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COMP2121 E-Business

Lab 10: MySQL and PHP 3

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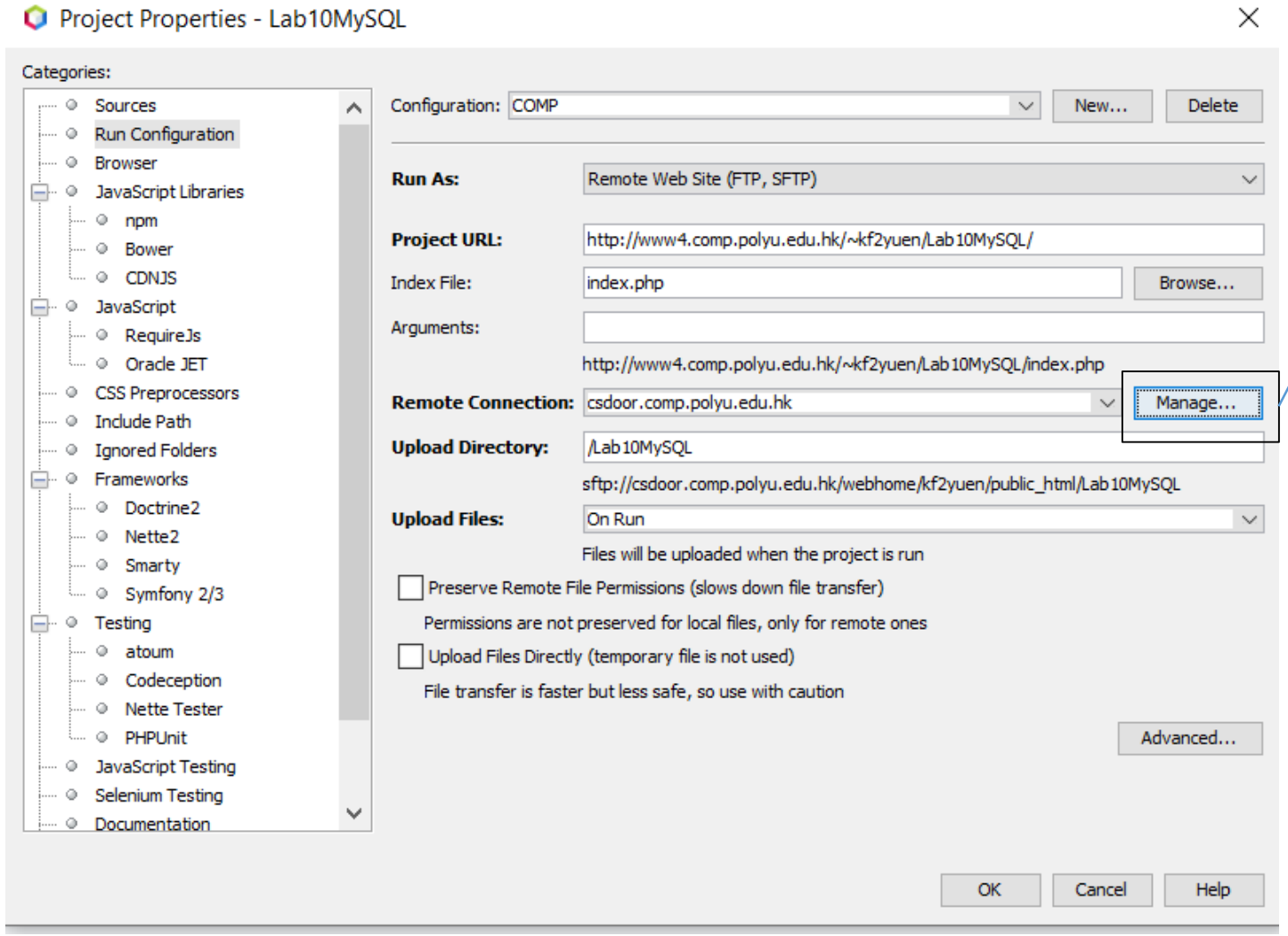
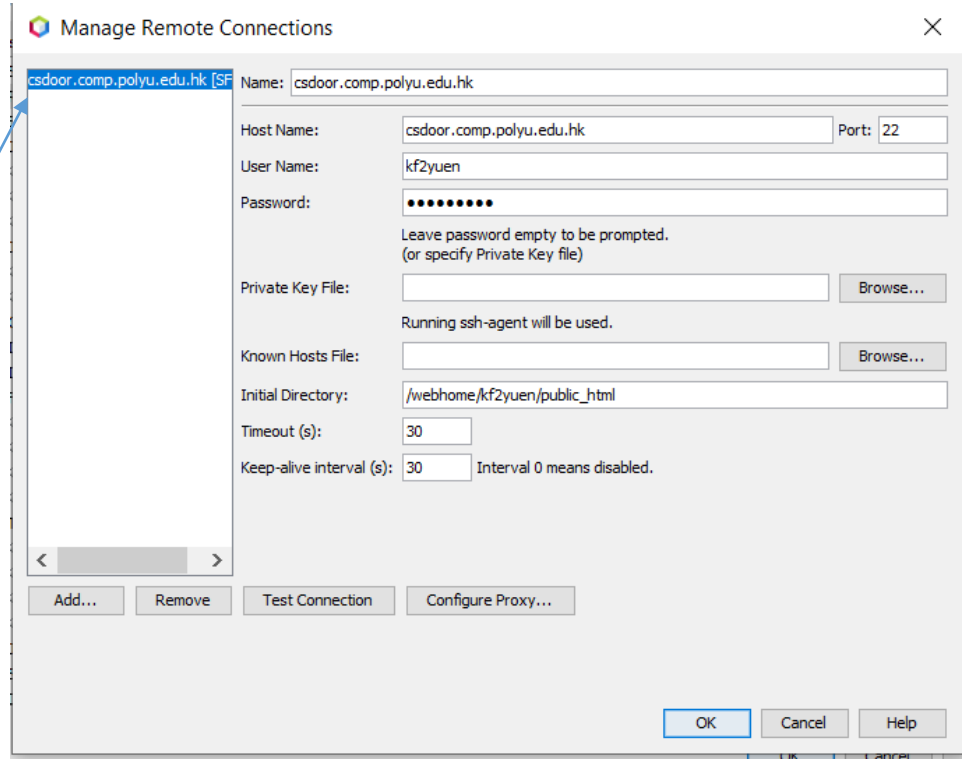
Outline

