Web Security: Setting up StungEye Blog Software

RRC Polytech

Full Stack Web Development

Winnipeg, MB Canada

RRC POLYTECH

Motivation

- **Hackers are (or could be) actually good, pleasant and extremely intelligent people who could keep computer criminals on the run (run away, escaping).**

Ankit Fadia

How to setup StungEye Blog software?

Download blog software

- Download the “blog” software from the “Learn”
- Unzip the file and put in your Software folder

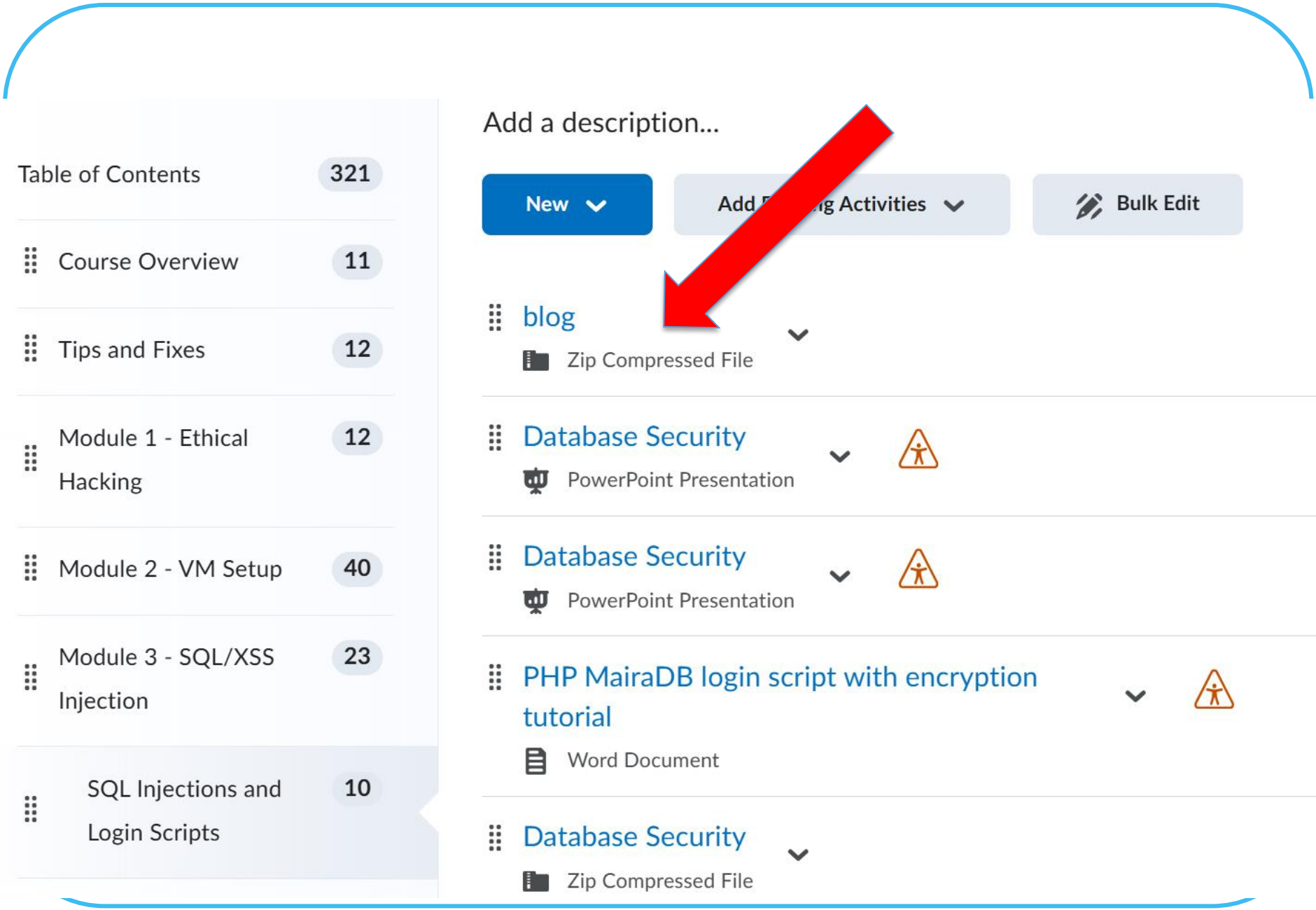
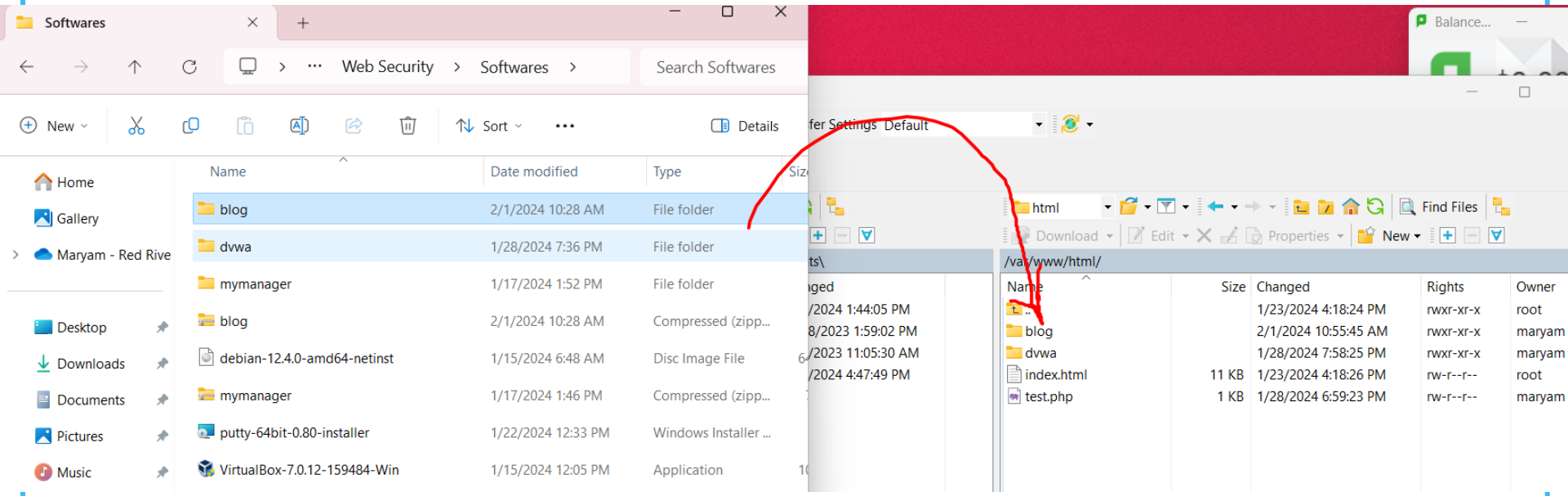
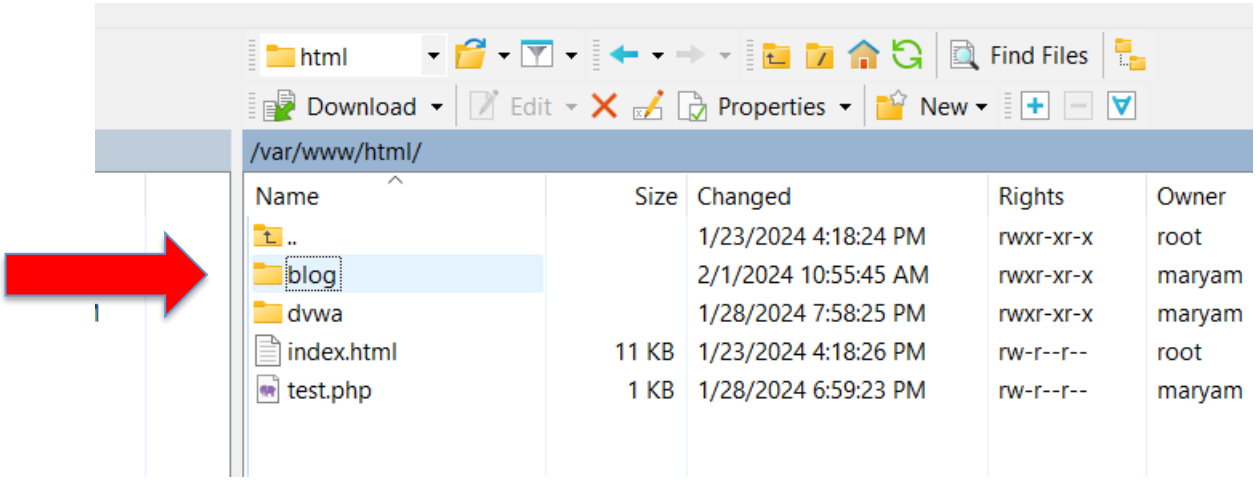


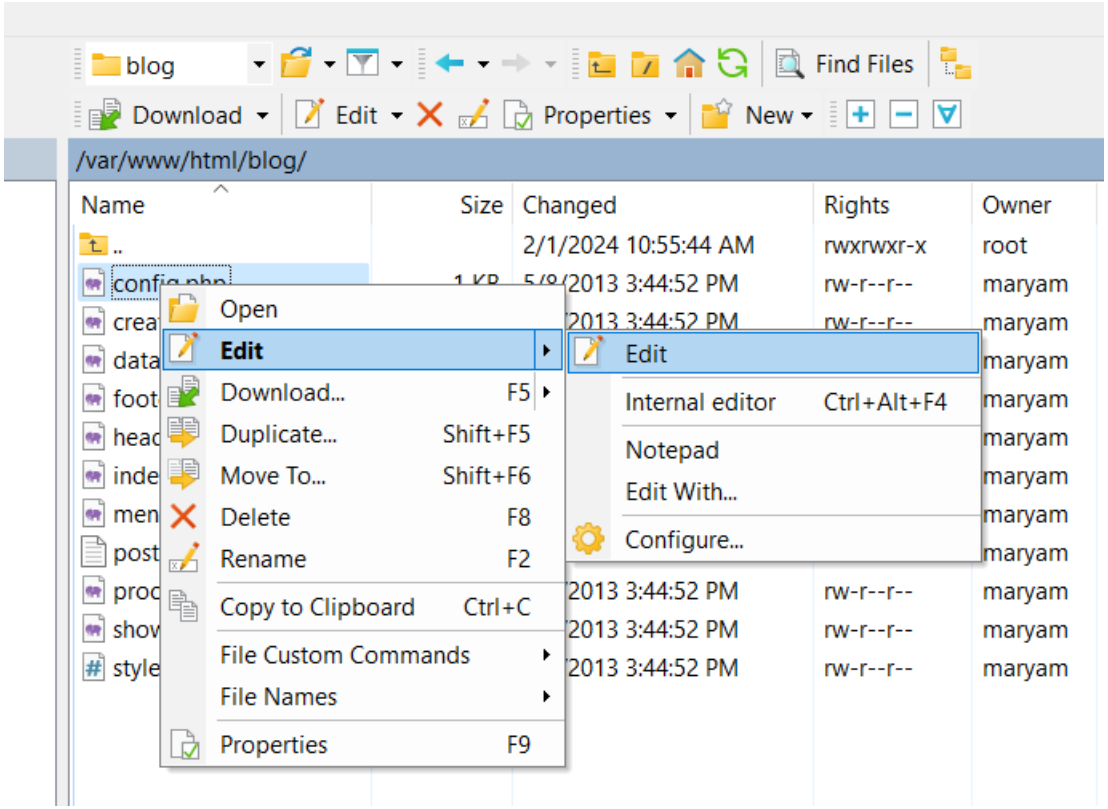
Table of Contents 321
Course Overview 11
Tips and Fixes 12
Module 1 - Ethical Hacking 12
Module 2 - VM Setup 40
Module 3 - SQL/XSS Injection 23
SQL Injections and Login Scripts 10
Add a description...
New
Bulk Edit
blog
Zip Compressed File
Database Security
PowerPoint Presentation
Database Security
PowerPoint Presentation
PHP MairaDB login script with encryption tutorial
Word Document
Database Security
Zip Compressed File

Drag the folder to WinSCP in html directory




html
Find Files
Download
Edit
Properties
New
/var/www/html/
Name
Size
Changed
Rights
Owner
..
1/23/2024 4:18:24 PM
rwxr-xr-x
root
blog
2/1/2024 10:55:45 AM
rwxr-xr-x
maryam
dvwa
1/28/2024 7:58:25 PM
rwxr-xr-x
maryam
index.html
11 KB
1/23/2024 4:18:26 PM
rw-r--r--
root
test.php
1 KB
1/28/2024 6:59:23 PM
rw-r--r--
maryam

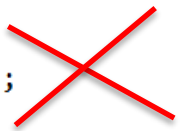
Connect blog to Debian Server



/var/www/html/blog/config.php – maryam@192.168.56.101 – Editor – WinSCP

Encoding Color

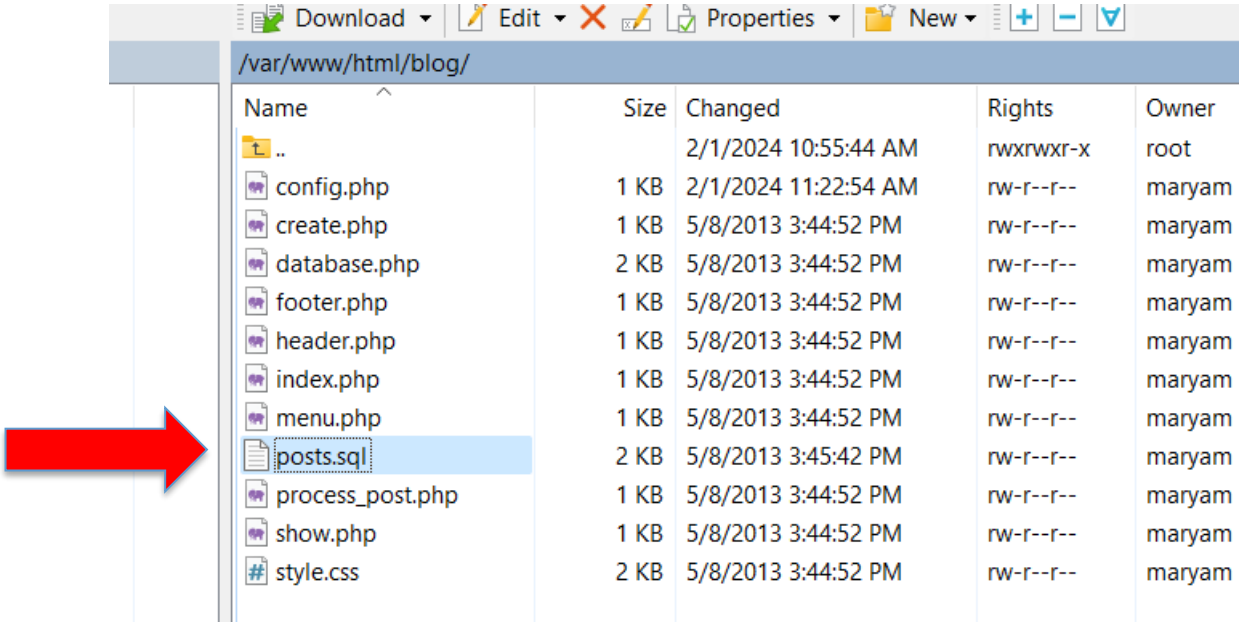
```
<?php

  define('DEBUG',true);

  if (!DEBUG) {
    error_reporting(0);
    ini_set('display_errors', 0);
    ini_set('display_startup_errors', 0);
  } else {
    error_reporting(E_ALL);
  }

  define('ADMIN_ADDRESS','blog_admin@mailinator.com');

  define('DB_HOSTNAME', 'localhost');
  define('DB_USER',     'serverside');
  define('DB_PASSWORD', 'gorgonzola7!');
  define('DB_DATABASE', 'serverside');

  define('BLOG_NAME','Stung Eye');
  define('BLOG_INDEX_NUM_POSTS',5);

  function format_mysql_datetime($datetime) {
    $time = strtotime($datetime);
    return date('F j, Y, g:i a', $time);
  }

  function redirect($script_name = 'index.php') {
    header("Location: $script_name");
    exit;
  }
?>
```



Edit and Save

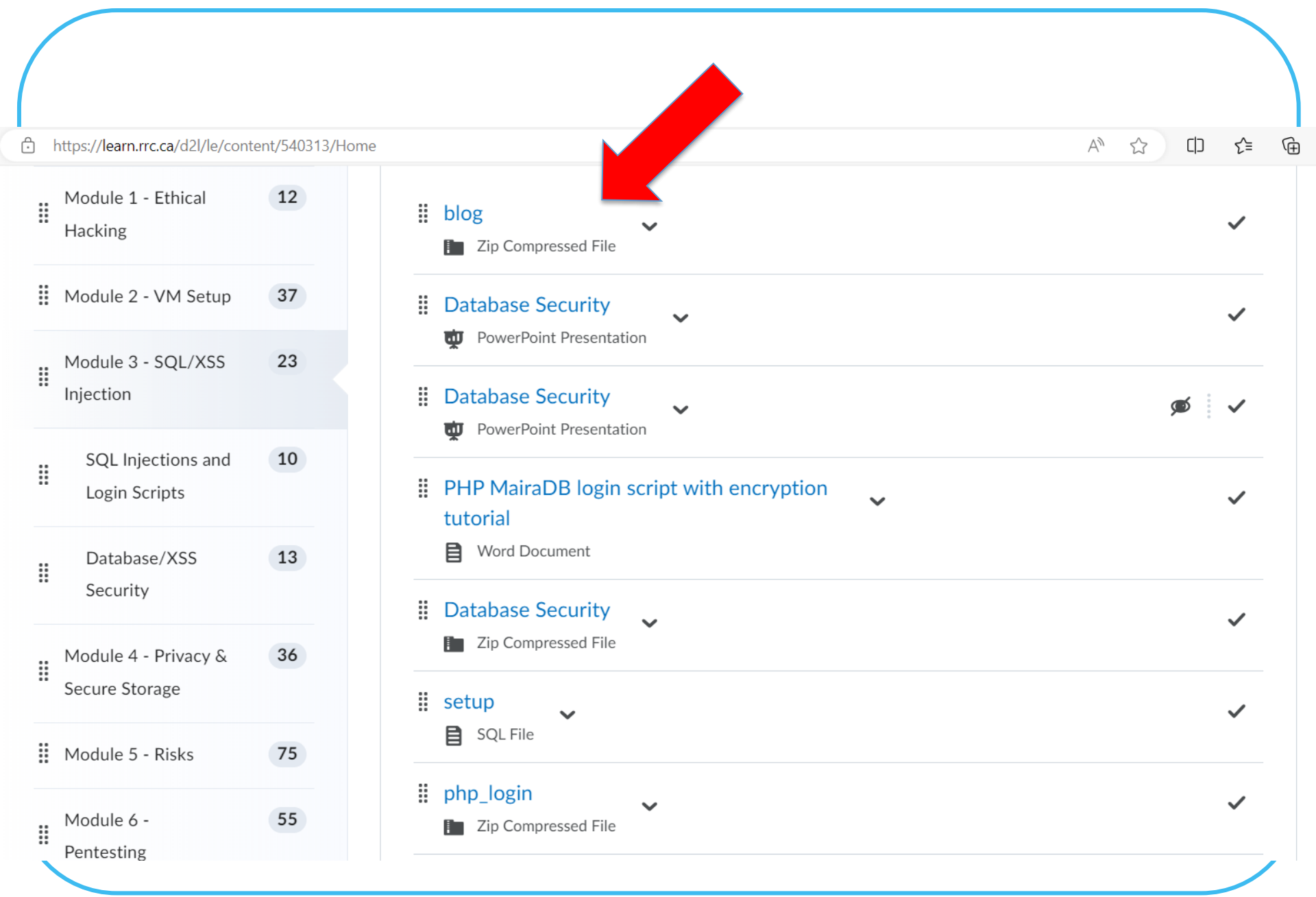
```
define('ADMIN_ADDRESS','blog_admin@mailinator.com');

define('DB_HOSTNAME', 'localhost');
define('DB_USER',     'bloguser');
define('DB_PASSWORD', 'password');
define('DB_DATABASE', 'blog');
```

It is important


Download
Edit
Properties
New
/var/www/html/blog/
Name
Size
Changed
Rights
Owner
..
2/1/2024 10:55:44 AM
rwxrwxr-x
root
config.php
1 KB
2/1/2024 11:22:54 AM
rw-r--r--
maryam
create.php
1 KB
5/8/2013 3:44:52 PM
rw-r--r--
maryam
database.php
2 KB
5/8/2013 3:44:52 PM
rw-r--r--
maryam
footer.php
1 KB
5/8/2013 3:44:52 PM
rw-r--r--
maryam
header.php
1 KB
5/8/2013 3:44:52 PM
rw-r--r--
maryam
index.php
1 KB
5/8/2013 3:44:52 PM
rw-r--r--
maryam
menu.php
1 KB
5/8/2013 3:44:52 PM
rw-r--r--
maryam
posts.sql
2 KB
5/8/2013 3:45:42 PM
rw-r--r--
maryam
process_post.php
1 KB
5/8/2013 3:44:52 PM
rw-r--r--
maryam
show.php
1 KB
5/8/2013 3:44:52 PM
rw-r--r--
maryam
style.css
2 KB
5/8/2013 3:44:52 PM
rw-r--r--
maryam

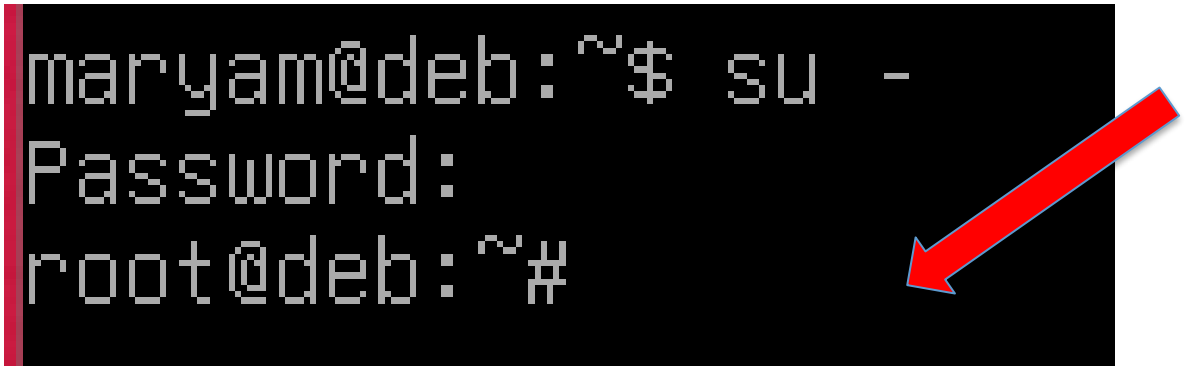
Open the ~~Word~~ File

- Download and open “PHP MairaDB login script with encryption tutorial.doc”file


https://learn.rrc.ca/d2l/le/content/540313/Home
Module 1 - Ethical Hacking 12
Module 2 - VM Setup 37
Module 3 - SQL/XSS Injection 23
SQL Injections and Login Scripts 10
Database/XSS Security 13
Module 4 - Privacy & Secure Storage 36
Module 5 - Risks 75
Module 6 - Pentesting 55
blog
Zip Compressed File
Database Security
PowerPoint Presentation
Database Security
PowerPoint Presentation
PHP MairaDB login script with encryption tutorial
Word Document
Database Security
Zip Compressed File
setup
SQL File
php_login
Zip Compressed File

Debian (or PuTTY)

- In your command type (to prompt to root password)
  - ~$ su –
  - Enter your password

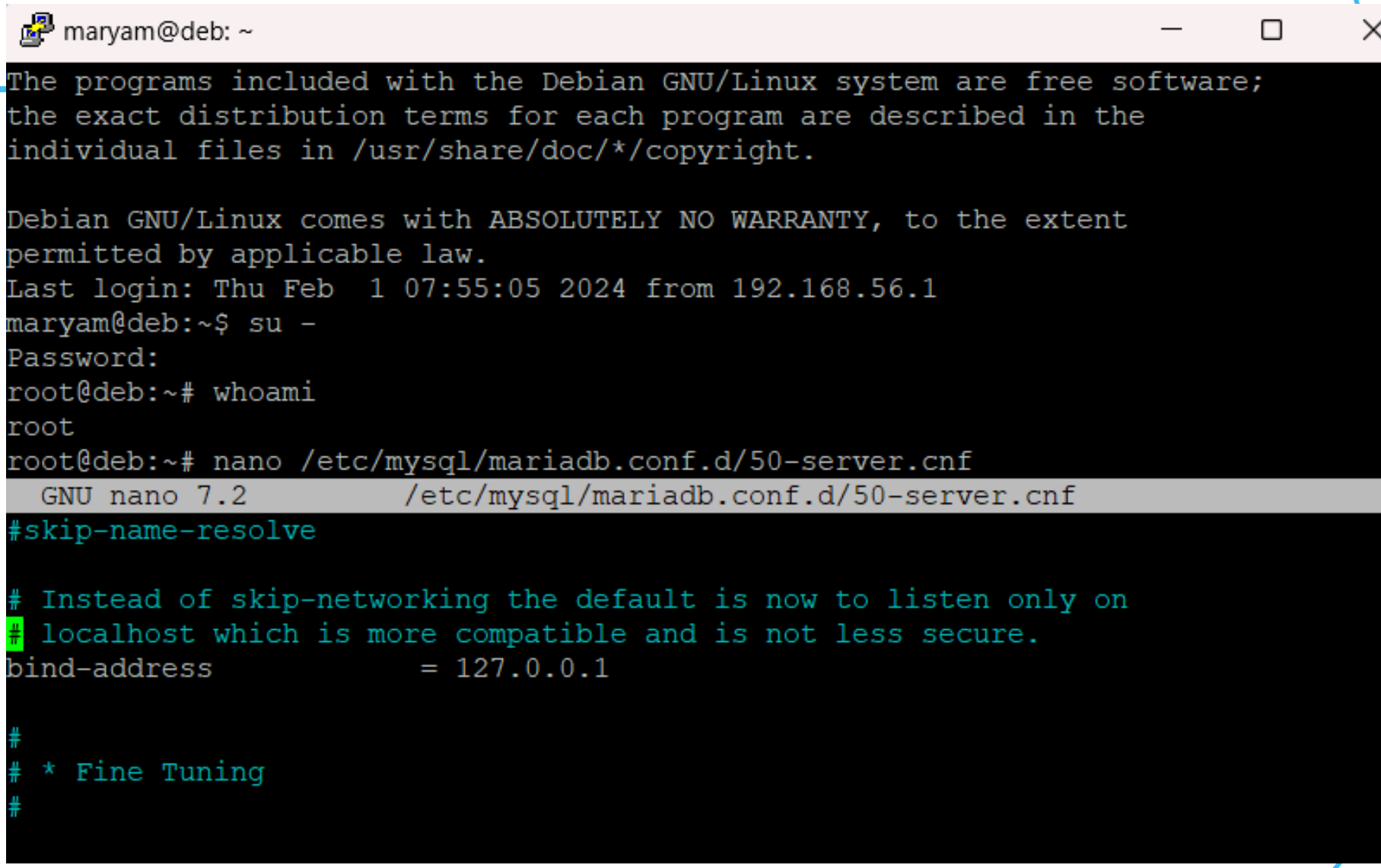


Step 1: Configure Database and Create Database and User If Necessary

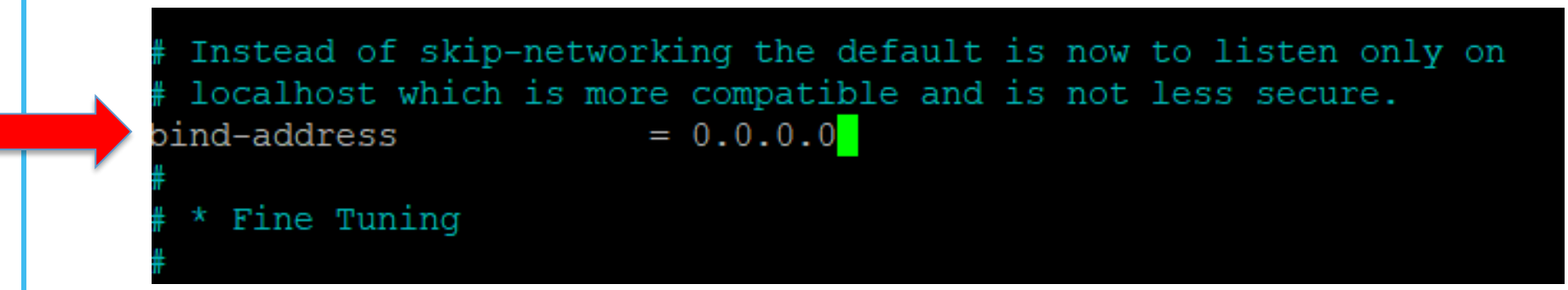
- In PuTTY, login as root
- Type:

```
nano /etc/mysql/mariadb.conf.d/50-server.cnf
```

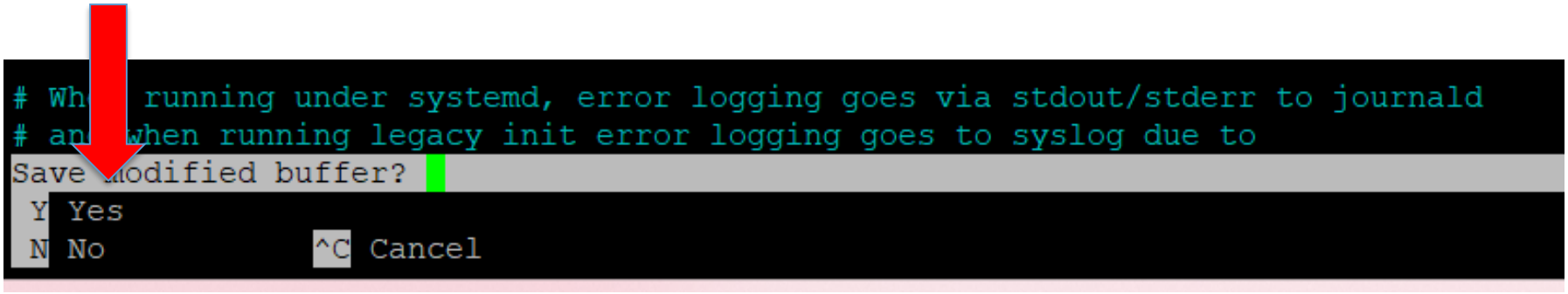
- press the downward key from keyboard


maryam@deb: ~
The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Thu Feb 1 07:55:05 2024 from 192.168.56.1
maryam@deb:~$ su -
Password:
root@deb:~# whoami
root
root@deb:~# nano /etc/mysql/mariadb.conf.d/50-server.cnf
GNU nano 7.2 /etc/mysql/mariadb.conf.d/50-server.cnf
#skip-name-resolve
Instead of skip-networking the default is now to listen only on
localhost which is more compatible and is not less secure.
bind-address = 127.0.0.1
#
* Fine Tuning
#

- nano /etc/mysql/mariadb.conf.d/50-server.cnf
- bind-address = 0.0.0.0


Instead of skip-networking the default is now to listen only on
localhost which is more compatible and is not less secure.
bind-address = 0.0.0.0
#
* Fine Tuning
#

Save (^ + o)


Wh running under systemd, error logging goes via stdout/stderr to journald
an when running legacy init error logging goes to syslog due to
Save Modified buffer?
Y Yes
N No
^C Cancel

Exit (^ + x)

```
  GNU nano 7.2          /etc/mysql/mariadb.conf.d/50-server.cnf
# * Basic Settings
#

#user                    = mysql
pid-file                = /run/mysqld/mysqld.pid
basedir                 = /usr
#datadir                 = /var/lib/mysql
#tmpdir                  = /tmp

# Broken reverse DNS slows down connections considerably and name resolve is
# safe to skip if there are no "host by domain name" access grants
#skip-name-resolve

# Instead of skip-networking the default is now to listen only on
# localhost which is more compatible and is not less secure.
bind-address            = 0.0.0.0


#
# * Fine Tuning

^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^/ Go To Line
```

```
root@deb:~# systemctl restart mysql.service
```

```
root@deb:~# systemctl restart mariadb.service
```

Use PuTTY

```
root@deb:~# mysql -u root
```

```
MariaDB [(none)]> create database blog;
Query OK, 1 row affected (0.002 sec)
```

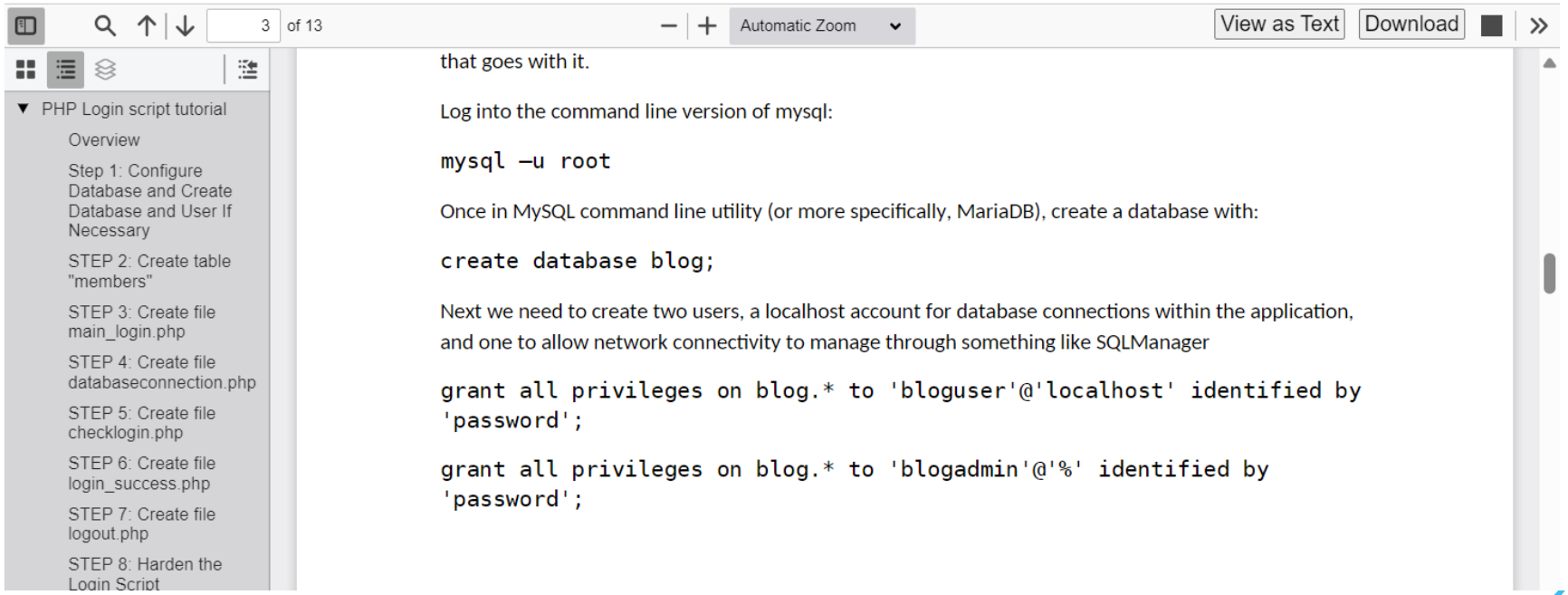
Create Two Users “admin” & “user” and

learn | WEBD-3013 (259269) Web Security | MG Maryam Ghanbari

Course Content | Assessments | Communication | Resources | Edit Course

Table of Contents › Module 3 - SQL/XSS Injection › SQL Injections and Login Scripts › PHP MairaDB login script with encryption tutorial

PHP MairaDB login script with encryption tutorial



that goes with it.

