

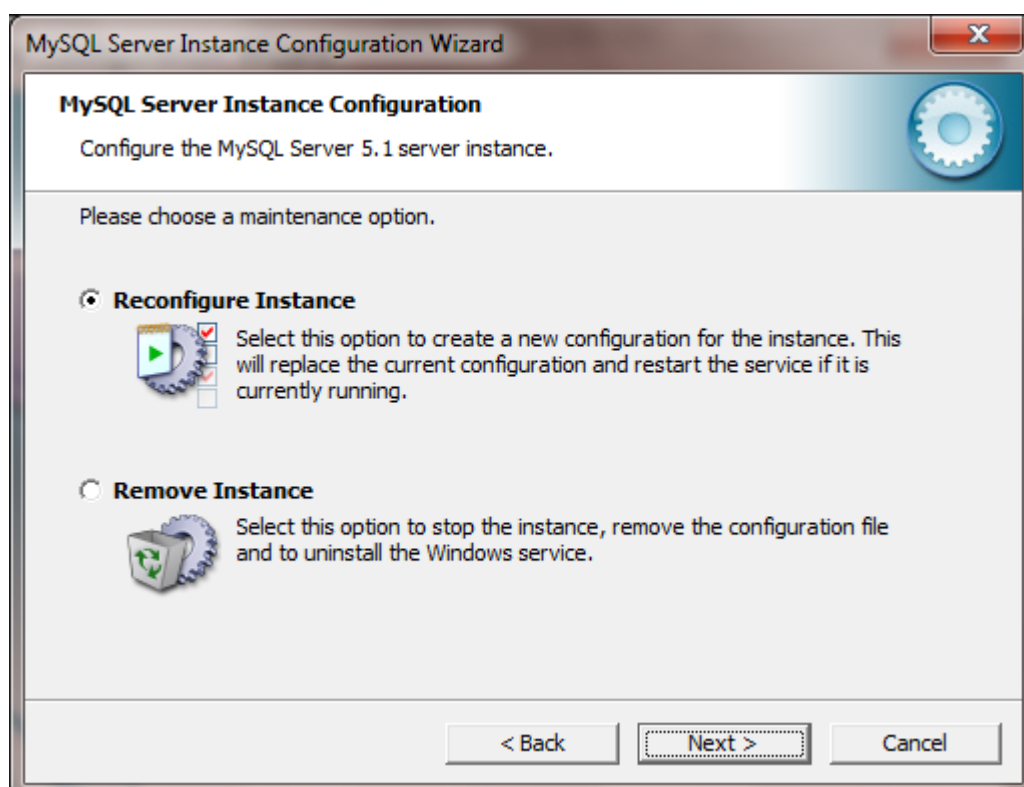
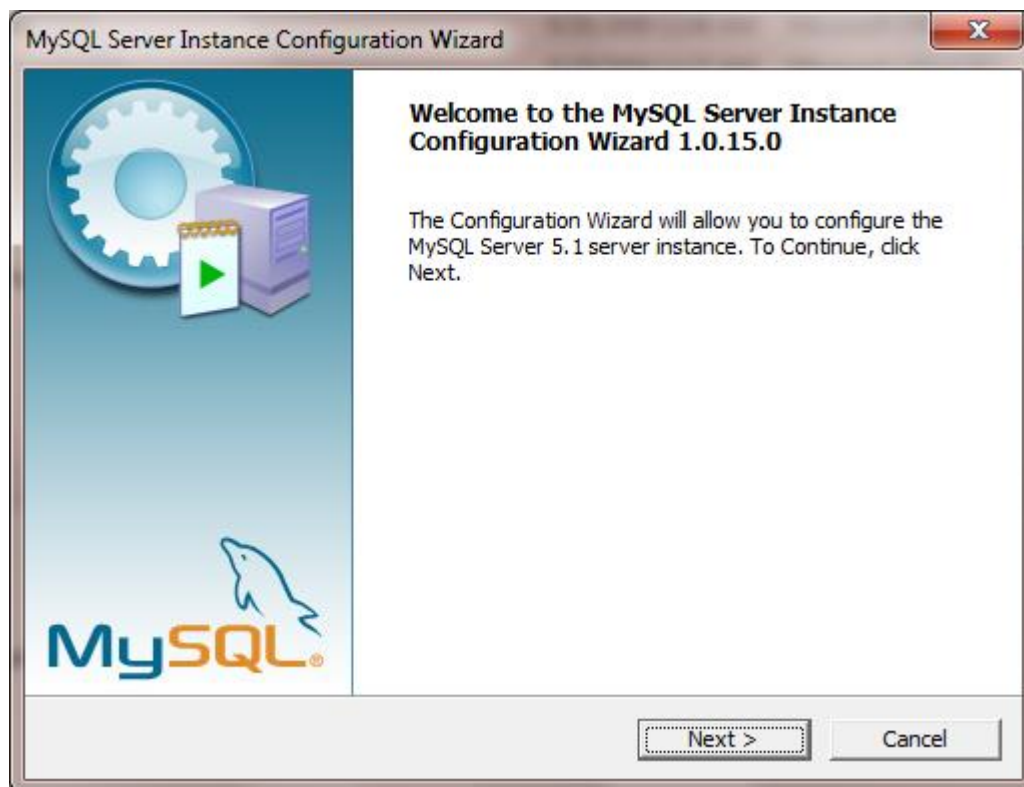
Lab 6-1. MySQL & PHP

