

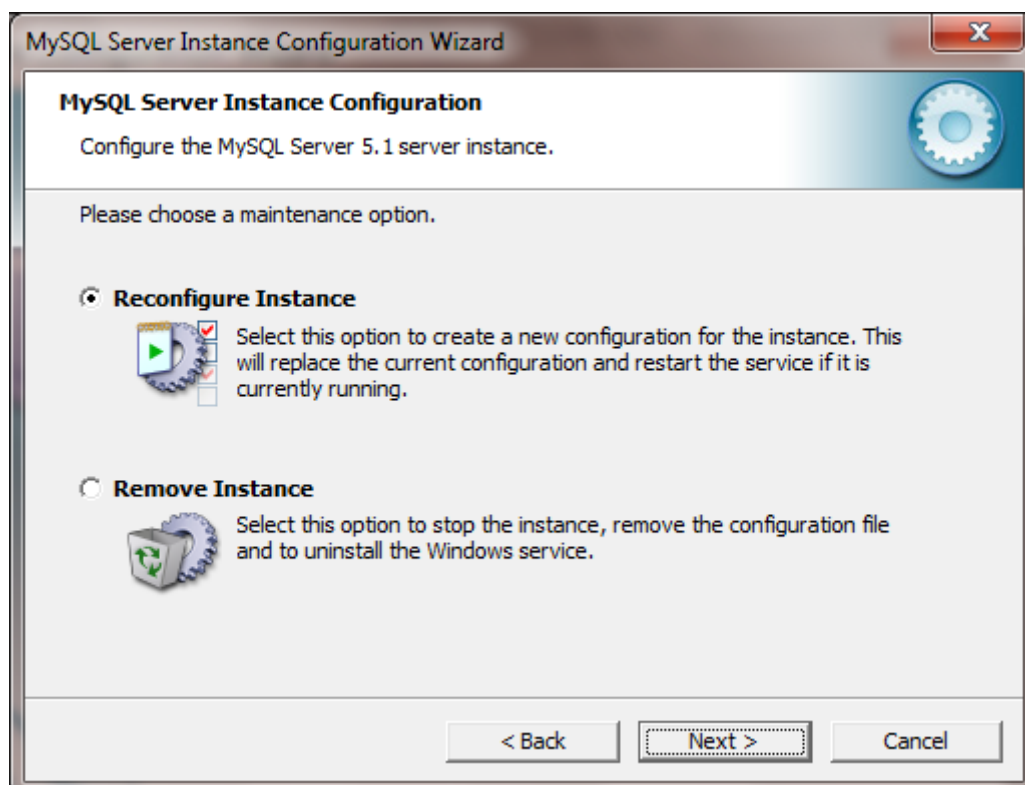
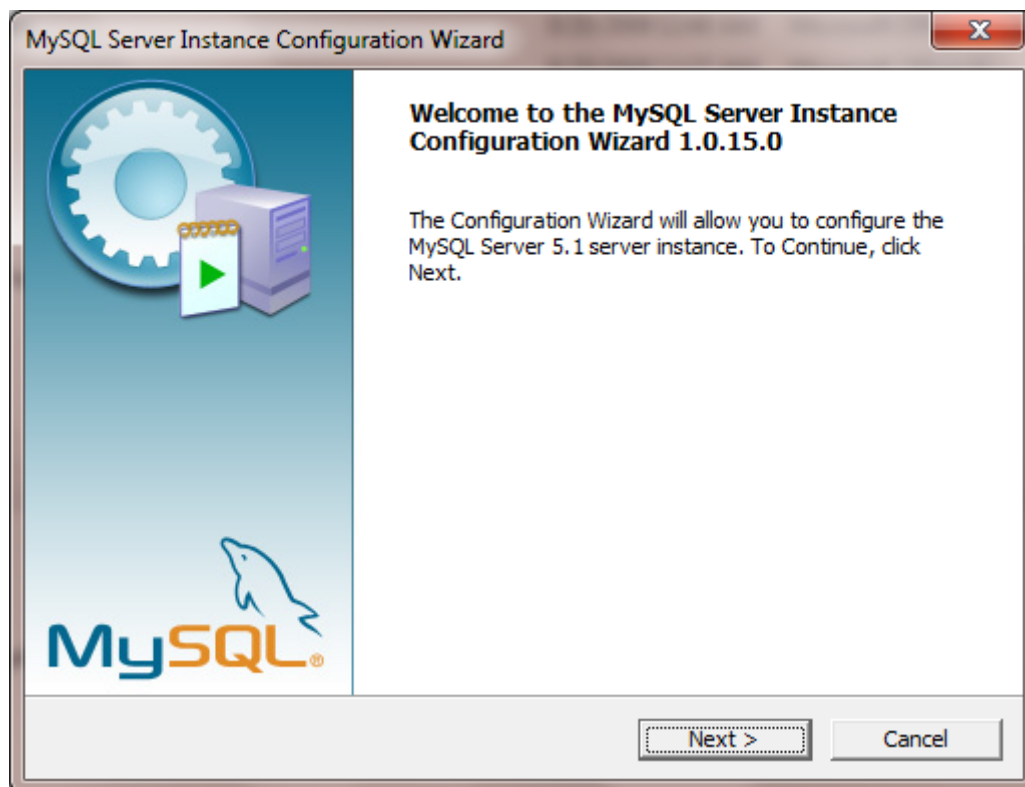
Lab 5-1: MySQL & PHP

