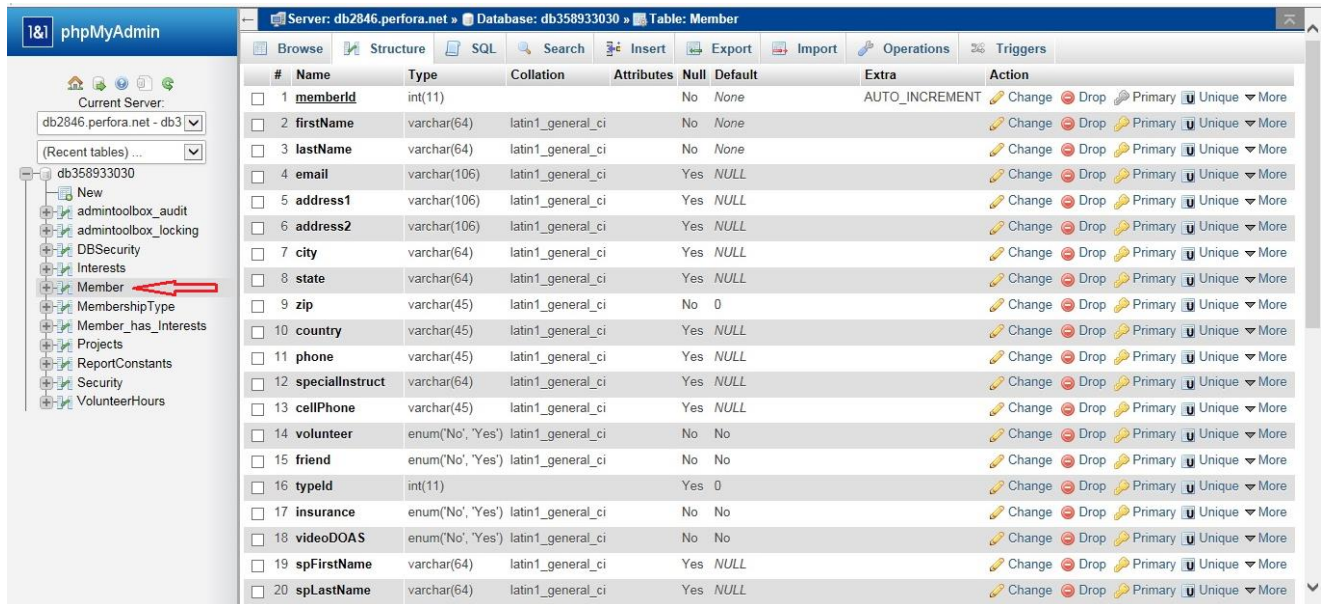
Table Name	Description
admintoolbox_audit	A table that stores the log file data tracked by the Admin Tool Box
admintoolbox_locking	A table that stores the locking info used to lock tables while editing
DBSecurity	Username, encrypted passwords and emails for Admin Tool Box
Interests	14 areas of interest defined by FSGW that volunteers can identify
Member	Main table with the profile information of the friends and volunteers
MembershipType	Friends of Georgia State Parks membership levels
Member_has_Interests	Many-to-many relationship of members and their interests
Projects	A listing of projects as defined by FSGW
ReportConstants	Listing of report constants to be used for reports submitted to the State. <i>Currently not used.</i>
Security	Username, encrypted passwords and emails for Volunteer App
VolunteerHours	Volunteer activities for Smithgall Woods and Hardman Farm

When working with the tables and reports, it is important to understand the relationship between the database tables or entities. By reviewing the data model, you can understand the information stored in the database. For a copy of the data model with no notations, please refer to Appendix A.



phpMyAdmin Utilities

When you click on the table name (i.e. Member), a listing of the table elements is provided in a window with various tabs. The “Structure” tab lists the table elements and their details. You can also modify the elements through this window by the Action buttons.