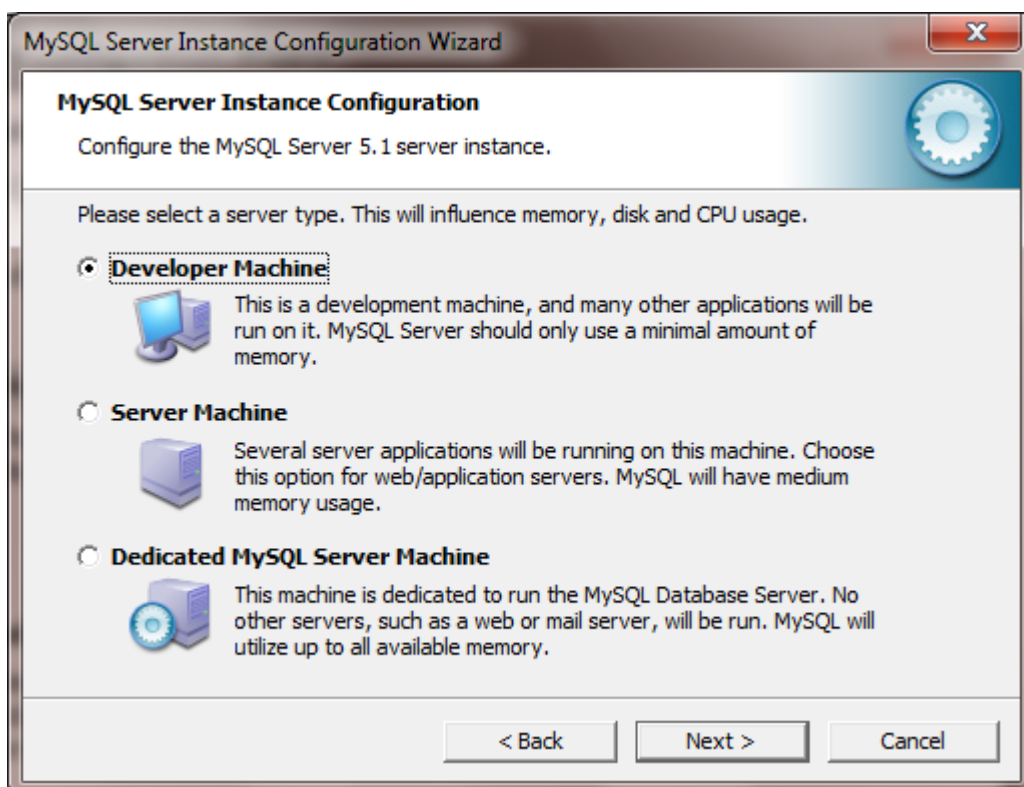
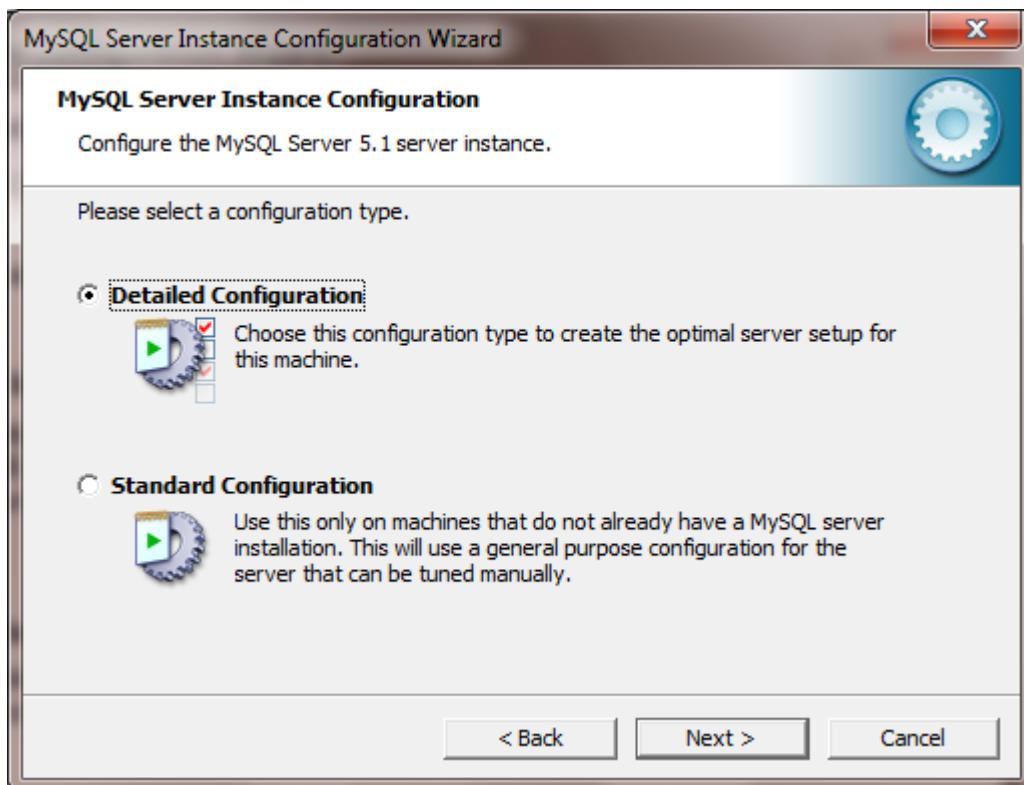
Prepared: TrangNTT