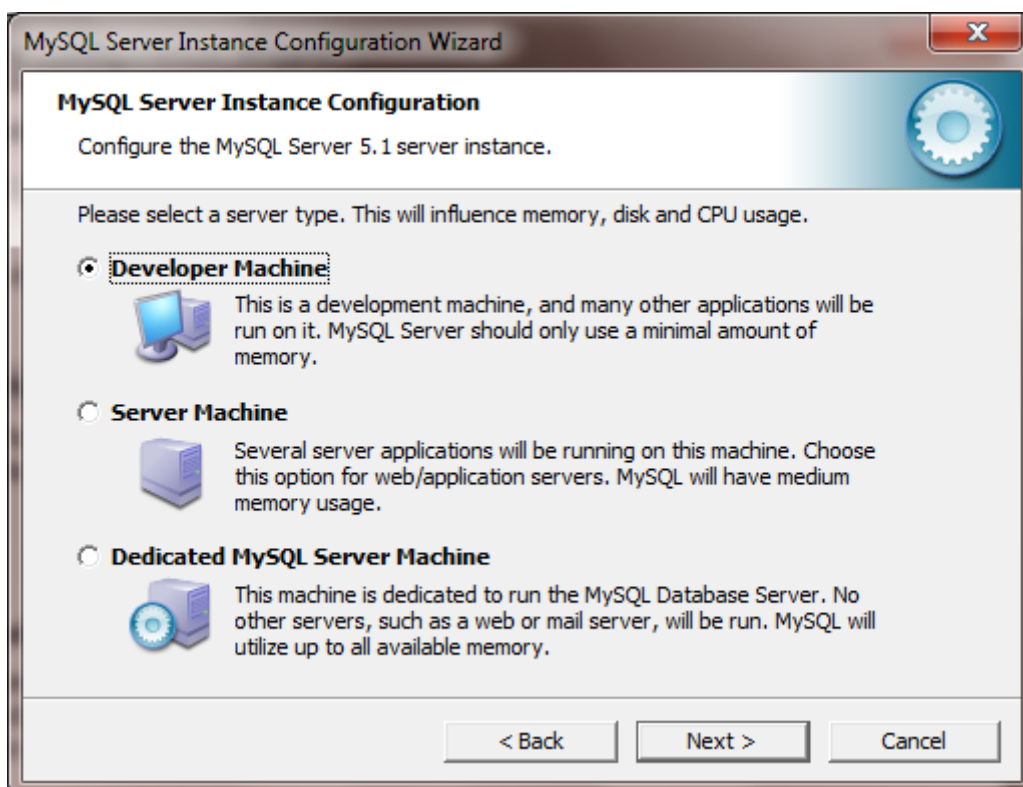
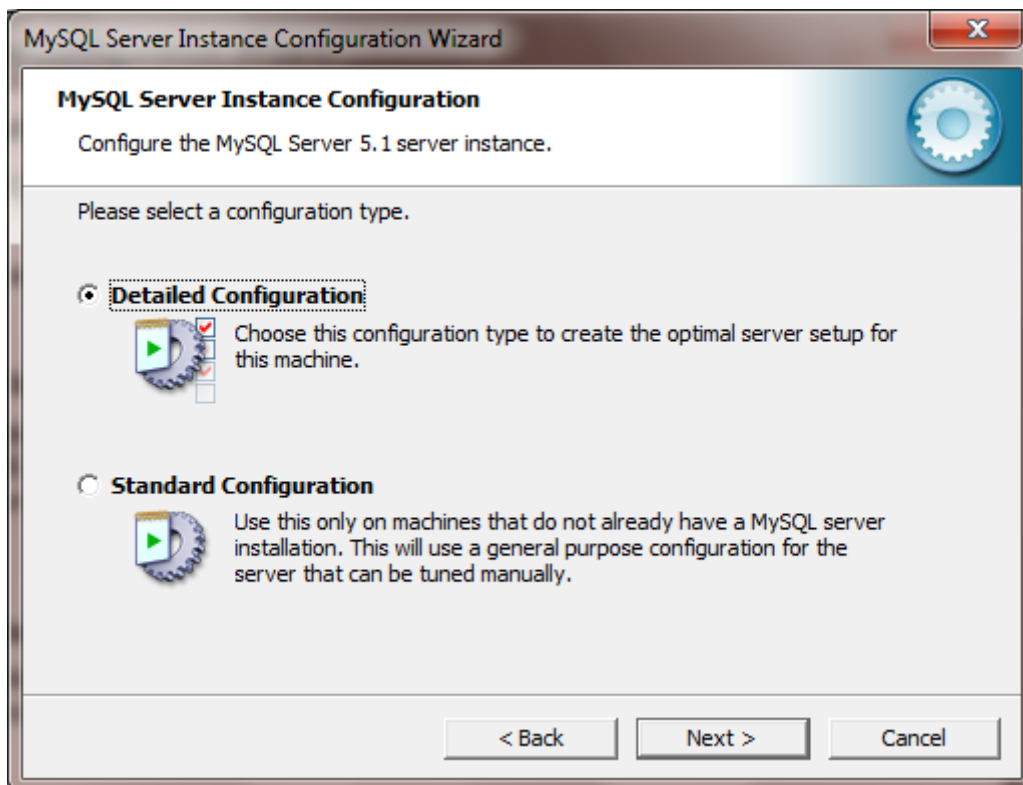
Prepared: TrangNTT

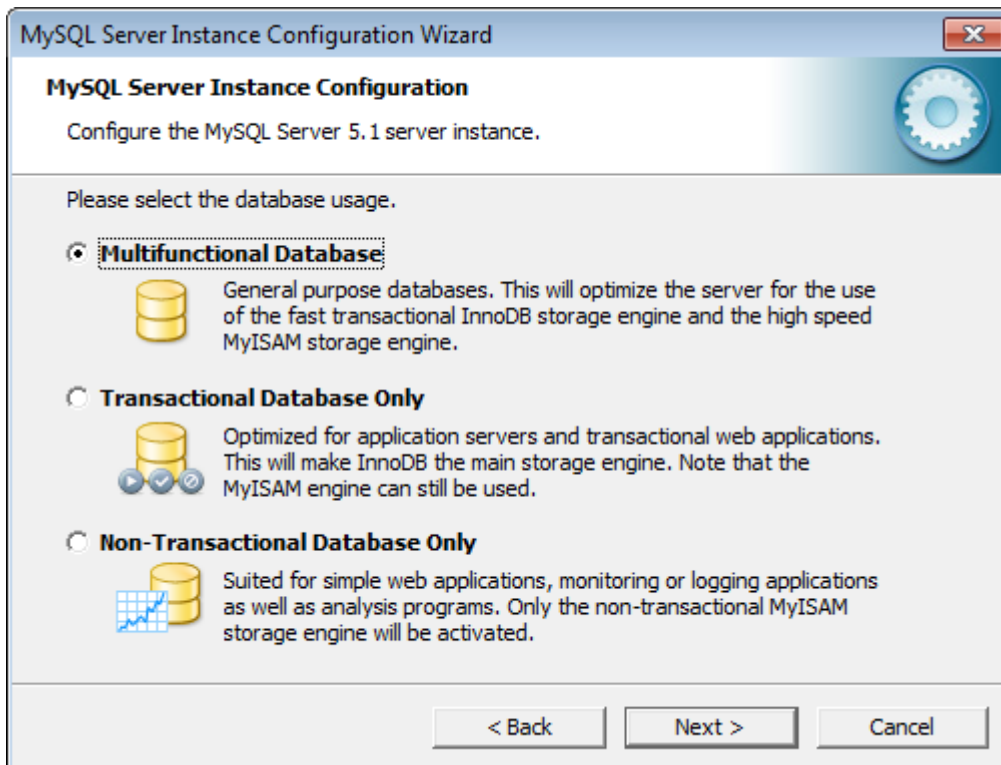
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6.1. MySQL Server Instance