Log into the command line version of mysql:

```
mysql –u root
```

Once in MySQL command line utility (or more specifically, MariaDB), create a database with:

```
create database blog;
```

Next we need to create two users, a localhost account for database connections within the application, and one to allow network connectivity to manage through something like SQLManager

```
grant all privileges on blog.* to 'bloguser'@'localhost' identified by
'password';
```

```
grant all privileges on blog.* to 'blogadmin'@'%' identified by
'password';
```

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Create Two Users “admin” & “user” and Grant them Access

```
MariaDB [(none)]> grant all privileges on blog.* to 'bloguser'@'localhost' identified by 'password';

Query OK, 0 rows affected (0.008 sec)
```

```
MariaDB [(none)]> grant all privileges on blog.* to 'blogadmin'@'%' identified by 'password';
Query OK, 0 rows affected (0.025 sec)
```

```
MariaDB [(none)]> flush privileges;
Query OK, 0 rows affected (0.001 sec)
```

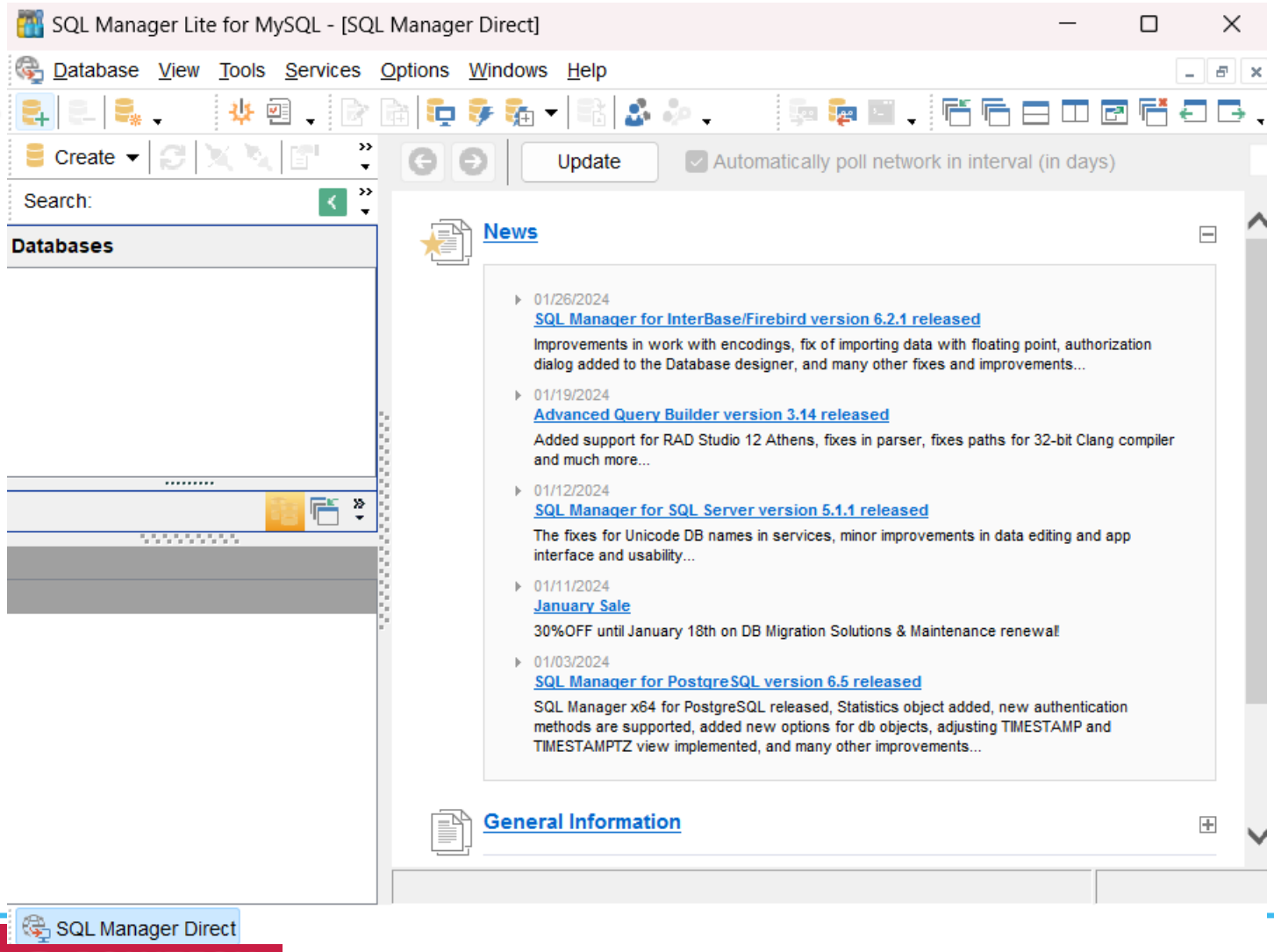
```
MariaDB [(none)]> exit
Bye
```

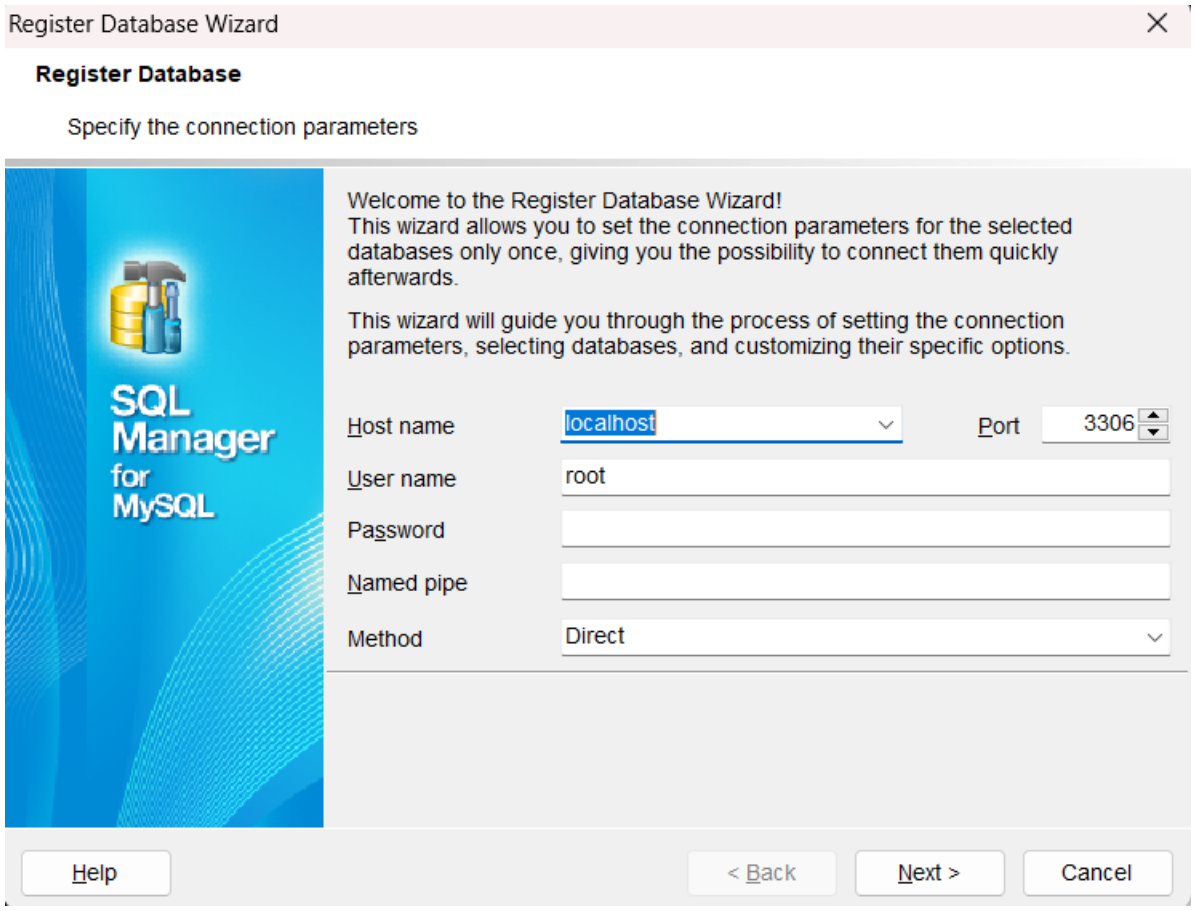
- grant all privileges on blog.* to 'bloguser'@'localhost' identified by 'password’;

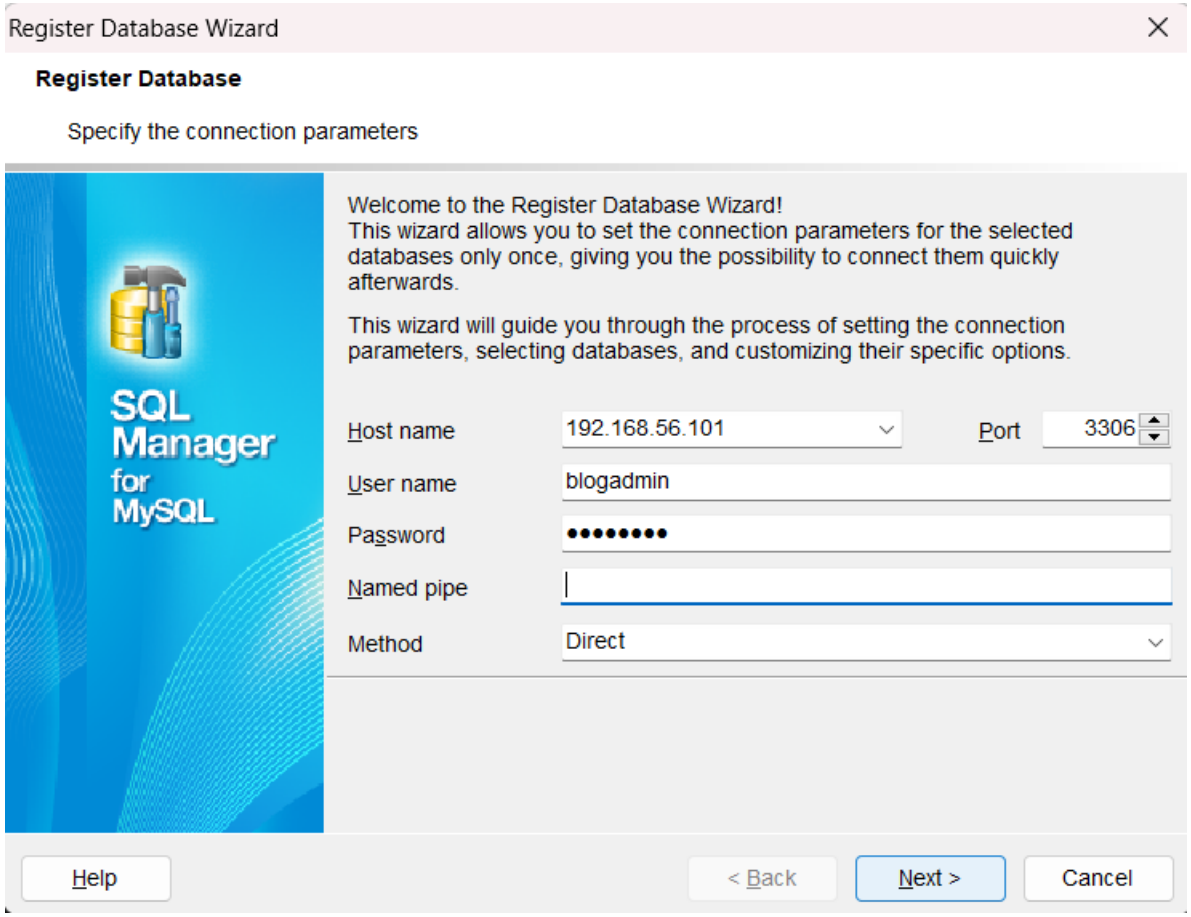
- grant all privileges on blog.* to 'blogadmin'@'%' identified by 'password';

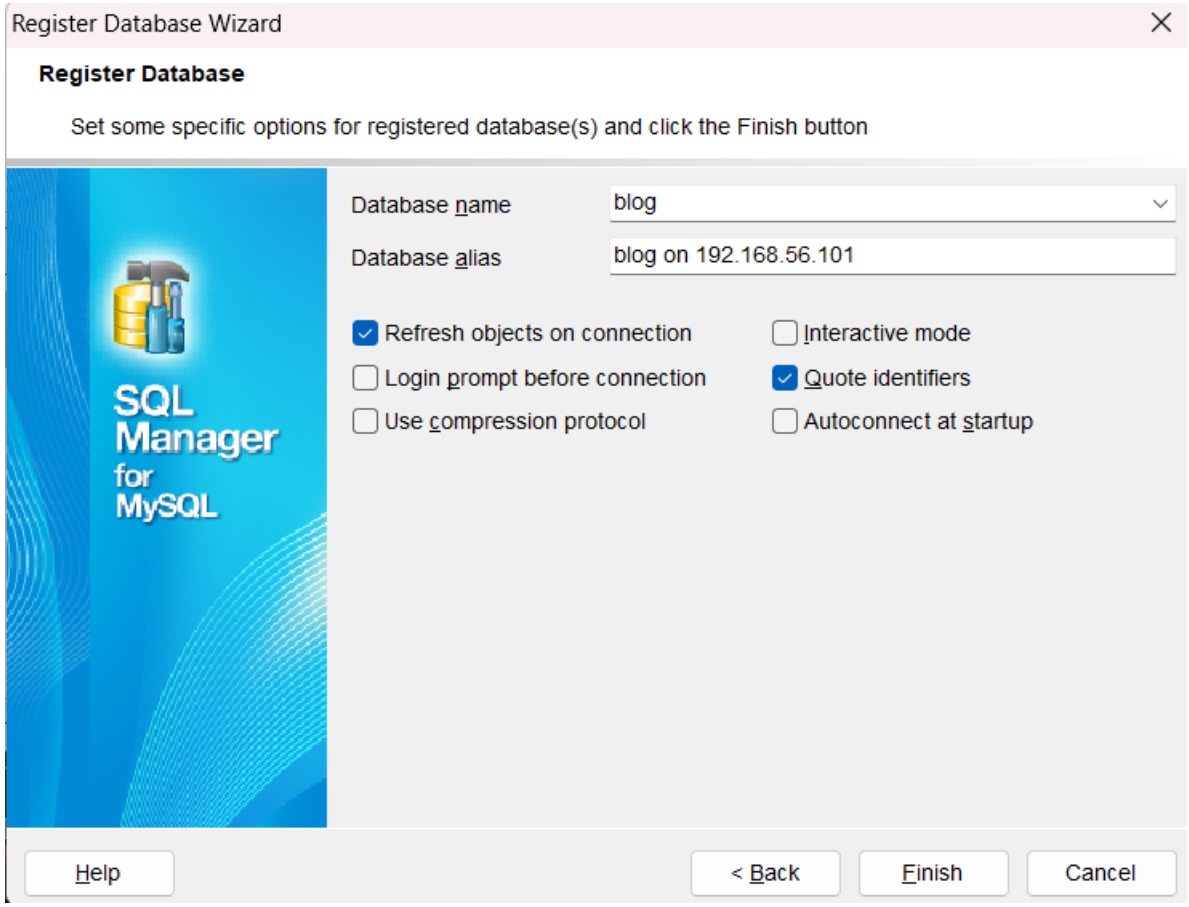
Launch MySQL

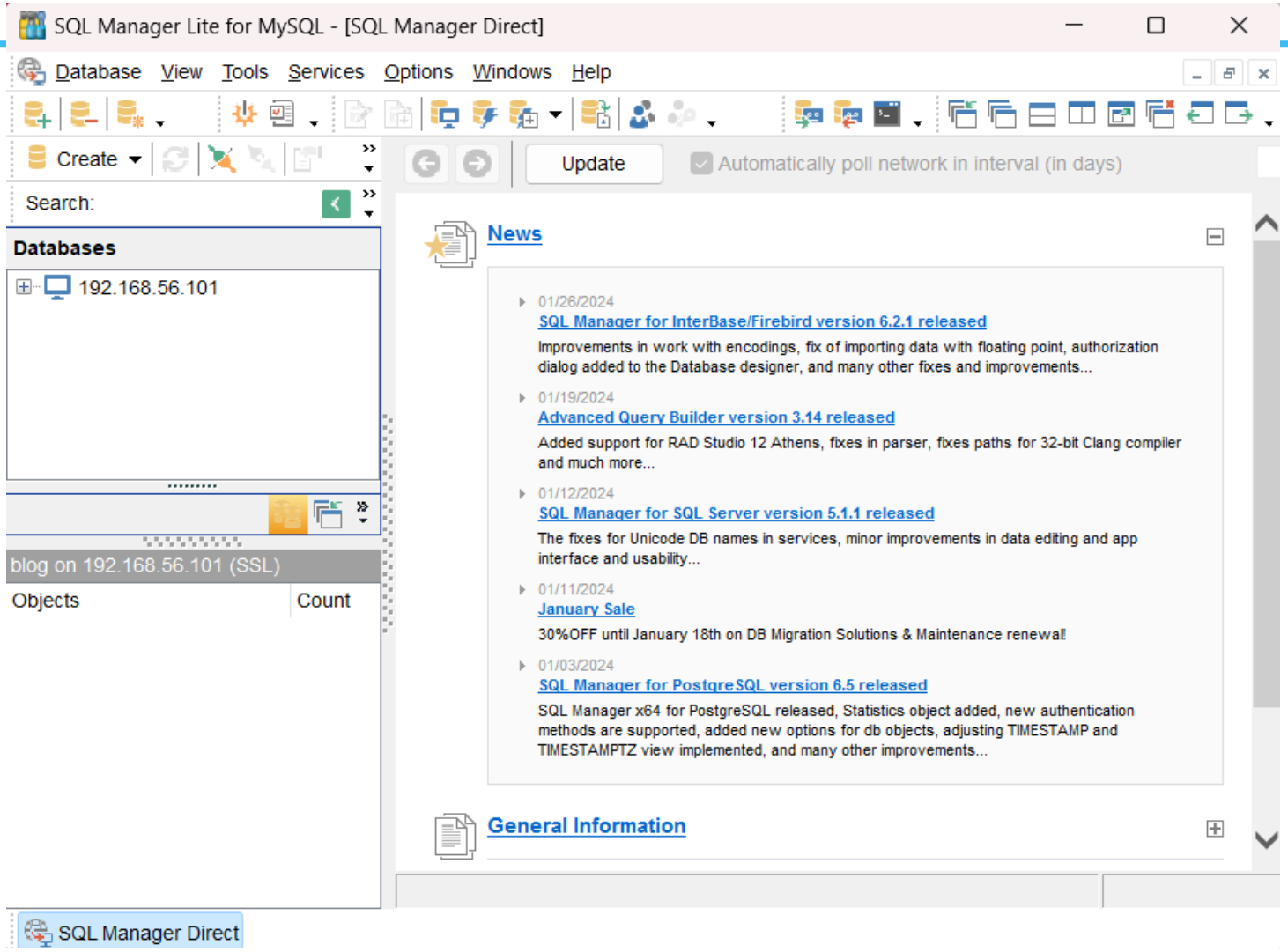
Select menu item Database: Register Database

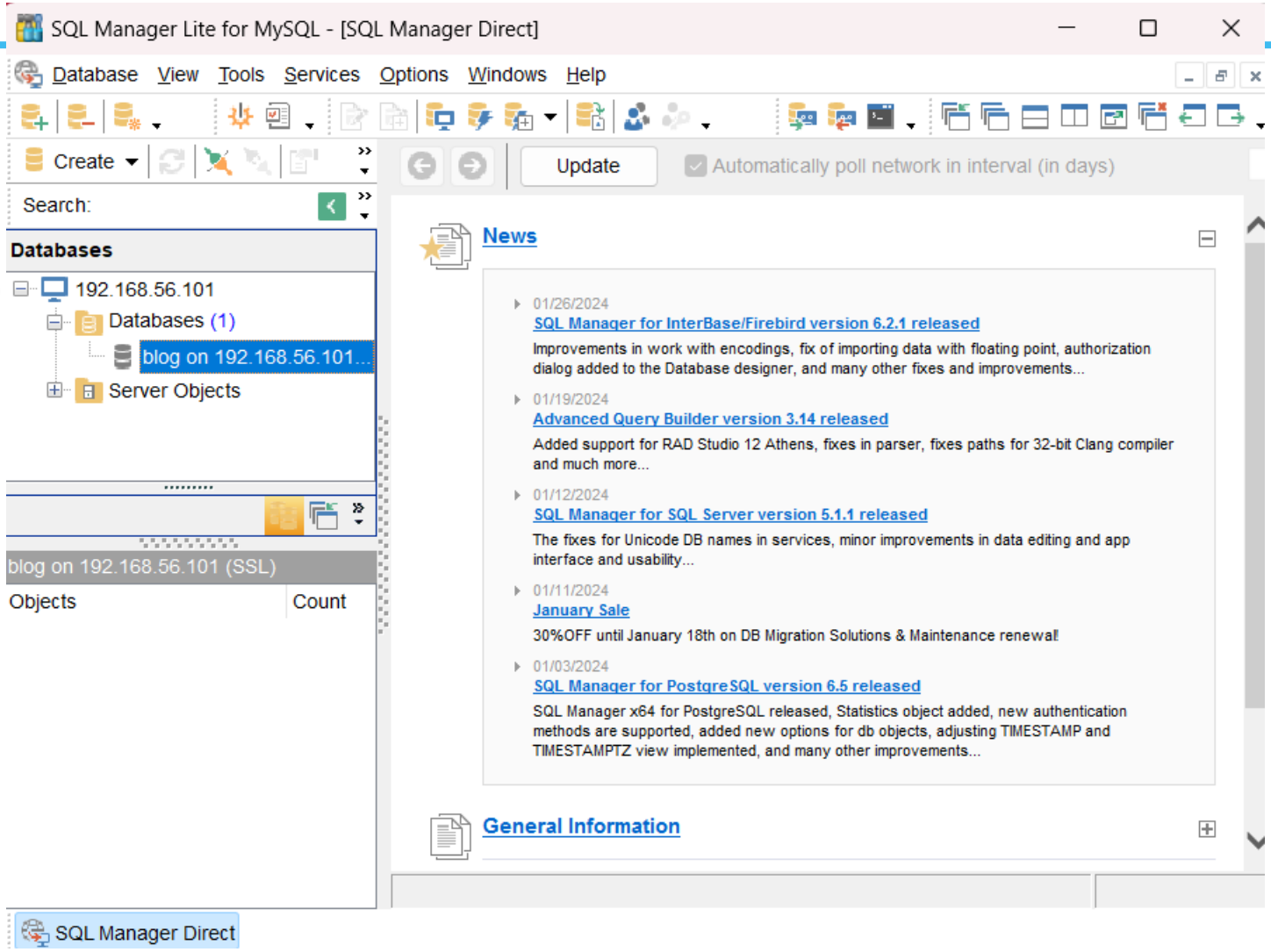



Register Database Wizard
Register Database
Specify the connection parameters
SQL Manager for MySQL
Welcome to the Register Database Wizard!
This wizard allows you to set the connection parameters for the selected databases only once, giving you the possibility to connect them quickly afterwards.
This wizard will guide you through the process of setting the connection parameters, selecting databases, and customizing their specific options.
Host name
localhost
Port
3306
User name
root
Password
Named pipe
Method
Direct
Help
< Back
Next >
Cancel


Register Database Wizard
Register Database
Specify the connection parameters
SQL Manager for MySQL
Welcome to the Register Database Wizard!
This wizard allows you to set the connection parameters for the selected databases only once, giving you the possibility to connect them quickly afterwards.
This wizard will guide you through the process of setting the connection parameters, selecting databases, and customizing their specific options.
Host name
192.168.56.101
Port
3306
User name
blogadmin
Password
Named pipe
Method
Direct
Help
< Back
Next >
Cancel


Register Database Wizard
Register Database
Set some specific options for registered database(s) and click the Finish button
SQL Manager for MySQL
Database name
blog
Database alias
blog on 192.168.56.101
Refresh objects on connection
Interactive mode
Login prompt before connection
Quote identifiers
Use compression protocol
Autoconnect at startup
Help
< Back
Finish
Cancel


SQL Manager Lite for MySQL - [SQL Manager Direct]
Database View Tools Services Options Windows Help
Create
Update
Automatically poll network in interval (in days)
Search:
Databases
192.168.56.101
blog on 192.168.56.101 (SSL)
Objects
Count
News
01/26/2024
SQL Manager for InterBase/Firebird version 6.2.1 released
Improvements in work with encodings, fix of importing data with floating point, authorization dialog added to the Database designer, and many other fixes and improvements...
01/19/2024
Advanced Query Builder version 3.14 released
Added support for RAD Studio 12 Athens, fixes in parser, fixes paths for 32-bit Clang compiler and much more...
01/12/2024
SQL Manager for SQL Server version 5.1.1 released
The fixes for Unicode DB names in services, minor improvements in data editing and app interface and usability...
01/11/2024
January Sale
30%OFF until January 18th on DB Migration Solutions & Maintenance renewal!
01/03/2024
SQL Manager for PostgreSQL version 6.5 released
SQL Manager x64 for PostgreSQL released, Statistics object added, new authentication methods are supported, added new options for db objects, adjusting TIMESTAMP and TIMESTAMPTZ view implemented, and many other improvements...
General Information
SQL Manager Direct


SQL Manager Lite for MySQL - [SQL Manager Direct]
Database View Tools Services Options Windows Help
Create
Update
Automatically poll network in interval (in days)
Search:
Databases
192.168.56.101
Databases (1)
blog on 192.168.56.101...
Server Objects
blog on 192.168.56.101 (SSL)
Objects
Count
News
01/26/2024
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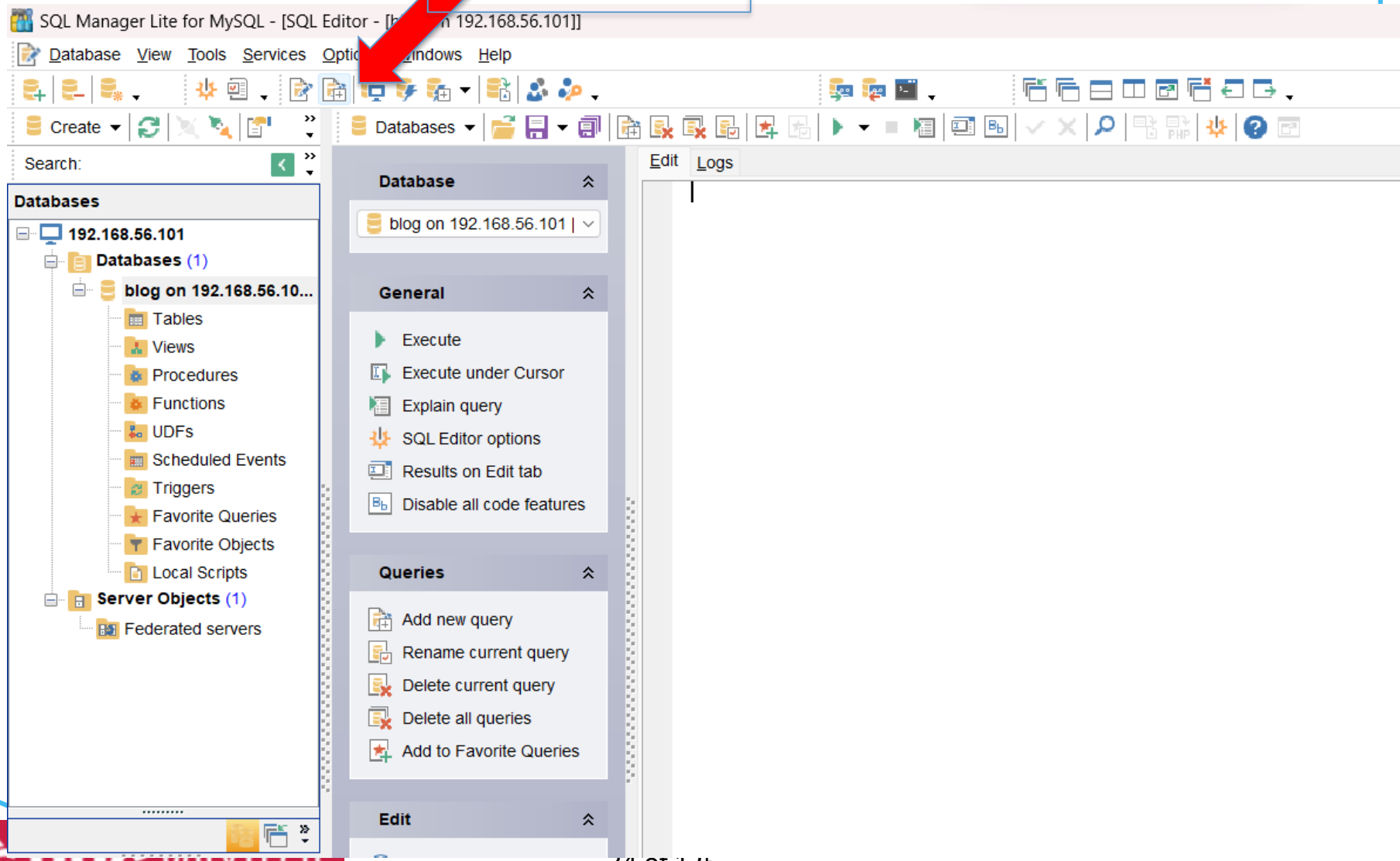
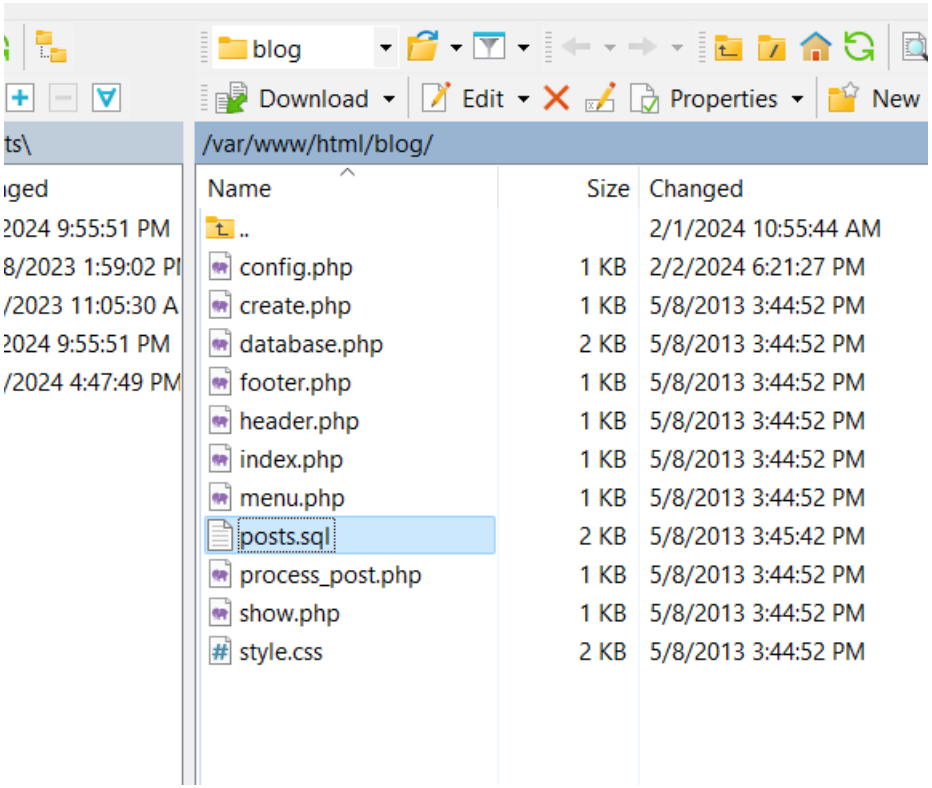
General Information
SQL Manager Direct