1. Deploy to the COMP MySQL (MariaDB)
2. Deploy to the production http server (COMP)

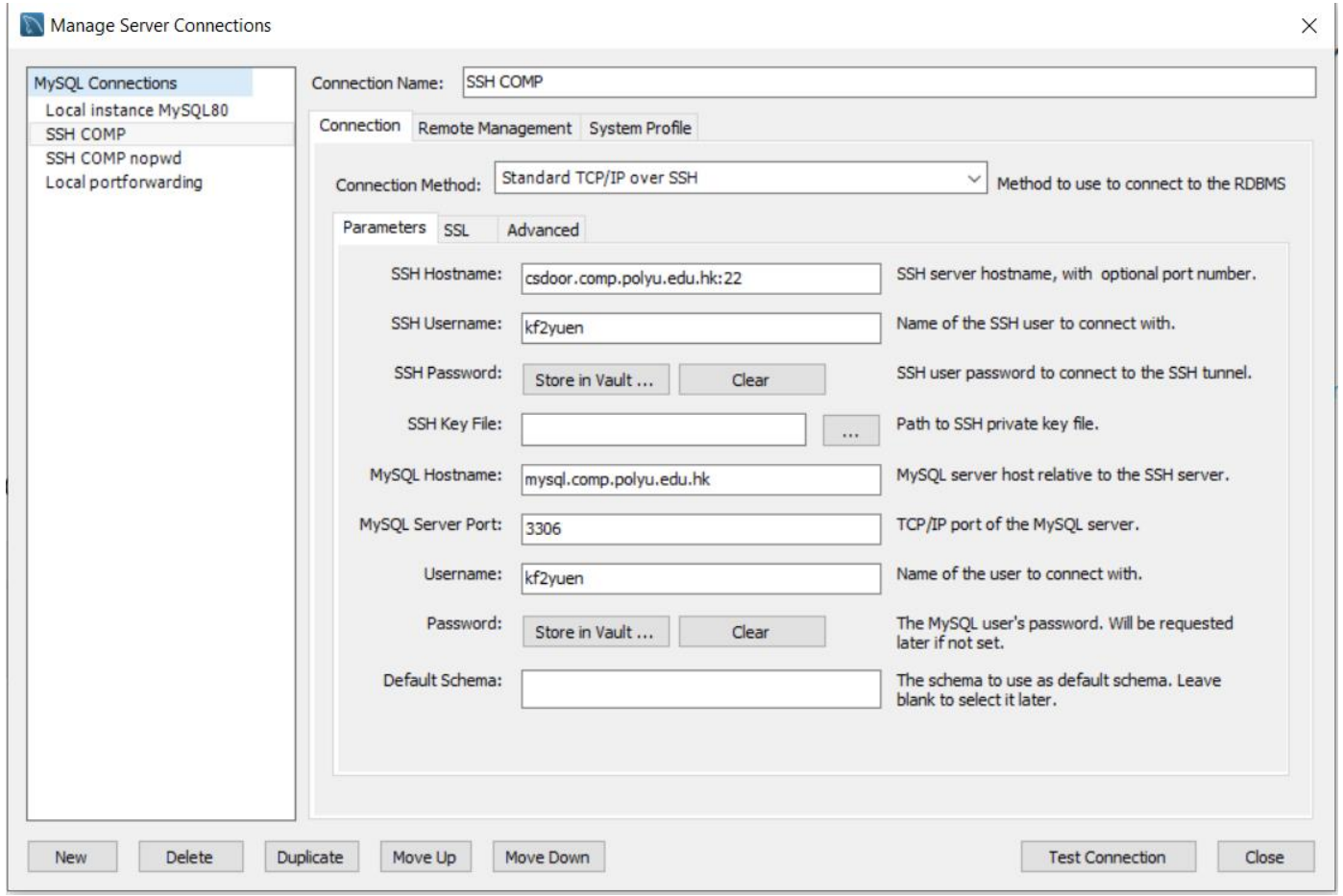
Ex1: Create a PHP project in Apache Netbeans IDE