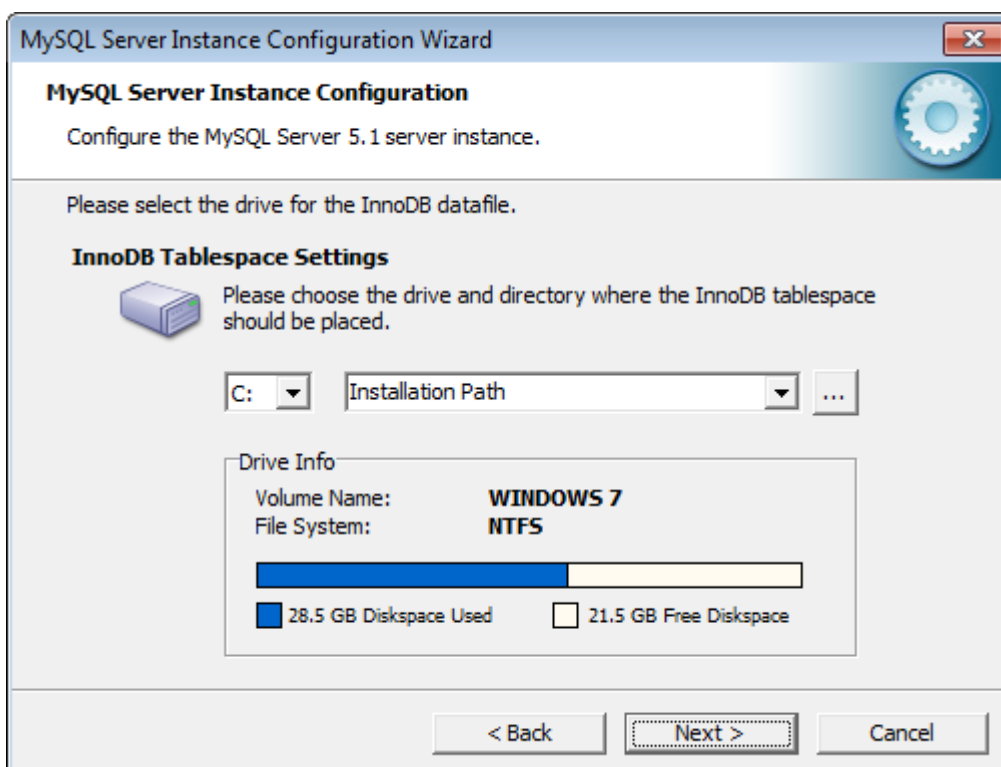
Select Start → All Programs → Zend Server Community Edition → MySQL







Press Modify button if you need to change the location of InnoDB tablespace.




MySQL Server Instance Configuration Wizard

MySQL Server Instance Configuration


Configure the MySQL Server 5.1 server instance.

Please set the approximate number of concurrent connections to the server.


☒ **Decision Support (DSS)/OLAP**

 Select this option for database applications that will not require a high number of concurrent connections. A number of 20 connections will be assumed.

☐ **Online Transaction Processing (OLTP)**

 Choose this option for highly concurrent applications that may have at any one time up to 500 active connections such as heavily loaded web servers.

☐ **Manual Setting**

 Please enter the approximate number of concurrent connections.

Concurrent connections:

< Back Next > Cancel


MySQL Server Instance Configuration Wizard

MySQL Server Instance Configuration

Configure the MySQL Server 5.1 server instance.

Please set the networking options.

☒ **Enable TCP/IP Networking**

 Enable this to allow TCP/IP connections. When disabled, only local connections through named pipes are allowed.

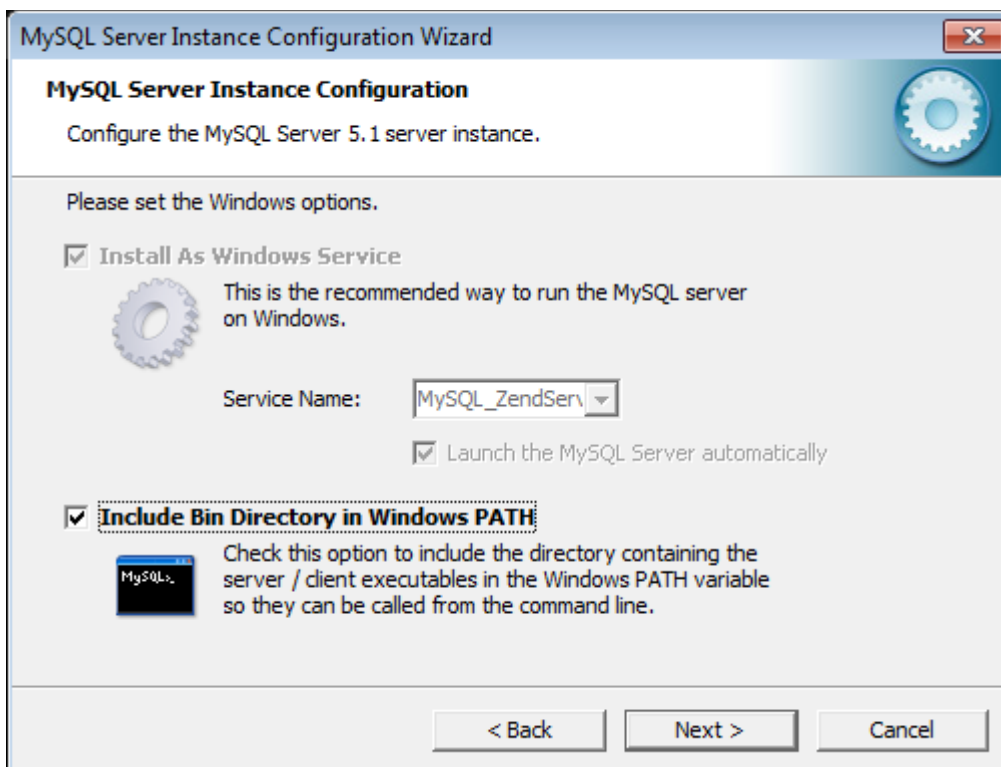
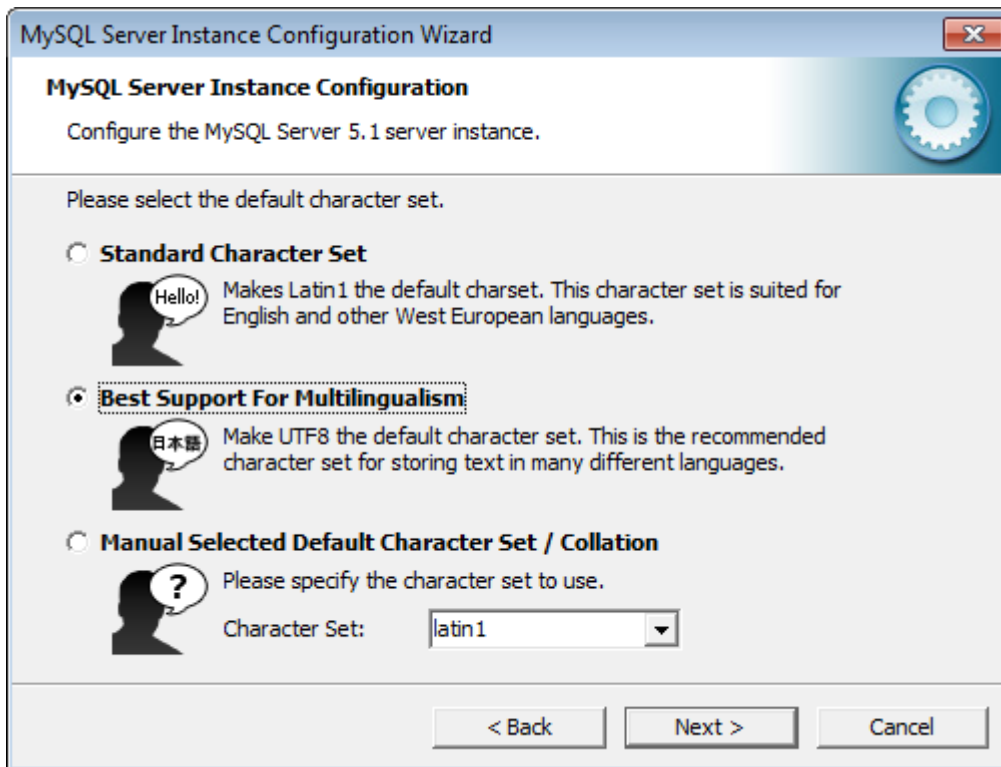
Port Number: ☐ Add firewall exception for this port