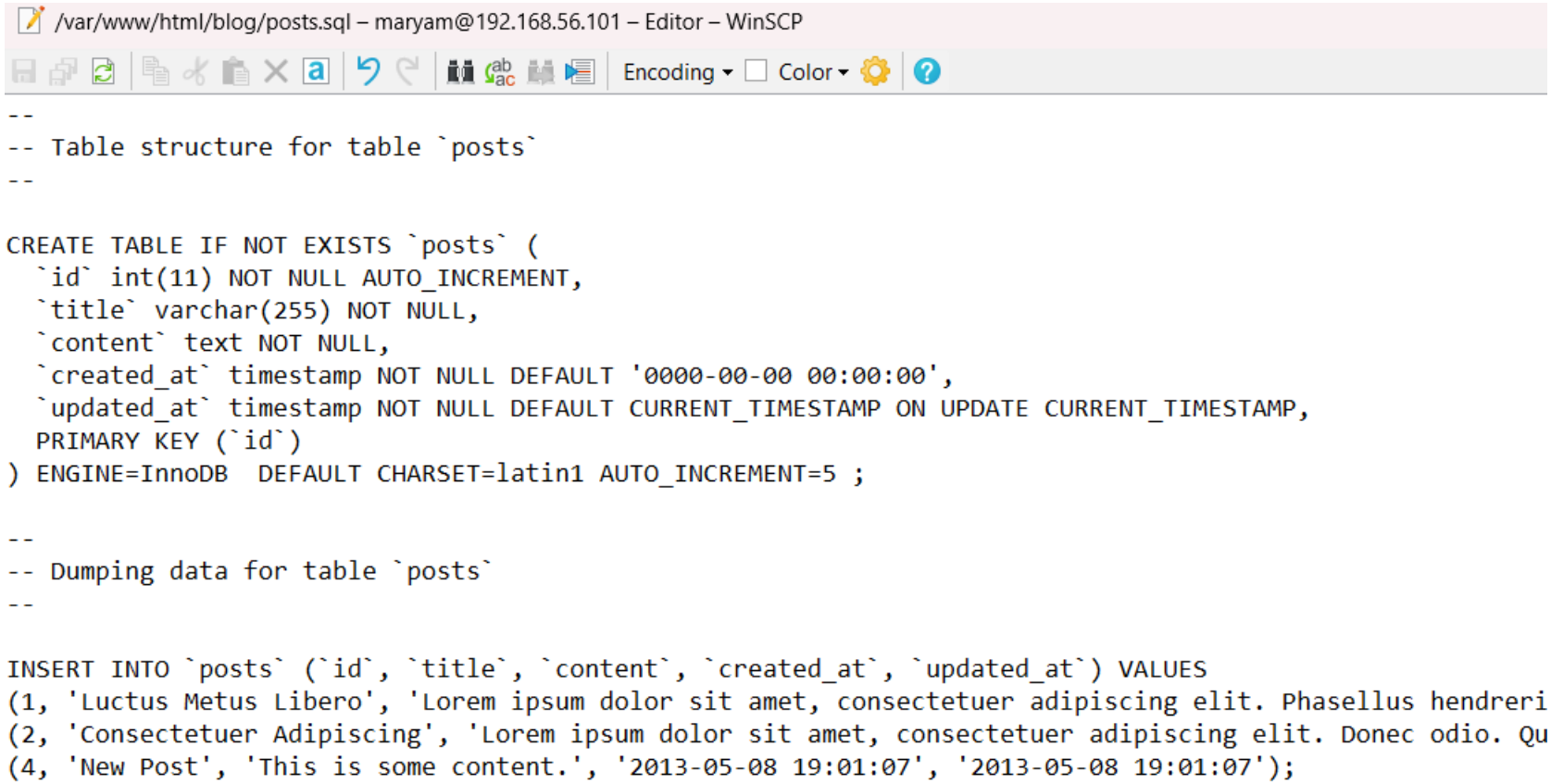
New SQL Editor



WinSCP


blog
Download
Edit
Properties
New
/var/www/html/blog/
Name
Size
Changed
..
2/1/2024 10:55:44 AM
config.php
1 KB
2/2/2024 6:21:27 PM
create.php
1 KB
5/8/2013 3:44:52 PM
database.php
2 KB
5/8/2013 3:44:52 PM
footer.php
1 KB
5/8/2013 3:44:52 PM
header.php
1 KB
5/8/2013 3:44:52 PM
index.php
1 KB
5/8/2013 3:44:52 PM
menu.php
1 KB
5/8/2013 3:44:52 PM
posts.sql
2 KB
5/8/2013 3:45:42 PM
process_post.php
1 KB
5/8/2013 3:44:52 PM
show.php
1 KB
5/8/2013 3:44:52 PM
style.css
2 KB
5/8/2013 3:44:52 PM

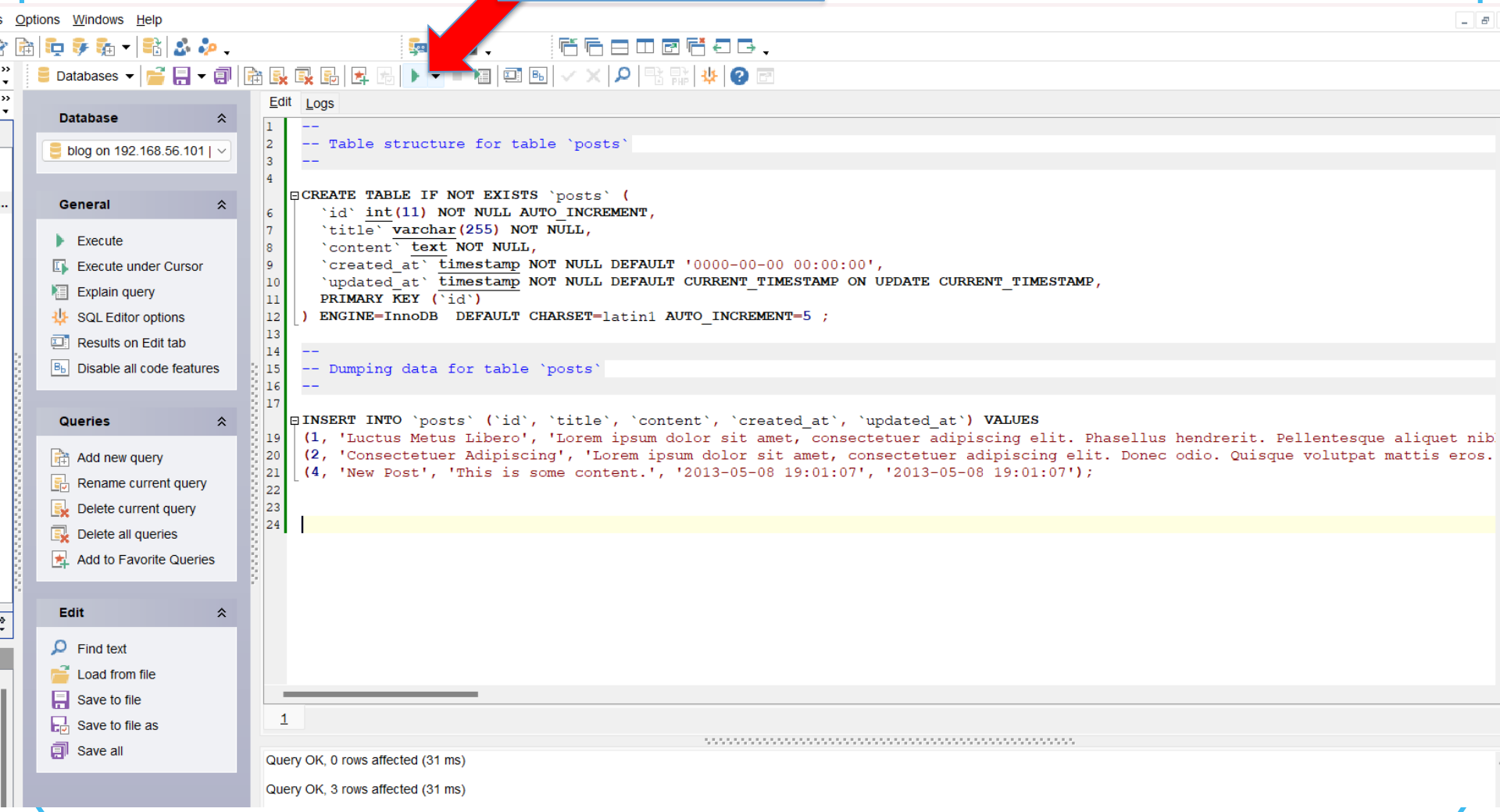
Sample Posts

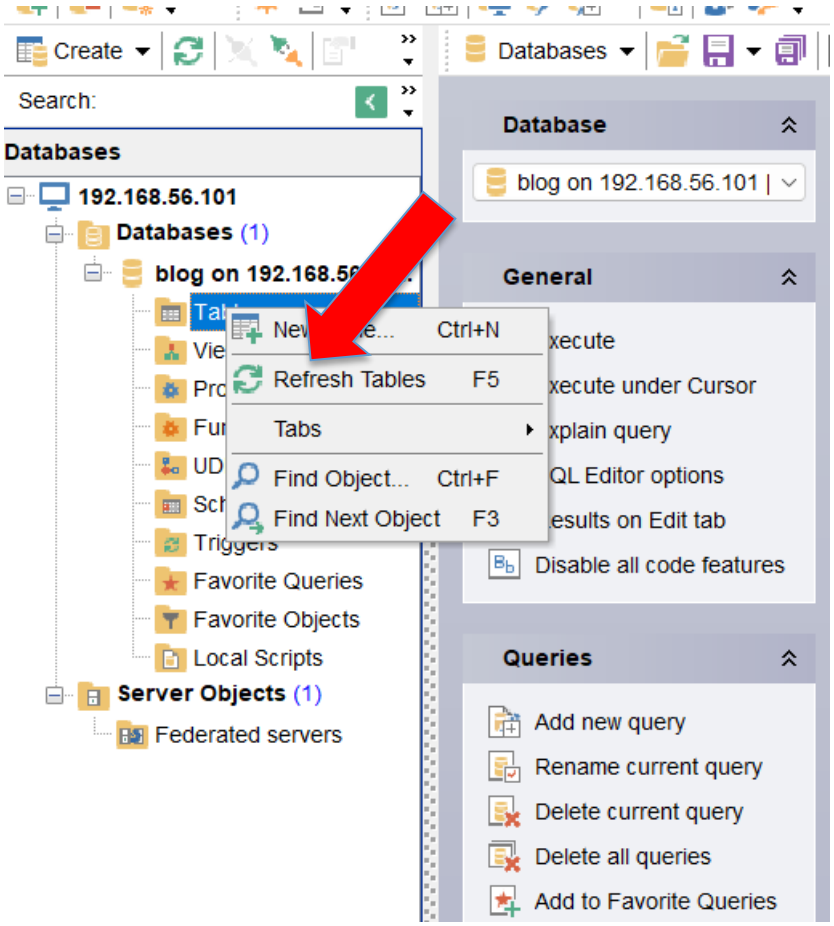


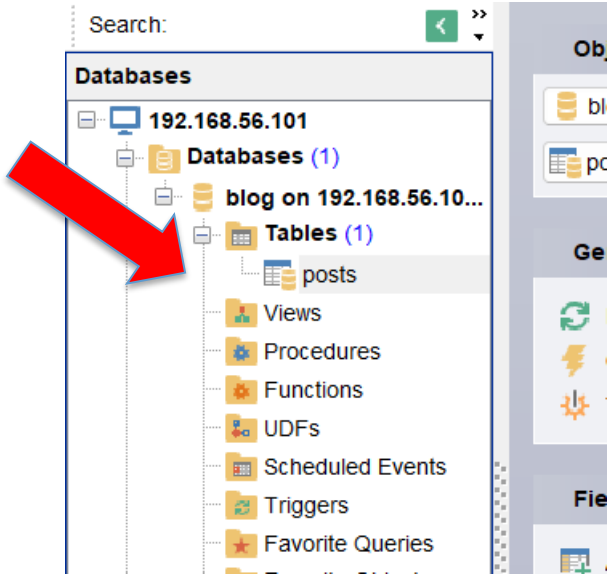

```
--
-- Table structure for table `posts`
--

CREATE TABLE IF NOT EXISTS `posts` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `title` varchar(255) NOT NULL,
  `content` text NOT NULL,
  `created_at` timestamp NOT NULL DEFAULT '0000-00-00 00:00:00',
  `updated_at` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
  PRIMARY KEY (`id`)
) ENGINE=InnoDB  DEFAULT CHARSET=latin1 AUTO_INCREMENT=5 ;

--
-- Dumping data for table `posts`
--

INSERT INTO `posts` (`id`, `title`, `content`, `created_at`, `updated_at`) VALUES
(1, 'Luctus Metus Libero', 'Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Phasellus hendreri
(2, 'Consectetuer Adipiscing', 'Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Donec odio. Qu
(4, 'New Post', 'This is some content.', '2013-05-08 19:01:07', '2013-05-08 19:01:07');
```

Open MySQL

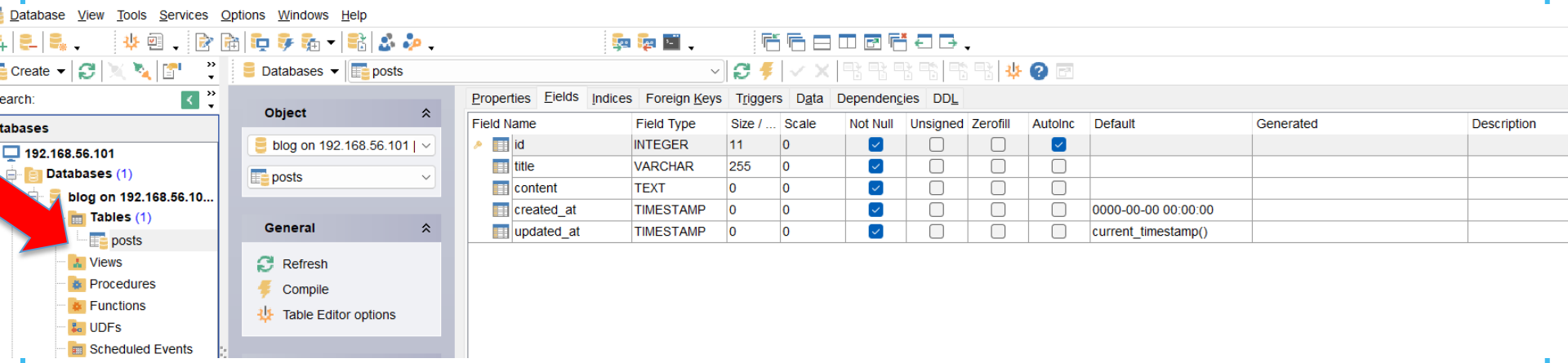
Excecute

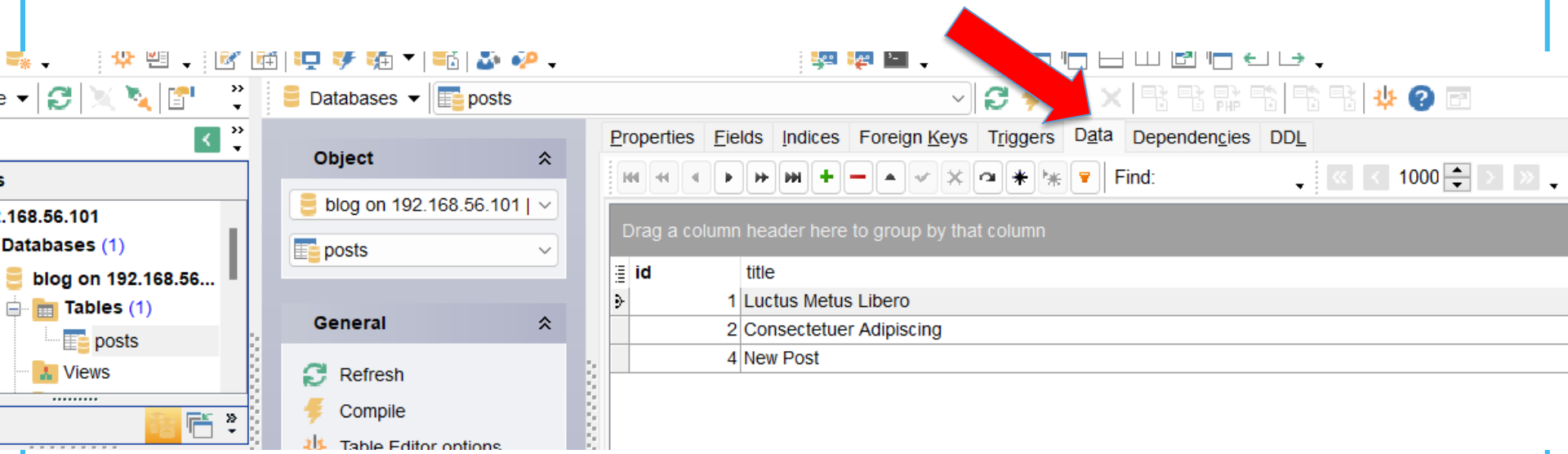

Options Windows Help
Databases
Database
blog on 192.168.56.101 |
General
Execute
Execute under Cursor
Explain query
SQL Editor options
Results on Edit tab
Disable all code features
Queries
Add new query
Rename current query
Delete current query
Delete all queries
Add to Favorite Queries
Edit
Find text
Load from file
Save to file
Save to file as
Save all
Edit
Logs
-- Table structure for table `posts`
CREATE TABLE IF NOT EXISTS `posts` (
`id` int(11) NOT NULL AUTO_INCREMENT,
`title` varchar(255) NOT NULL,
`content` text NOT NULL,
`created_at` timestamp NOT NULL DEFAULT '0000-00-00 00:00:00',
`updated_at` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
PRIMARY KEY (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=5 ;
-- Dumping data for table `posts`
INSERT INTO `posts` (`id`, `title`, `content`, `created_at`, `updated_at`) VALUES
(1, 'Luctus Metus Libero', 'Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Phasellus hendrerit. Pellentesque aliquet nib
(2, 'Consectetuer Adipiscing', 'Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Donec odio. Quisque volutpat mattis eros.
(4, 'New Post', 'This is some content.', '2013-05-08 19:01:07', '2013-05-08 19:01:07');
1
Query OK, 0 rows affected (31 ms)
Query OK, 3 rows affected (31 ms)

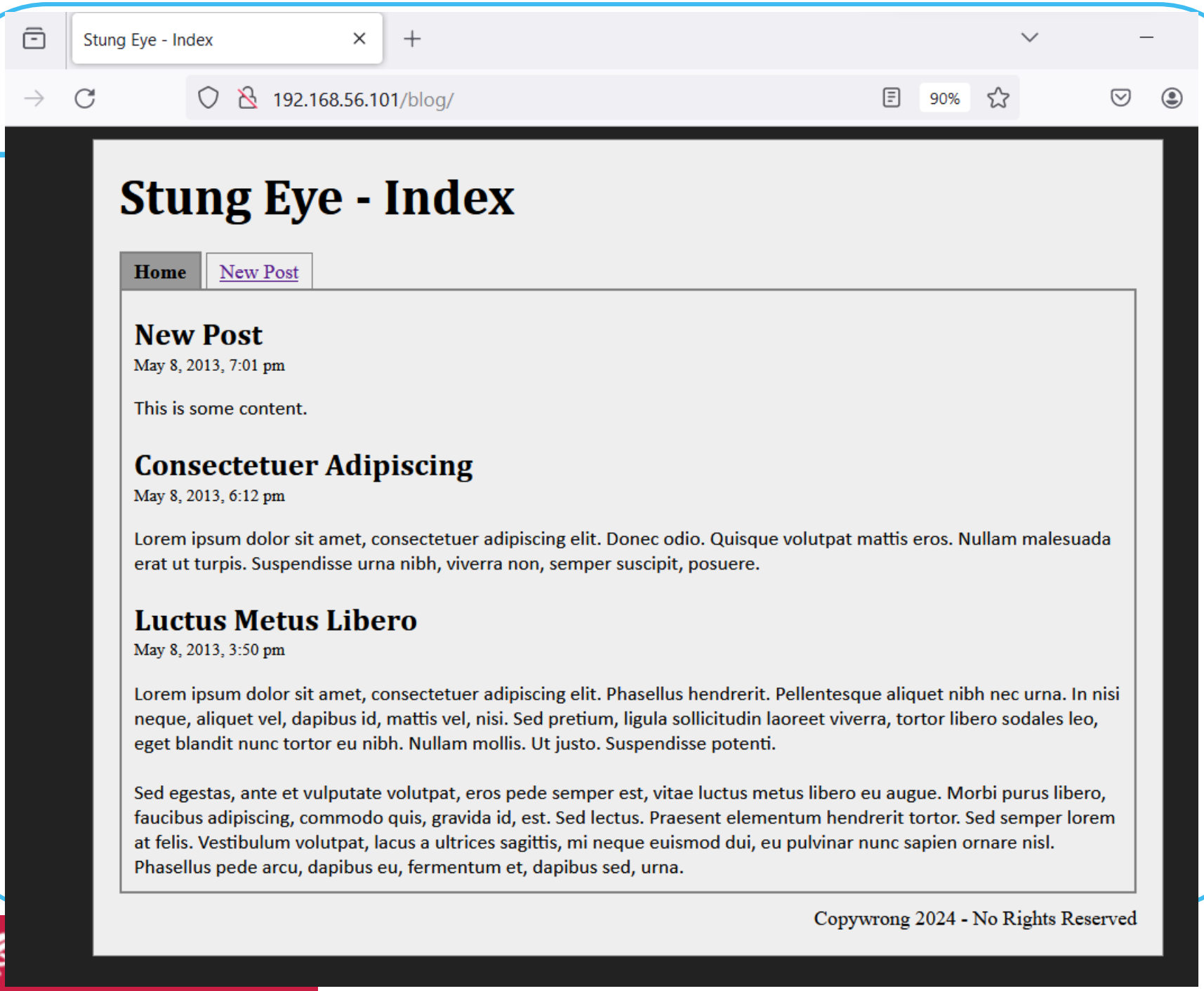

Create
Databases
Search:
Databases
192.168.56.101
Databases (1)
blog on 192.168.56
Favorite Queries
Favorite Objects
Local Scripts
Server Objects (1)
Federated servers
Refresh Tables F5
Tabs
Find Object... Ctrl+F
Find Next Object F3
Database
blog on 192.168.56.101
General
Disable all code features
Queries
Add new query
Rename current query
Delete current query
Delete all queries
Add to Favorite Queries


Search:
Databases
192.168.56.101
Databases (1)
blog on 192.168.56.10...
Tables (1)
posts
Views
Procedures
Functions
UDFs
Scheduled Events
Triggers
Favorite Queries

➢ Double click on posts




Databases
posts
Object
blog on 192.168.56.101
posts
General
Refresh
Compile
Table Editor options
Properties
Fields
Indices
Foreign Keys
Triggers
Data
Dependencies
DDL
Find:
1000
Drag a column header here to group by that column
id
title
1
Luctus Metus Libero
2
Consectetuer Adipiscing
4
New Post
.168.56.101
Databases (1)
blog on 192.168.56...
Tables (1)
posts
Views


Stung Eye - Index
192.168.56.101/blog/
90%
Stung Eye - Index
Home
New Post
New Post
May 8, 2013, 7:01 pm
This is some content.
Consectetuer Adipiscing
May 8, 2013, 6:12 pm
Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Donec odio. Quisque volutpat mattis eros. Nullam malesuada erat ut turpis. Suspendisse urna nibh, viverra non, semper suscipit, posuere.
Luctus Metus Libero
May 8, 2013, 3:50 pm
Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Phasellus hendrerit. Pellentesque aliquet nibh nec urna. In nisi neque, aliquet vel, dapibus id, mattis vel, nisi. Sed pretium, ligula sollicitudin laoreet viverra, tortor libero sodales leo, eget blandit nunc tortor eu nibh. Nullam mollis. Ut justo. Suspendisse potenti.
Sed egestas, ante et vulputate volutpat, eros pede semper est, vitae luctus metus libero eu augue. Morbi purus libero, faucibus adipiscing, commodo quis, gravida id, est. Sed lectus. Praesent elementum hendrerit tortor. Sed semper lorem at felis. Vestibulum volutpat, lacus a ultrices sagittis, mi neque euismod dui, eu pulvinar nunc sapien ornare nisl. Phasellus pede arcu, dapibus eu, fermentum et, dapibus sed, urna.
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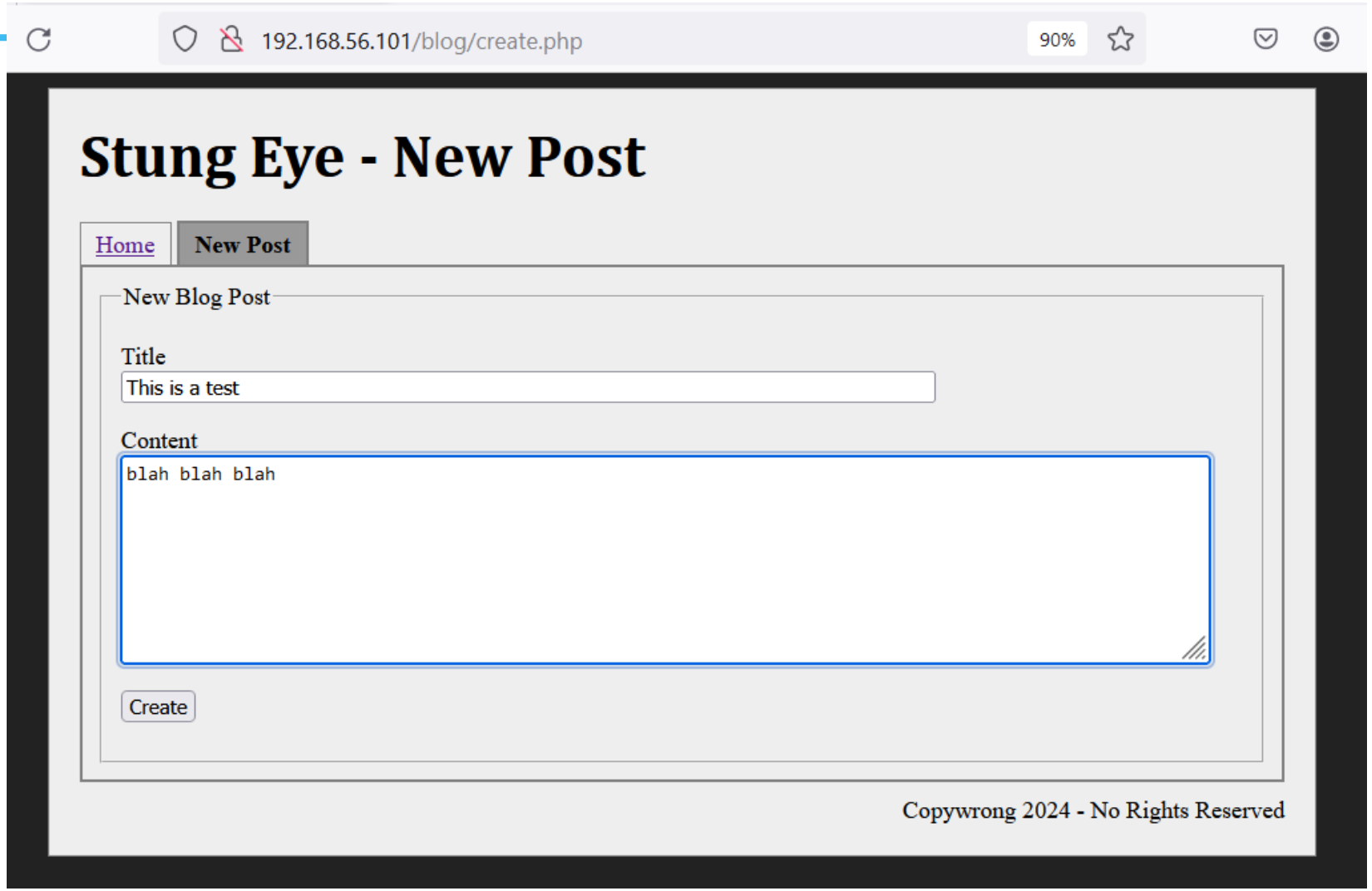
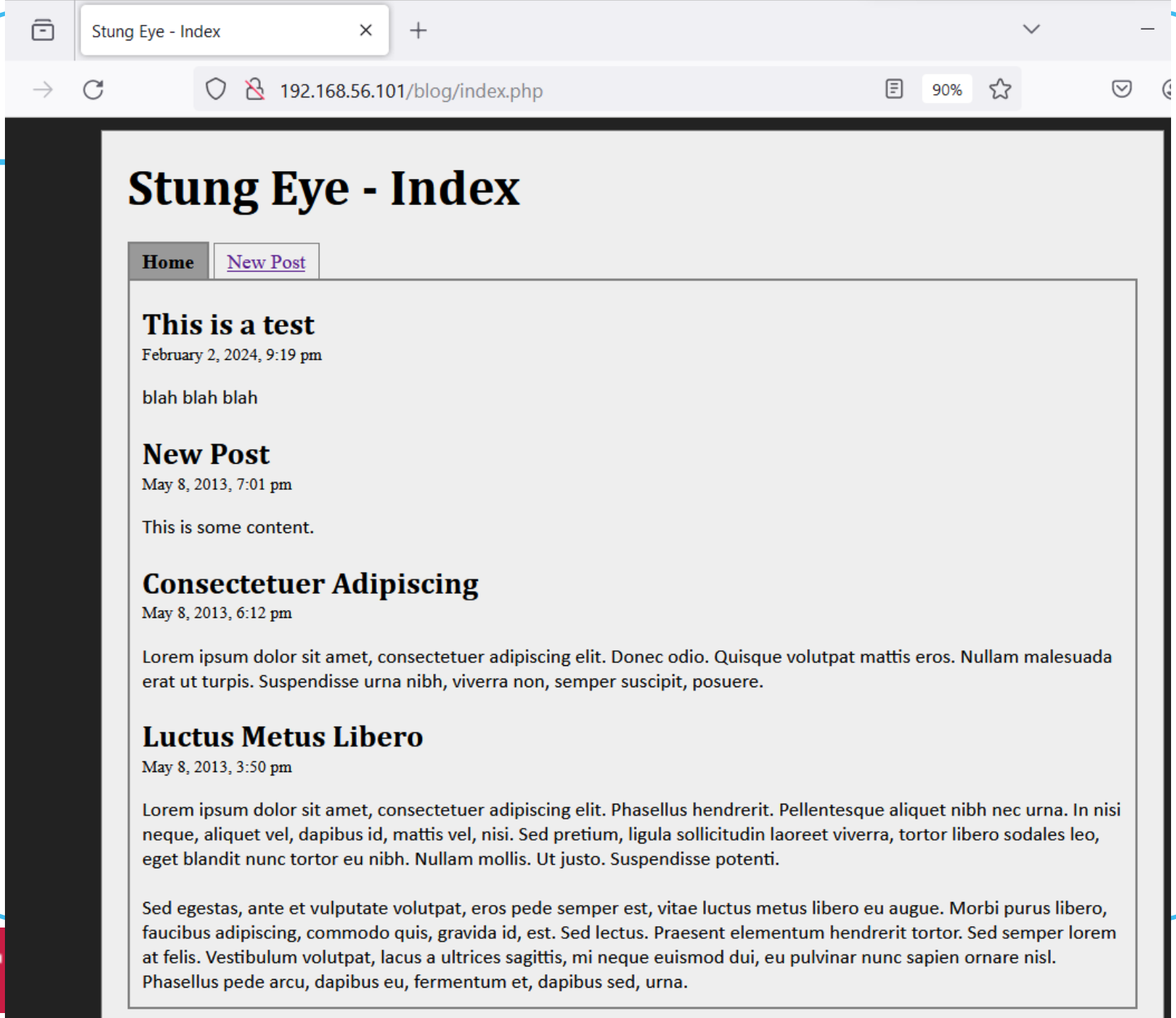

192.168.56.101/blog/create.php
90%
Stung Eye - New Post
Home
New Post
New Blog Post
Title
This is a test
Content
blah blah blah
Create
Copywrong 2024 - No Rights Reserved