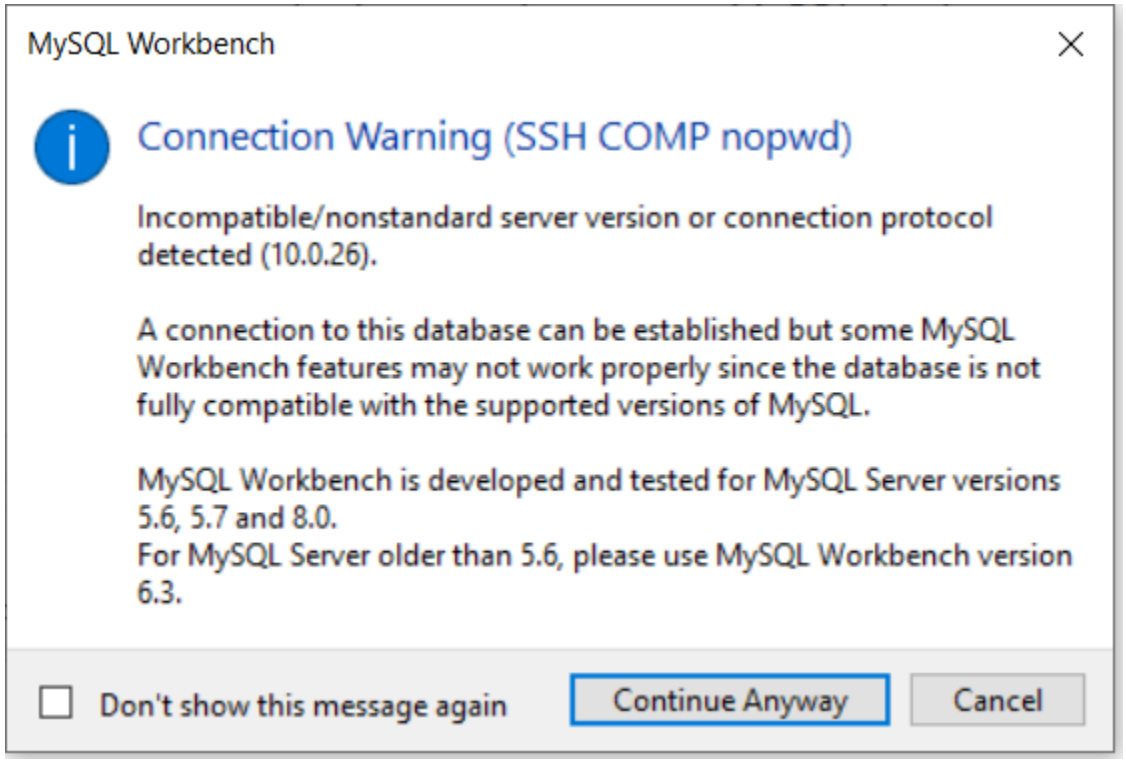
- Make sure that your Apache service and MySQL are running.
- Create the new PHP application Project Name as *Lab10MySQL*
- Locate the new project in your local Apache's *htdocs* folder, for example,
  - D:\eBusinessKevinYuenLabs\Apache24\htdocs*Lab10MySQL*


Project Properties - Lab10MySQL
Categories:
Sources
Run Configuration
Browser
JavaScript Libraries
npm
Bower
CDNJS
JavaScript
RequireJs
Oracle JET
CSS Preprocessors
Include Path
Ignored Folders
Frameworks
Doctrine2
Nette2
Smarty
Symfony 2/3
Testing
atoum
Codeception
Nette Tester
PHPUnit
JavaScript Testing
Selenium Testing
Documentation
Configuration: COMP
New...
Delete
Run As:
Remote Web Site (FTP, SFTP)
Project URL:
http://www4.comp.polyu.edu.hk/~kf2yuen/Lab10MySQL/
Index File:
index.php
Browse...
Arguments:
http://www4.comp.polyu.edu.hk/~kf2yuen/Lab10MySQL/index.php
Remote Connection:
csdoor.comp.polyu.edu.hk
Manage...
Upload Directory:
/Lab10MySQL
sftp://csdoor.comp.polyu.edu.hk/webhome/kf2yuen/public_html/Lab10MySQL
Upload Files:
On Run
Files will be uploaded when the project is run
Preserve Remote File Permissions (slows down file transfer)
Permissions are not preserved for local files, only for remote ones
Upload Files Directly (temporary file is not used)
File transfer is faster but less safe, so use with caution
Advanced...
OK
Cancel
Help


Manage Remote Connections
csdoor.comp.polyu.edu.hk [SF
Name: csdoor.comp.polyu.edu.hk
Host Name: csdoor.comp.polyu.edu.hk
Port: 22
User Name: kf2yuen
Password:
Leave password empty to be prompted.
(or specify Private Key file)
Private Key File:
Browse...
Running ssh-agent will be used.
Known Hosts File:
Browse...
Initial Directory: /webhome/kf2yuen/public_html
Timeout (s): 30
Keep-alive interval (s): 30
Interval 0 means disabled.
Add...
Remove
Test Connection
Configure Proxy...
OK
Cancel
Help

Ex2: Connect COMP MySQL via TCP/IP over SSH in Workbench





COMP is using MariaDB (not oracle MySQL).
Click “Continue Anyway”.