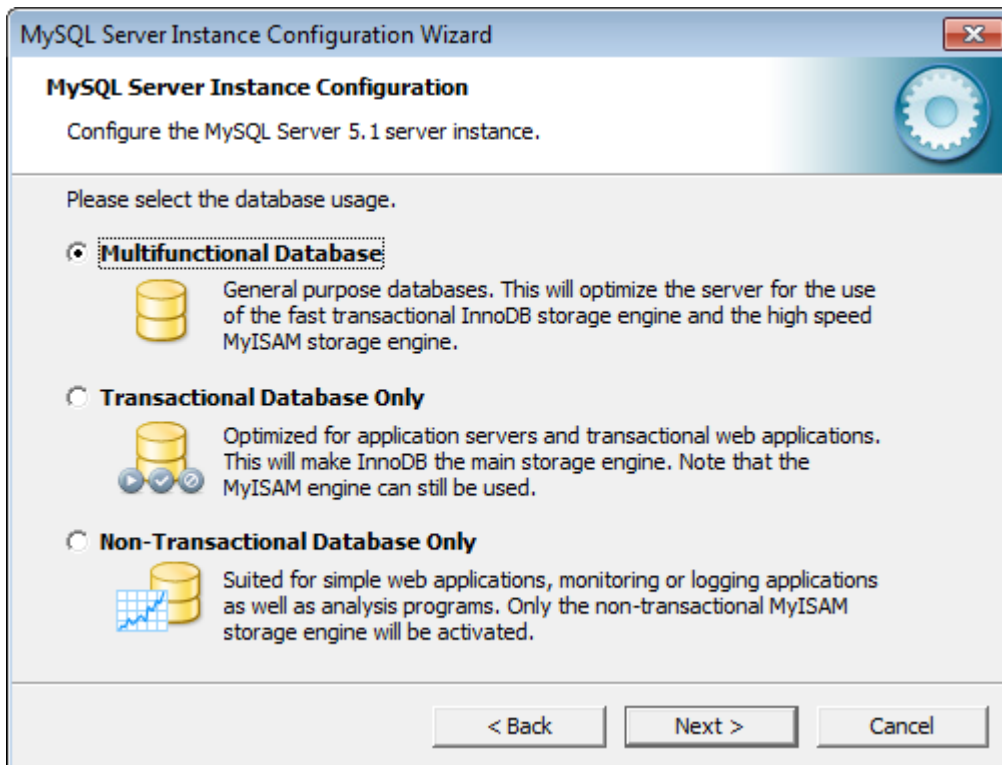
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6.1. MySQL Server Instance

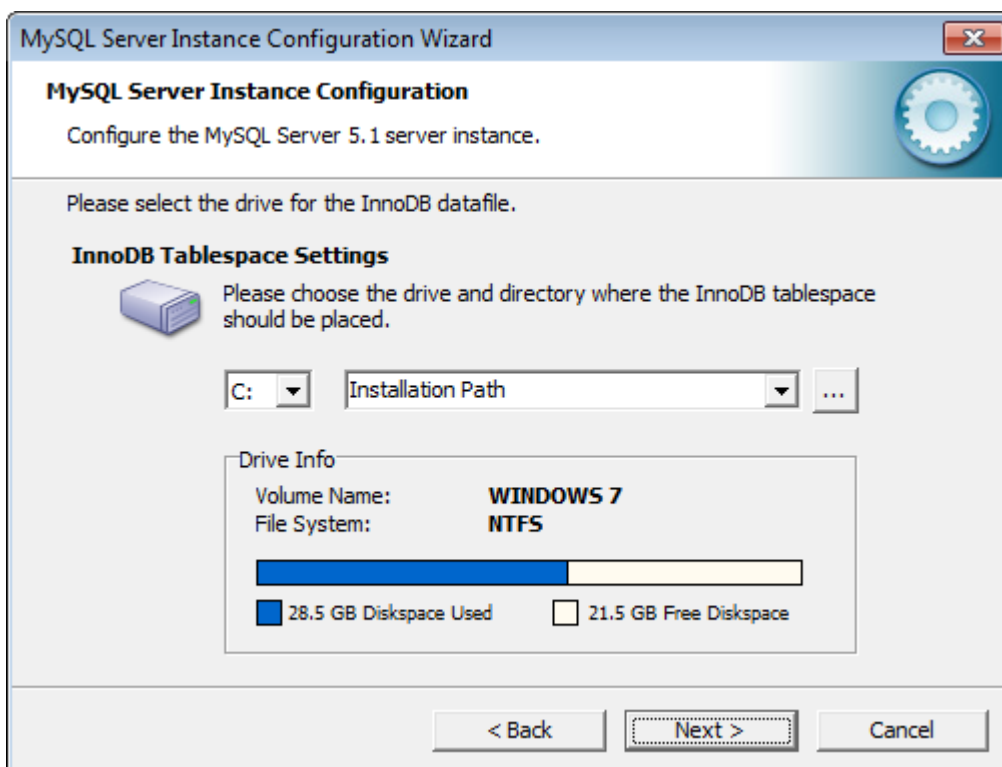
Select Start → All Programs → Zend Server Community Edition → MySQL







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


MySQL Server Instance Configuration Wizard


MySQL Server Instance Configuration

Configure the MySQL Server 5.1 server instance.

Please select the default character set.