The screenshot displays the phpMyAdmin interface. On the left, the database navigation tree shows the 'Member' table selected under the 'db358933030' database. The main panel shows the 'Structure' tab for the 'Member' table. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	memberId	int(11)		No	None		AUTO_INCREMENT	Change Drop Primary Unique More
2	firstName	varchar(64)	latin1_general_ci	No	None			Change Drop Primary Unique More
3	lastName	varchar(64)	latin1_general_ci	No	None			Change Drop Primary Unique More
4	email	varchar(106)	latin1_general_ci	Yes	NULL			Change Drop Primary Unique More
5	address1	varchar(106)	latin1_general_ci	Yes	NULL			Change Drop Primary Unique More
6	address2	varchar(106)	latin1_general_ci	Yes	NULL			Change Drop Primary Unique More
7	city	varchar(64)	latin1_general_ci	Yes	NULL			Change Drop Primary Unique More
8	state	varchar(64)	latin1_general_ci	Yes	NULL			Change Drop Primary Unique More
9	zip	varchar(45)	latin1_general_ci	No	0			Change Drop Primary Unique More
10	country	varchar(45)	latin1_general_ci	Yes	NULL			Change Drop Primary Unique More
11	phone	varchar(45)	latin1_general_ci	Yes	NULL			Change Drop Primary Unique More
12	specialInstruct	varchar(64)	latin1_general_ci	Yes	NULL			Change Drop Primary Unique More
13	cellPhone	varchar(45)	latin1_general_ci	Yes	NULL			Change Drop Primary Unique More
14	volunteer	enum('No', 'Yes')	latin1_general_ci	No	No			Change Drop Primary Unique More
15	friend	enum('No', 'Yes')	latin1_general_ci	No	No			Change Drop Primary Unique More
16	typeld	int(11)		Yes	0			Change Drop Primary Unique More
17	insurance	enum('No', 'Yes')	latin1_general_ci	No	No			Change Drop Primary Unique More
18	videoDOAS	enum('No', 'Yes')	latin1_general_ci	No	No			Change Drop Primary Unique More
19	spFirstName	varchar(64)	latin1_general_ci	Yes	NULL			Change Drop Primary Unique More
20	spLastName	varchar(64)	latin1_general_ci	Yes	NULL			Change Drop Primary Unique More

Tab Definitions

1. Browse – Change or Delete a record

The “Browse” tab will be the most used tab by admin support. Information stored in the database may need to be changed or deleted. *NOTE: A record in the Member table cannot be deleted without first deleting any associated records in the Security, VolunteerHours, and Interests tables. Delete with caution since the Volunteer Hour information will no longer be available once deleted from the table.*

Server: MySQL 3306 » Database: db358933030 » Table: member

Showing rows 0 - 1 (2 total, Query took 0.0000 seconds.)

SELECT * FROM `member`

Profiling [Edit inline] [Edit] [Explain SQL]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

By selecting a record, you can modify its contents

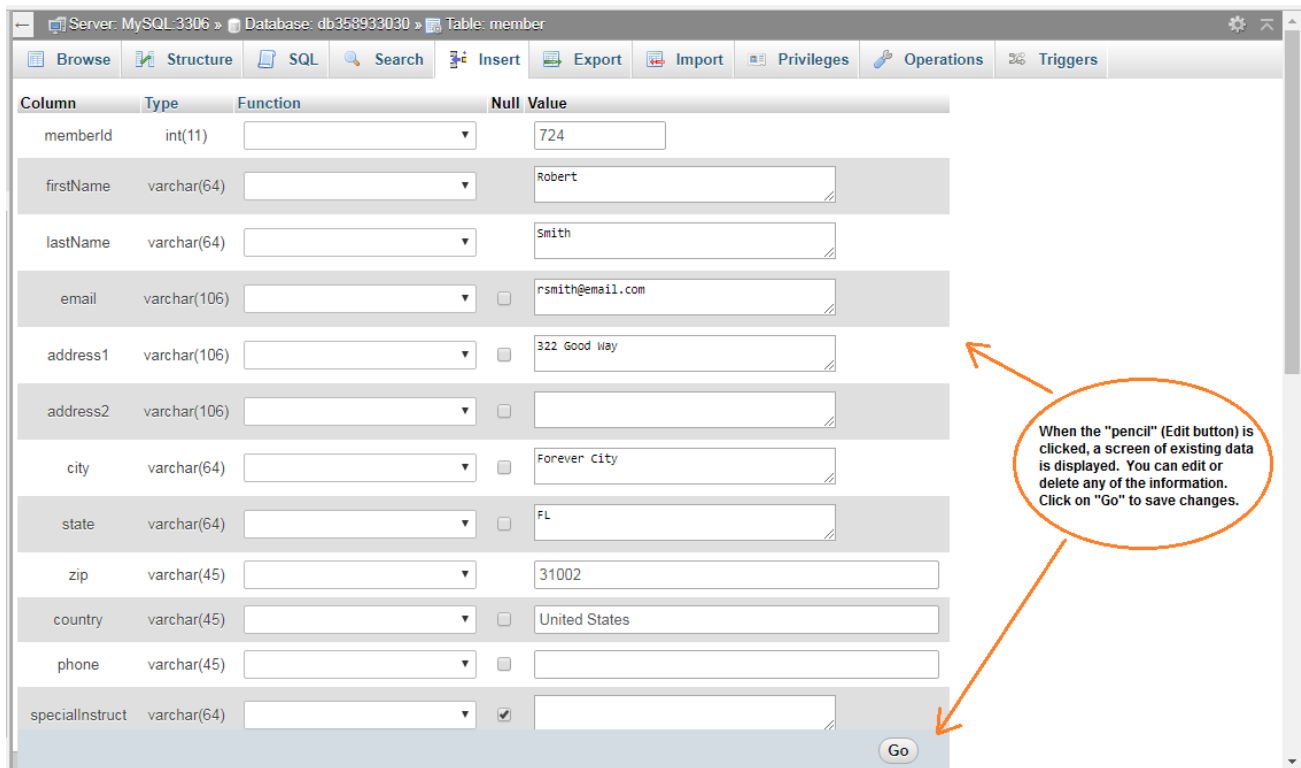
	memberId	firstName	lastName	email	address1	address2	city	state	zip	country	phone	specialInstruct	cellPhone
<input checked="" type="checkbox"/>	724	Robert	Smith	rsmith@email.com	322 Good Way		Forever City	FL	31002	United States		NULL	
<input type="checkbox"/>	725	Jane	Davis	jdavis@email.com	123 Nice Street		New City	TX	91210	United States		NULL	