Please set the server SQL mode.

☒ **Enable Strict Mode**

This option forces the server to behave more like a traditional database server. It is recommended to enable this option.

< Back Next > Cancel



Type password for root:

- Current password: Leave blank
- New password & confirm: 123456


MySQL Server Instance Configuration Wizard

MySQL Server Instance Configuration

Configure the MySQL Server 5.1 server instance.

Please set the Windows options.


☒ **Install As Windows Service**

 This is the recommended way to run the MySQL server on Windows.

Service Name:

☒ Launch the MySQL Server automatically

☒ **Include Bin Directory in Windows PATH**

 Check this option to include the directory containing the server / client executables in the Windows PATH variable so they can be called from the command line.

< Back Next > Cancel

MySQL Server Instance Configuration Wizard

MySQL Server Instance Configuration

Configure the MySQL Server 5.1 server instance.

Processing configuration ...

- ☒ Prepare configuration
- ☒ Write configuration file (C:\Program Files\Zend\MySQL51\my.ini)
- ☒ Start service
- ☒ Apply security settings

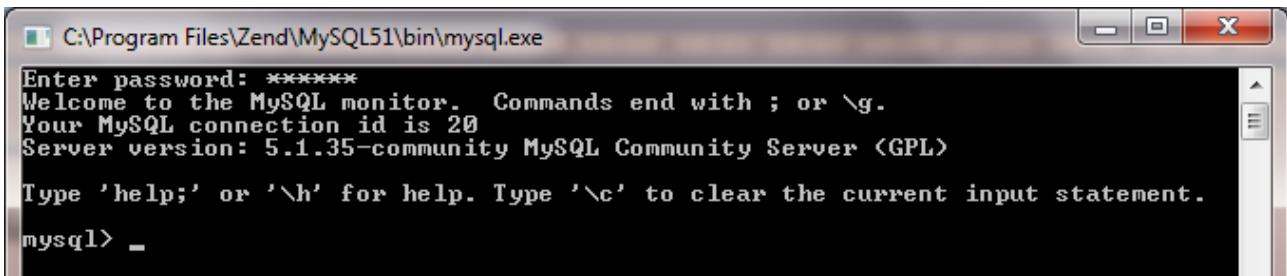
**Configuration file created.
Service restarted successfully.
Security settings applied.**

Press [Finish] to close the Wizard.

< Back **Finish** Cancel

6.2. MySQL Command Line Client

Step 1. Change password for root username (if necessary)

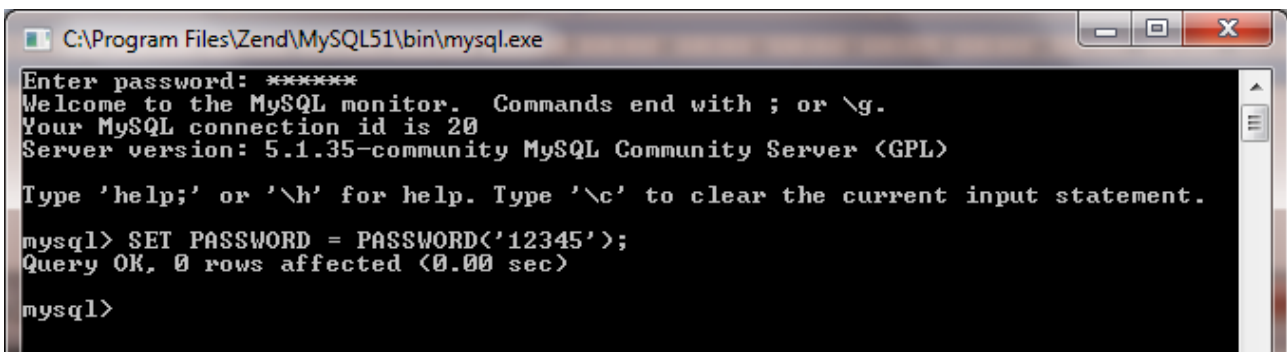


```
C:\Program Files\Zend\MySQL51\bin\mysql.exe
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 20
Server version: 5.1.35-community MySQL Community Server (GPL)

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> _
```