☐ **Standard Character Set**
 Makes Latin1 the default charset. This character set is suited for English and other West European languages.

☒ **Best Support For Multilingualism**
 Make UTF8 the default character set. This is the recommended character set for storing text in many different languages.

☐ **Manual Selected Default Character Set / Collation**
 Please specify the character set to use.
 Character Set:


< Back Next > Cancel


MySQL Server Instance Configuration Wizard

MySQL Server Instance Configuration

Configure the MySQL Server 5.1 server instance.

Please set the Windows options.

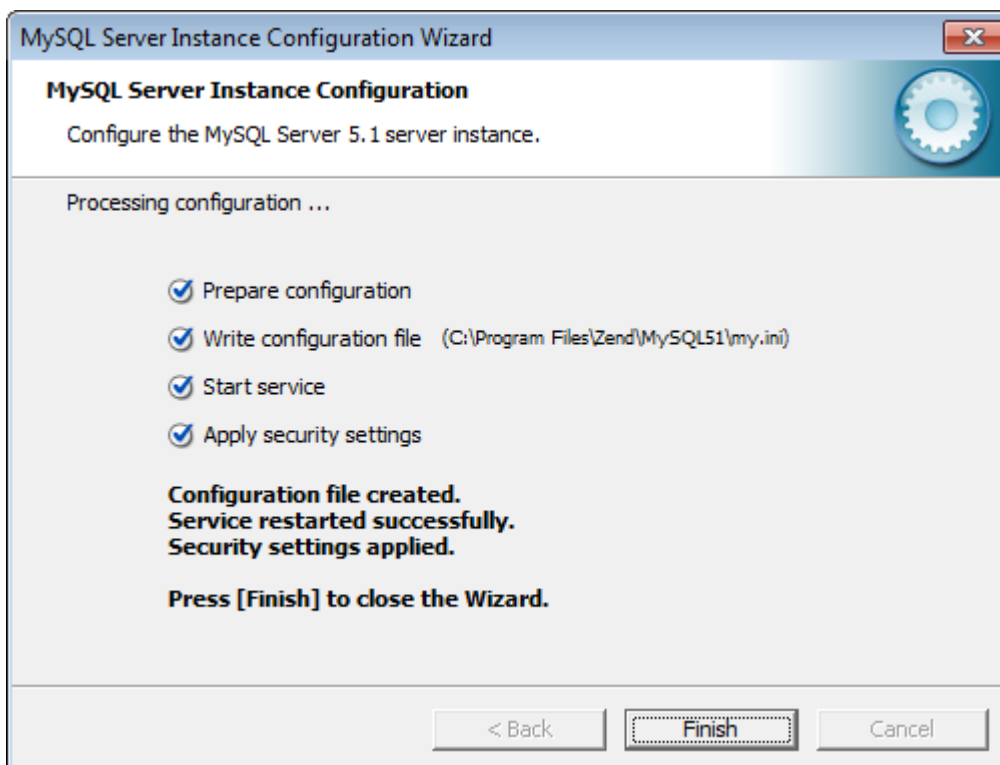
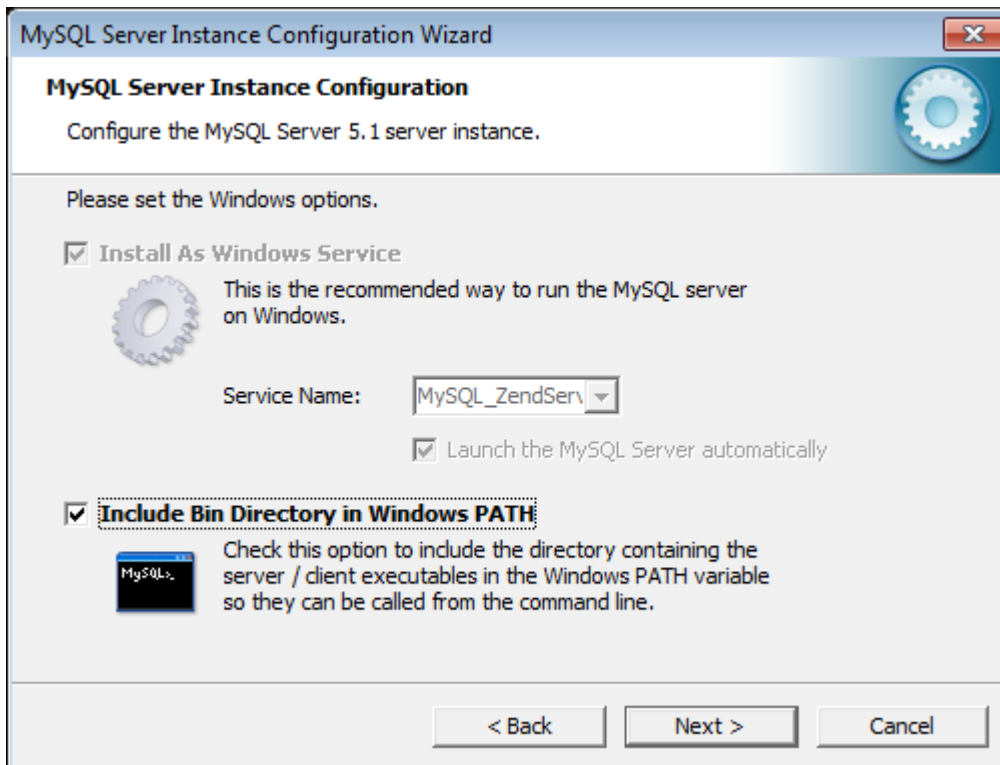
☒ **Install As Windows Service**
 This is the recommended way to run the MySQL server on Windows.
 Service Name:
☒ Launch the MySQL Server automatically