Check all | With selected: Edit Copy Delete Export

Once the row(s) have been checked, you can click on these action buttons:

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

When the “pencil” (Edit link) is clicked, a screen with the field contents for that record is displayed. You can change the information or delete the information from the screen. When all changes are complete, click on “Go” to save your changes.



Server: MySQL:3306 » Database: db358933030 » Table: member

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Column	Type	Function	Null	Value
memberId	int(11)			724
firstName	varchar(64)			Robert
lastName	varchar(64)			Smith
email	varchar(106)		<input type="checkbox"/>	rsmith@email.com
address1	varchar(106)		<input type="checkbox"/>	322 Good Way
address2	varchar(106)		<input type="checkbox"/>	
city	varchar(64)		<input type="checkbox"/>	Forever City
state	varchar(64)		<input type="checkbox"/>	FL
zip	varchar(45)			31002
country	varchar(45)		<input type="checkbox"/>	United States
phone	varchar(45)		<input type="checkbox"/>	
specialInstruct	varchar(64)		<input checked="" type="checkbox"/>	

Go

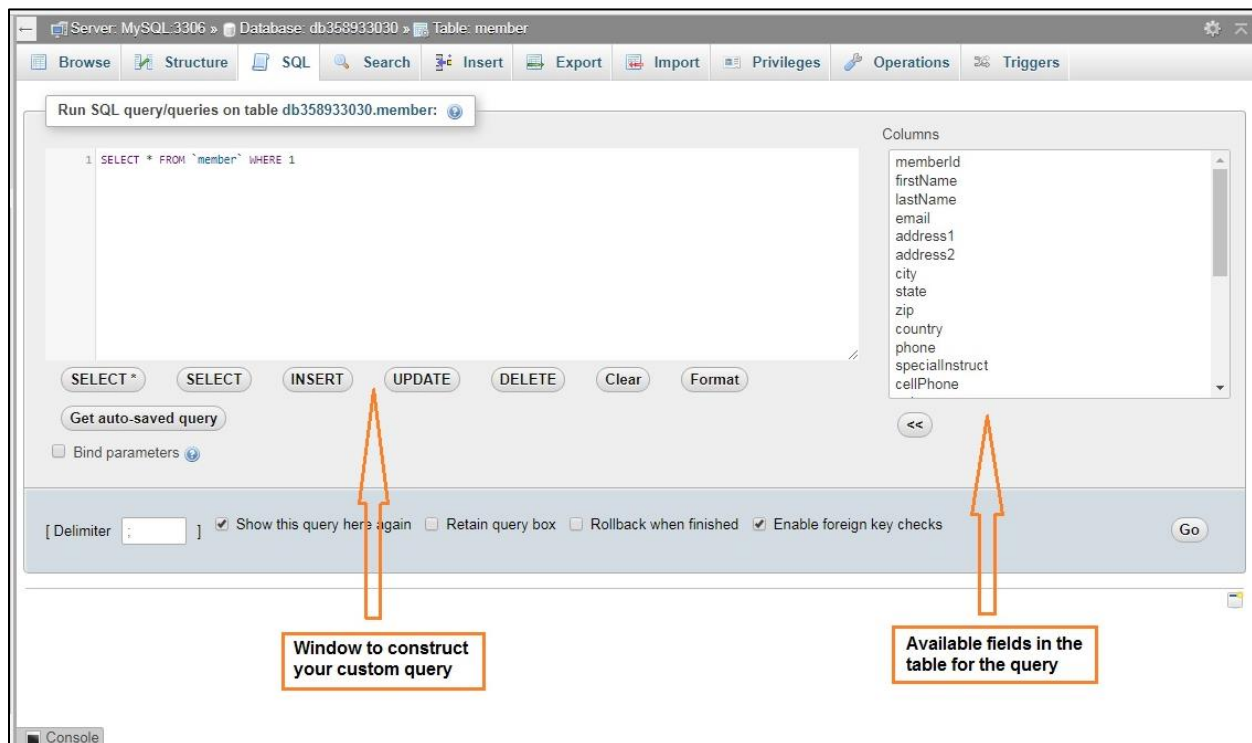
When the "pencil" (Edit button) is clicked, a screen of existing data is displayed. You can edit or delete any of the information. Click on "Go" to save changes.