- Type: `SET PASSWORD = PASSWORD('new_pass');` to change password for root.



```
C:\Program Files\Zend\MySQL51\bin\mysql.exe
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 20
Server version: 5.1.35-community MySQL Community Server (GPL)

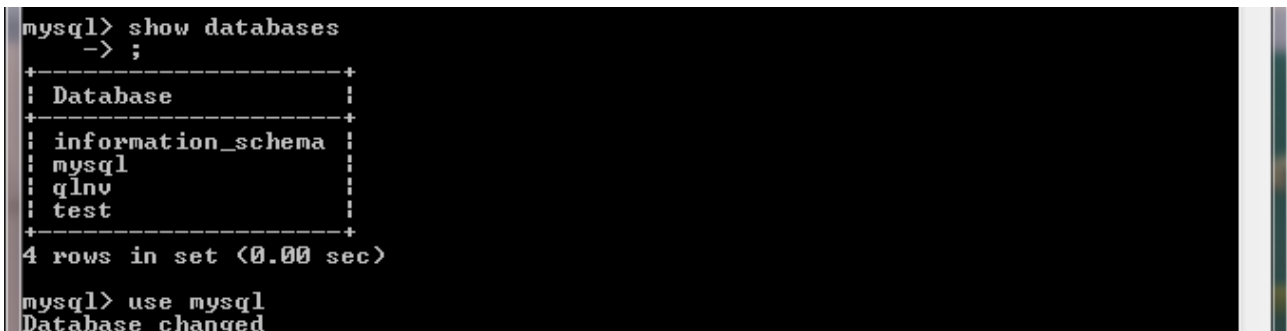
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> SET PASSWORD = PASSWORD('12345');
Query OK, 0 rows affected (0.00 sec)

mysql>
```

Step 2. Investigate mysql database

- Show and use **mysql** database



```
mysql> show databases
->
+-----+
| Database |
+-----+
| information_schema |
| mysql      |
| qlnv       |
| test       |
+-----+
4 rows in set (0.00 sec)

mysql> use mysql
Database changed
```

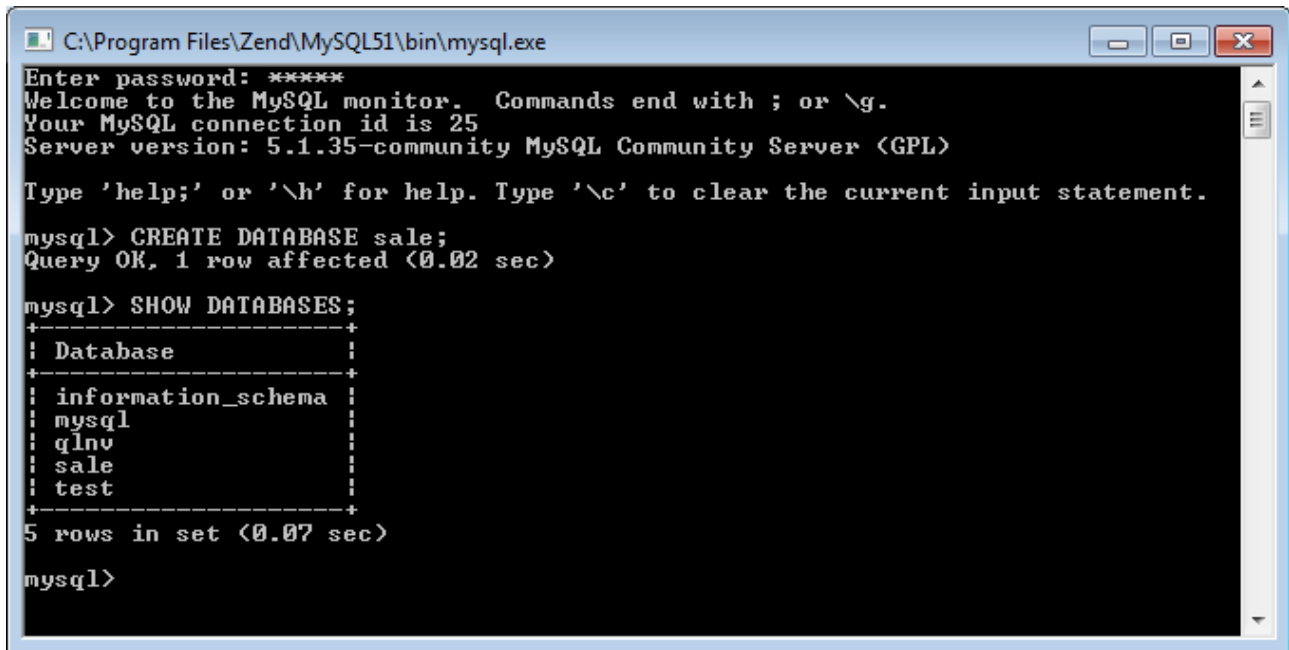
- Display all tables in the **mysql** database


```
mysql> show tables;
+-----+
| Tables_in_mysql |
+-----+
| columns_priv     |
| db               |
| event            |
| func             |
| general_log      |
| help_category    |
| help_keyword     |
| help_relation    |
| help_topic       |
| host             |
| ndb_binlog_index |
| plugin           |
| proc             |
| procs_priv       |
| servers          |
| slow_log         |
| tables_priv      |
| time_zone        |
| time_zone_leap_second |
| time_zone_name   |
| time_zone_transition |
| time_zone_transition_type |
| user             |
+-----+
23 rows in set (0.01 sec)
```

- View column details for `user` table

```
C:\Program Files\Zend\MySQL51\bin\mysql.exe  EN English (United States) ? Help
mysql> desc user;
+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Defau |
|-----+-----+-----+-----+-----+
| Host  | char(60) | NO | PRI |       |
| User  | char(16) | NO | PRI |       |
| Password | char(41) | NO |     |       |
| Select_priv | enum('N','Y') | NO |     | N |
| Insert_priv | enum('N','Y') | NO |     | N |
| Update_priv | enum('N','Y') | NO |     | N |
| Delete_priv | enum('N','Y') | NO |     | N |
| Create_priv | enum('N','Y') | NO |     | N |
| Drop_priv  | enum('N','Y') | NO |     | N |
| Reload_priv | enum('N','Y') | NO |     | N |
| Shutdown_priv | enum('N','Y') | NO |     | N |
| Process_priv | enum('N','Y') | NO |     | N |
| File_priv  | enum('N','Y') | NO |     | N |
| Grant_priv | enum('N','Y') | NO |     | N |
| References_priv | enum('N','Y') | NO |     | N |
| Index_priv | enum('N','Y') | NO |     | N |
| Alter_priv | enum('N','Y') | NO |     | N |
| Show_db_priv | enum('N','Y') | NO |     | N |
| Super_priv | enum('N','Y') | NO |     | N |
| Create_tmp_table_priv | enum('N','Y') | NO |     | N |
| Lock_tables_priv | enum('N','Y') | NO |     | N |
```