☒ **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

Type password for root:

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



6.2. MySQL Command Line Client

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

- Select Start → All Programs → Zend Server Community Edition → MySQL Server 5.1 → MySQL Command Line Client. Enter password and press Enter.

```
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 | Extra | 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 |
| glnv |
| sale |
| test |
+-----+
5 rows in set (0.07 sec)

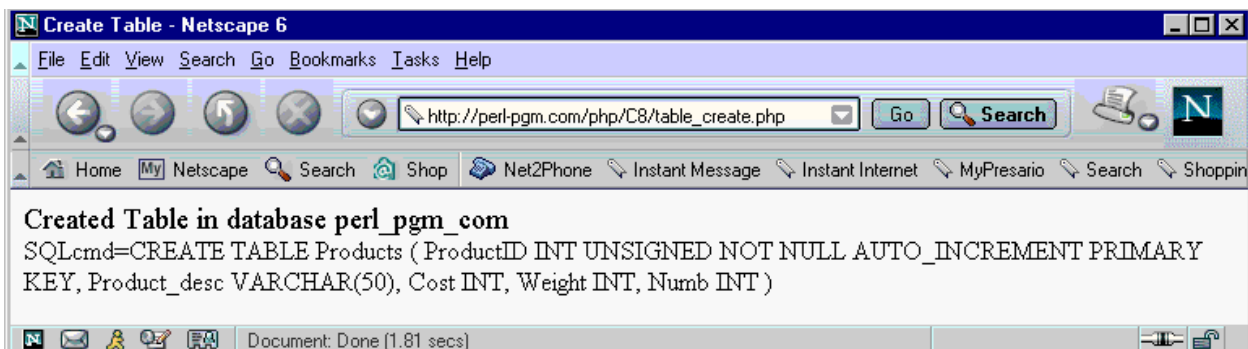
mysql>
```

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

The screenshot shows two windows from Netscape 6. The top window, titled 'Insert Inventory - Netscape 6', displays a form with the following fields: 'Item Description' (Hammer), 'Weight' (12), 'Cost' (5.50), and 'Number Available' (122). Below the form are 'Click To Submit' and 'Reset' buttons. The address bar shows 'http://perl-pgm.com/php/C8/insert.html'. The bottom window, titled 'Insert Results - Netscape 6', shows the result of the insert operation. The address bar shows 'http://65.108.8.8/php/C8/insert_table.php'. The main content area displays the text: 'The Query is INSERT INTO Products VALUES ('0', 'Hammer', '5.50', '12', '122')' and 'Insert into perl_pgm_com was successful!'. The status bar at the bottom of the bottom window shows 'Document: Done (2.91 secs)'.

Item Description: Hammer

Weight: 12

Cost: 5.50

Number Available: 122

Click To Submit Reset

The Query is INSERT INTO Products VALUES ('0', 'Hammer', '5.50', '12', '122')
Insert into perl_pgm_com was successful!

Document: Done (2.91 secs)

Step 3. Display list of products

The screenshot shows a window titled 'Table Output - Netscape 6'. The address bar shows 'http://65.108.8.8/php/C8/query.php'. The main content area displays the title 'Products Data' in blue, followed by the text 'The Query is SELECT * from Products'. Below this is a table with 5 columns: Num, Product, Cost, Weight, and Count. The table contains 3 rows of data. The status bar at the bottom shows 'Document: Done (1.54 secs)'.

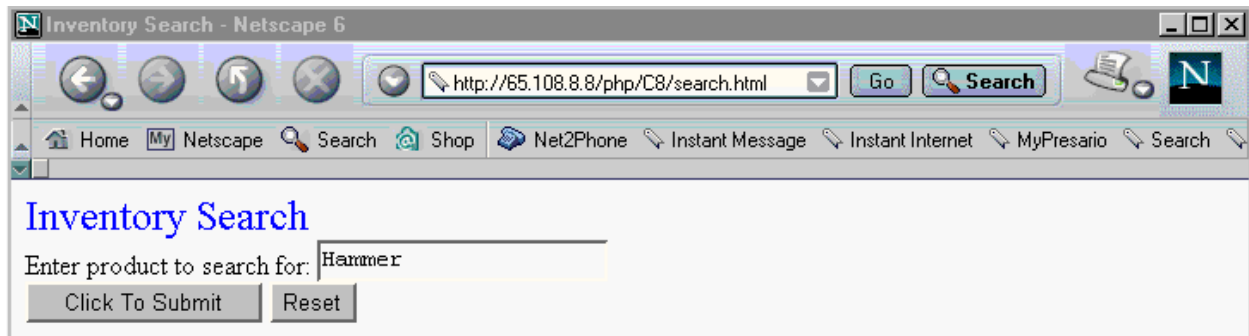
Products Data

The Query is SELECT * from Products

Num	Product	Cost	Weight	Count
1	Hammer	12	5	123
2	Screw Driver	2	3	144
3	Wrench	1	2	244

Document: Done (1.54 secs)