2. Structure – Change or Drop an element definition

Changing or dropping a table element is *NOT recommended* since the Volunteer App code and the Admin Tool Box configurations are defined using this table structure and the field definitions. If these table elements change, the Volunteer App and Admin Tool Box may no longer work.

3. SQL – Window for adhoc SQL queries

The SQL tab provides a window for custom or adhoc queries. The window lists the available fields in the table for selection.



4. Search

Search provides an easy to use menu to search the table for specific values. All fields are available for search. This will be a useful tab when trying to find a specific record in a large table like Member with over 200 records.

Server: MySQL:3306 » Database: db358933030 » Table: member

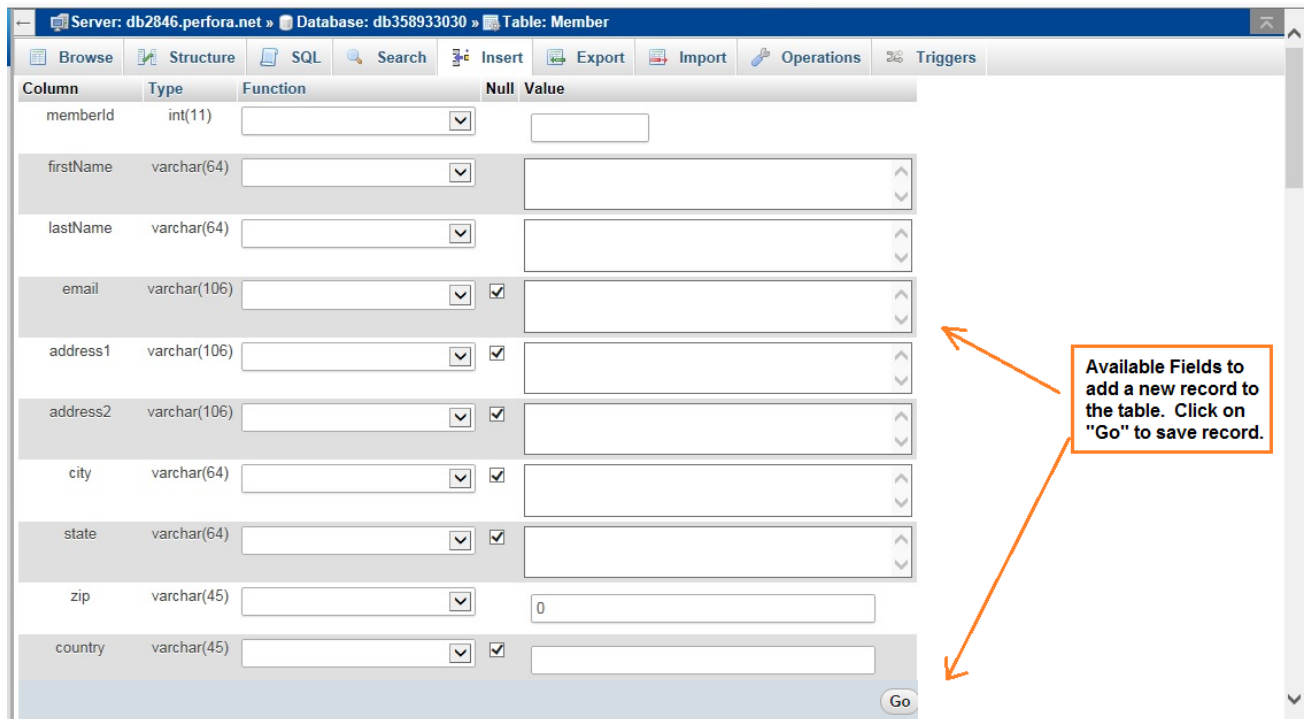
Table search Zoom search Find and replace