Stung Eye - Index
192.168.56.101/blog/index.php
90%
Stung Eye - Index
Home
New Post
This is a test
February 2, 2024, 9:19 pm
blah blah blah
New Post
May 8, 2013, 7:01 pm
This is some content.
Consectetuer Adipiscing
May 8, 2013, 6:12 pm
Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Donec odio. Quisque volutpat mattis eros. Nullam malesuada erat ut turpis. Suspendisse urna nibh, viverra non, semper suscipit, posuere.
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May 8, 2013, 3:50 pm
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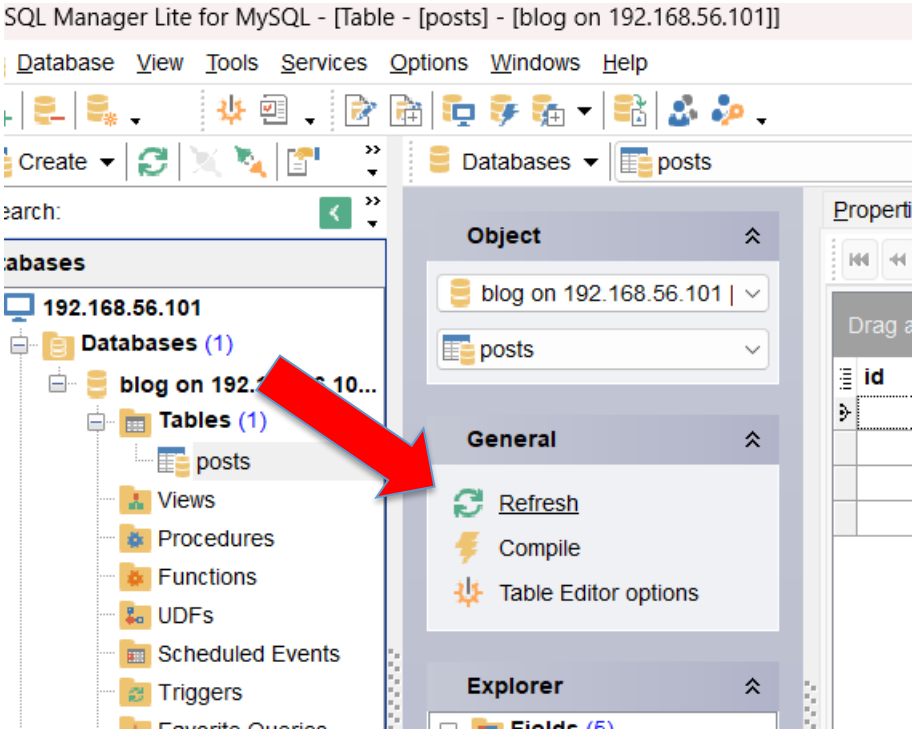
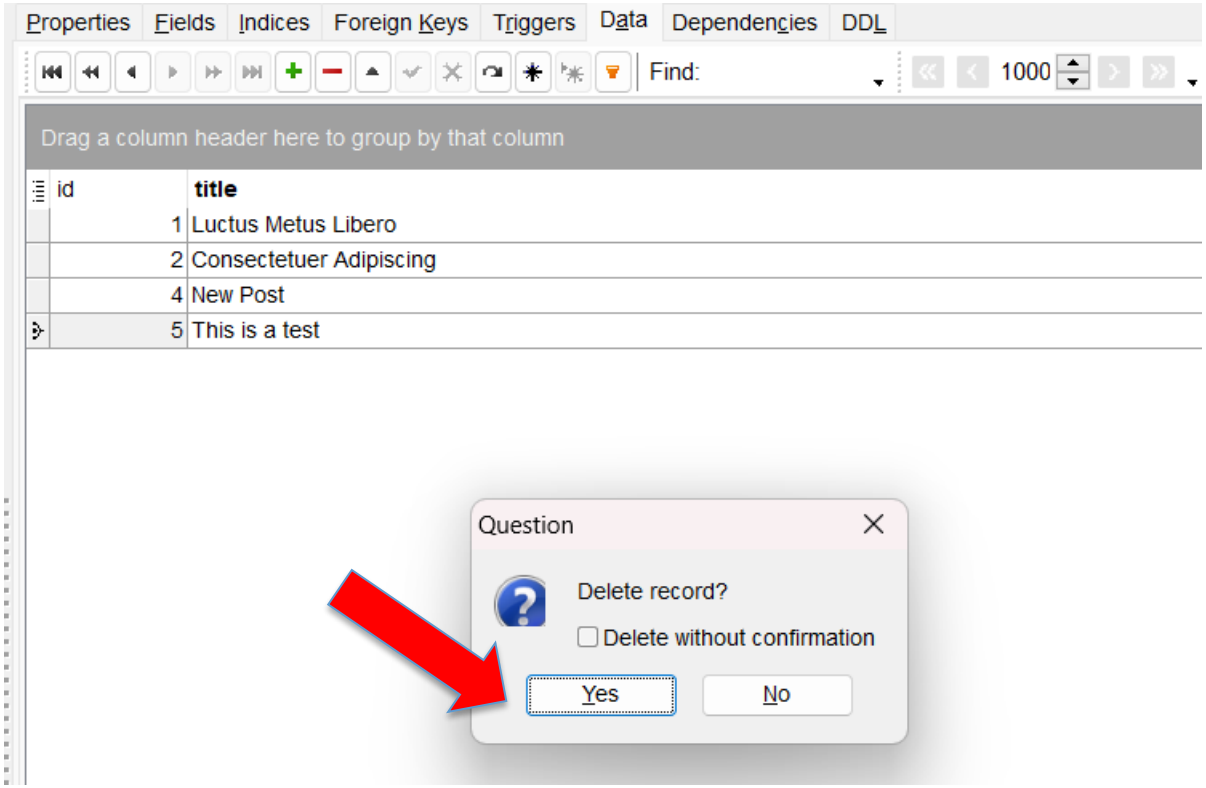
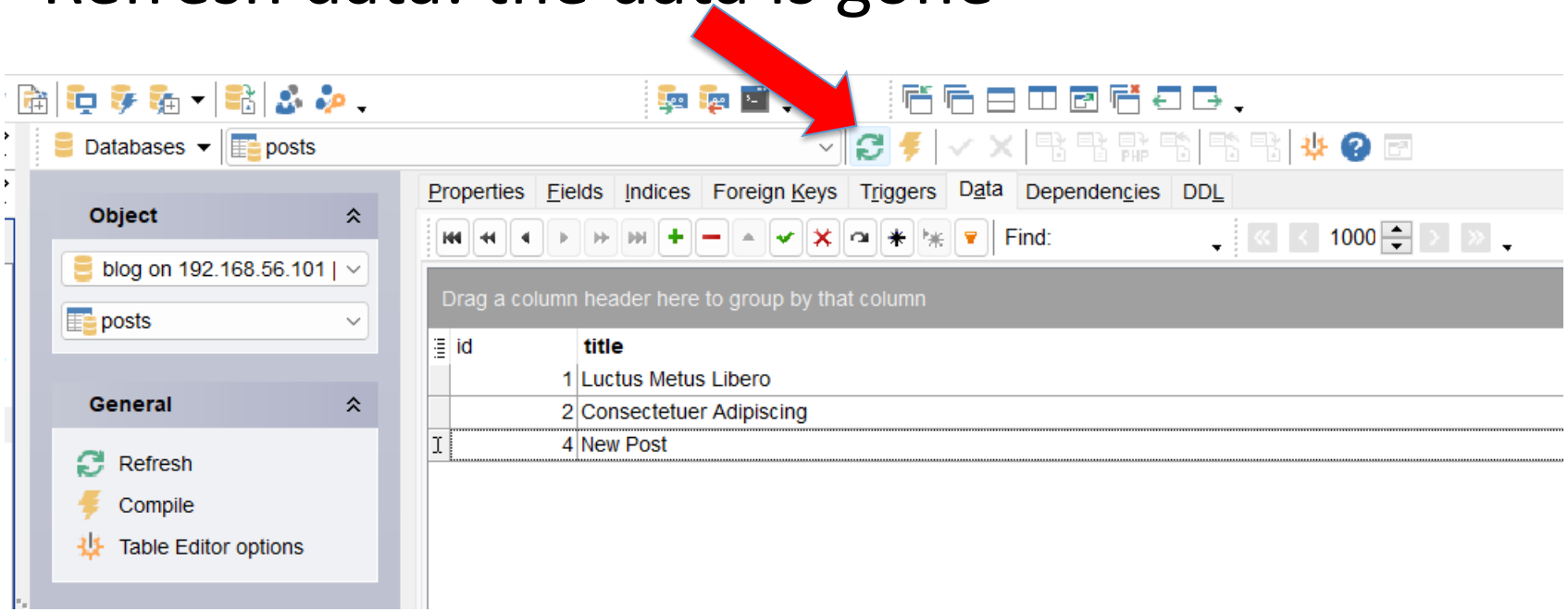
Sed egestas, ante et vulputate volutpat, eros pede semper est, vitae luctus metus libero eu augue. Morbi purus libero, faucibus adipiscing, commodo quis, gravida id, est. Sed lectus. Praesent elementum hendrerit tortor. Sed semper lorem at felis. Vestibulum volutpat, lacus a ultrices sagittis, mi neque euismod dui, eu pulvinar nunc sapien ornare nisl. Phasellus pede arcu, dapibus eu, fermentum et, dapibus sed, urna.

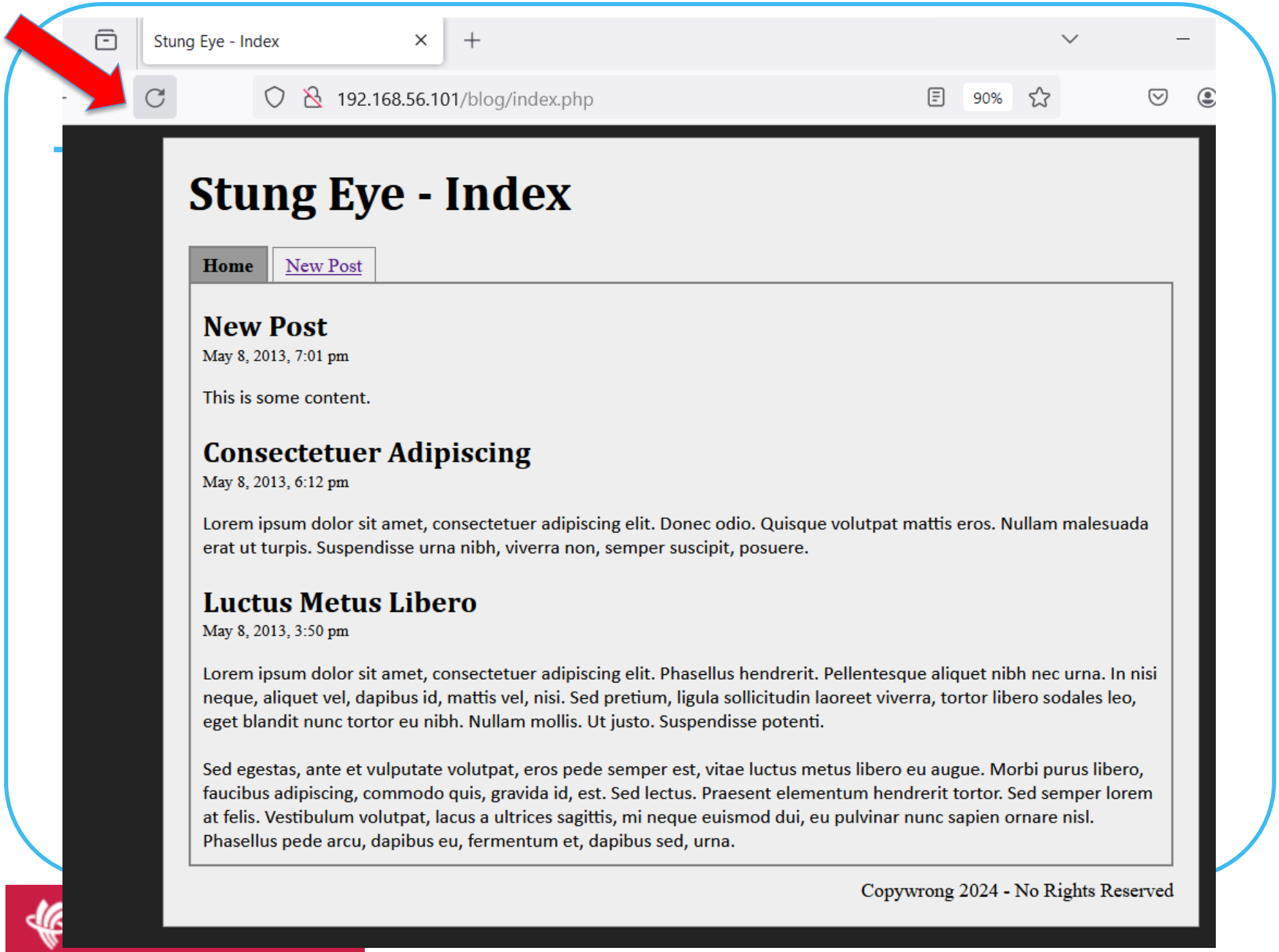

SQL Manager Lite for MySQL - [Table - [posts] - [blog on 192.168.56.101]]
Database View Tools Services Options Windows Help
Create
Databases
posts
Object
blog on 192.168.56.101
posts
General
Refresh
Compile
Table Editor options
Explorer
192.168.56.101
Databases (1)
Tables (1)
posts
Views
Procedures
Functions
UDFs
Scheduled Events
Triggers
id

- Select record 5, hit the delete key



➢ Refresh data: the data is gone




Stung Eye - Index
192.168.56.101/blog/index.php
90%
Stung Eye - Index
Home
New Post
New Post
May 8, 2013, 7:01 pm
This is some content.
Consectetuer Adipiscing
May 8, 2013, 6:12 pm
Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Donec odio. Quisque volutpat mattis eros. Nullam malesuada erat ut turpis. Suspendisse urna nibh, viverra non, semper suscipit, posuere.
Luctus Metus Libero
May 8, 2013, 3:50 pm
Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Phasellus hendrerit. Pellentesque aliquet nibh nec urna. In nisi neque, aliquet vel, dapibus id, mattis vel, nisi. Sed pretium, ligula sollicitudin laoreet viverra, tortor libero sodales leo, eget blandit nunc tortor eu nibh. Nullam mollis. Ut justo. Suspendisse potenti.
Sed egestas, ante et vulputate volutpat, eros pede semper est, vitae luctus metus libero eu augue. Morbi purus libero, faucibus adipiscing, commodo quis, gravida id, est. Sed lectus. Praesent elementum hendrerit tortor. Sed semper lorem at felis. Vestibulum volutpat, lacus a ultrices sagittis, mi neque euismod dui, eu pulvinar nunc sapien ornare nisl. Phasellus pede arcu, dapibus eu, fermentum et, dapibus sed, urna.
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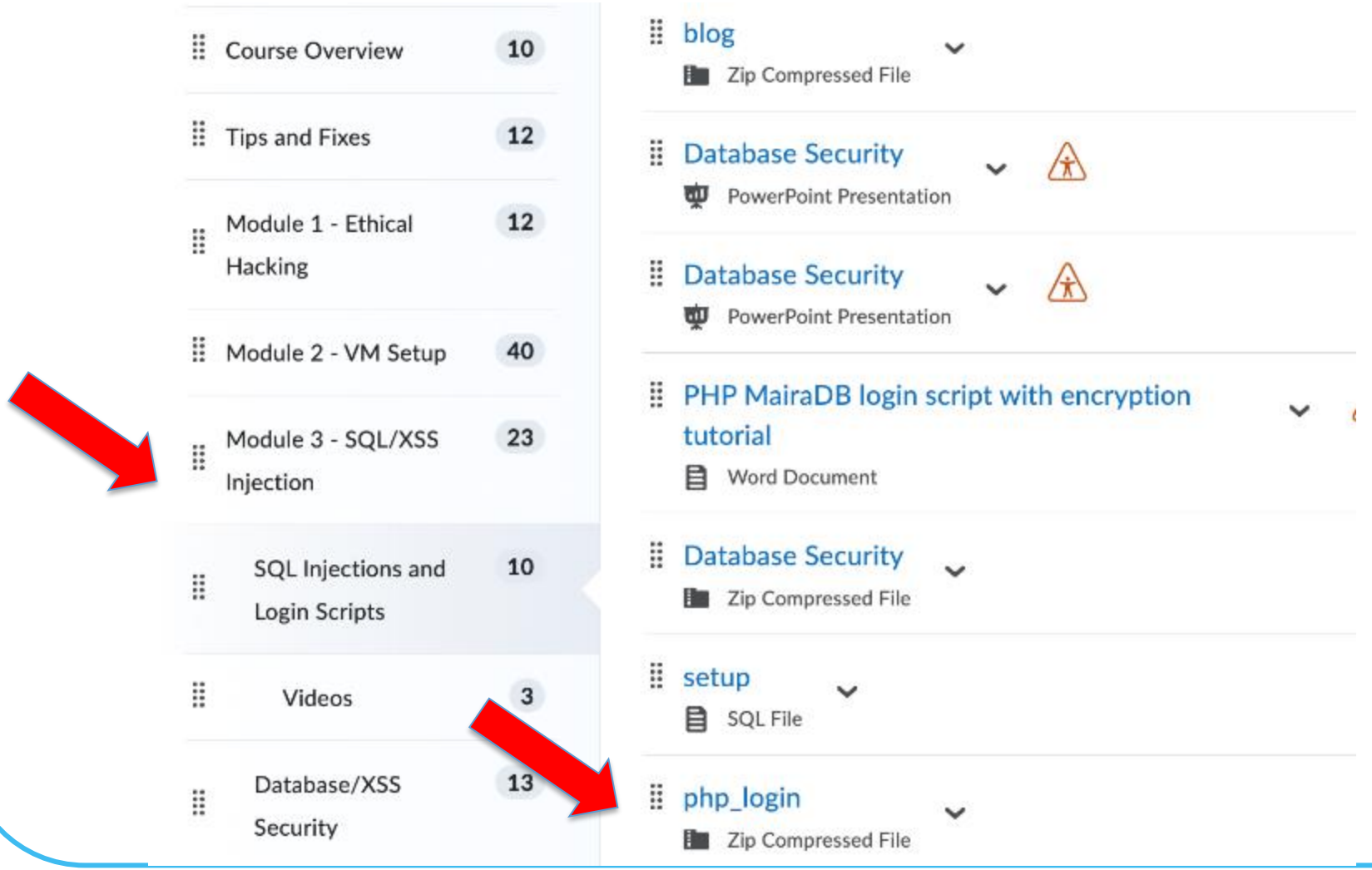
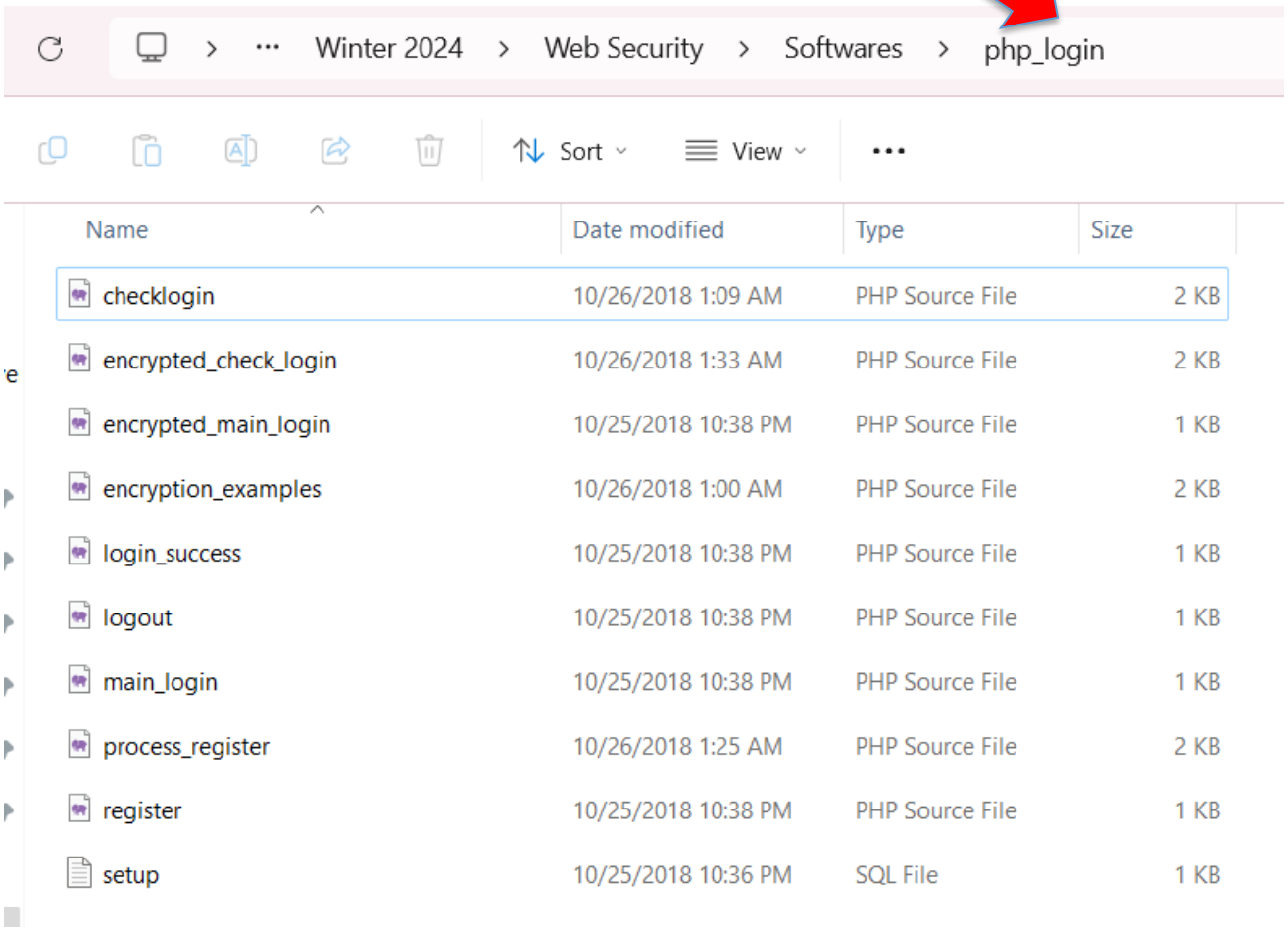
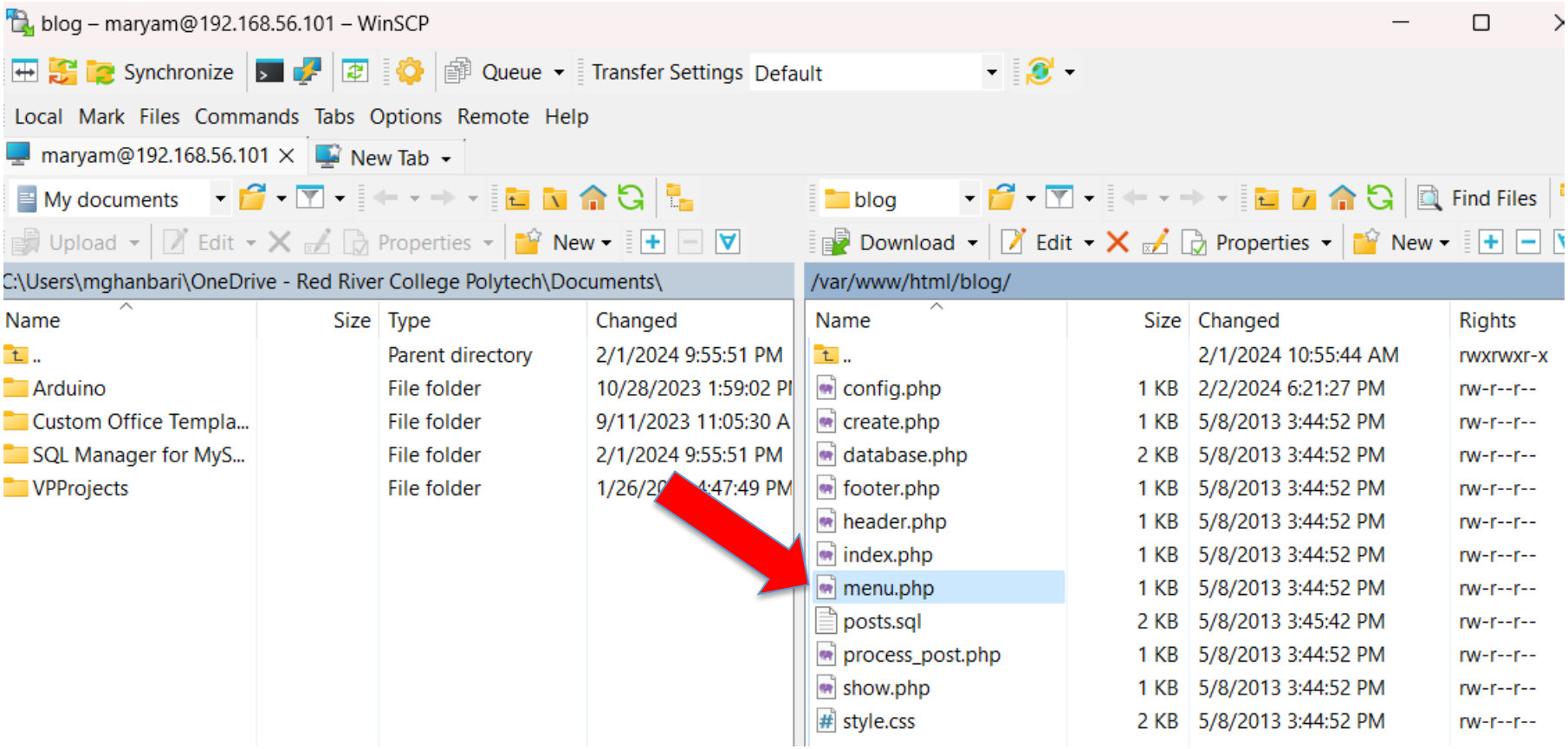
Setting up the Login Script


Course Overview 10
Tips and Fixes 12
Module 1 - Ethical Hacking 12
Module 2 - VM Setup 40
Module 3 - SQL/XSS Injection 23
SQL Injections and Login Scripts 10
Videos 3
Database/XSS Security 13
blog
Zip Compressed File
Database Security
PowerPoint Presentation
Database Security
PowerPoint Presentation
PHP MairaDB login script with encryption tutorial
Word Document
Database Security
Zip Compressed File
setup
SQL File
php_login
Zip Compressed File

Download and put in your folder



WinSCP


blog – maryam@192.168.56.101 – WinSCP
Synchronize
Queue
Transfer Settings
Default
Local Mark Files Commands Tabs Options Remote Help
maryam@192.168.56.101
New Tab
My documents
blog
Find Files
Upload
Edit
Properties
New
Download
Edit
Properties
New
C:\Users\mghanbari\OneDrive - Red River College Polytech\Documents\
/var/www/html/blog/
Name Size Type Changed
.. Parent directory 2/1/2024 9:55:51 PM
Arduino File folder 10/28/2023 1:59:02 PM
Custom Office Templa... File folder 9/11/2023 11:05:30 AM
SQL Manager for MyS... File folder 2/1/2024 9:55:51 PM
VPProjects File folder 1/26/20 4:47:49 PM
Name Size Changed Rights
.. 2/1/2024 10:55:44 AM rwxrwxr-x
config.php 1 KB 2/2/2024 6:21:27 PM rw-r--r--
create.php 1 KB 5/8/2013 3:44:52 PM rw-r--r--
database.php 2 KB 5/8/2013 3:44:52 PM rw-r--r--
footer.php 1 KB 5/8/2013 3:44:52 PM rw-r--r--
header.php 1 KB 5/8/2013 3:44:52 PM rw-r--r--
index.php 1 KB 5/8/2013 3:44:52 PM rw-r--r--
menu.php 1 KB 5/8/2013 3:44:52 PM rw-r--r--
posts.sql 2 KB 5/8/2013 3:45:42 PM rw-r--r--
process_post.php 1 KB 5/8/2013 3:44:52 PM rw-r--r--
show.php 1 KB 5/8/2013 3:44:52 PM rw-r--r--
style.css 2 KB 5/8/2013 3:44:52 PM rw-r--r--

menu.php

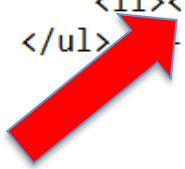
/var/www/html/blog/menu.php – maryam@192.168.56.101 – Editor – WinSCP

Encoding Color

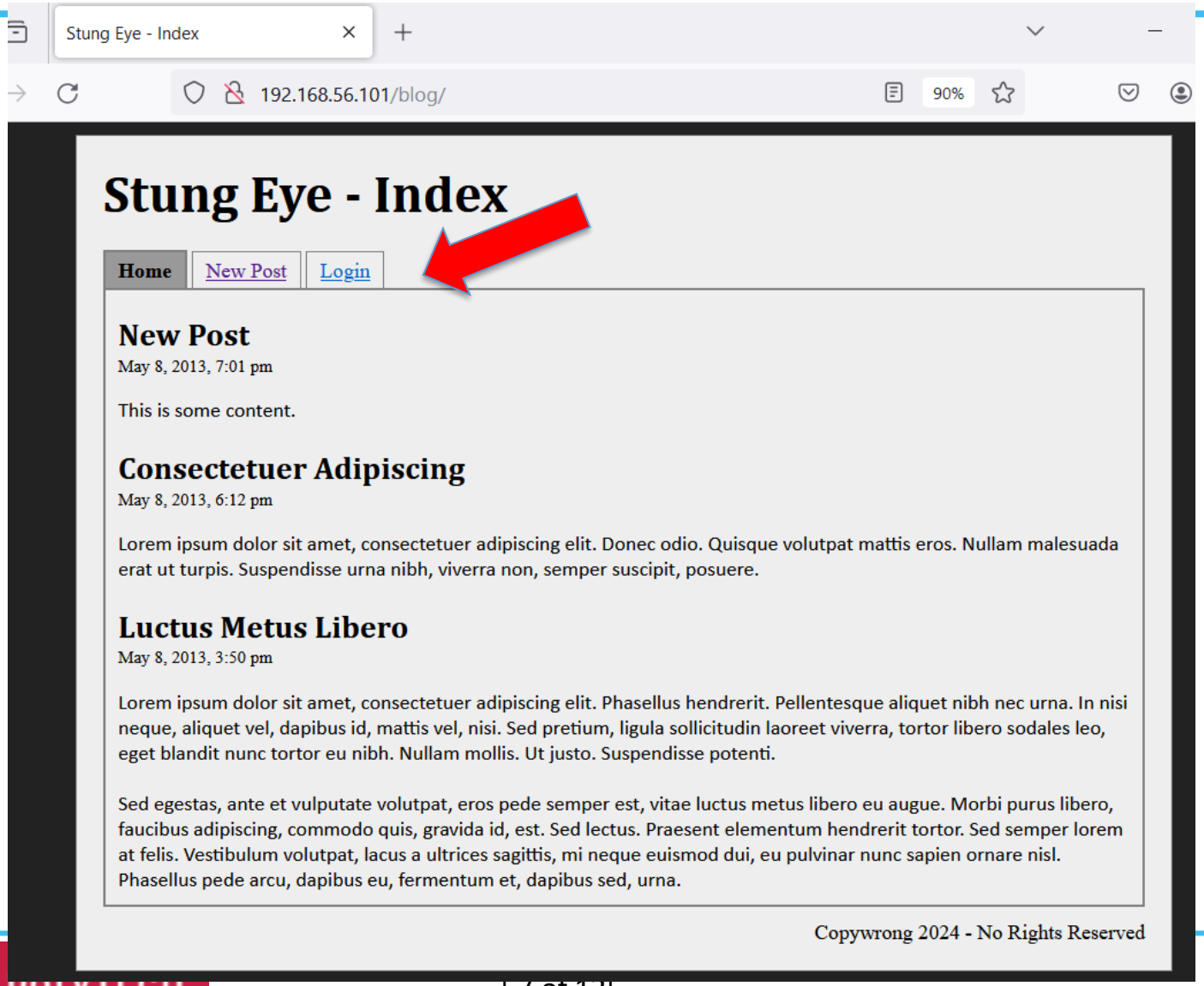
```
<?php
  if (!isset($g_page)) {
      $g_page = '';
  }
?>
<ul id="menu">
    <li><a href="index.php" <?= ($g_page == 'index') ? "class='active'" : '' ?>>Home</a></li>
    <li><a href="create.php" <?= ($g_page == 'create') ? "class='active'" : '' ?>>New Post</a></li>
</ul> <!-- END div id="menu" -->
```