Step 4. Search products



Inventory Search - Netscape 6

http://65.108.8.8/php/C8/search.html

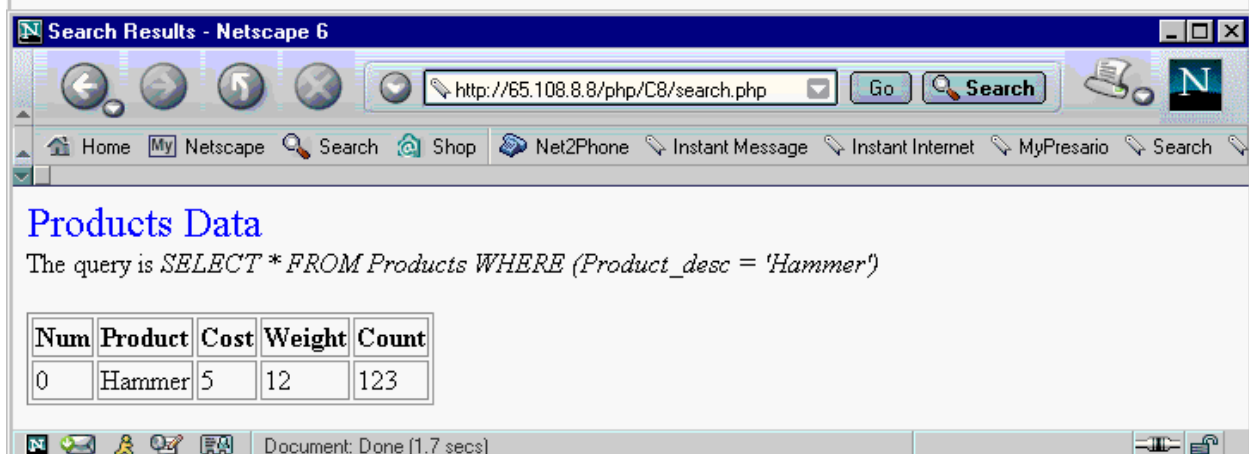
Go Search

Home My Netscape Search Shop Net2Phone Instant Message Instant Internet MyPresario Search

Inventory Search

Enter product to search for:

Click To Submit Reset



Search Results - Netscape 6

http://65.108.8.8/php/C8/search.php

Go Search

Home My Netscape Search Shop Net2Phone Instant Message Instant Internet MyPresario Search


Products Data

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 - Netscape 6

http://perl-pgm.com/php/C8/startsale.php

Go Search

Home My Netscape Search Shop Net2Phone Instant Message Instant Internet MyPresario Search

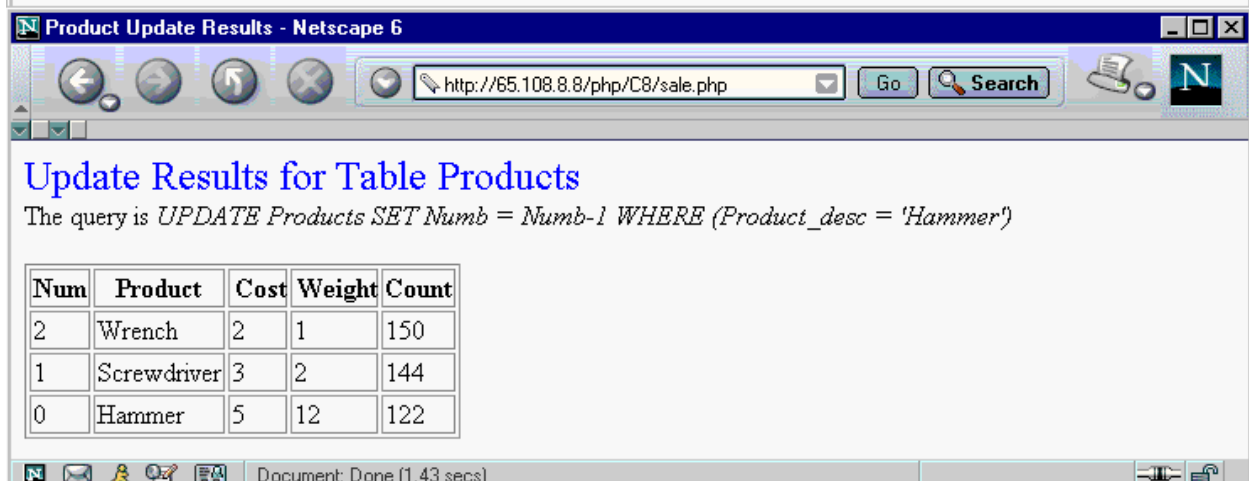
Select Product We Just Sold:

Hammer ☒ Screwdriver ☐ Wrench ☐

Click To Submit Reset

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 - Netscape 6

http://65.108.8.8/php/C8/sale.php

Go Search

Home My Netscape Search Shop Net2Phone Instant Message Instant Internet MyPresario Search