Ex3: Create a table in COMP MySQL(MariaDB)

lab08.customer

Info | Columns | Indexes | Triggers | Foreign keys | Partitions | Grants | DDL

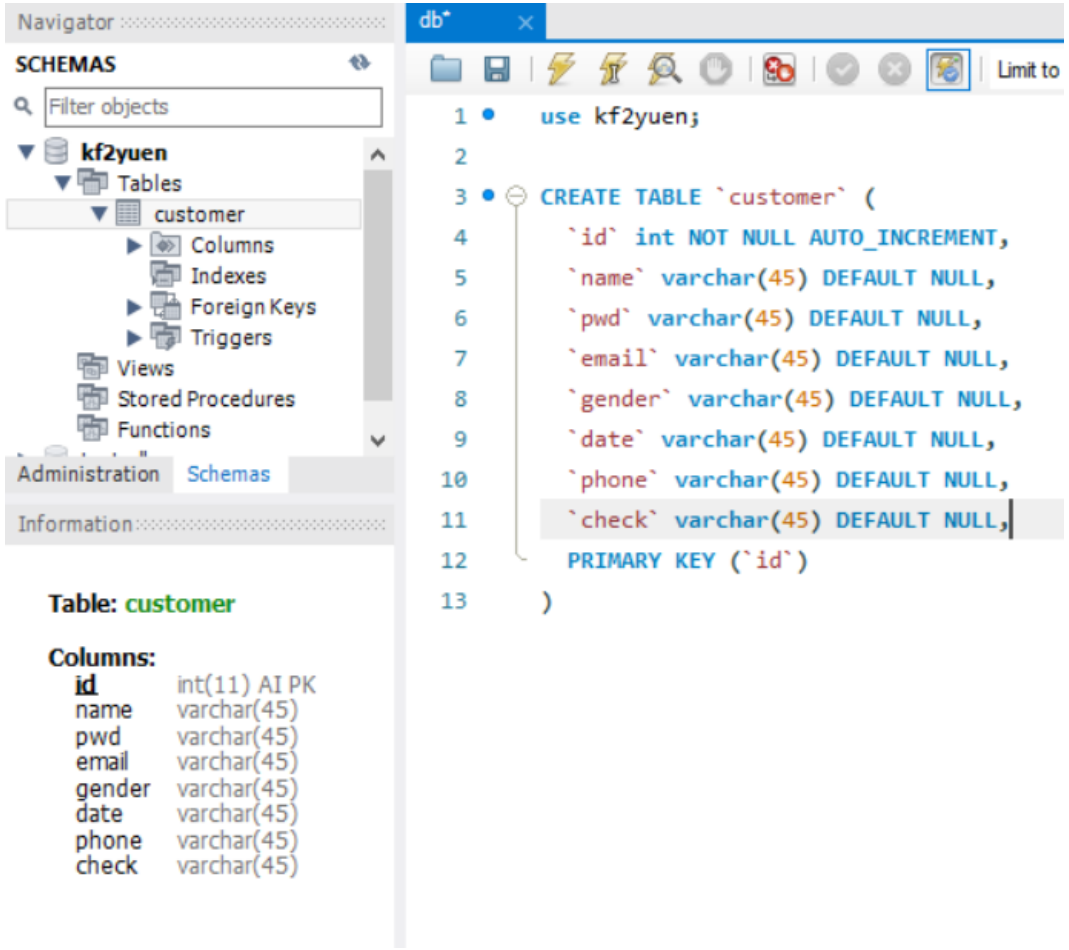
DDL for lab08.customer

```
1  CREATE TABLE `customer` (
2    `id` int NOT NULL AUTO_INCREMENT,
3    `name` varchar(45) DEFAULT NULL,
4    `pwd` varchar(45) DEFAULT NULL,
5    `email` varchar(45) DEFAULT NULL,
6    `gender` varchar(45) DEFAULT NULL,
7    `date` varchar(45) DEFAULT NULL,