Do a "query by example" (wildcard: "%")

Column	Type	Collation	Operator	Value
memberId	int(11)		=	
firstName	varchar(64)	latin1_general_ci	LIKE	
lastName	varchar(64)	latin1_general_ci	LIKE	
email	varchar(106)	latin1_general_ci	LIKE	
address1	varchar(106)	latin1_general_ci	LIKE	
address2	varchar(106)	latin1_general_ci	LIKE	
city	varchar(64)	latin1_general_ci	LIKE	
state	varchar(64)	latin1_general_ci	LIKE	
zip	varchar(45)	latin1_general_ci	LIKE	
country	varchar(45)	latin1_general_ci	LIKE	
phone	varchar(45)	latin1_general_ci	LIKE	

5. Insert

The Insert tab provides an easy to use menu to add a new record to the table. The fields that are required are noted by not having the Null column checked. Fields that have predefined defaults are already filled in.



Server: db2846.perfora.net » Database: db358933030 » Table: Member

Browse Structure SQL Search Insert Export Import Operations Triggers

Column	Type	Function	Null	Value
memberId	int(11)		<input type="checkbox"/>	
firstName	varchar(64)		<input type="checkbox"/>	
lastName	varchar(64)		<input type="checkbox"/>	
email	varchar(106)		<input checked="" type="checkbox"/>	
address1	varchar(106)		<input checked="" type="checkbox"/>	
address2	varchar(106)		<input checked="" type="checkbox"/>	
city	varchar(64)		<input checked="" type="checkbox"/>	
state	varchar(64)		<input checked="" type="checkbox"/>	
zip	varchar(45)		<input type="checkbox"/>	0
country	varchar(45)		<input checked="" type="checkbox"/>	

Go

Available Fields to add a new record to the table. Click on "Go" to save record.

6. Export

Server: db2846.perfora.net » Database: db358933030 » Table: Member

Browse Structure SQL Search Insert Export Import Operations Triggers

Exporting rows from "Member" table

Export Method:

☒ Quick - display only the minimal options
☐ Custom - display all possible options

Format:

SQL

Go

- CodeGen
- CSV
- CSV for MS Excel
- Microsoft Word 2000
- JSON
- LaTeX
- MediaWiki Table
- OpenDocument Spreadsheet
- OpenDocument Text
- PDF
- PHP array
- SQL**
- Texyl text
- XML
- YAML

Export allows you an easy method to export to Excel. Or, you can choose from the available formats.

7. Import

Server: MySQL:3306 » Database: db358933030 » Table: member

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Importing into the table "member"

File to import:

File may be compressed (gzip, bzip2, zip) or uncompressed.
A compressed file's name must end in `.[format].[compression]`. Example: `.sql.zip`

Browse your computer: **Choose File** No file chosen (Max: 128MiB)

You may also drag and drop a file on any page.

Character set of the file: utf-8

Partial import:

☒ Allow the interruption of an import in case the script detects it is close to the PHP timeout limit. (This might be a good way to import large files, however it can break transactions.)

Skip this number of queries (for SQL) starting from the first one: 0

Other options:

☒ Enable foreign key checks

Go

Console

You can import an Excel file or SQL into the selected table from your computer by clicking on the Choose File button. Click on "Go" to start import.