- Create database named **sale** to run examples from the lecture.



```

C:\Program Files\Zend\MySQL51\bin\mysql.exe
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 25
Server version: 5.1.35-community MySQL Community Server (GPL)

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE sale;
Query OK, 1 row affected (0.02 sec)

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| qlnv |
| sale |
| test |
+-----+
5 rows in set (0.07 sec)

mysql>

```

6.3. Examples in the lecture slides

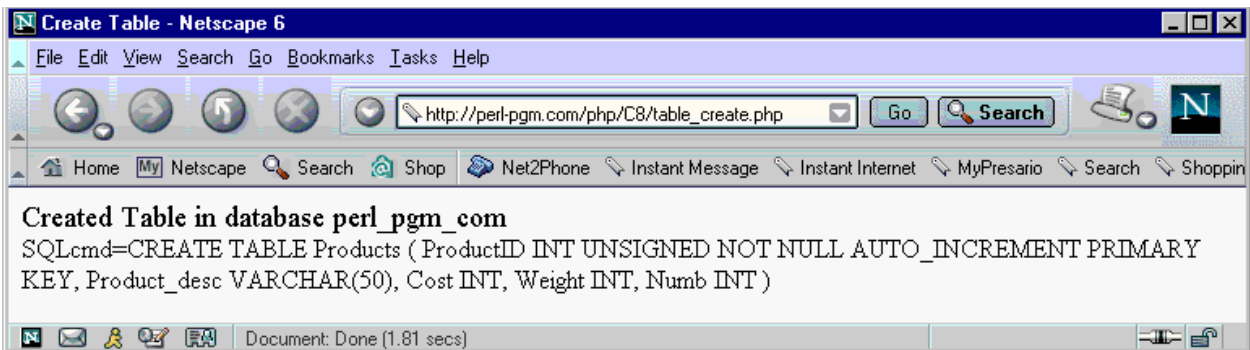
Step 1. Create table Products using PHP scripts

```

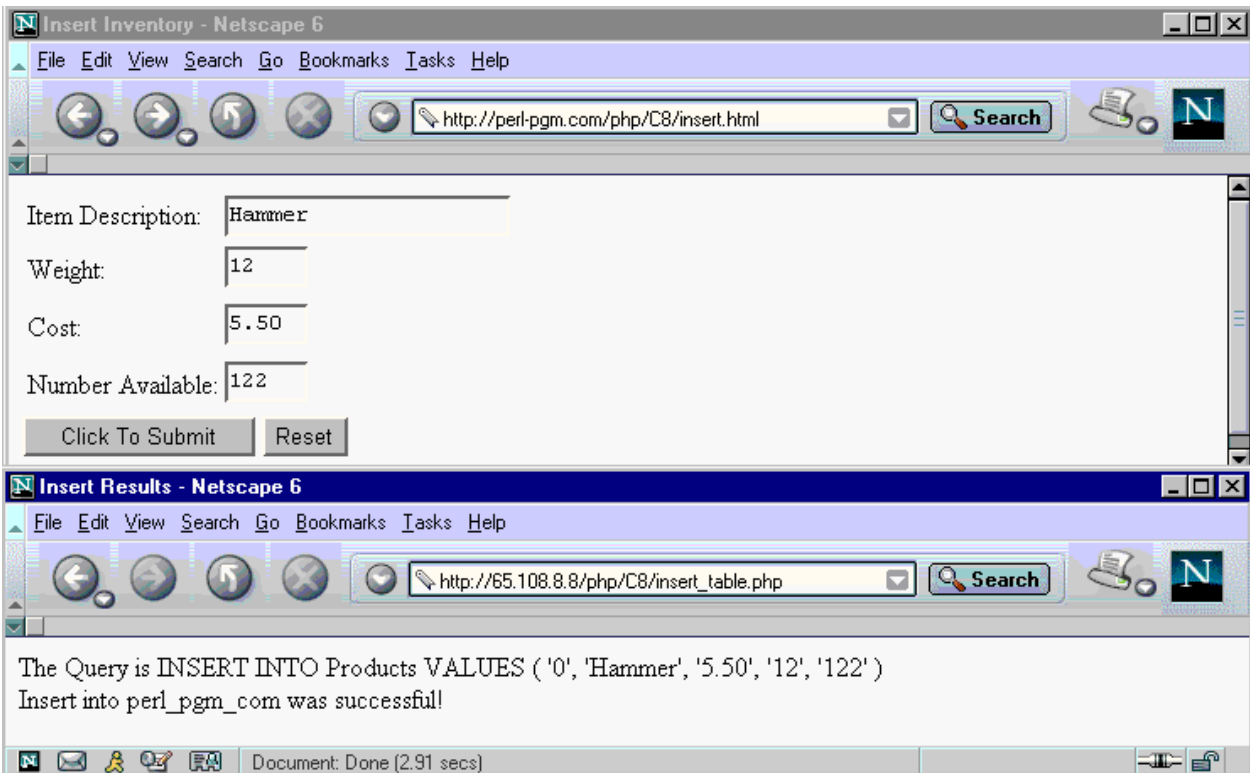
1. <html><head><title>Create Table</title></head><body>
2. <?php
3. $server = 'localhost';
4. $user = 'phppgm';
5. $pass = 'mypasswd';
6. $mydb = 'mydatabase';
7. $table_name = 'Products';
8. $connect = mysql_connect($server, $user, $pass);
9. if (!$connect) {
10.     die ("Cannot connect to $server using $user");
11. } else {
12.     $SQLcmd = "CREATE TABLE $table_name(
                ProductID INT UNSIGNED NOT NULL
                AUTO_INCREMENT PRIMARY KEY,
                Product_desc VARCHAR(50),
                Cost INT,
                Weight INT,
                Numb INT)";
13. mysql_select_db($mydb);
14. if (mysql_query($SQLcmd, $connect)){
15.     print '<font size="4" color="blue" >Created Table';
16.     print "<i>$table_name</i> in database<i>$mydb</i><br></font>";
17.     print "<br>SQLcmd=$SQLcmd";
18. } else {
19.     die ("Table Create Creation Failed SQLcmd=$SQLcmd");
20. }
21. mysql_close($connect);
22. }
23. ?></body></html>