Edit menu.php

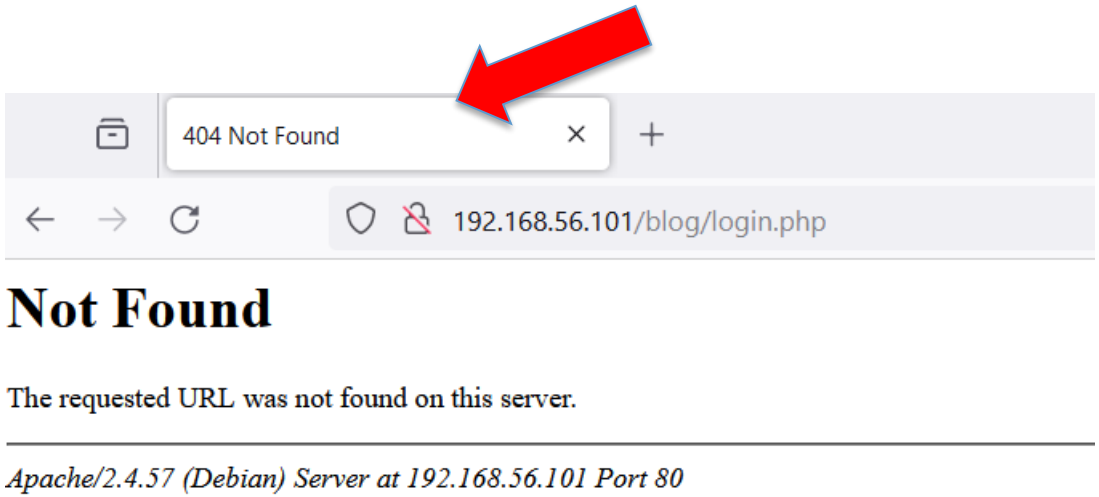
```
<?php
  if (!isset($g_page)) {
      $g_page = '';
  }
?>
<ul id="menu">
    <li><a href="index.php" <?= ($g_page == 'index') ? "class='active'" : '' ?>>Home</a></li>
    <li><a href="create.php" <?= ($g_page == 'create') ? "class='active'" : '' ?>>New Post</a></li>
    <li><a href="login.php" <?= ($g_page == 'login') ? "class='active'" : '' ?>>Login</a></li>
</ul>  -- END div id="menu" -->
```



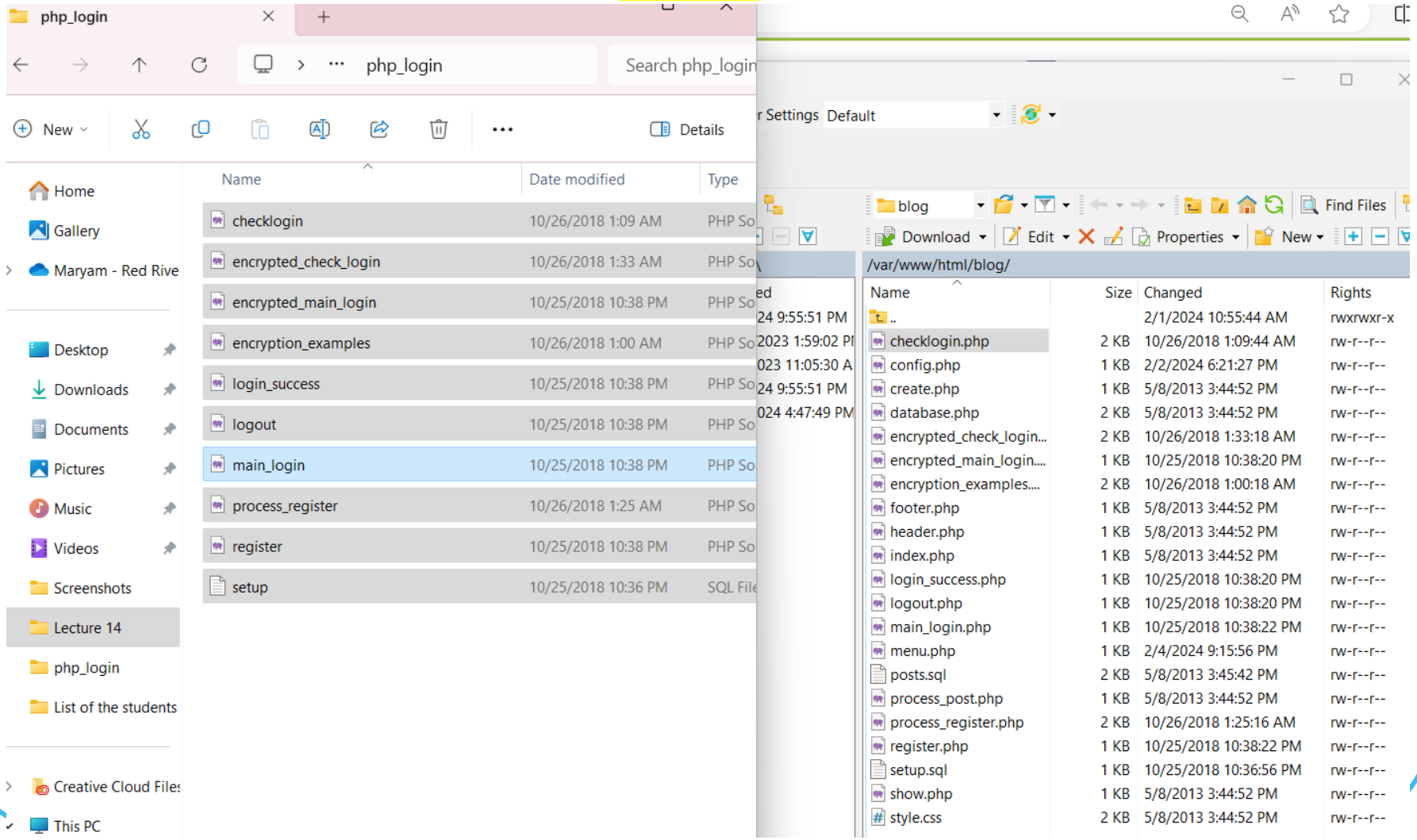
Browser - > http://192.168.56.101/blog/index.php



Click on Login menu



Drag the files from the "php_login" folder to the website in the "blog" directory

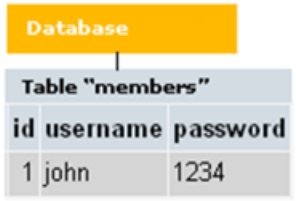


Create our Table “members”

- from

STEP 2: Create table "members"

Test your above and log into your database with the account created above. Use the SQL below for testing this code. It will create a table called members in your blog database.




```
CREATE TABLE `members` (
`id` int(4) NOT NULL auto_increment,
`username` varchar(255) NOT NULL default '',
`password` varchar(255) NOT NULL default '',
PRIMARY KEY (`id`)
) AUTO_INCREMENT=2 ;
--
-- Dumping data for table `members`
--
INSERT INTO `members` VALUES (1, 'john', '1234');
```

Create our Table “members”

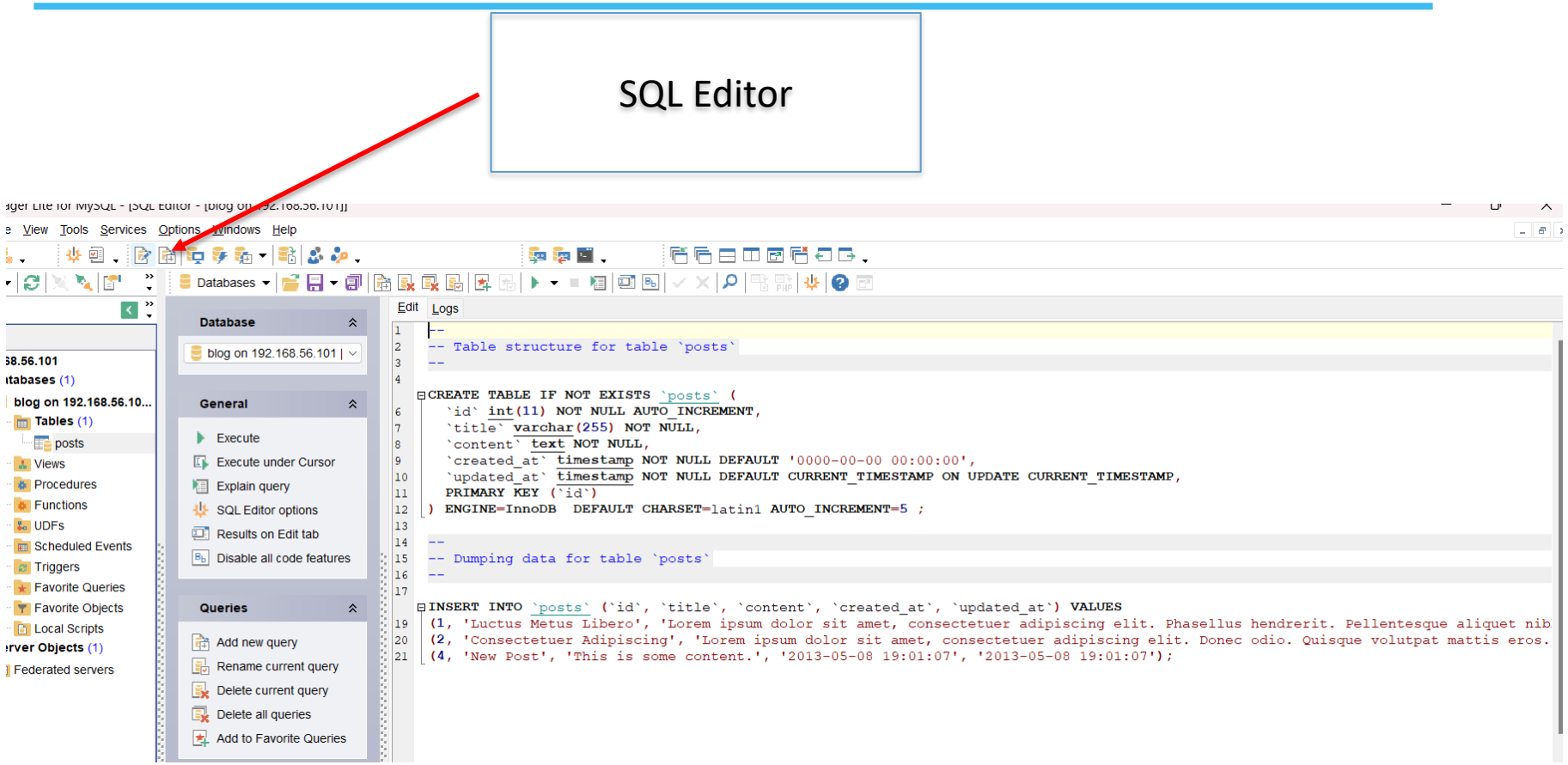
- or

setup

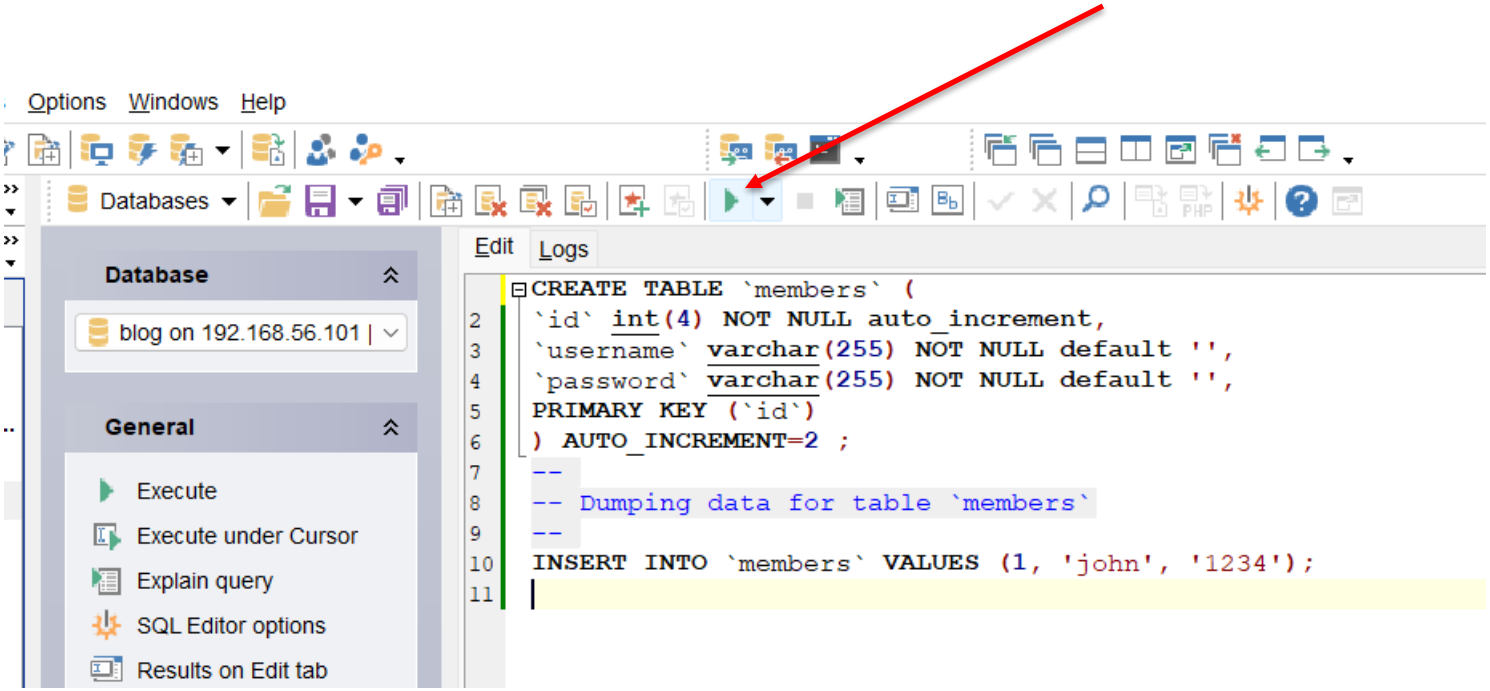
File Edit View

```
CREATE TABLE `members` (
`id` int(4) NOT NULL auto_increment,
`username` varchar(200) NOT NULL default '',
`password` varchar(200) NOT NULL default '',
PRIMARY KEY (`id`)
) AUTO_INCREMENT=2 ;
--
-- Dumping data for table `members`
--
INSERT INTO `members` VALUES (1, 'john', '1234');

-- Set Permissions
-- Create user login_user, and allow him to select only on username and password:
CREATE USER 'login_user'@'localhost' IDENTIFIED BY '1234';
GRANT SELECT ON `blog`.`members` TO 'login_user'@'localhost';

-- Create user register_user and let him insert records into database:
CREATE USER 'register_user'@'localhost' IDENTIFIED BY '1234';
GRANT INSERT ON `blog`.`members` TO 'register_user'@'localhost';

-- Create a 3rd user that will have normal access to the system:
CREATE USER 'normal_user'@'localhost' IDENTIFIED BY '1234';

GRANT SELECT , INSERT , UPDATE , DELETE , REFERENCES ON `blog`.* TO 'normal_user'@'%';

-- Update privileges in database. RUN AGAINST LOCALHOST, NOT ON DATABASE blog.
FLUSH PRIVILEGES
```

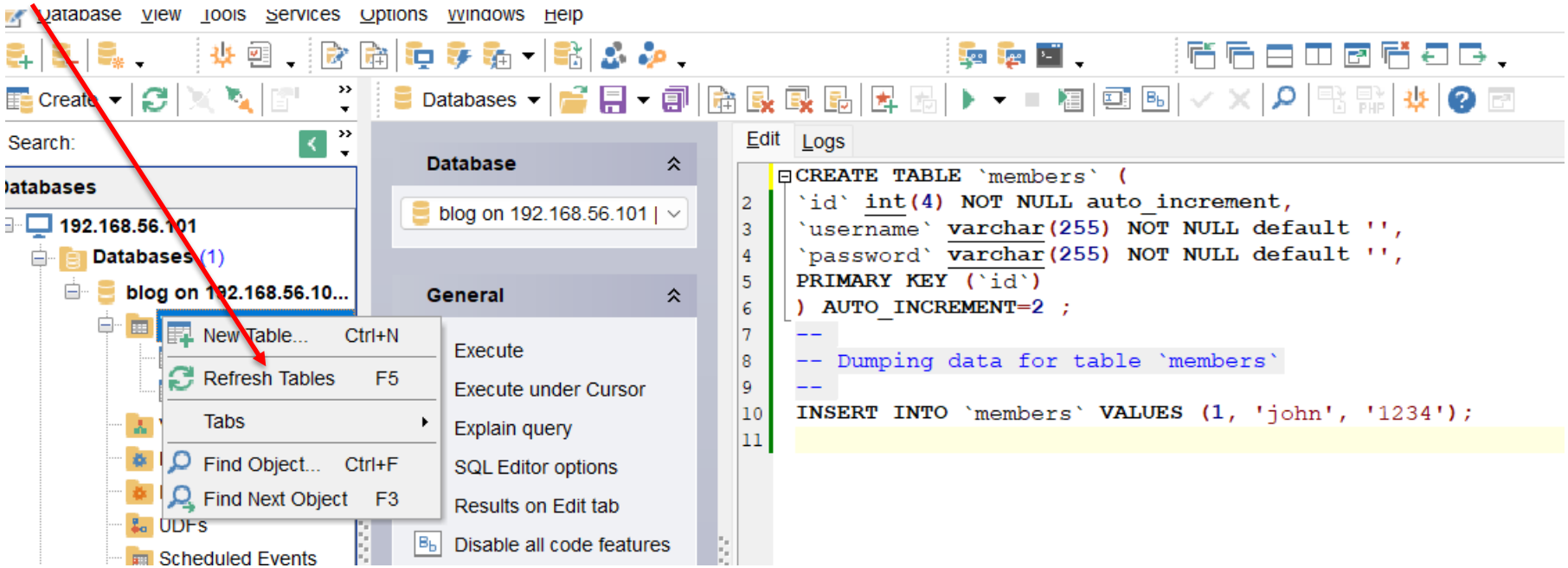
SQL editor


SQL Editor
View Tools Services Options Windows Help
Databases
Database
blog on 192.168.56.101
General
Execute
Execute under Cursor
Explain query
SQL Editor options
Results on Edit tab
Disable all code features
Queries
Add new query
Rename current query
Delete current query
Delete all queries
Add to Favorite Queries
Edit Logs
Views
Procedures
Functions
UDFs
Scheduled Events
Triggers
Favorite Queries
Favorite Objects
Local Scripts
Federated servers
Tables (1)
posts
-- Table structure for table `posts`
CREATE TABLE IF NOT EXISTS `posts` (
`id` int(11) NOT NULL AUTO_INCREMENT,
`title` varchar(255) NOT NULL,
`content` text NOT NULL,
`created_at` timestamp NOT NULL DEFAULT '0000-00-00 00:00:00',
`updated_at` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
PRIMARY KEY (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=5 ;
-- Dumping data for table `posts`
INSERT INTO `posts` (`id`, `title`, `content`, `created_at`, `updated_at`) VALUES
(1, 'Luctus Metus Libero', 'Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Phasellus hendrerit. Pellentesque aliquet nib
(2, 'Consectetuer Adipiscing', 'Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Donec odio. Quisque volutpat mattis eros.
(4, 'New Post', 'This is some content.', '2013-05-08 19:01:07', '2013-05-08 19:01:07');

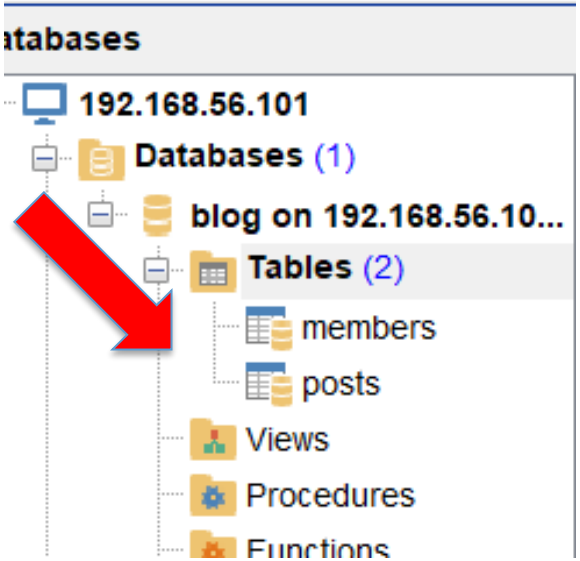
Run Query


Options Windows Help
Databases
Database
blog on 192.168.56.101 |
General
Execute
Execute under Cursor
Explain query
SQL Editor options
Results on Edit tab
Edit Logs
CREATE TABLE `members` (
`id` int(4) NOT NULL auto_increment,
`username` varchar(255) NOT NULL default '',
`password` varchar(255) NOT NULL default '',
PRIMARY KEY (`id`)
) AUTO_INCREMENT=2 ;
--
-- Dumping data for table `members`
--
INSERT INTO `members` VALUES (1, 'john', '1234');

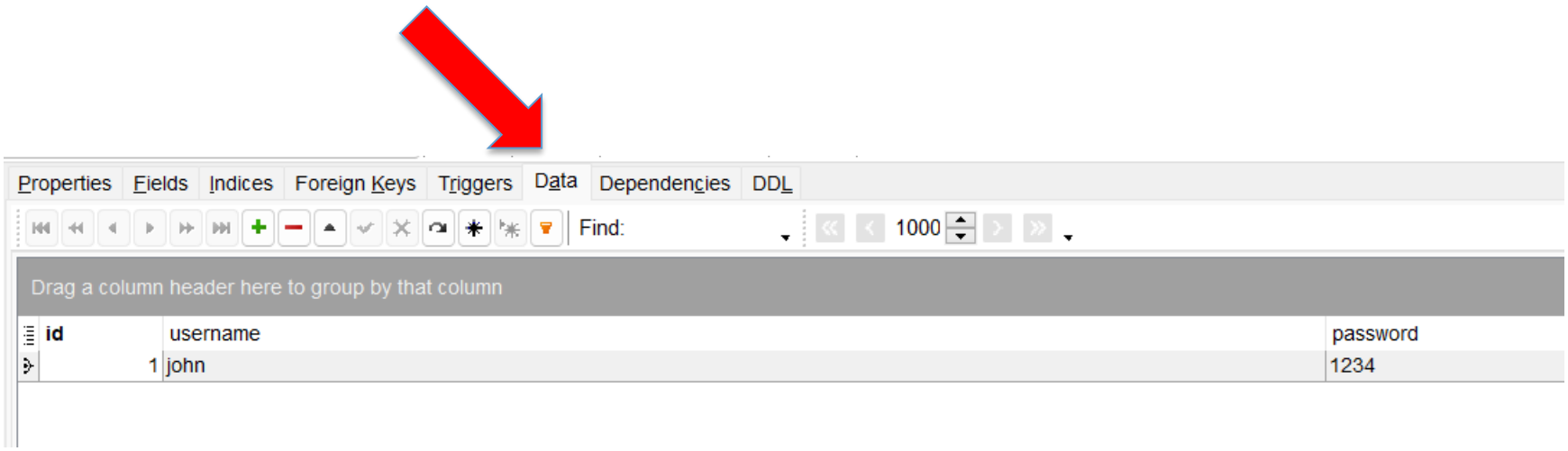
Refresh Tables



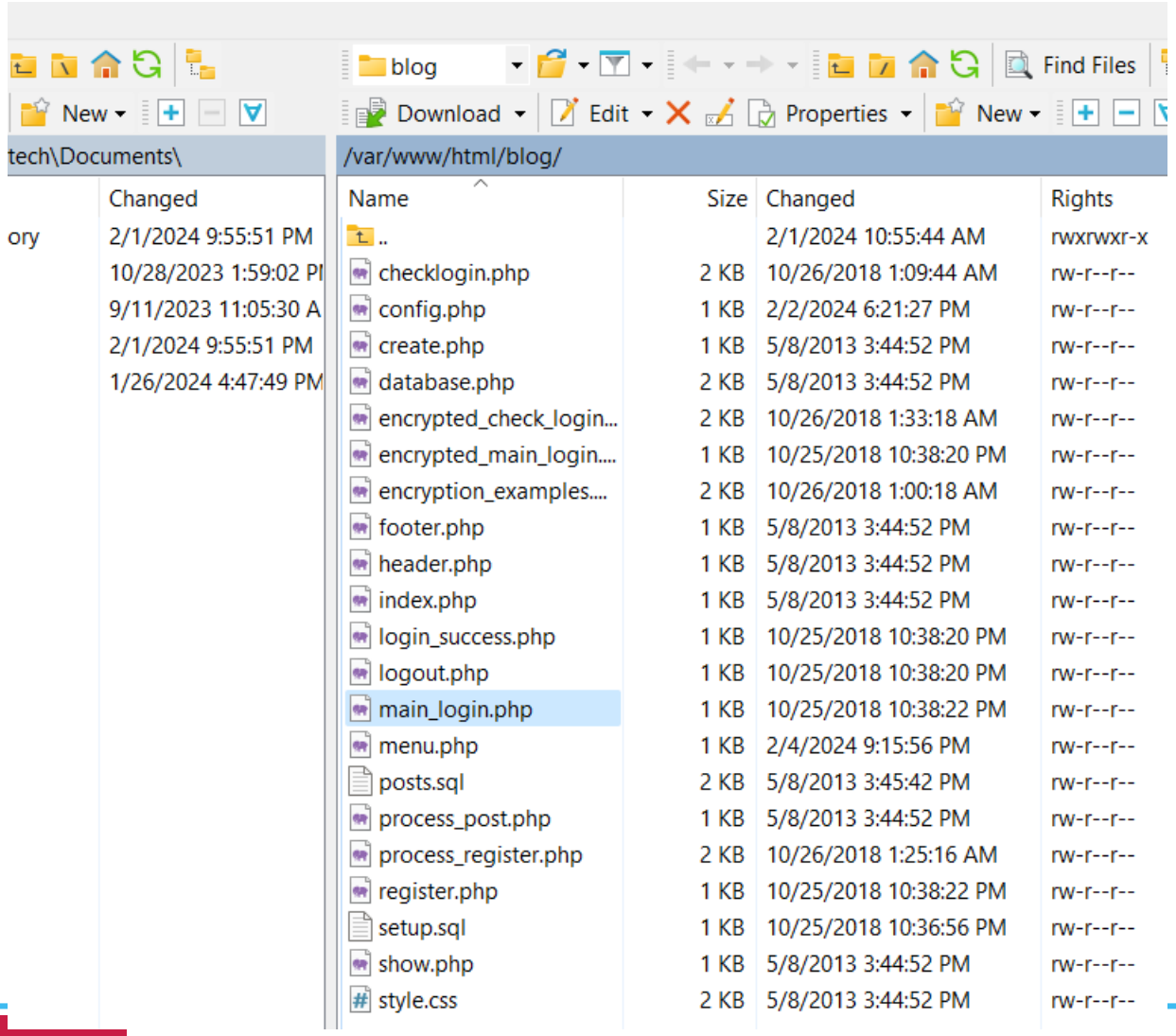
Two Tables


atabases
192.168.56.101
Databases (1)
blog on 192.168.56.10...
Tables (2)
members
posts
Views
Procedures
Functions

members Table



Look at the “main_login.php”



main_login.php

/var/www/html/blog/main_login.php – maryam@192.168.56.101 – Editor – WinSCP

Encoding ▾ Color ▾

```
<html>
	<head>
		<title>Main Login Page</title>
	</head>
	<body>

		<table width="300" border="0" align="center" cellpadding="0" cellspacing="1" bgcolor="#CCCCCC">
			<tr>
				<form name="form1" method="post" action="checklogin.php">
					<td>
						<table width="100%" border="0" cellpadding="3" cellspacing="1" bgcolor="#FFFFFF">
							<tr>
								<td colspan="3"><strong>Member Login </strong></td>
							</tr>
							<tr>
								<td width="78">Username</td>
								<td width="6">:</td>
								<td width="294"><input name="myusername" type="text" id="myusername"></td>
							</tr>
							<tr>
								<td>Password</td>
								<td>:</td>
								<td><input name="mypassword" type="text" id="mypassword"></td>
							</tr>
							<tr>
								<td> </td>
								<td> </td>
								<td><input type="submit" name="Submit" value="Login"></td>
							</tr>
						</table>
					</td>
				</form>
			</tr>
		</table>

	</body>
</html>
```

checklogin.php

- We will check it in the next competency.

/var/www/html/blog/checklogin.php – maryam@192.168.56.101 – Editor – WinSCP

Encoding ▾ Color ▾

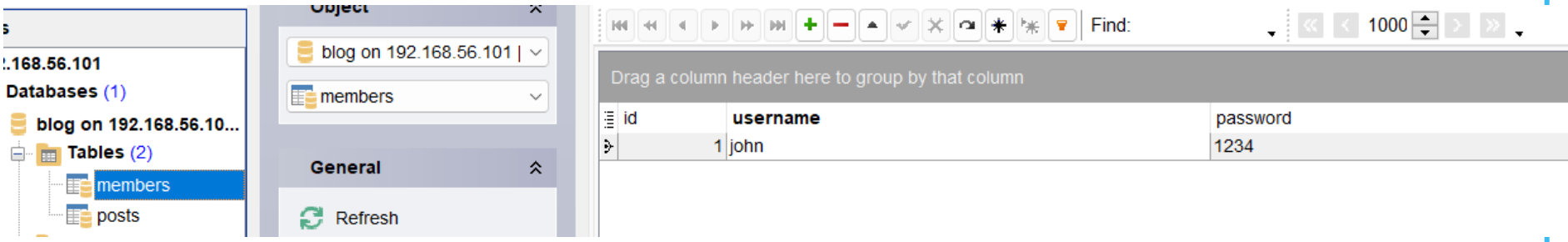
```
<html>
	<head>
		<title>Main Login Page</title>
	</head>
	<body>

<?php

ob_start();
$host="localhost"; // Host name
$username="bloguser"; // Mysql username
$password="bloguser"; // Mysql password
$db_name="blog"; // Database name
$tbl_name="members"; // Table name
$mysqli = new mysqli($host, $username, $password, $db_name);

/* check connection */
if ($mysqli->connect_errno) {
	printf("Connect failed: %s\n", $mysqli->connect_error);
	exit();
}

$myusername=$_POST['myusername'];
$mypassword=$_POST['mypassword'];
// To protect MySQL injection
$myusername = stripslashes($myusername);
$mypassword = stripslashes($mypassword);

$cleanusername = $mysqli->real_escape_string($myusername);
$cleanpassword = $mysqli->real_escape_string($mypassword);

$sql="SELECT password FROM $tbl_name WHERE username='$cleanusername' \n limit
// $result=mysql_query($sql);
$result = $mysqli->query($sql);

while ($row = $result->fetch_assoc()) {
	$returnedpassword=$row['password'];
}
// If returned password matches entered password, valid login

if($mypassword==$returnedpassword && $mypassword<>''){
	// Register $myusername and redirect to file "login success.php"
```

RRC POLYTECH

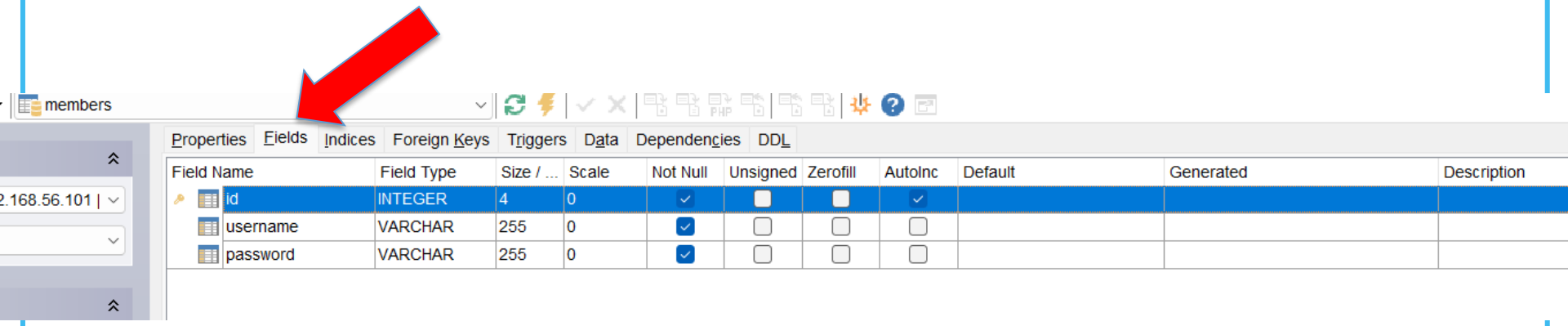
encrypted_check_login.php

```
</head>
<body>

        <?php

        ob_start();
        $host="localhost"; // Host name
        $username="bloguser"; // Mysql username
        $password="bloguser"; // Mysql password
        $db_name="blog"; // Database name
        $tbl_name="members"; // Table name

        $mysqli = new mysqli($host, $username, $password, $db_name);

        /* check connection */
        if ($mysqli->connect_errno) {
                printf("Connect failed: %s\n", $mysqli->connect_error);
                exit();
        }

        $myusername=$_POST['myusername'];
        $mypassword=$_POST['mypassword'];
        // To protect MySQL injection
        $myusername = stripslashes($myusername);
        $mypassword = stripslashes($mypassword);

        $cleanusername = $mysqli->real_escape_string($myusername);
        $cleanpassword = $mysqli->real_escape_string($mypassword);

        $sql="SELECT password,salt FROM $tbl_name WHERE username='$cleanusername' \n limit 1";
        // $result=mysql_query($sql);
        $result = $mysqli->query($sql);
        while ($row = $result->fetch_assoc()) {
                $returnedpassword=$row['password'];
                $returnedsalt=$row['salt'];
        }

        // take clean password, salt and encrypt it as we did in the register page
        $salted_password=$returnedsalt.$cleanpassword;
        $checkpassword = hash("sha512", $salted_password);

        // If returned password matches entered password, valid login
```