8. Operations

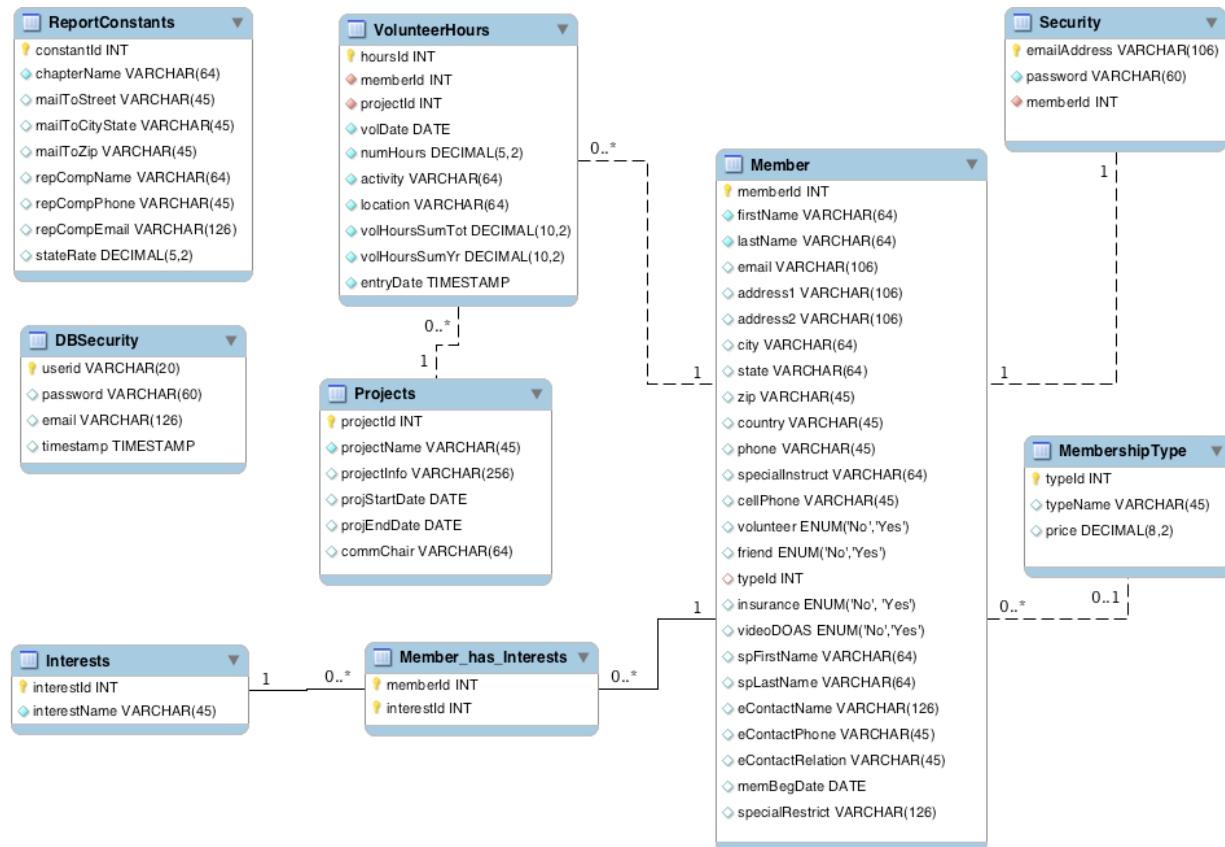
Operations tab provides the following table maintenance functions:

- Rename
- Copy
- Move
- Defragment
- Delete

The screenshot shows the MySQL Operations tab for a table named 'Member' in the 'db358933030' database. The interface includes several panels for table maintenance:

- Move table to (database,table):** A panel with a dropdown menu showing 'db358933030' and a text field containing 'Member'. Below it is a checkbox labeled 'Add AUTO_INCREMENT value' which is checked. A 'Go' button is at the bottom right.
- Table options:** A central panel with fields for 'Rename table to' (containing 'Member'), 'Table comments', 'Storage Engine' (set to 'InnoDB'), 'Collation' (set to 'latin1_general_ci'), 'AUTO_INCREMENT' (set to '718'), and 'ROW_FORMAT' (set to 'COMPACT'). A 'Go' button is at the bottom right.
- Copy table to (database,table):** A panel with a dropdown menu showing 'db358933030' and a text field containing 'Member'. Below it are radio buttons for 'Structure only', 'Structure and data' (selected), and 'Data only'. There are also checkboxes for 'Add DROP TABLE', 'Add AUTO_INCREMENT value', 'Add constraints', and 'Switch to copied table'. A 'Go' button is at the bottom right.
- Table maintenance:** A panel on the right with links for 'Check table', 'Defragment table', 'Analyze table', 'Optimize table', and 'Flush the table (FLUSH)'.
- Delete data or table:** A panel at the bottom left with links for 'Empty the table (TRUNCATE)' and 'Delete the table (DROP)'.