```

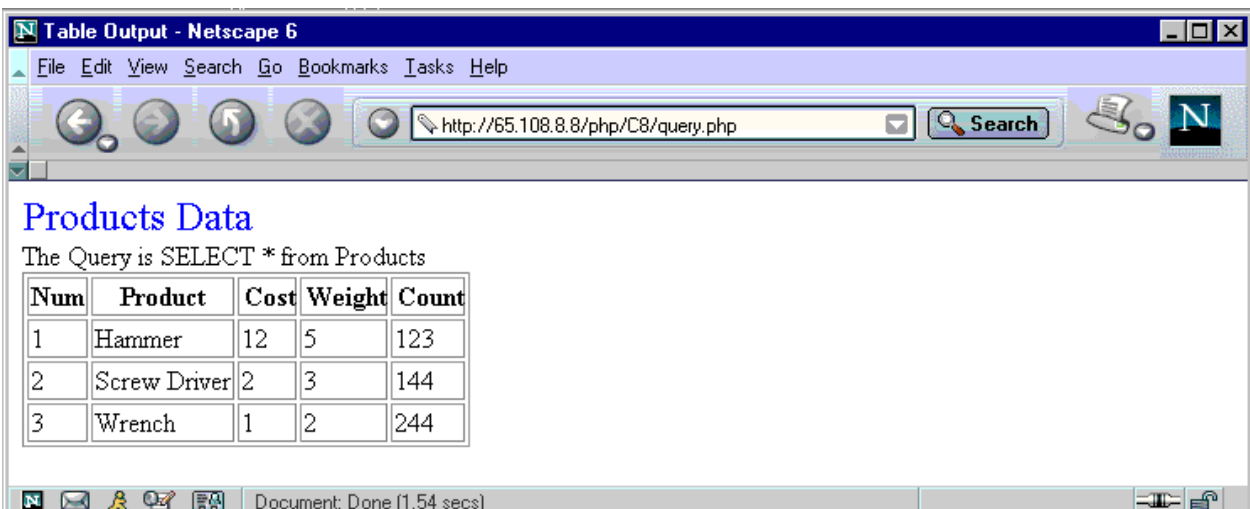
The result after creating table successfully:



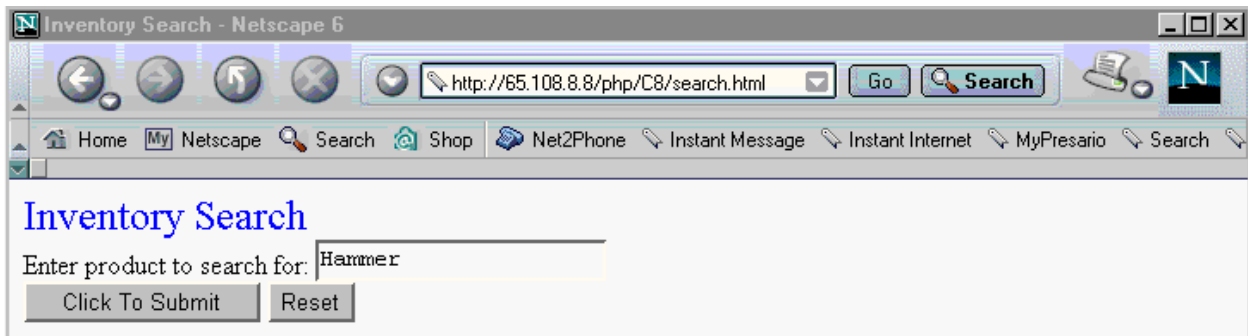
Step 2. Insert data to Products



Step 3. Display list of products

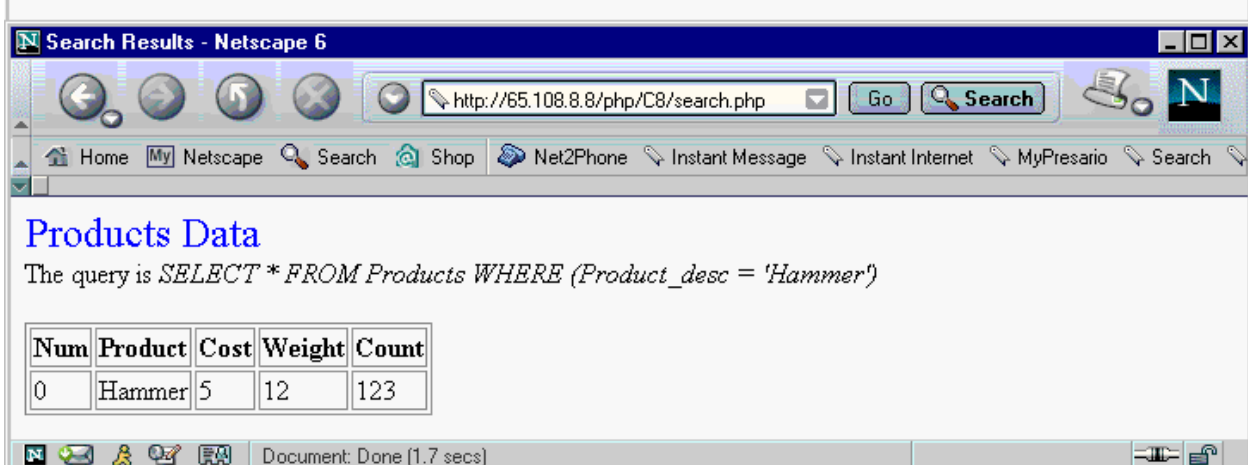


Step 4. Search products



Inventory Search

Enter product to search for:



Search Results

The query is *SELECT * FROM Products WHERE (Product_desc = 'Hammer')*

Num	Product	Cost	Weight	Count
0	Hammer	5	12	123

Document: Done (1.7 secs)

