



Professional Diploma in Commercial Web Design

Lesson 10

MySQL

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Agenda

- PhpMyAdmin
- CRUD

Console

```
yoichiro@127.0.0.1:3306>
show processlist
+----+----+----+----+----+----+----+
| Id | User | Host | db | Command | Time | State | Info |
+----+----+----+----+----+----+----+
| 1474 | yoichiro | localhost:53247 | mysql | Sleep | 28925 | NULL | show processlist |
| 1475 | yoichiro | localhost:53743 | mysql | Query | 8 | NULL | show processlist |
+----+----+----+----+----+----+----+
2 rows in set

yoichiro@127.0.0.1:3306>
explain select * from db
+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+
| id | select_type | table | type | possible_keys | key | key_len | ref | rows | Extra |
+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+
| 1 | SIMPLE | db | ALL | NULL | NULL | NULL | NULL | 2 | |
+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+
1 rows in set

yoichiro@127.0.0.1:3306>
select * from db
+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+
| Host | Db | User | Select_priv | Insert_priv | Update_priv | Delete_priv | Create_priv | Drop_priv | Grant_priv | References_priv |
| index_priv | Alter_priv | Create_tmp_table_priv | Lock_tables_priv | Create_view_priv | Show_view_priv | Create_routine_priv | Alter_routine_priv | Execute_priv | Event_priv | Trigger_priv |
+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+
| X | test | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | N | Y | N |
| N | test\X | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | N | Y | N |
| X | test\X | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | N | Y | N |
| N | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | N | Y | N |
+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+
2 rows in set

Please input command or query ('help' for more information).
```

No more console

- Hard to learn all syntax
- Typing error
- Hard to edit
- Screen size limit
- Not a real life usage

PhpMyAdmin

- phpMyAdmin is a free software tool written in PHP, intended to handle the administration of MySQL over the Web.
- phpMyAdmin supports a wide range of operations on MySQL and MariaDB.
- Frequently used operations (managing databases, tables, columns, relations, indexes, users, permissions, etc) can be performed via the user interface, while you still have the ability to directly execute any SQL statement.

PhpMyAdmin login

- AppServe: localhost:8080/phpmyadmin
- AppServe: root / password
- XAMPP: localhost/phpmyadmin
- XAMPP: root / (no password)

The AppServ Open Project - 8.6.0 for Windows Now you running on PHP 5.6.30

 **phpMyAdmin Database Manager Version 4.6.6**
 **PHP Information Version**

[About AppServ Version 8.6.0 for Windows](#)

AppServ is a merging open source software installer package for Win

- [Apache Web Server Version 2.4.25](#)
- [PHP Script Language Version 5.6.30 & 7.1.1](#)
- [MySQL Database Version 5.7.17](#)
- [phpMyAdmin Database Manager Version 4.6.6](#)



phpMyAdmin

Welcome to phpMyAdmin

Language

English

Log in 

Username:

Password:

Go

Server: localhost

Databases SQL Status User accounts Export Import Settings Replication Variables More

General settings

Change password

Server connection collation: utf8mb4_unicode_ci

Appearance settings

Language: English

Theme: pmahomme

Font size: 82%

More settings

Database server

- Server: localhost via TCP/IP
- Server type: MySQL
- Server version: 5.7.17-log - MySQL Community Server (GPL)
- Protocol version: 10
- User: root@localhost
- Server charset: UTF-8 Unicode (utf8)