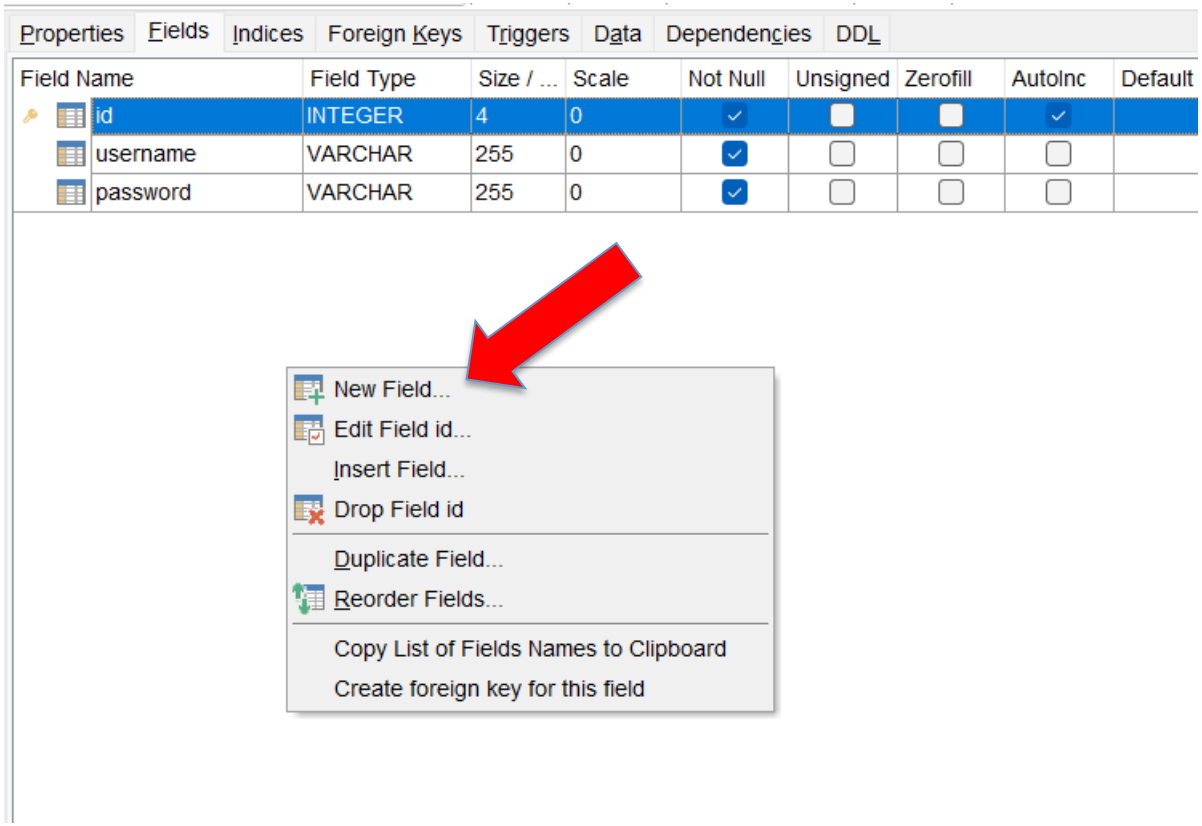
SQL Manager - > Data Tab



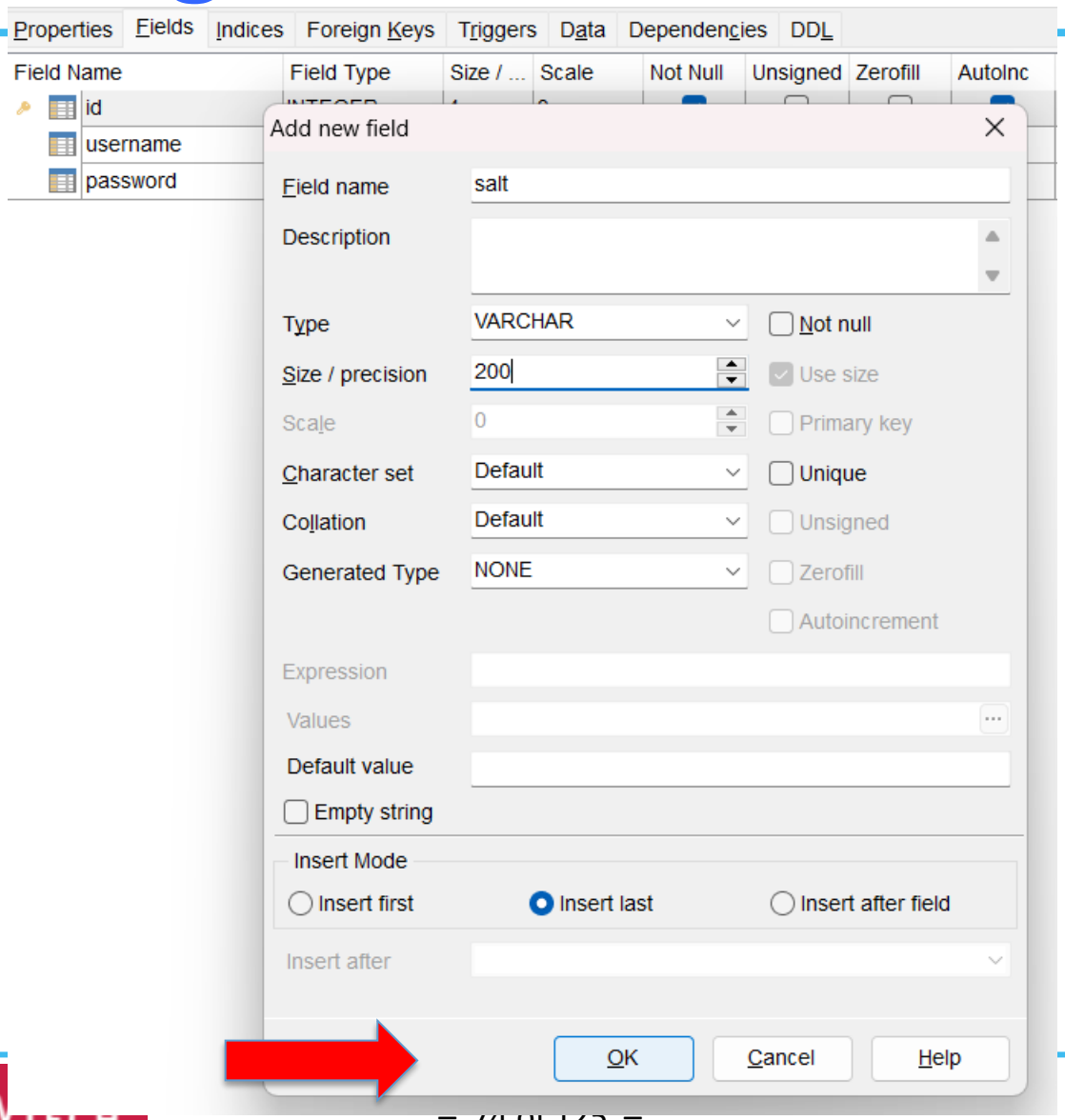
SQL Manager - > Fields Tab



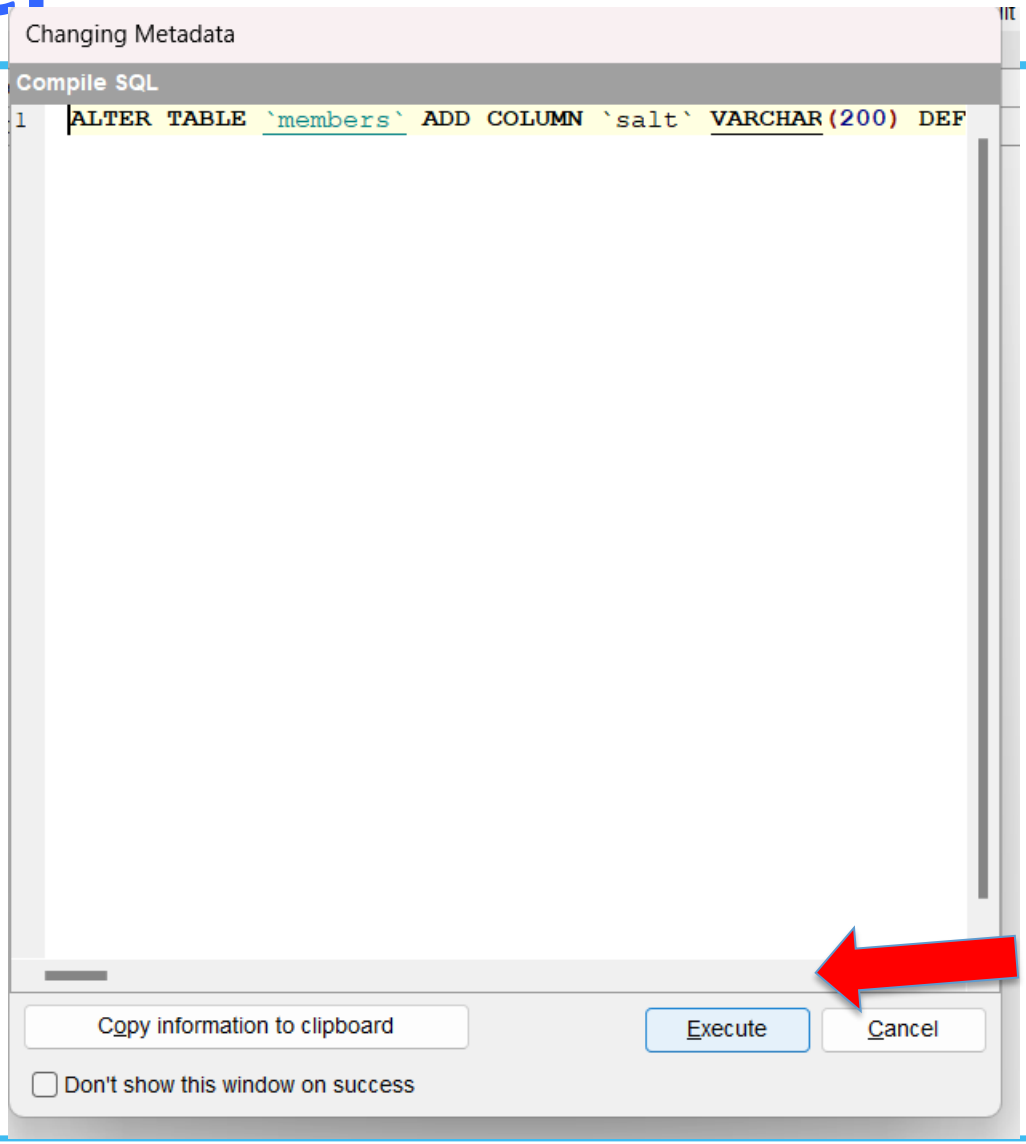
SQL Manager - > New Field



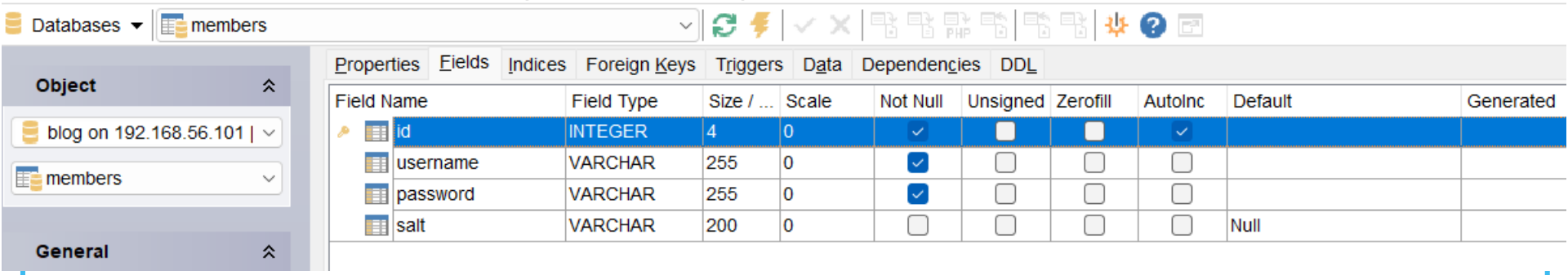
SQL Manager - > Add “salt”



SQL Manager


Changing Metadata
Compile SQL
1 ALTER TABLE `members` ADD COLUMN `salt` VARCHAR(200) DEF
Copy information to clipboard
Execute
Cancel
Don't show this window on success

SQL Manager - > the New Column Is Added



“process_register.php” File - > Store Information about the user

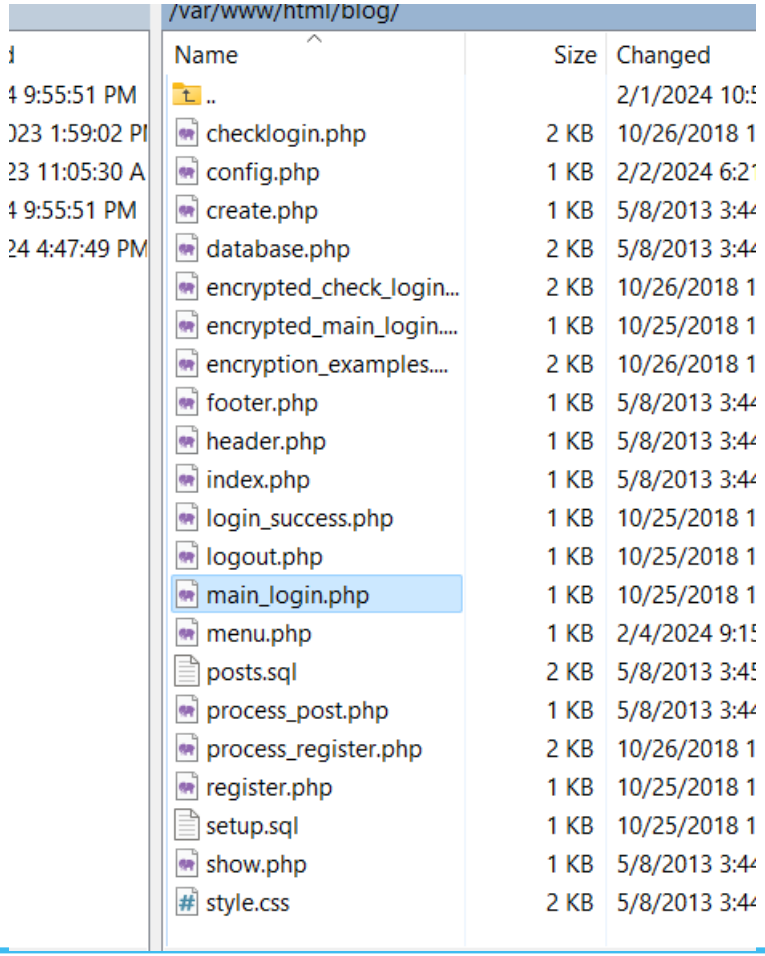
```
<html>
	<head>
		<title>Main Register Page</title>
	</head>
	<body>

		<?php

		ob_start();
		$host="localhost"; // Host name
		$username="bloguser"; // Mysql username
		$password="bloguser"; // Mysql password
		$db_name="blog"; // Database name
		$tbl_name="members"; // Table name

		$mysqli = new mysqli($host, $username, $password, $db_name);

		/* check connection */
		if ($mysqli->connect_errno) {
			printf("Connect failed: %s\n", $mysqli->connect_error);
			exit();
		}
		$myusername=$_POST['myusername'];
		$mypassword=$_POST['mypassword'];

		// To protect MySQL injection (more detail about MySQL injection)
		$cleanusername = $myusername;
		$cleanpassword = $mypassword;

		// salting adds uniqueness to each entry.
		$salt=uniqid() ;
		$salted_password=$salt.$cleanpassword;
		$encrypted_password = hash("sha512", $salted_password);

		$sql="insert into $tbl_name (username,password,salt) values ('$cleanusername','$encrypted_password','$salt')";
		if (!$mysqli->query($sql)) {
			echo "INSERT failed: (" . $mysqli->errno . ") " . $mysqli->error;
		}
		else
		{
			echo "Registered";
		}
```

“process_register.php” File - > salt

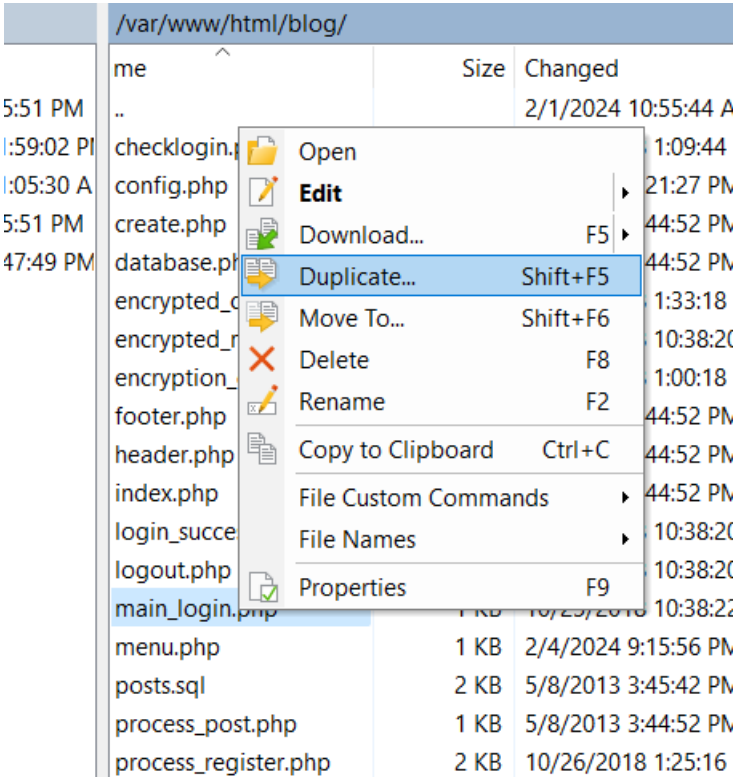
```
// salting adds uniqueness to each entry.
$salt=uniqid() ;
$salted_password=$salt.$cleanpassword;
$encrypted_password = hash("sha512", $salted_password);

$sql="insert into $tbl_name (username,password,salt) values ('$cleanusername','$encrypted_password','$salt')";
if (!$mysqli->query($sql)) {
        echo "INSERT failed: (" . $mysqli->errno . ") " . $mysqli->error;
}
else
{
        echo "Registered";
}
```

Hashing process

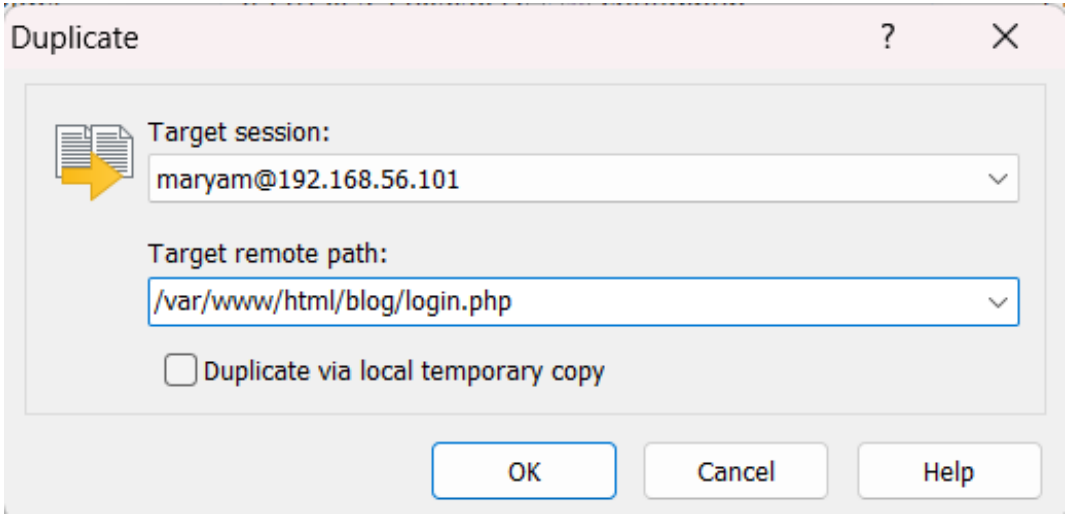
“main_login.php” File



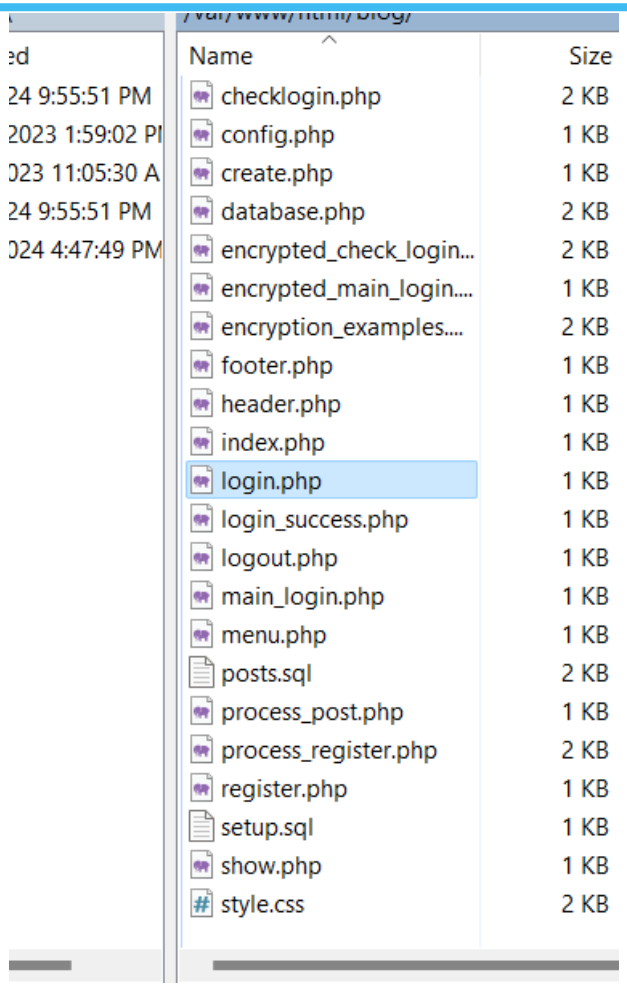
Duplicate “main_login.php” File



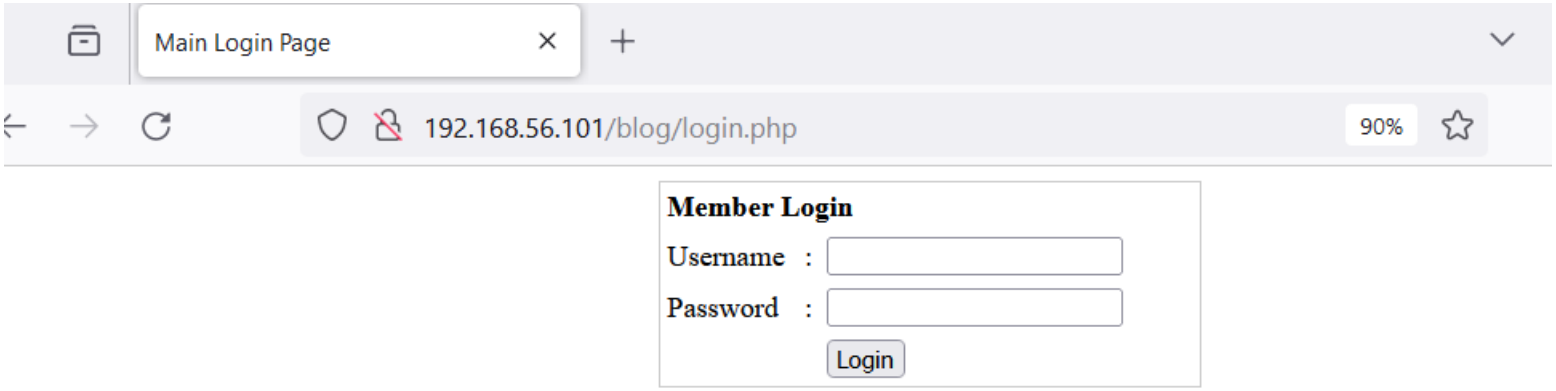
SQL Manager


Duplicate
Target session:
maryam@192.168.56.101
Target remote path:
/var/www/html/blog/login.php
Duplicate via local temporary copy
OK
Cancel
Help

SQL Manager


Name
Size
checklogin.php 2 KB
config.php 1 KB
create.php 1 KB
database.php 2 KB
encrypted_check_login... 2 KB
encrypted_main_login.... 1 KB
encryption_examples.... 2 KB
footer.php 1 KB
header.php 1 KB
index.php 1 KB
login.php 1 KB
login_success.php 1 KB
logout.php 1 KB
main_login.php 1 KB
menu.php 1 KB
posts.sql 2 KB
process_post.php 1 KB
process_register.php 2 KB
register.php 1 KB
setup.sql 1 KB
show.php 1 KB
style.css 2 KB

Browser -> login page



- We have to improve the web page.

index.php - > copy

/var/www/html/blog/index.php – maryam@192.168.56.101 – Editor – WinSCP

Encoding Color

```php
<?php
  require 'config.php';
  require 'database.php';
  $g_title = BLOG_NAME . ' - Index';
  $g_page = 'index';
  require 'header.php';
  require 'menu.php';

  $posts = find_all_blogs(BLOG_INDEX_NUM_POSTS);
?>
<div id="all_blogs">
  <?php foreach($posts as $post): ?>
    <div class="blog_post">
      <h2><a href="show.php?id=<?=$post['id']?>"><?= htmlspecialchars($p
      <p>
        <small>
          <?= $post['created_at'] ?>
        </small>
      </p>
      <div class='blog_content'>
        <?= nl2br(htmlspecialchars($post['content'])) ?>
      </div>
    </div>
  <?php endforeach; ?>
</div>
<?php
  require 'footer.php';
?>
```

Design Layout References Mailings Review View

Maryam Ghanbari (mghanbari@R

blog

Download Edit Properties

/var/www/html/blog/

Name	Size	Changed
..		2/1/2024 1
checklogin.php	2 KB	10/26/2018
config.php	1 KB	2/2/2024 6
create.php	1 KB	5/8/2013 3
database.php	2 KB	5/8/2013 3
encrypted_check_login...	2 KB	10/26/2018
encrypted_main_login....	1 KB	10/25/2018
encryption_examples....	2 KB	10/26/2018
footer.php	1 KB	5/8/2013 3
header.php	1 KB	5/8/2013 3
index.php	1 KB	5/8/2013 3
login.php	1 KB	2/4/2024 1
login_success.php	1 KB	10/25/2018
logout.php	1 KB	10/25/2018
main_login.php	1 KB	10/25/2018
menu.php	1 KB	2/4/2024 9
posts.sql	2 KB	5/8/2013 3

login page -> paste (1/2)

/var/www/html/blog/login.php – maryam@192.168.56.101 – Editor – WinSCP

Encoding ▾ Color ▾

```
<?php
  require 'config.php';
  require 'database.php';
  $g_title = BLOG_NAME . ' - Index';
  $g_page = 'index';
  require 'header.php';
  require 'menu.php';

  $posts = find_all_blogs(BLOG_INDEX_NUM_POSTS);
?>
<div id="all_blogs">

                <table width="300" border="0" align="center" cellpadding="0" cellspacing="1" bgcolor="#CCCCCC">
                        <tr>
                                <form name="form1" method="post" action="checklogin.php">
                                        <td>
                                                <table width="100%" border="0" cellpadding="3" cellspacing="1" bg
                                                        <tr>
                                                                <td colspan="3"><strong>Member Login </strong></t
                                                        </tr>
                                                        <tr>
                                                                <td width="78">Username</td>
                                                                <td width="6">:</td>
                                                                <td width="294"><input name="myusername" type="te
                                                        </tr>
                                                        <tr>
```

index.php - > copy

```
                                                                    <td><input name="mypassword" type="text" id="mypa
                                                            </tr>
                                                            <tr>
                                                                    <td> </td>
                                                                    <td> </td>
                                                                    <td><input type="submit" name="Submit" value="Log
                                                            </tr>
                                                    </table>
                                            </td>
                                    </form>
                            </tr>
                    </table>

</div>
<?php
  require 'footer.php';
?>
```

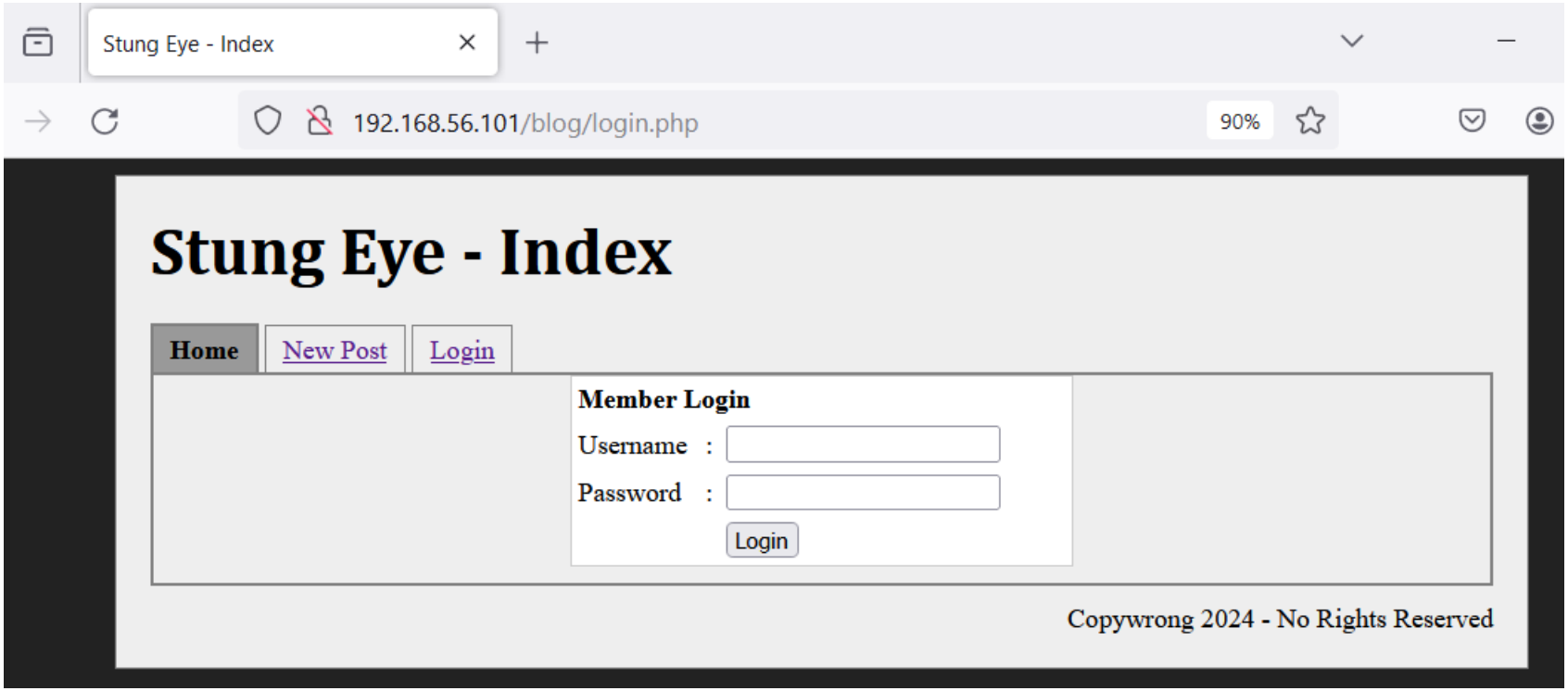
login page -> paste (2/2)

```
                                                    <td>:</td>
                                                    <td><input name="mypassword" type="text" id="mypa
                                                </tr>
                                                <tr>
                                                    <td> </td>
                                                    <td> </td>
                                                    <td><input type="submit" name="Submit" value="Log
                                                </tr>
                                            </table>
                                        </td>
                                    </form>
                                </tr>
                            </table>

</div>
<?php
  require 'footer.php';
?>
```

If you want, you can add the <HTML> and </HTML>

```
<html>
        <head>
                <title>Main Login Page</title>
        </head>
        <body>
<?php
  require 'config.php';
  require 'database.php';
  $g_title = BLOG_NAME . ' - Index';
  $g_page = 'index';
  require 'header.php';
  require 'menu.php';

  $posts = find_all_blogs(BLOG_INDEX_NUM_POSTS);
?>
<div id="all_blogs">

                <table width="300" border="0" align="center" cellpadding="0" cellspacing="1" bgcolor="#CCCCCC">
                        <tr>
                                <form name="form1" method="post" action="checklogin.php">
                                        <td>
                                                <table width="100%" border="0" cellpadding="3" cellspacing="1" bgcolor="#
                                                        <tr>
```

Browser -> login page



Improve the web page

```
BLOG_INDEX_NUM_POSTS);


th="300" border="0" align="center" cellpadding="0" cellspacing="1" bgcolor="#CCCCCC">
r>
      <form name="form1" method="post" action="checklogin.php">
            <td>
                  <table width="100%" border="0" cellpadding="3" cellspacing="1" bgcolor="#FFFFFF">
                        <tr>
                              <td colspan="3"><strong>Member Login </strong></td>
                        </tr>
                        <tr>
                              <td width="78">Username</td>
                              <td width="6">:</td>
                              <td width="294"><input name="myusername" type="text" id="myusername"></td>
                        </tr>
                        <tr>
                              <td>Password</td>
                              <td>:</td>
                              <td><input name="mypassword" type="text" id="mypassword"></td>
                        </tr>
                        <tr>
                              <td> </td>
                              <td> </td>
                              <td><input type="submit" name="Submit" value="Login"></td>
                        </tr>
                  </table>
            </td>
      </form>
tr>
```