8    `phone` varchar(45) DEFAULT NULL,
9    `check` varchar(45) DEFAULT NULL,
10   PRIMARY KEY (`id`)
11 ) ENGINE=InnoDB AUTO_INCREMENT=21 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

Copy this code of local MySQL to execute in COMP MySQL

Do not need this line of code.

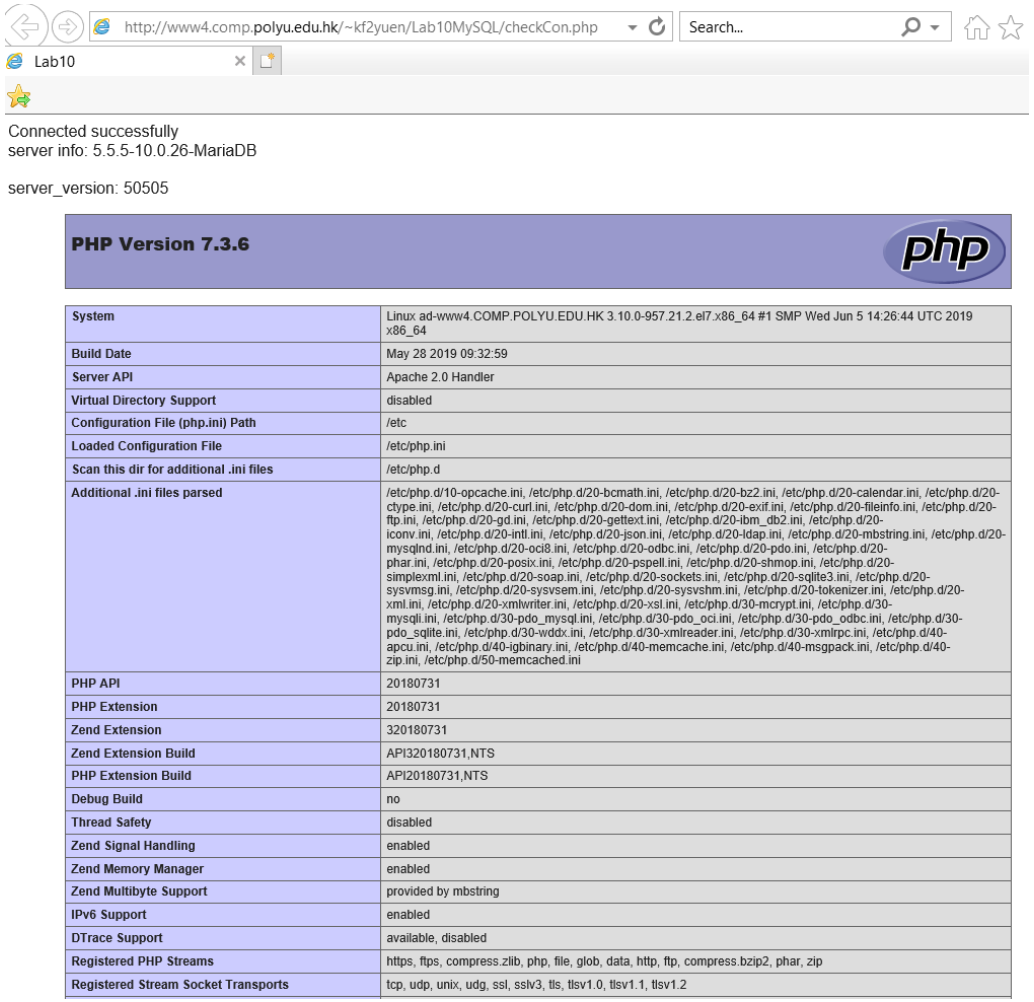
Ex3: Create a table in COMP MySQL(MariaDB)



Ex4: Check server connection and information

Copy Ex5.php in Lab 8 and rename as checkCon.php. Change the code as below.