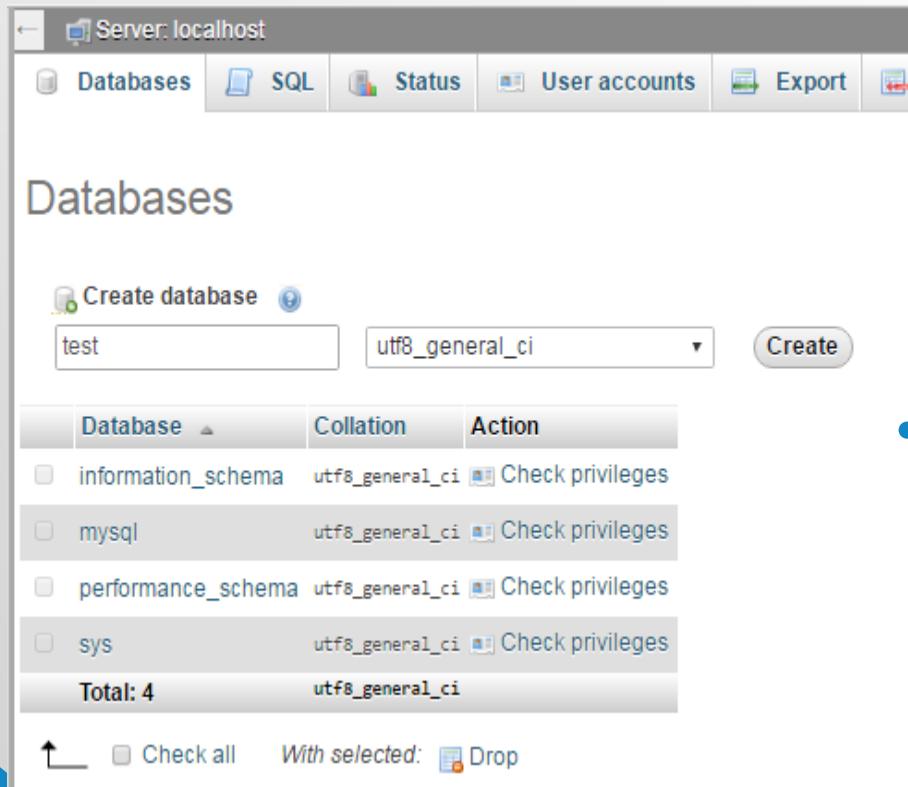
Web server

- Apache/2.4.25 (Win32) OpenSSL/1.0.2j PHP/5.6.30
- Database client version: libmysql - mysqlnd 5.0.11-dev - 20120503 - \$Id: 76b08b24596e12d4553bd41fc93cccd5bac2fe7a \$
- PHP extension: mysqli curl mbstring
- PHP version: 5.6.30

phpMyAdmin

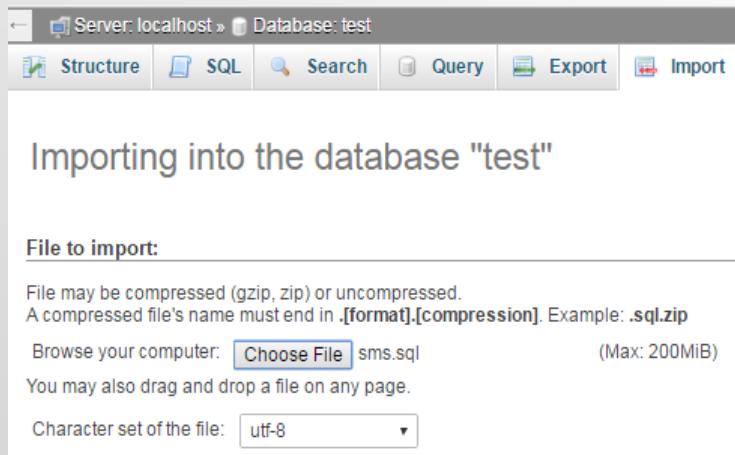
- Version information: 4.6.6
- Documentation
- Official Homepage
- Contribute
- Get support
- List of changes
- License

Database



- If no “test” database, then create one “test” database first.

Import



- Then import the sms table by Choose File “sms.sql”

Import successfully

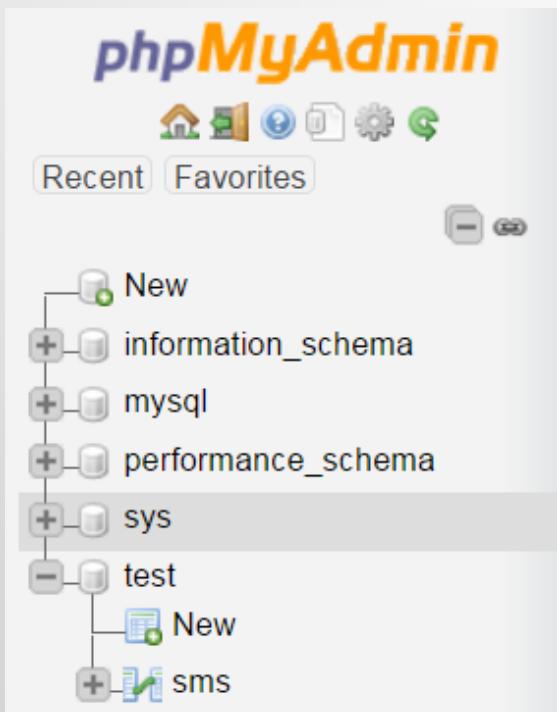


The screenshot shows the MySQL Workbench interface with the database set to 'test'. The 'Import' tab is selected. The results pane displays several green success messages indicating the import was completed successfully:

- Import has been successfully finished, 13 queries executed. (sms.sql)
- MySQL returned an empty result set (i.e. zero rows). (Query took 0.0010 seconds.)
SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO"
- MySQL returned an empty result set (i.e. zero rows). (Query took 0.0000 seconds.)
SET time_zone = "+00:00"
- MySQL returned an empty result set (i.e. zero rows). (Query took 0.0000 seconds.)
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */
- MySQL returned an empty result set (i.e. zero rows). (Query took 0.0000 seconds.)
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */
- MySQL returned an empty result set (i.e. zero rows). (Query took 0.0010 seconds.)
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */
- MySQL returned an empty result set (i.e. zero rows). (Query took 0.0000 seconds.)
/*!40101 SET NAMES utf8mb4 */