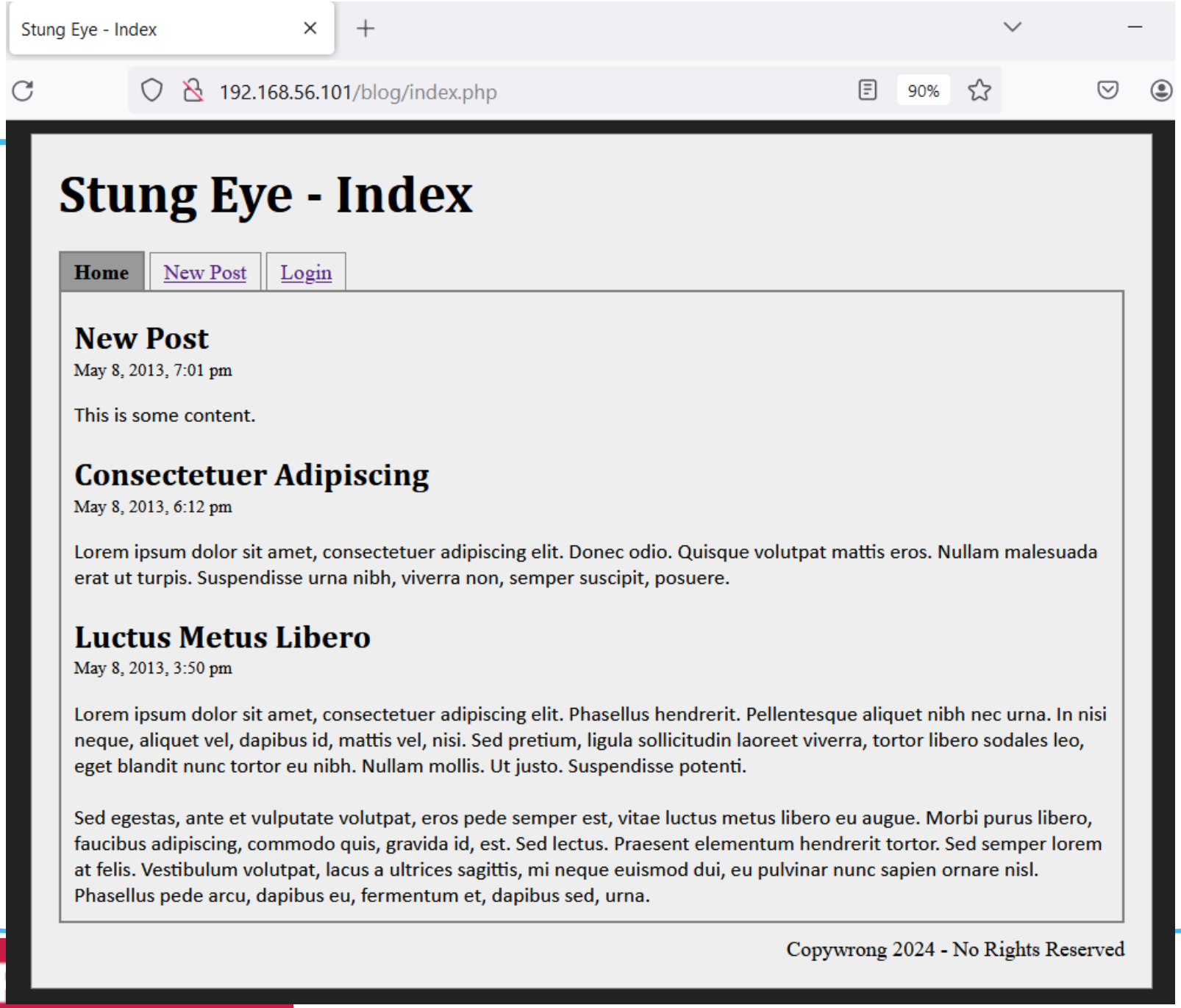
Login page: Setting up StungEye Blog Software Competency

Login.php instead of checklogin.php - > login

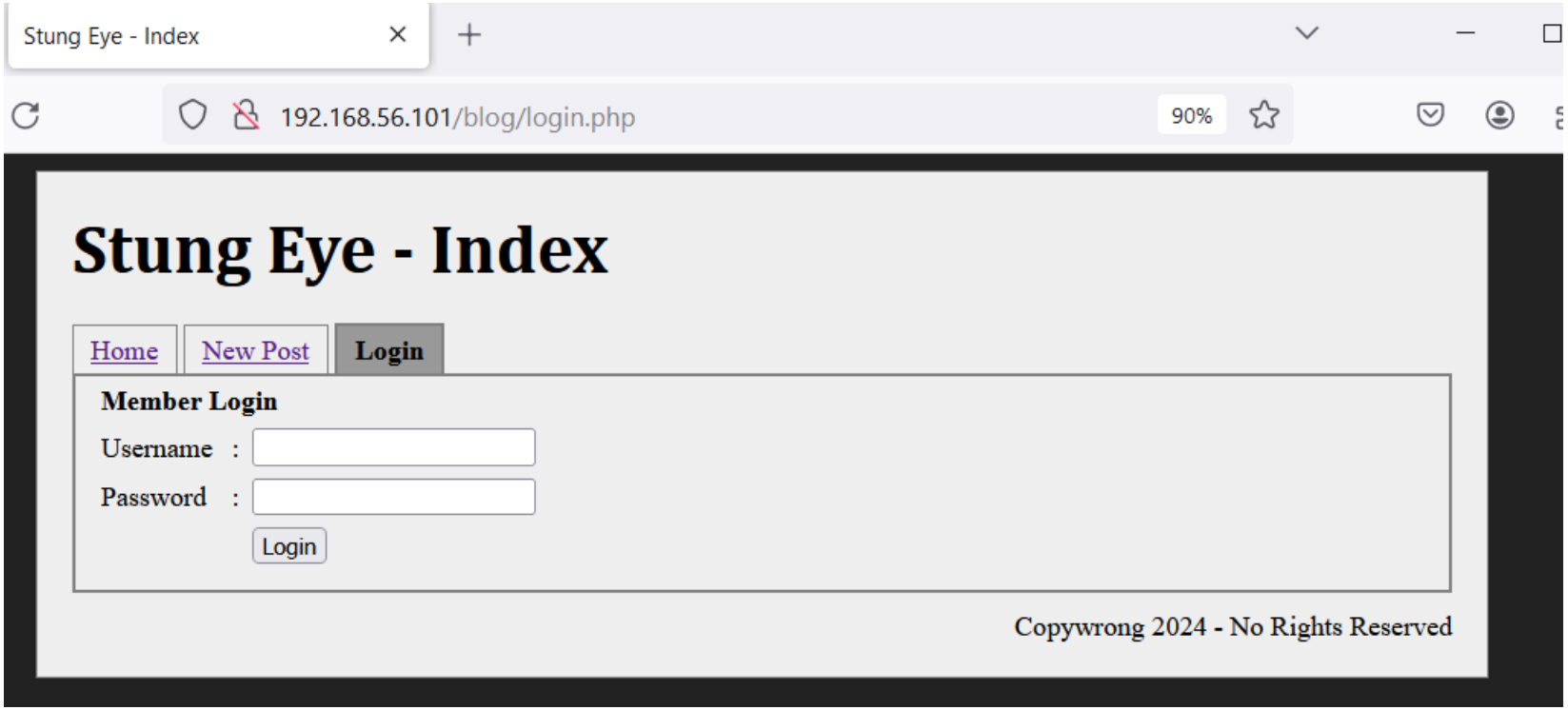
```
<table width="300" border="0" cellpadding="0" cellspacing="1">
        <tr>
                <form name="form1" method="post" action="login.php">
                        <td>
                                <table width="100%" border="0" cellpadding="3" cellspacing="1">
                                        <tr>
                                                <td colspan="3"><strong>Member Login </strong></td>
                                        </tr>
                                        <tr>
                                                <td width="78">Username</td>
```

$g_page Instead of index - > login

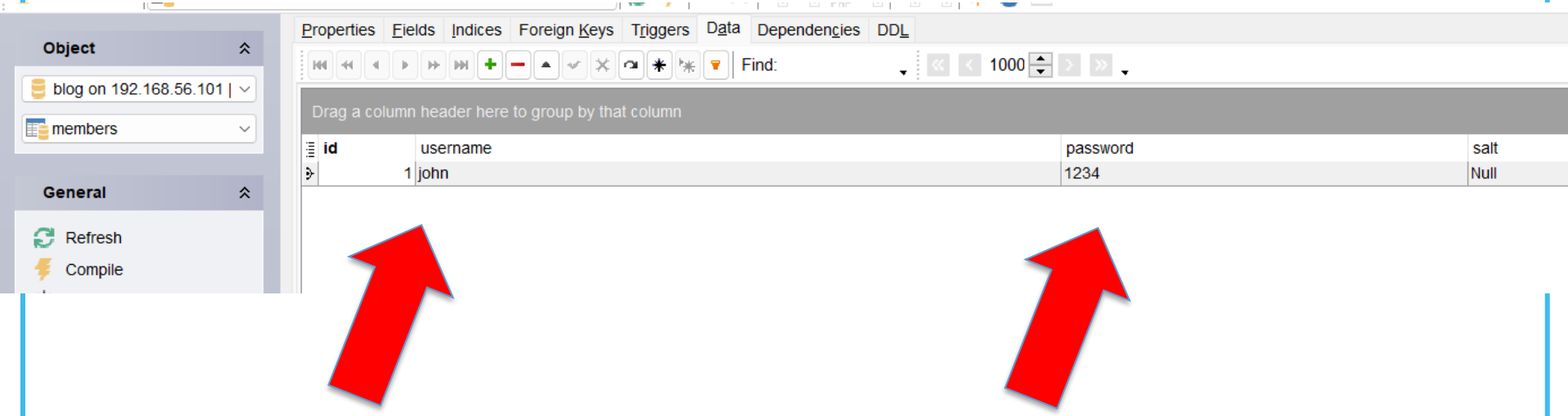
```
<?php
  require 'config.php';
  require 'database.php';
  $g_title = BLOG_NAME . ' - Index';
  $g_page = 'login';
  require 'header.php';
  require 'menu.php';

  $posts = find_all_blogs(BLOG_INDEX_NUM_POSTS);
?>
<div id="all_blogs">

                <table width="300" border="0" cellpadding="0" c
                        <tr>
                                <form name="form1" method="post
```

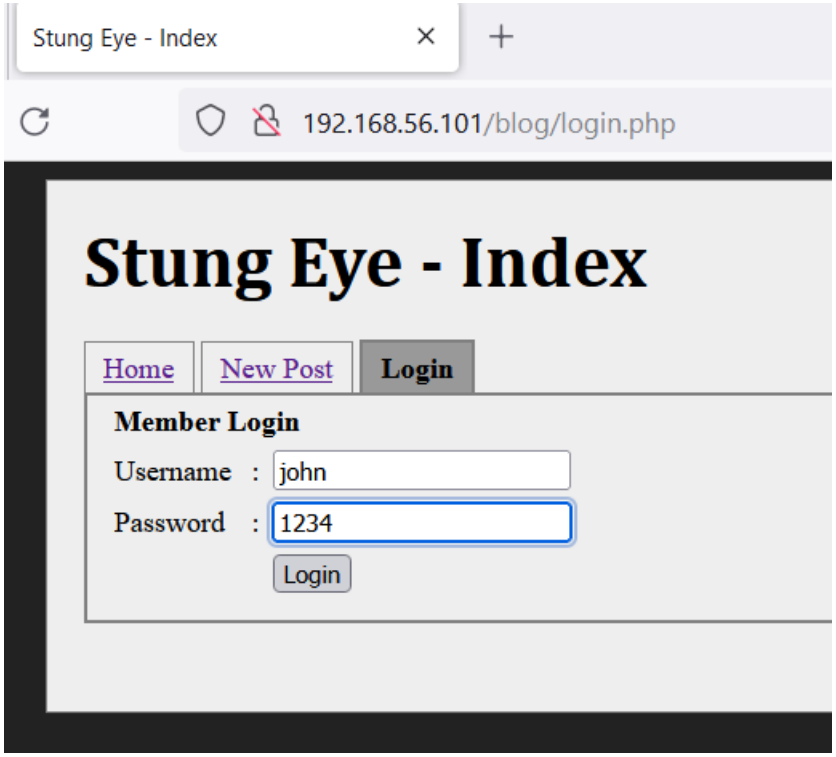

Stung Eye - Index
192.168.56.101/blog/index.php
90%
Stung Eye - Index
Home
New Post
Login
New Post
May 8, 2013, 7:01 pm
This is some content.
Consectetuer Adipiscing
May 8, 2013, 6:12 pm
Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Donec odio. Quisque volutpat mattis eros. Nullam malesuada erat ut turpis. Suspendisse urna nibh, viverra non, semper suscipit, posuere.
Luctus Metus Libero
May 8, 2013, 3:50 pm
Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Phasellus hendrerit. Pellentesque aliquet nibh nec urna. In nisi neque, aliquet vel, dapibus id, mattis vel, nisi. Sed pretium, ligula sollicitudin laoreet viverra, tortor libero sodales leo, eget blandit nunc tortor eu nibh. Nullam mollis. Ut justo. Suspendisse potenti.
Sed egestas, ante et vulputate volutpat, eros pede semper est, vitae luctus metus libero eu augue. Morbi purus libero, faucibus adipiscing, commodo quis, gravida id, est. Sed lectus. Praesent elementum hendrerit tortor. Sed semper lorem at felis. Vestibulum volutpat, lacus a ultrices sagittis, mi neque euismod dui, eu pulvinar nunc sapien ornare nisl. Phasellus pede arcu, dapibus eu, fermentum et, dapibus sed, urna.
Copywrong 2024 - No Rights Reserved

Blog website

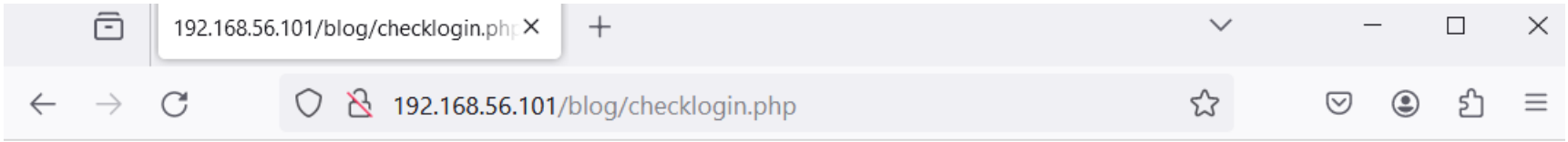


Login SQL Manager Lite for MySQL




Stung Eye - Index
192.168.56.101/blog/login.php
Stung Eye - Index
Home
New Post
Login
Member Login
Username : john
Password : 1234
Login

Output of Login



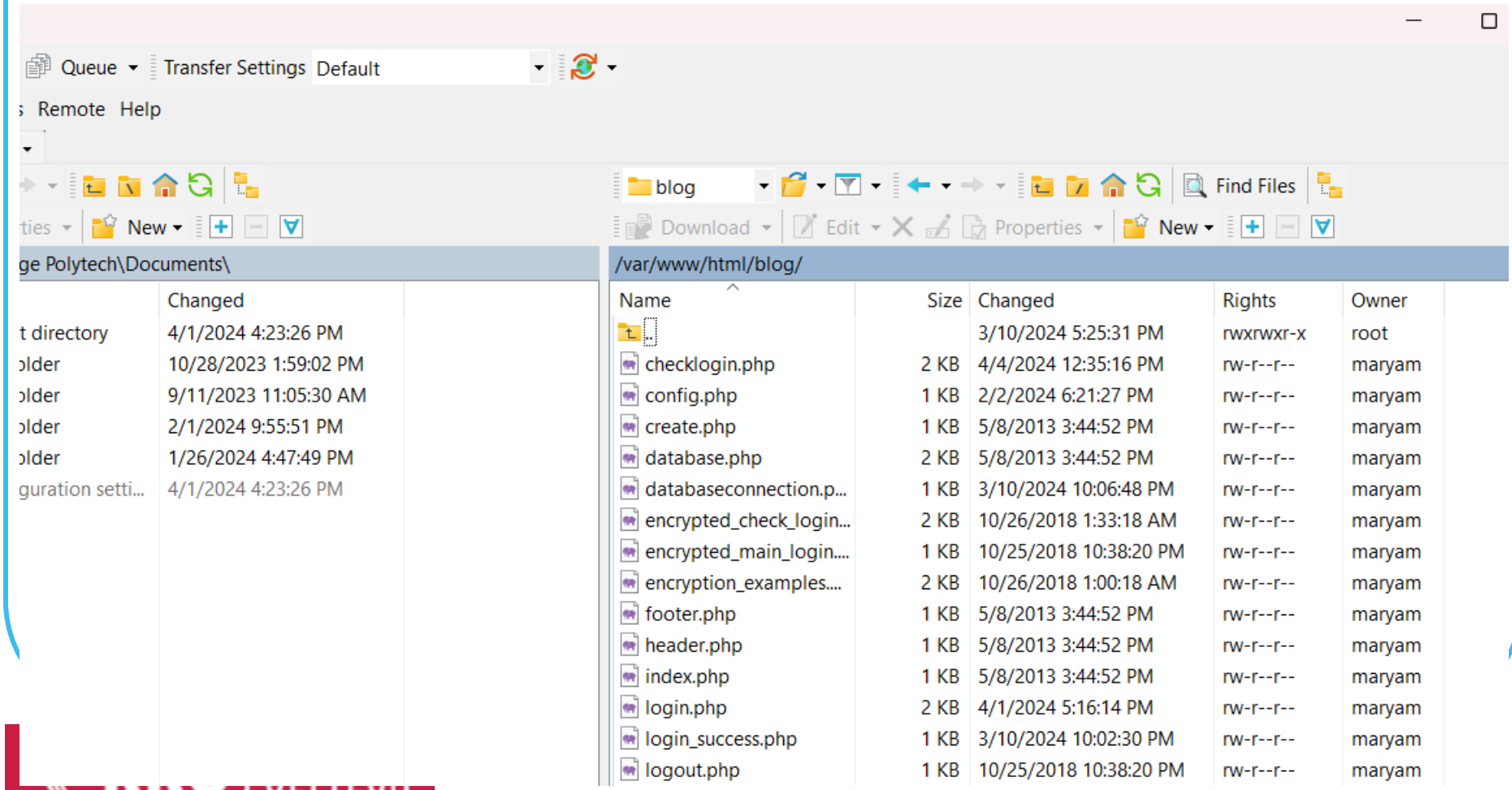
Show the error message in your PHP

Show the error message in your PHP

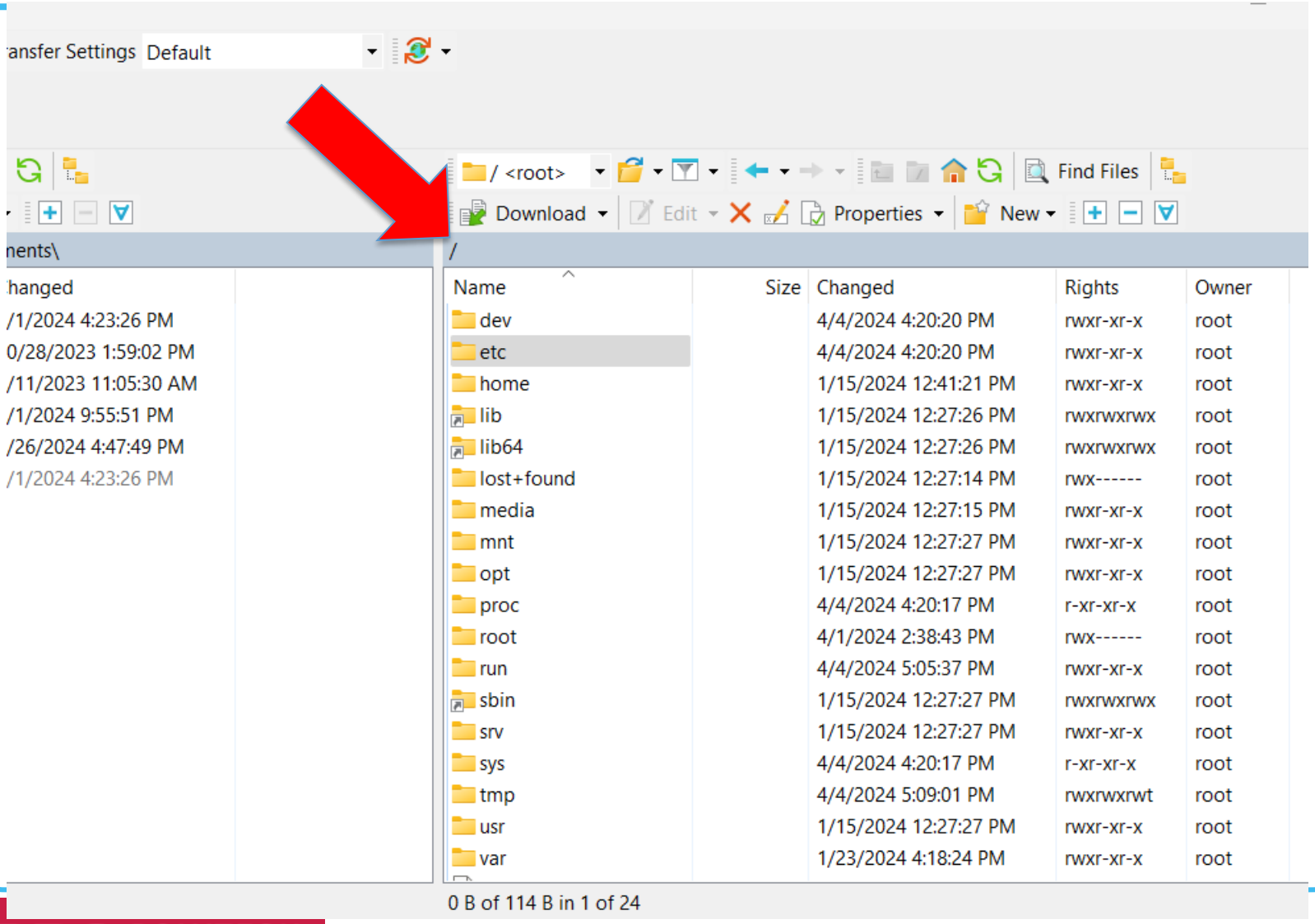
- PHP Version 7 has shown error messages.
- To fix your problem in PHP to show your error:

Open WinSCP

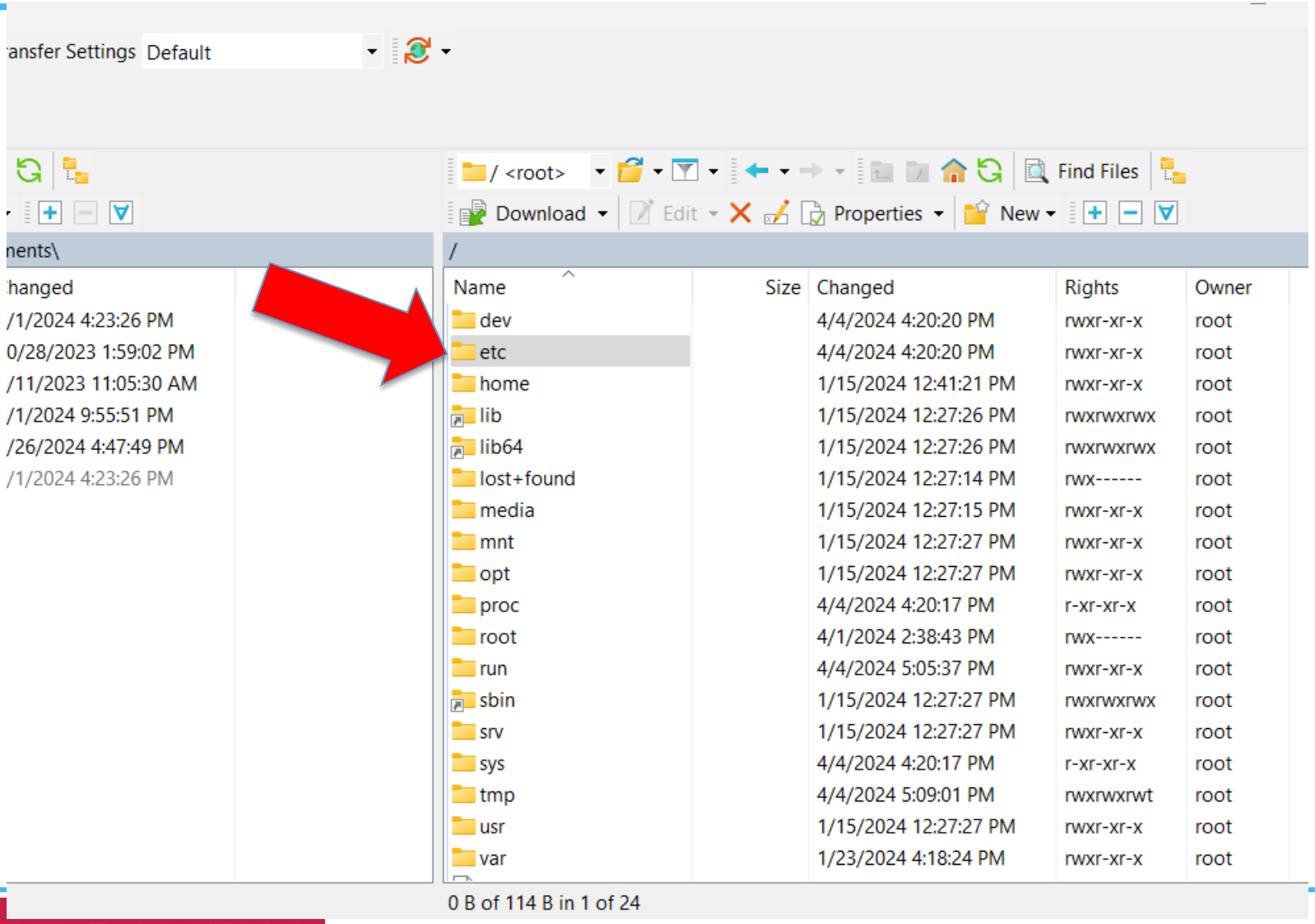
- You are in /var/www/html/blog



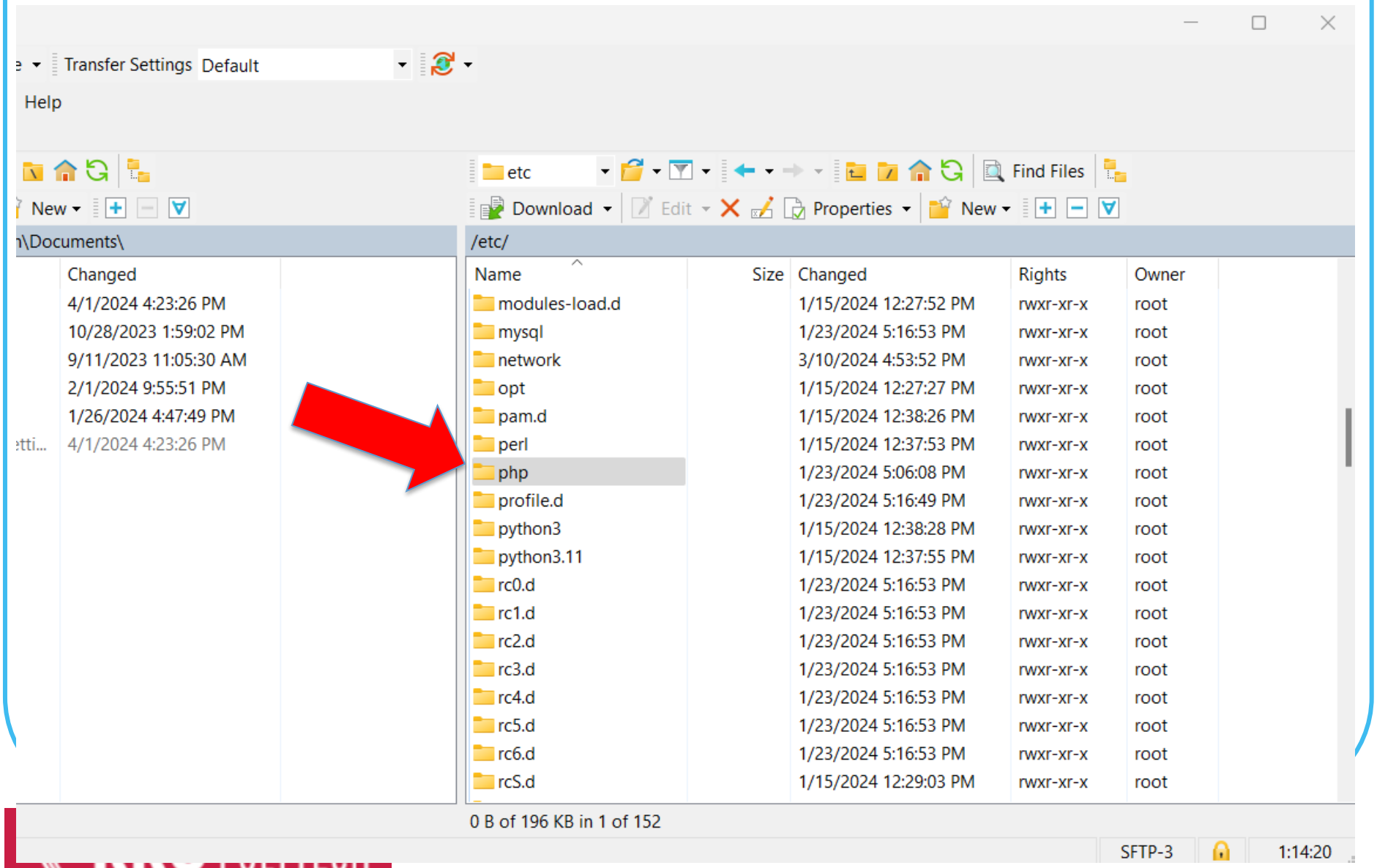
Go to the root of the system



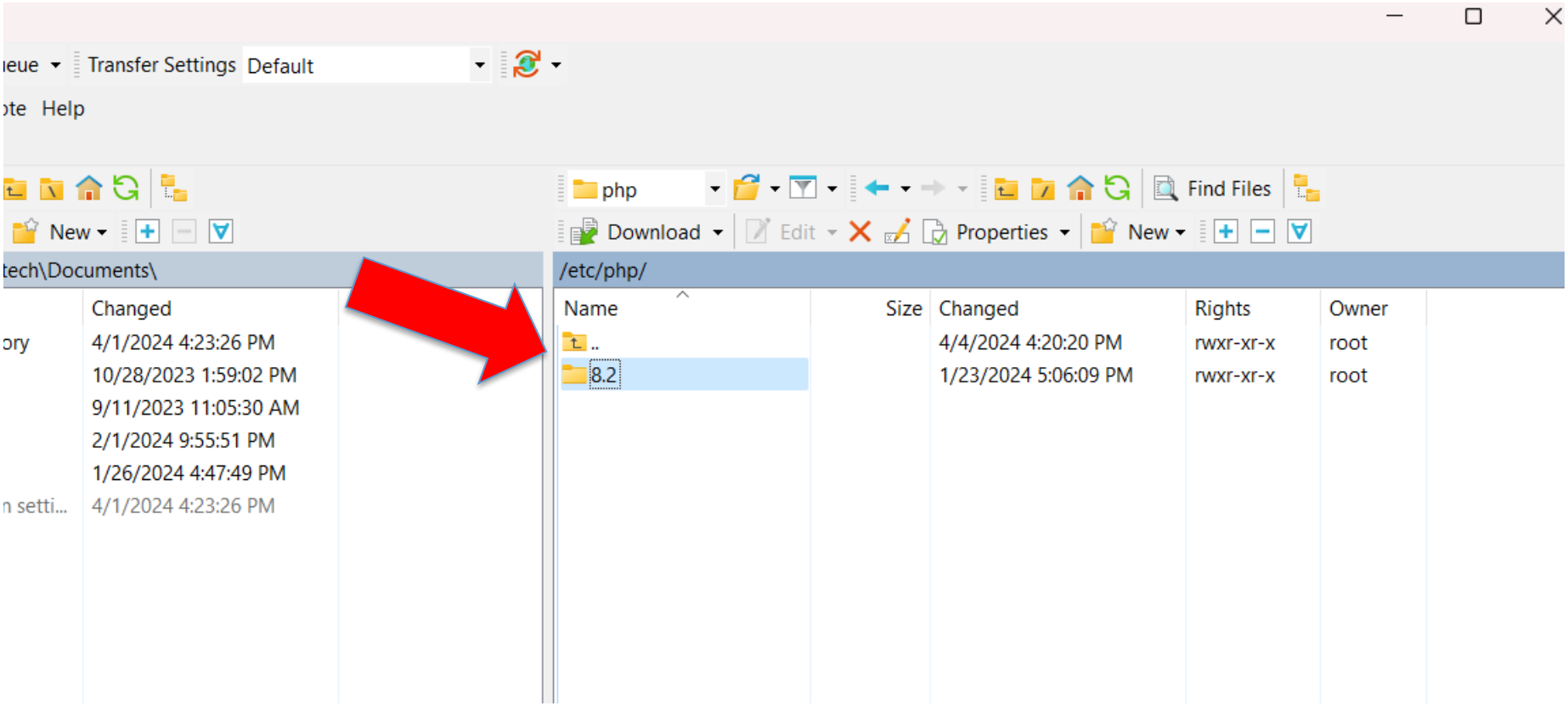
Go to the etc directory



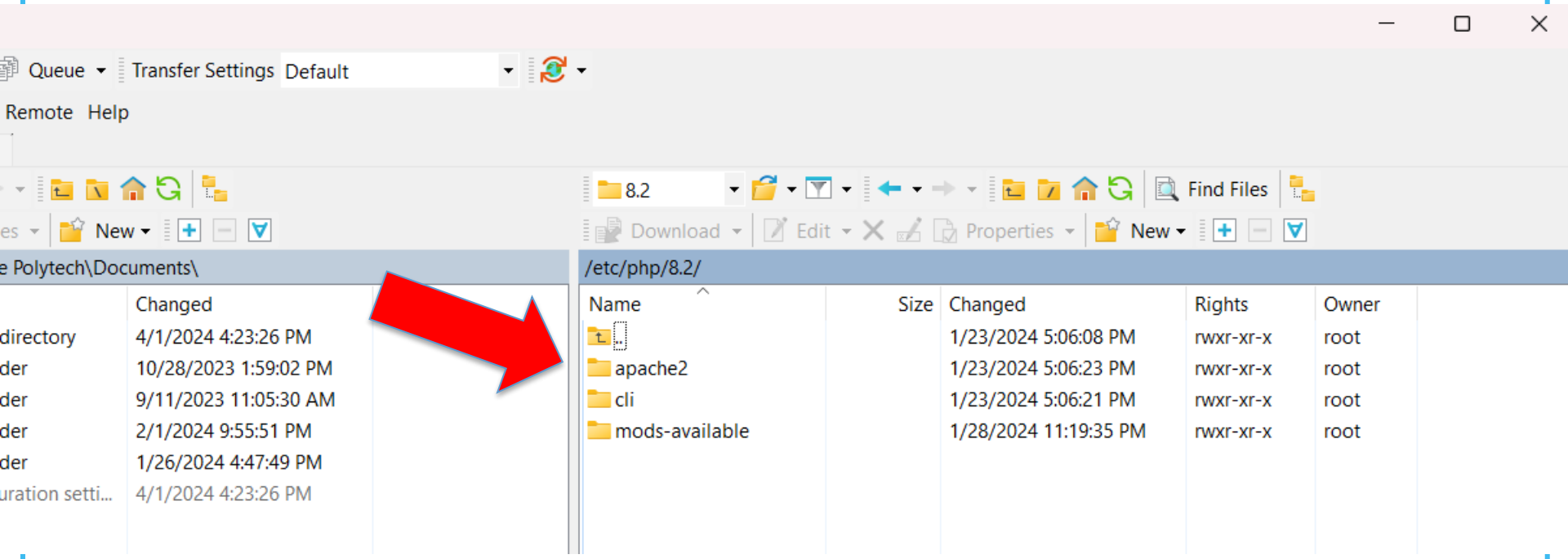
Go to the php directory



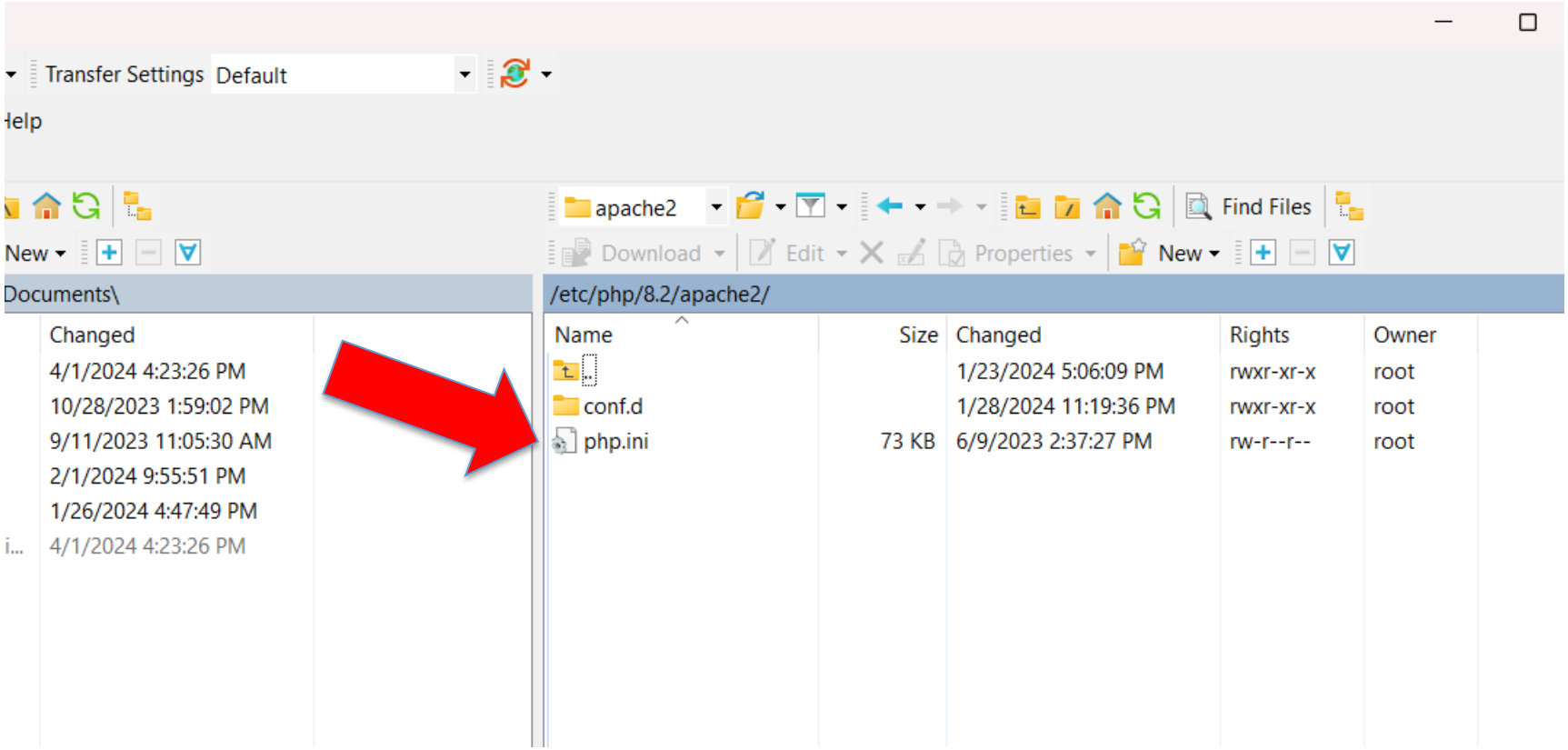
Go to the folder



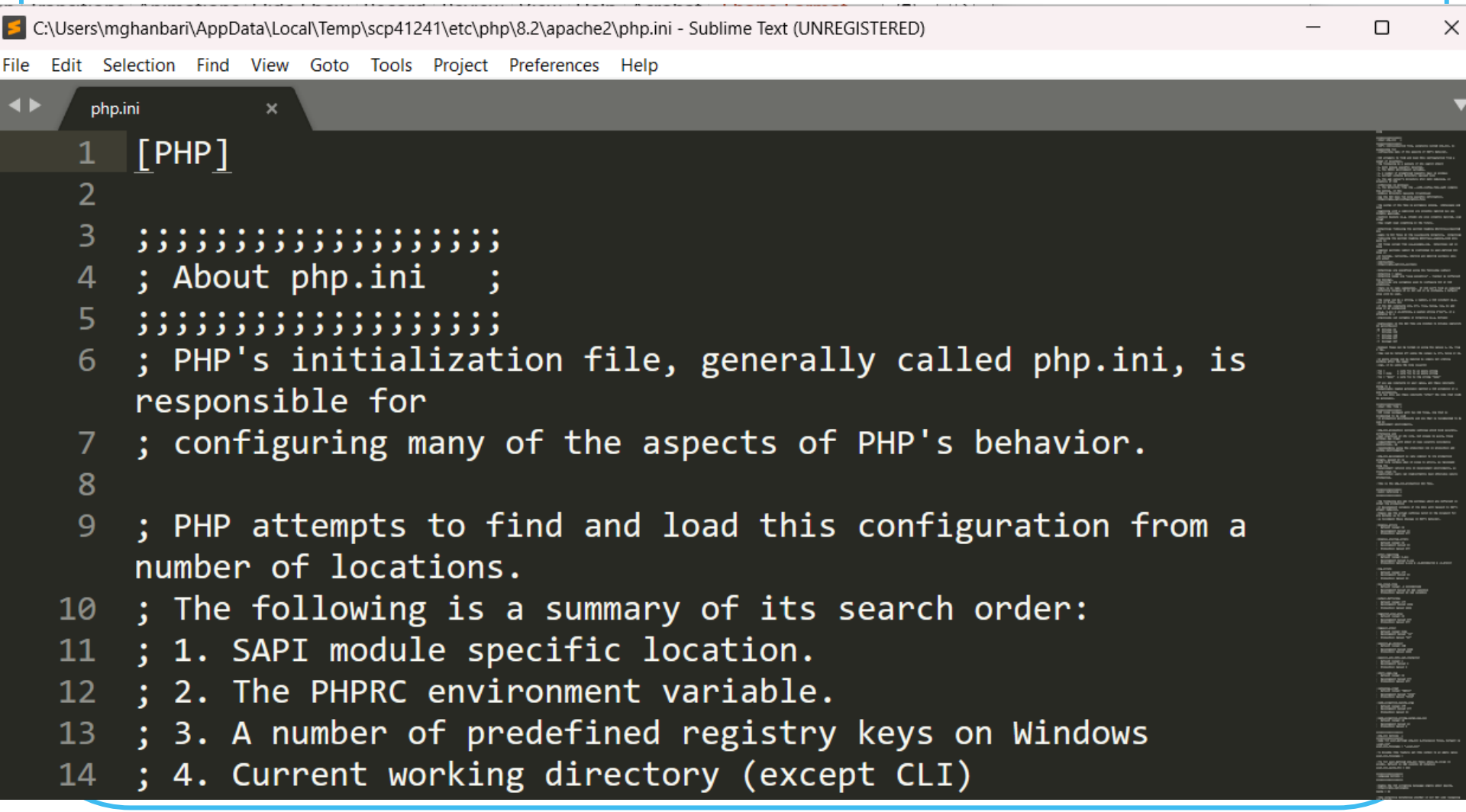
Go to the apache2



There is php.ini file



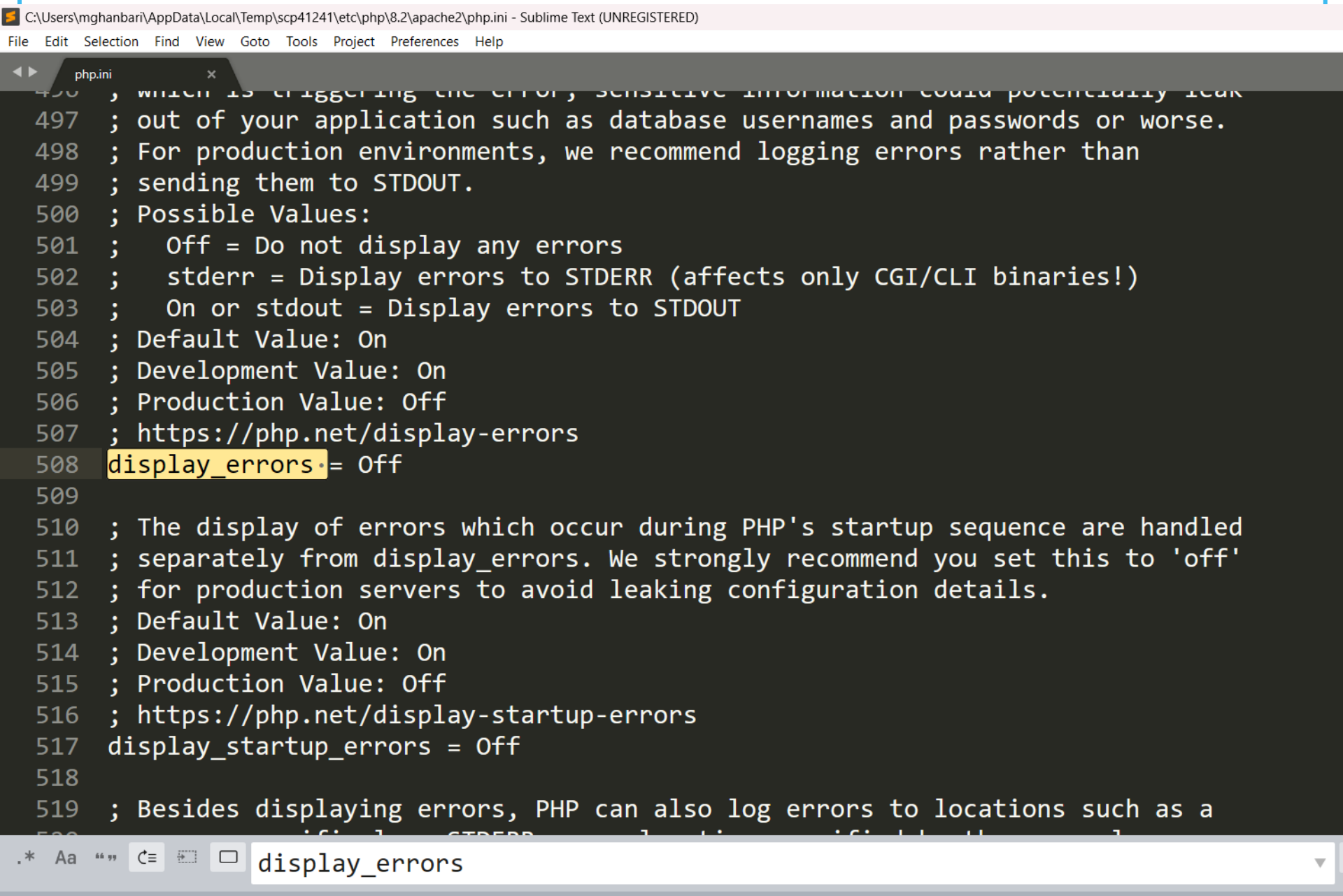
Open php.ini file



Modify php.ini file to give us our "error"

- Because we are regular user in WinSCP, we cannot change php.ini file
- We should become root to modify php.ini
- Find the line of "display_errors = off" in php.ini

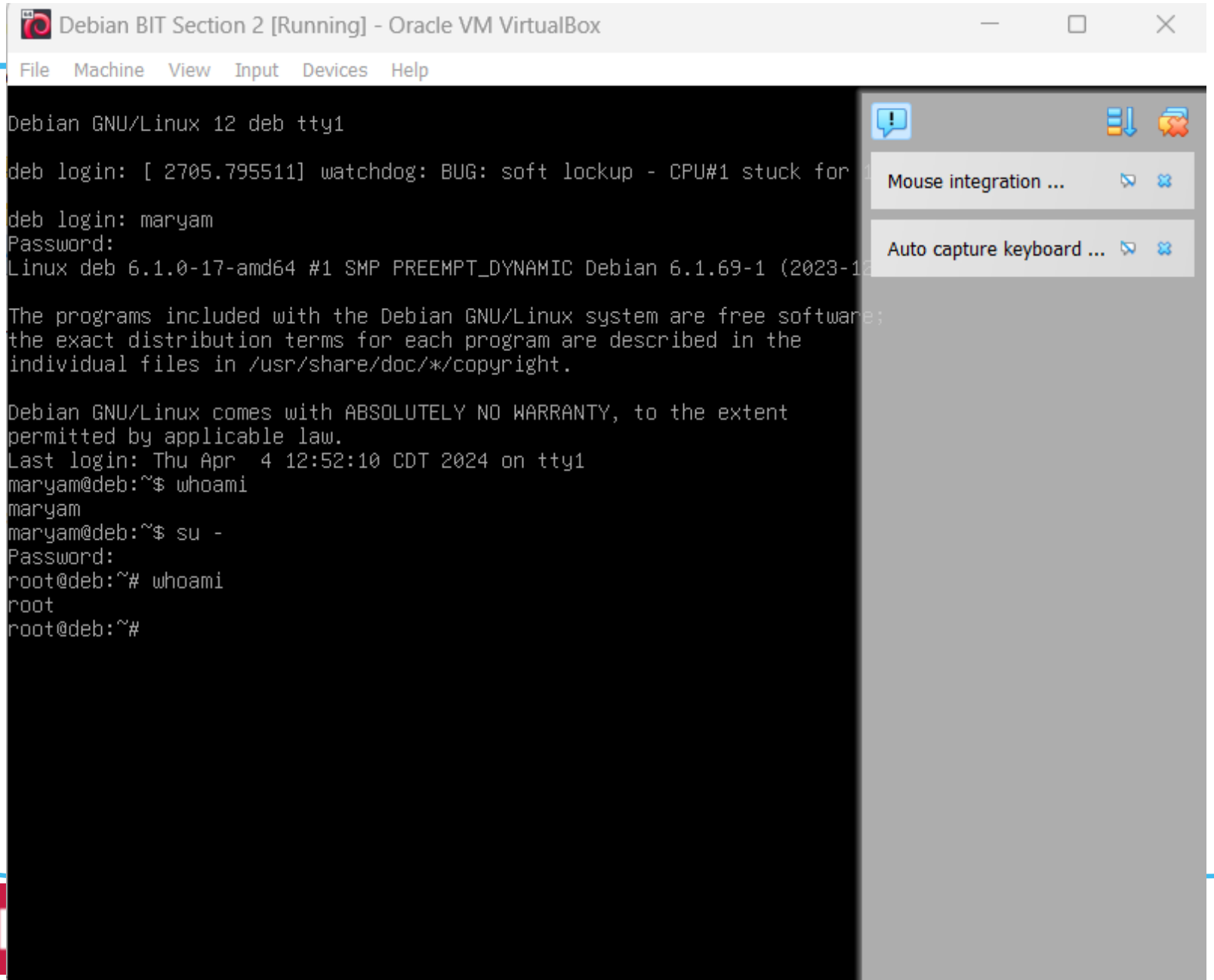
“display_errors = off” is in line 508 in my file



Show Error in the Runtime

- Because “display_errors = off”, no error is shown in the runtime.
- Go to your terminal (Debian/PuTTY) and become root

Go to Your Terminal in Debian as root



Go to the etc directory

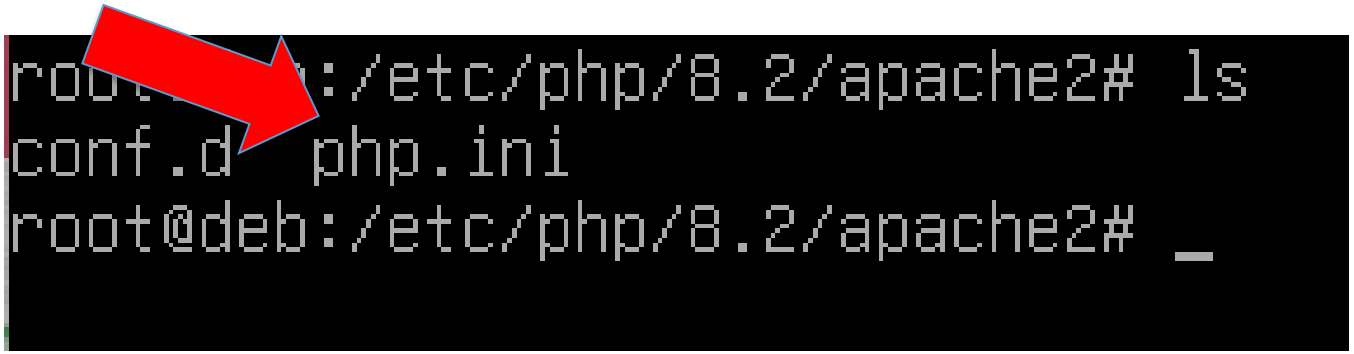
- Go to this directory and use TAB

```
root@deb:~# cd /etc/php/8.2/
root@deb:/etc/php/8.2# _
```

Use ls to find where you should go

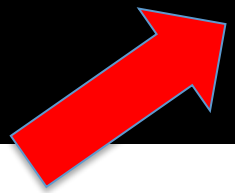
```
root@deb:/etc/php/8.2# ls
apache2  cli  mods-available
root@deb:/etc/php/8.2# cd apache2/
```

Use ls to find where you should go

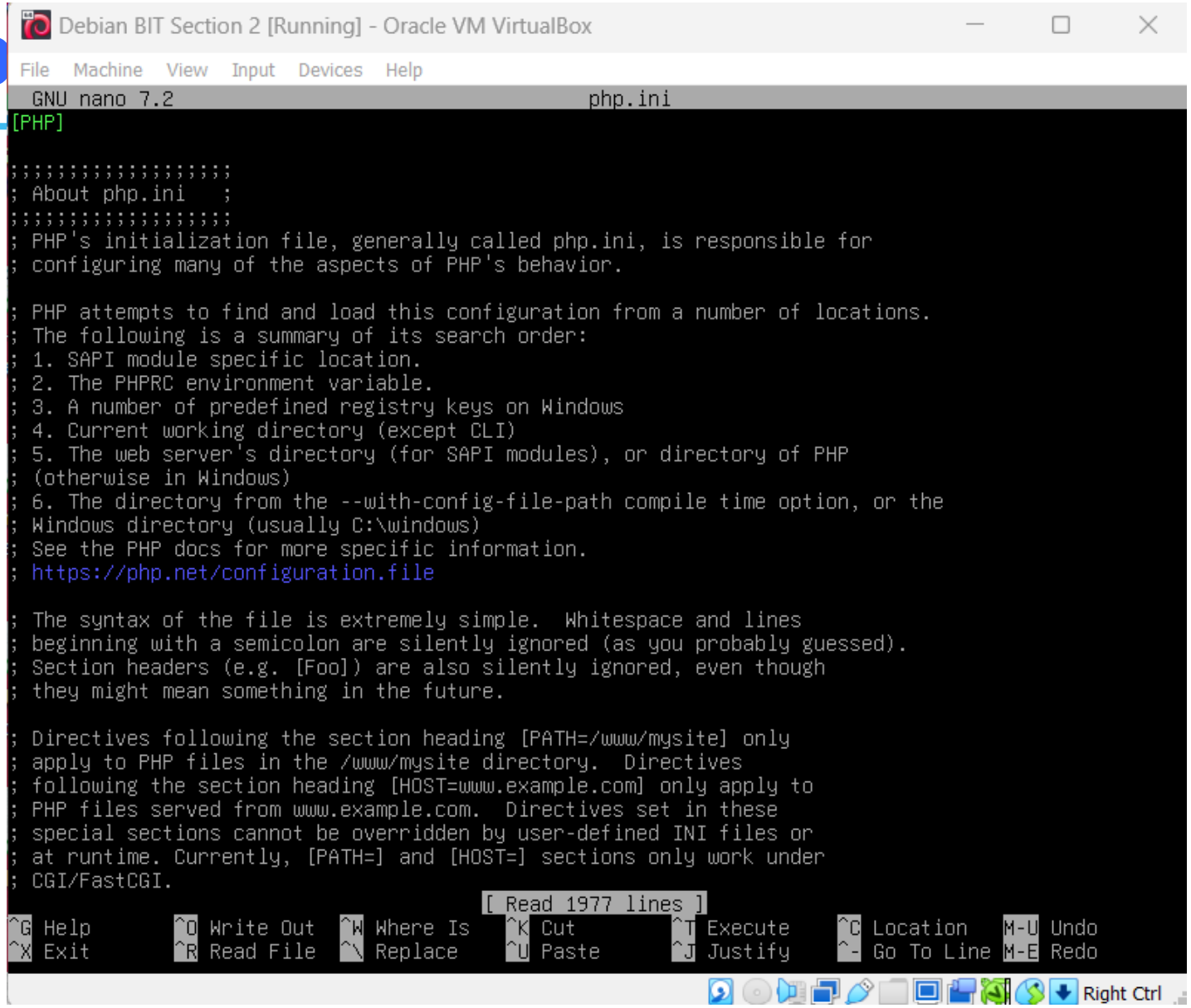


Edit the “php.ini” File

```
conf.d  php.ini
root@deb:/etc/php/8.2/apache2# nano php.ini
```

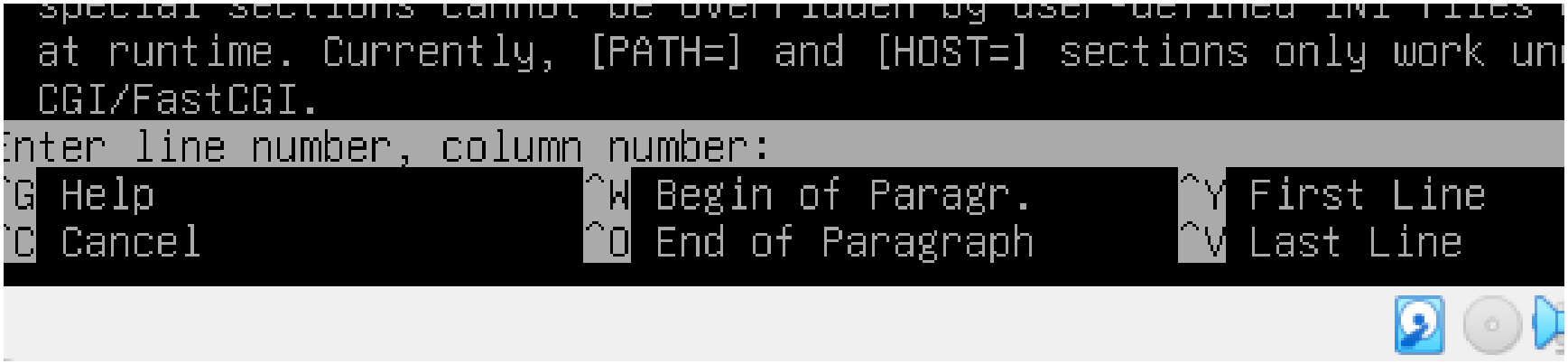


Outp


Debian BIT Section 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
GNU nano 7.2 php.ini
[PHP]
;;;;;;;;;;;;;;;;;;;
; About php.ini ;
;;;;;;;;;;;;;;;;;;;
; PHP's initialization file, generally called php.ini, is responsible for
; configuring many of the aspects of PHP's behavior.
; PHP attempts to find and load this configuration from a number of locations.
; The following is a summary of its search order:
; 1. SAPI module specific location.
; 2. The PHPRC environment variable.
; 3. A number of predefined registry keys on Windows
; 4. Current working directory (except CLI)
; 5. The web server's directory (for SAPI modules), or directory of PHP
; (otherwise in Windows)
; 6. The directory from the --with-config-file-path compile time option, or the
; Windows directory (usually C:\windows)
; See the PHP docs for more specific information.
; https://php.net/configuration.file
; The syntax of the file is extremely simple. Whitespace and lines
; beginning with a semicolon are silently ignored (as you probably guessed).
; Section headers (e.g. [Foo]) are also silently ignored, even though
; they might mean something in the future.
; Directives following the section heading [PATH=/www/mysite] only
; apply to PHP files in the /www/mysite directory. Directives
; following the section heading [HOST=www.example.com] only apply to
; PHP files served from www.example.com. Directives set in these
; special sections cannot be overridden by user-defined INI files or
; at runtime. Currently, [PATH=] and [HOST=] sections only work under
; CGI/FastCGI.
[Read 1977 lines]
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^- Go To Line M-E Redo
Right Ctrl

Change the “display_errors = off” in php.ini

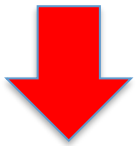
- There is a way of to go to line
- Control + underscore -> ^_



Change the “display_errors = off” in php.ini

- Go to the line number …. (for me it is 508)
- Hit enter
- Change the line from Off to On

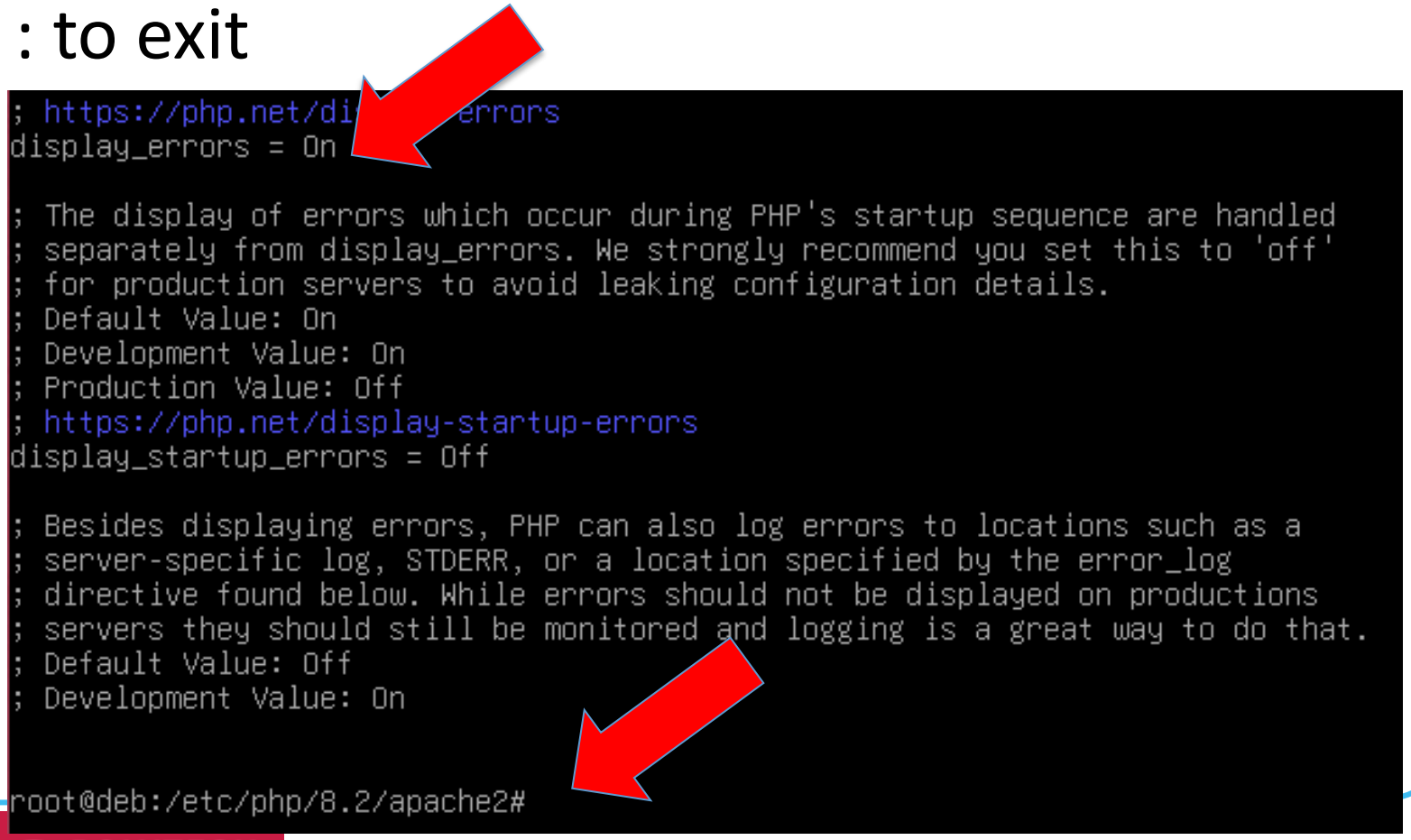
```
; https://php.net/display-errors
display_errors = Off
```



```
; https://php.net/display-errors
display_errors = On
```

Save the changes the “display_errors = off” in php.ini

- ^o : to save
- ^x : to exit



Restart apache2

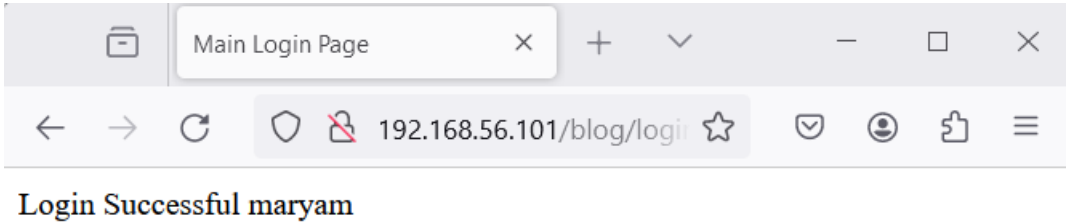
- Restart apache2 to allow you to display erros

```
root@deb:/etc/php/8.2/apache2# service apache2 restart
root@deb:/etc/php/8.2/apache2#
```

Reason of “display_errors = off” in php.ini

- This file was locked because hacker cannot compromise your server.

Output


Main Login Page
192.168.56.101/blog/logi
Login Successful maryam

Assignment

- You are ready to do Assignment 3: StungEye Blog

Thank you