Update Results for Table Products

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

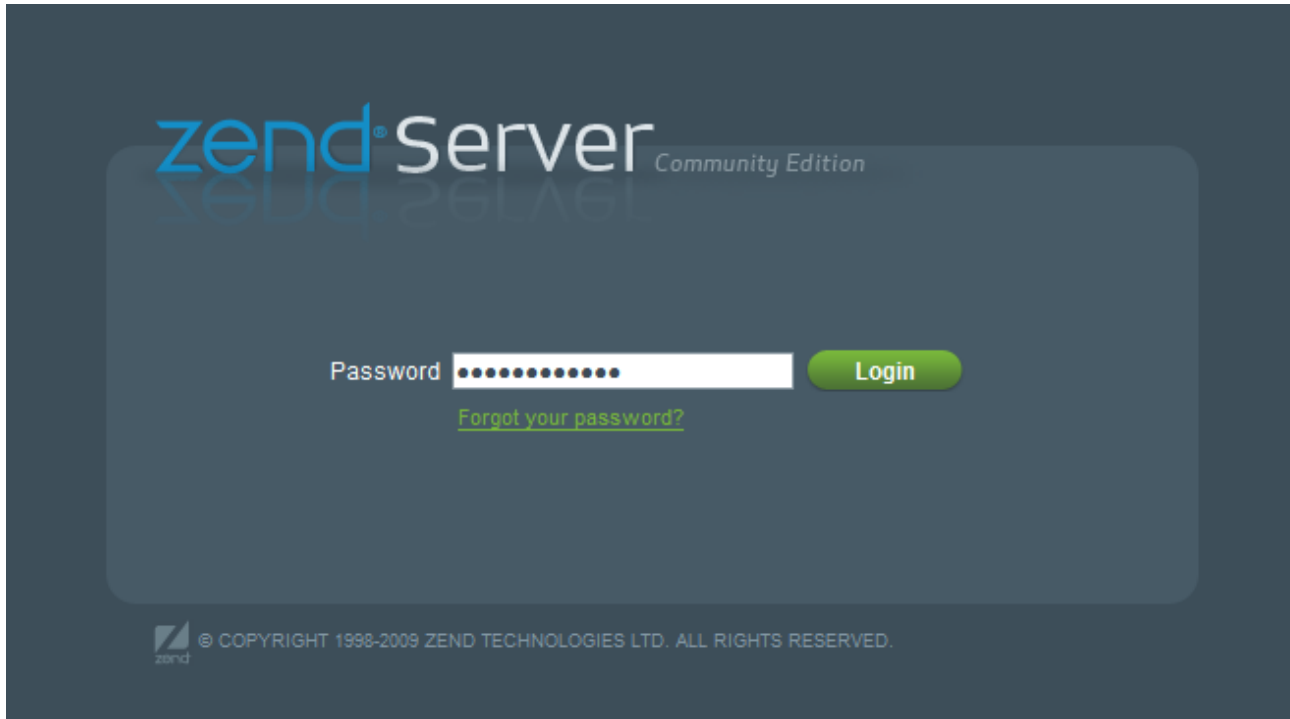
Num	Product	Cost	Weight	Count
2	Wrench	2	1	150
1	Screwdriver	3	2	144
0	Hammer	5	12	122

Document: Done (1.43 secs)

6.4. phpMyAdmin

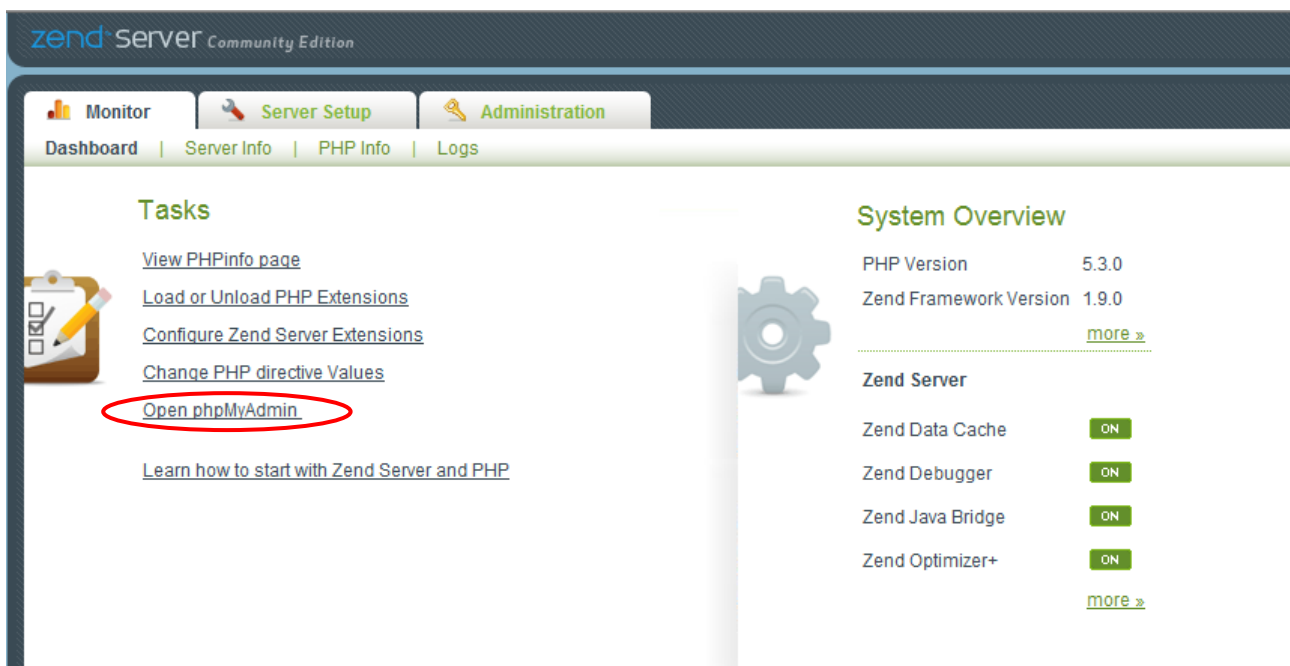
Step 1. Open Zend Server Community Edition