- Check means import successfully.

sms table



- Then you find the **sms** table under **test** database on the left nav bottom

Classwork

- Import the products table “products.sql”

CRUD

- Create, Read, Update and Delete
- Facebook, Whatsapp

CRUD

| Operation | SQL | User Interface |
|-----------|--------|----------------|
| Create | INSERT | New |
| Read | SELECT | Browse |
| Update | UPDATE | Edit |
| Delete | DELETE | Remove |

Open Excel file

- 1.** Turn on the computer
- 2.** Input username
- 3.** Input password
- 4.** Open the excel file

db.inc.php

- <?php
- //db.inc.php
- \$db_hostname="localhost";
- \$db_username="root";
- \$db_password="password";
- \$db_database="test";

db.inc.php

- \$mysqli=new MySQLi(\$db_hostname, \$db_username, \$db_password, \$db_database);
- if (\$mysqli->connect_errno>0){
- die(\$mysqli->connect_error);
- }
- //print_r(\$mysqli);
- ?>

db.php

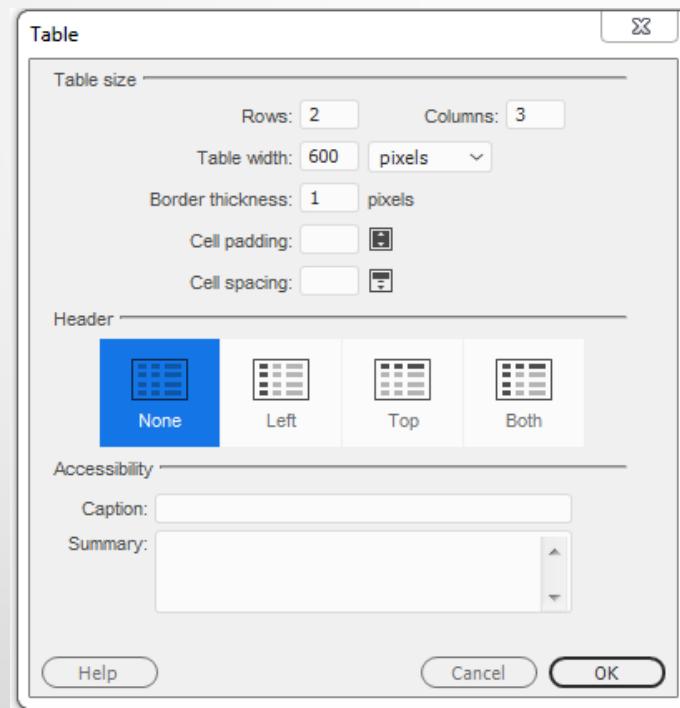
- <?php require_once('db.php'); ?>
- [...]
- <?php \$mysqli->close(); ?>

Browse

| + Options | | ← → | id | message | createdate | |
|--------------------------|--|--|--|---------|-----------------------|---------------------|
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 1 | Hi | 2016-11-21 00:00:01 |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 2 | Hello | 2016-11-21 00:00:02 |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 3 | How are you? | 2016-11-21 00:00:03 |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 4 | I am fine | 2016-11-21 00:00:04 |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 5 | Good | 2016-11-21 00:00:05 |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 6 | How about you? | 2016-11-21 00:00:06 |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 7 | I am great. | 2016-11-21 00:00:07 |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 8 | Great | 2016-11-21 00:00:08 |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 9 | Let's go dinner | 2016-11-21 00:00:09 |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 11 | What time? | 2016-11-21 00:00:11 |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 12 | 8pm? | 2017-04-05 15:38:50 |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 13 | sure. see you tonight | 2016-11-21 00:00:13 |

Read all

- Open db.php. Save as sms_readall.php
- sms_readall.php



SQL

- You can copy SQL from phpmyadmin

Read one

- sms_readone.php

Create

- sms_create.php
- sms_create_sql.php

Delete

- Open sms_readone.php, save as sms_delete.php
- sms_delete.php
- sms_delete_sql.php

Update

- Open sms_create.php, save as sms_update.php
- Add hidden field
- sms_update.php
- sms_update_sql.php

Files

- db.inc.php
- sms_readall.php
- sms_readone.php
- sms_create.php
- sms_create_sql.php
- sms_delete.php
- sms_delete_sql.php
- sms_update.php
- sms_update_sql.php
- sms.sql

Next lesson

- Bring Fevaworks notes lesson 24 and 26.

Homework

- www.zaturday.com/homework/news/

QUESTIONS