Appendix A: FSGW Data Model



Appendix B: FSGW Data Dictionary

FSGW - Data Dictionary

As of May 1, 2011

Table - admintoolbox_audit

admintoolbox_audit	System generated table to manage the table modification log file information					
Data Member Name	Description	Type	Additional Type Information	Default Value	Mandatory?	Unique?
id	Primary key	Integer	auto-increment	not null	Yes	Yes
datetime	Date and time of the entry	datetime		not null	Yes	No
ip	ip address of the user	Character	min:1, max:15	not null	Yes	No
user	Userid of the user modifying the table	Character	min:1, max:250	null	No	No
table	Name of table being modified	Character	min:1, max:250	null	No	No
action	Action applied to table	Character	min:1, max:250	not null	Yes	No
description	Description of the action	longtext		null	No	No

Table - admintoolbox_locking

admintoolbox_locking	System generated table to manage table locking while editing					
Data Member Name	Description	Type	Additional Type Information	Default Value	Mandatory?	Unique?
id	Primary key	Integer	auto-increment	not null	Yes	Yes
table	Name of table being modified	Character	min:1, max:250	not null	Yes	No
startdatetime	Starting date and time of the locking	datetime		not null	Yes	No

FSGW Data Dictionary - Interests

Interests	Fourteen (14) interests that SmithGall Woods tracks from their Friends and volunteers					
Data Member Name	Description	Type	Additional Type Information	Default Value	Mandatory?	Unique?
interestId	Primary key of the table	Integer	auto-increment		Yes	Yes
interestName	The name of the interest	Character	min:1, max:45	null	No	No

Table - DBSecurity

DBSecurity	The userid and password of admin accessing the Admin Tool Box					
Data Member Name	Description	Type	Additional Type Information	Default Value	Mandatory?	Unique?
userid	Signon for the Admin Tool Box	Character	min:1, max:20	null	Yes	Yes
password	Encrypted password set by admin	Character	max: 60 (always)	null	Yes	Yes
email	Email address of the user	Character	min:1, max:126	null	Yes	Yes
timestamp	The timestamp the record was entered	Timestamp		Now	Yes	No

FSGW Data Dictionary - Member

Member	Information regarding Friends and Volunteers of the Friends of SmithGall Woods chapter. There can be a "member" in the Member table with no volunteer hours, but there cannot be volunteer hours for someone not represented in the Member table.					
Data Member Name	Description	Type	Additional Type Information	Default Value	Mandatory?	Unique?
memberId	Unique Primary Key for the Member Table	Integer	auto-increment		Yes	Yes
firstName	First name of the friend/volunteer	Character	min:1, max:64	not null	Yes	No
lastName	Last name of the friend/volunteer	Character	min:1, max:64	not null	Yes	No
email	Email address of the friend/volunteer	Character	min:1, max:106	not null	Yes	No
address1	First line of the mailing address	Character	min:1, max:106	null	No	No
address2	Second line of the mailing address	Character	min:1, max:106	null	No	No
city	City of the mailing address	Character	min:1, max:64	null	No	No
state	State of the mailing address	Character	min:1, max:64	null	No	No
zip	Zip code of the mailing address	Character	min:1, max:45	0	Yes	No
country	Country of the mailing address	Character	min:1, max:45	null	No	No
phone	Phone number	Character	min:1, max:45	null	No	No
specialInstruct	Special Instructions - sourced from the Friends site	Character	min:1, max:45	null	No	No
cellPhone	Cell phone number	Character	min:1, max:45	null	No	No
volunteer	Does the member want to volunteer?	Enumerated	Yes, No	No	Yes	No
friend	Is the member a friend?	Enumerated	Yes, No	No	Yes	No
typeId	The type of Friend Membership	Integer	Foreign Key - MembershipType	No	No	No
insurance	Does the volunteer have insurance?	Enumerated	Yes, No	No	Yes	No
videoDOAS	Has the volunteer seen the DOAS video?	Enumerated	Yes, No	No	Yes	No
spFirstName	The first name of the spouse or partner	Character	min:1, max:64	Null	No	No
spLastName	The last name of the spouse or partner	Character	min:1, max:64	Null	No	No
eContactName	Emergency contact first and last name	Character	min:1, max:126	Null	No	No
eContactPhone	Phone number of the emergency contact	Character	min:1, max:45	null	No	No
eContactRelation	Relationship to the member of the emergency contact	Character	min:1, max:45	null	No	No
memBegDate	Date the member became a friend	Date	YYYY-MM-DD	null	No	No
specialRestrict	Special restrictions concerning the member	Character	min:1, max:126	null	No	No
timestamp	Current time	Timestamp		Now	No	No