```php
<!DOCTYPE html>
<!--
COMP2121
Lab 10
-->
<html>
    <head>
        <meta charset="UTF-8">
        <title>Lab10</title>
    </head>
    <body>
        <?php
        include "pwd.php"; // to hide my MySQL passwords;

        $serverName = "mysql.comp.polyu.edu.hk";
        $userName = "kf2yuen";
        $password = $yuenPolyU; //you may write your "password" directly
        $dbname = "kf2yuen";

        $connection = new mysqli($serverName, $userName, $password,$dbname);

        if (!$connection->connect_error) {
            echo "Connected successfully";
        } else {
          die("Connection failed: " . $connection->connect_error);
        }

        echo "<br> server info: " . $connection -> server_info ."<br>";
        echo "<br> server_version: " . $connection -> server_version ."<br>";
        echo phpinfo();
        ?>

    </body>
</html>
```



System	Linux ad-www4.COMP.POLYU.EDU.HK 3.10.0-957.21.2.el7.x86_64 #1 SMP Wed Jun 5 14:26:44 UTC 2019 x86_64
Build Date	May 28 2019 09:32:59
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc
Loaded Configuration File	/etc/php.ini
Scan this dir for additional .ini files	/etc/php.d
Additional .ini files parsed	/etc/php.d/10-opcache.ini, /etc/php.d/20-bcmath.ini, /etc/php.d/20-bz2.ini, /etc/php.d/20-calendar.ini, /etc/php.d/20-ctype.ini, /etc/php.d/20-curl.ini, /etc/php.d/20-dom.ini, /etc/php.d/20-exif.ini, /etc/php.d/20-fileinfo.ini, /etc/php.d/20-ftp.ini, /etc/php.d/20-gd.ini, /etc/php.d/20-gettext.ini, /etc/php.d/20-ibm_db2.ini, /etc/php.d/20-iconv.ini, /etc/php.d/20-intl.ini, /etc/php.d/20-json.ini, /etc/php.d/20-ldap.ini, /etc/php.d/20-mbstring.ini, /etc/php.d/20-mysqlnd.ini, /etc/php.d/20-oci8.ini, /etc/php.d/20-odbc.ini, /etc/php.d/20-pdo.ini, /etc/php.d/20-phar.ini, /etc/php.d/20-posix.ini, /etc/php.d/20-pspell.ini, /etc/php.d/20-shmop.ini, /etc/php.d/20-simplexml.ini, /etc/php.d/20-soap.ini, /etc/php.d/20-sockets.ini, /etc/php.d/20-sqlite3.ini, /etc/php.d/20-sysvmsg.ini, /etc/php.d/20-sysvsem.ini, /etc/php.d/20-sysvshm.ini, /etc/php.d/20-tokenizer.ini, /etc/php.d/20-xml.ini, /etc/php.d/20-xmlwriter.ini, /etc/php.d/20-xsl.ini, /etc/php.d/30-mcrypt.ini, /etc/php.d/30-mysqli.ini, /etc/php.d/30-pdo_mysql.ini, /etc/php.d/30-pdo_oci.ini, /etc/php.d/30-pdo_odbc.ini, /etc/php.d/30-pdo_sqlite.ini, /etc/php.d/30-wddx.ini, /etc/php.d/30-xmlreader.ini, /etc/php.d/30-xmlrpc.ini, /etc/php.d/40-apcu.ini, /etc/php.d/40-igbinary.ini, /etc/php.d/40-memcache.ini, /etc/php.d/40-msgpack.ini, /etc/php.d/40-zip.ini, /etc/php.d/50-memcached.ini
PHP API	20180731
PHP Extension	20180731
Zend Extension	320180731
Zend Extension Build	API320180731,NTS
PHP Extension Build	API20180731,NTS
Debug Build	no
Thread Safety	disabled
Zend Signal Handling	enabled
Zend Memory Manager	enabled
Zend Multibyte Support	provided by mbstring
IPv6 Support	enabled
DTrace Support	available, disabled
Registered PHP Streams	https, ftps, compress.zlib, php, file, glob, data, http, ftp, compress.bzip2, phar, zip
Registered Stream Socket Transports	tcp, udp, unix, udg, ssl, sslv3, tls, tlsv1.0, tlsv1.1, tlsv1.2

Copy the files in Lab09 and rename as below:
Ex5a.php → Registration.php
Ex5b.php -> login.php
Ex5c.php -> product.php
Ex6.php → logout.php
connection.php
Change the codes for the file names accordingly.

Ex5

registration.php