Step 5. Update product



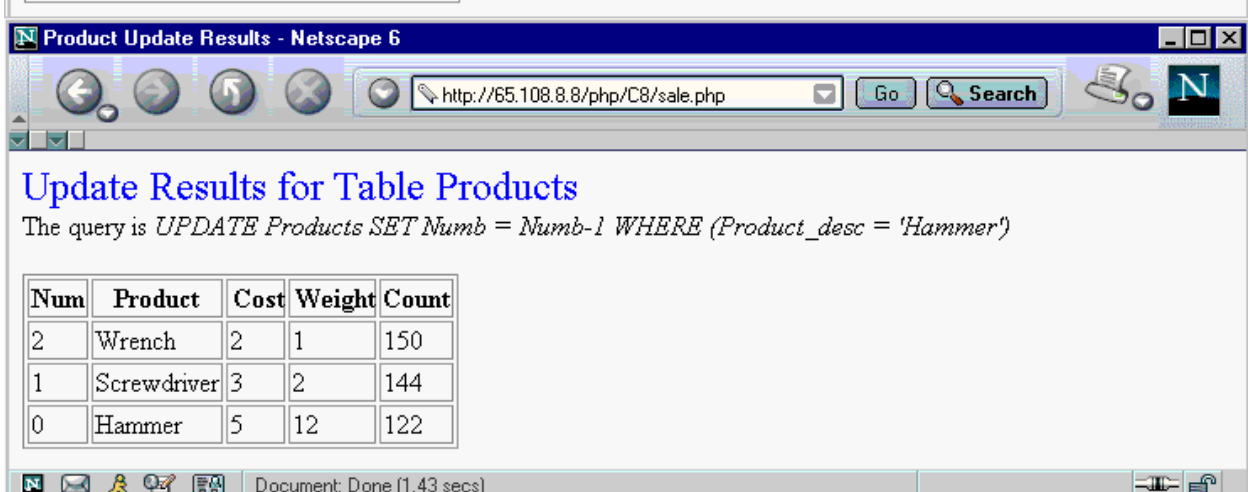
Inventory Management

Select Product We Just Sold:

☒ Hammer ☐ Screwdriver ☐ Wrench

The query is *SELECT * from Products*

Num	Product	Cost	Weight	Count
2	Wrench	2	1	150
1	Screwdriver	3	2	144
0	Hammer	5	12	123



Product Update Results

Update Results for Table Products

The query is *UPDATE Products SET Numb = Numb-1 WHERE (Product_desc = 'Hammer')*

Num	Product	Cost	Weight	Count
2	Wrench	2	1	150
1	Screwdriver	3	2	144
0	Hammer	5	12	122

Document: Done (1.43 secs)

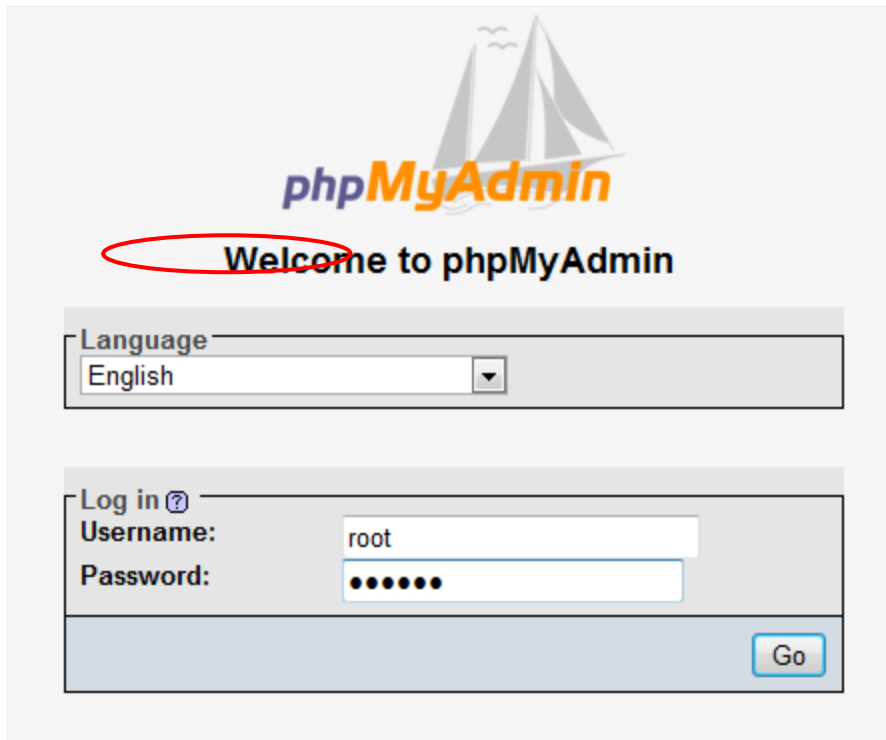
6.4. phpMyAdmin

Step 1. Install phpMyAdmin

Link: <https://www.phpmyadmin.net/>

Step 2. Open phpMyAdmin

- Enter username (root) and password (123456)



phpMyAdmin

Welcome to phpMyAdmin

Language: English

Log in ?

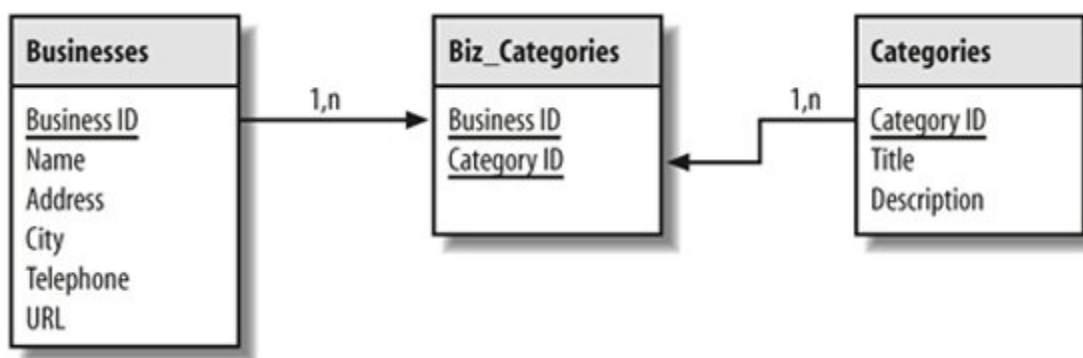
Username: root

Password:

Go

Step 3. Create tables and relationships for business listing service

Create a database named business_service. Create tables and relationships as the following design:



6.5. Exercise 1: Category Administration page

Design the following page for Category Administration to add a category:



6.6. Exercise 2: Business Registration page

Design the following page for Business Registration to add a business. Users can choose multiple categories for the business in the list in the left of the page.



6.7. Exercise 3: Business listing page

Design the following page for Business Listing to display a list of businesses for a specific category. Users can click to the list of categories in the left view the list of corresponding businesses.