FSGW Data Dictionary - MembershipType

MembershipType	The types of memberships available from the Friends of Georgia State Parks					
Data Member Name	Description	Type	Additional Type Information	Default Value	Mandatory?	Unique?
typeId	Unique Primary Key for the MembershipType table	Integer	Primary key	0 = No membership	Yes	Yes
typeName	The name of the membership type	Character	min:1, max:45	null	No	No
price	The price of the membership	Decimal	min:0.00, max:999999.99	null	No	No

FSGW Data Dictionary - Member_has_Interests

Member_has_Interests	A many-to-many relationship table representing members and their interests					
Data Member Name	Description	Type	Additional Type Information	Default Value	Mandatory?	Unique?
memberId	MemberId of the member with the Interest	Integer	Foreign Key: Member	null	Yes	No
interestId	The interestId of the Interest the member has noted	Integer	Foreign Key: Interests	null	Yes	No

FSGW Data Dictionary - Projects

Projects	Volunteer projects at SmithGail Woods					
Data Member Name	Description	Type	Additional Type Information	Default Value	Mandatory?	Unique?
projectId	Primary key of the Projects table	Integer	auto-increment		Yes	Yes
projectName	The name of the project	Character	min:1, max:45	null	No	No
projectInfo	Description of project	Character	min:1, max:256	null	No	No
projStartDate	The date the project began	Date	YYYY-MM-DD	null	No	No
projEndDate	The date the project ended	Date	YYYY-MM-DD; default set at 2099-12-31 so only active projects are displayed	12/31/99	Yes	No
commChair	The committee chair	Character	min:1, max:64	null	No	No

FSGW Data Dictionary - ReportConstants

ReportConstants	The information required on the cover page of the report to the Friends of Georgia State Parks					
Data Member Name	Description	Type	Additional Type Information	Default Value	Mandatory?	Unique?
constantId	Primary key of the ReportConstants table	Integer	auto-increment		Yes	Yes
chapterName	The name of the Friends chapter	Character	min:1, max:64	null	No	No
mailToName	Chapter Secretary's name	Character	min:1, max:64	null	No	No
mailToStreet	Chapter Secretary's street	Character	min:1, max:126	null	No	No
mailToCityState	Chapter Secretary's City and State	Character	min:1, max:64	null	No	No
mailToZip	Chapter Secretary's zip code	Character	min:1, max:45	null	No	No
repCompName	Name of person completing report	Character	min:1, max:64	null	No	No
repCompPhone	Phone number of person completing report	Character	min:1, max:45	null	No	No
repCompEmail	Email of person completing report	Character	min:1, max:126	null	No	No
stateRate	Rate the Friends of Georgia State Parks pays for volunteer hours	Decimal	min:0.00, max:999.99	null	No	No

FSGW Data Dictionary - Security

Security						
The userid and password of members accessing the Volunteer Dashboard.						
Data Member Name	Description	Type	Additional Type Information	Default Value	Mandatory?	Unique?
emailAddress	Member sign on; email address of the member; same email address that is in Member table	Character	min:1, max:106	null	Yes	Yes
password	Encrypted password set by member	Character	max: 60 (always)	null	Yes	Yes
memberId	Unique identifier of the member in the Member table	Integer		null	Yes	Yes
timestamp	The timestamp the record was entered	Timestamp		Now	Yes	No

FSGW Data Dictionary - VolunteerHours

VolunteerHours						
Information pertaining to the volunteer hours activity at Smithgall Woods. There can be a "member" in the Member table with no volunteer hours, but there cannot be volunteer hours for someone not represented in the Member table. Additionally, there must be a corresponding project represented in the table.						
Data Member Name	Description	Type	Additional Type Information	Default Value	Mandatory?	Unique?
hoursId	Primary key of the VolunteerHours table	Integer	auto-increment		Yes	Yes
volDate	The date the volunteer activity was completed	Date	YYYY-MM-DD	null	Yes	No
numHours	The number of volunteer hours	Decimal	min:0.00, max:999.99	null	No	No
activity	The activity performed	Character	min:1, max:64	null	No	No
location	The location the activity was performed	Character	min:1, max:64	null	No	No
entryDate	The date the volunteer activity was entered; set by the system	Timestamp		null	Yes	No
memberId	The memberId of the volunteer	Integer	Foreign Key: Member Table		Yes	No
projectId	The projectId of the project the volunteer worked on. If no project, then the projectId=0 for General Work	Integer	Foreign Key: Projects Table	0 = General Work	Yes	No