```
//Redirect to login.php
$time = 5 ;
// echo "this is ex5a.php";
header("refresh:$time; url= login.php");

echo " <p>Redirect to the login webpage in  $time seconds;
    <br> Or press <a href='login.php'>login</a> directly. </p>";
```

product.php

```
 <a href="logout.php"> logout </a>

if(!isset($_SESSION["loggedin"]) || $_SESSION["loggedin"] != true ){
    echo "You cannot see this webpage if you do not login.";
    echo "<p>System will go to login page in 5 seconds.<p>";
    header("refresh:5; url= login.php");
    echo "<p>Or press here <a href='login.php'>login</a>. </p>";
    exit;
```

Login.php

```
$time = 5;
echo "<p>redirecting to content page with login "
      . "in $time seconds</p>";
header("refresh:$time; url= product.php");
echo "<p>Press <a href='product.php'>here</a>. </p>";
```

connection.php

```
$serverName = "mysql.comp.polyu.edu.hk";
$userName = "kf2yuen";
$password = $yuenPolyU; //you may write you
$dbname = "kf2yuen";
```

logout.php

```
// Redirect to login page
echo "Please come back again.";
echo "<p>System will leave in 5 seconds.<p>";
header("refresh:5; url= login.php");
echo "<p>Or press <a href='login.php'> here </a> to leave. </p>";
exit;
```

www4.comp.polyu.edu.hk/~kf2yuen/Lab10MySQL/Registration.php

Connected successfully

Registration is successful!

Redirect to the login webpage in 5 seconds;
Or press login directly.

Membership Registration

Name: Kevin Yuen
Password: •••
Retype Password:
Email: kf2yuen@con.hk
Retype email:
Gender: ○ Female ○ Male ○ Others
Date of Birth (optional): 11/17/2020
Phone number: 1111
Agree with the terms and services: ☐
Submit

Cookie name = Kevin Yuen
Cookie pwd = 123
Cookie email = kf2yuen@con.hk
Cookie gender = Male
Cookie date = 2020-11-17
Cookie phone = 1111
Cookie check = yes

www4.comp.polyu.edu.hk/~kf2yuen/Lab10MySQL/login.php

http://www4.comp.polyu.edu.hk/~kf2yuen/Lab10MySQL/Registration.php
Please use email for your login name:
Login Name: kf2yuen@con.hk
Password: •••
Submit
Connected successfully

http://www4.comp.polyu.edu.hk/~kf2yuen/Lab10MySQL/login.php
Please use email for your login name:
Login Name:
Password:
Submit
Connected successfully
array(3) { ["name"]=> string(10) "Kevin Yuen" ["email"]=> string(14) "kf2yuen@con.hk" ["pwd"]=> string(3) "123" }

Hello Kevin Yuen

redirecting to content page with login in 5 seconds

Press here.

www4.comp.polyu.edu.hk/~kf2yuen/Lab10MySQL/product.php

logout

You will see error below

Notice: Undefined variable: userName in **/webhome/kf2yuen/public_html/Lab10MySQL/product.php** on line **29**

You will see your name stored in a session variable.

Kevin Yuen

This is the product page.

Please find some products here.

http://www4.comp.polyu.edu.hk/~kf2yuen/Lab10MySQL/logout.php
Please use email for your login name:
Login Name:
Password:
Submit
Connected successfully

Please come back again.

System will leave in 5 seconds.

Or press here to leave.

Q&A
Thank you