- Select Start → All Programs → Zend Server Community Edition → Zend Server 4.0
- Enter password you setted when installing

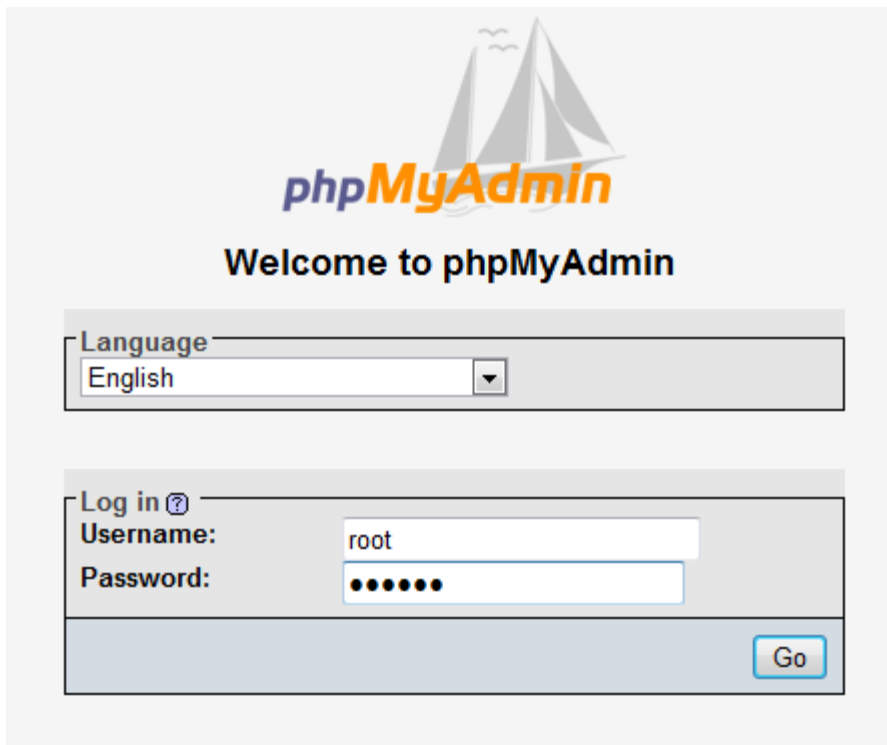


Step 2. Open phpMyAdmin

- Press Login to go to Zend Server page. Click on Open phpMyAdmin



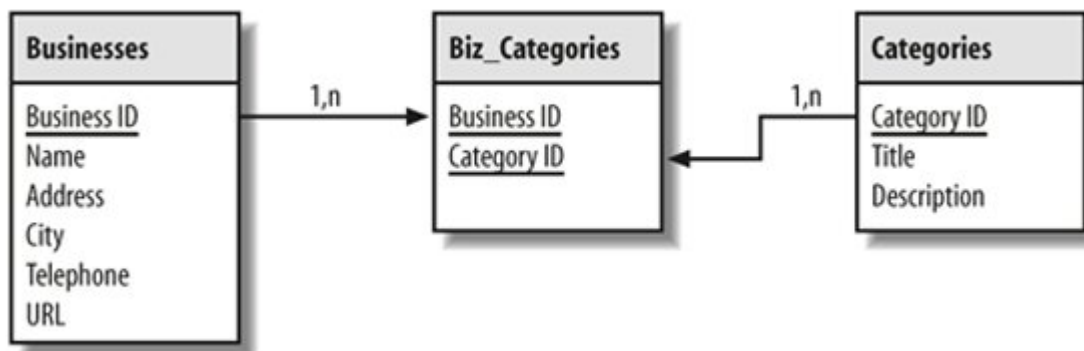
- Enter username (root) and password (123456)



The image shows the phpMyAdmin welcome screen. At the top is the phpMyAdmin logo with a sailboat icon. Below it, the text "Welcome to phpMyAdmin" is displayed. There is a language selection dropdown menu currently set to "English". Below that is a login section with fields for "Username:" (containing "root") and "Password:" (masked with dots). A "Go" button is located at the bottom right of the login section.

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:



The image is a screenshot of a web browser showing a "Category Administration" page. The page has a title bar "Category Administration - Microsoft Internet Explorer" and an address bar "http://localhost/bizness/admin.php". The main content area has a heading "Category Administration" and a table with three columns: "Cat ID", "Title", and "Description". The table contains five rows of data: AUTO (Automotive Parts and Supplies, Accessories for your car), FISH (Seafood Stores and Restaurants, Place to get your fish), HEALTH (Health And Beauty, Everything for the body), SCHOOL (Schools and Colleges, Public and Private Learning), and SPORTS (Community Sports and Recreation, Guide to Parks and Leagues). Below the table are three input fields and an "Add Category" button.

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.

Business Registration

Click on one, or control-click on multiple categories:

- Automotive Parts and Supplies
- Seafood Stores and Restaurants
- Health And Beauty
- Schools and Colleges

Business Name:

Address:

City:

Telephone:

URL:

Business Registration

Record inserted as shown below.

Selected category values are highlighted:

- Seafood Stores and Restaurants
- Health And Beauty
- Schools and Colleges
- Community Sports and Recreation

Business Name:

Address:

City:

Telephone:

URL:

[Add Another Business](#)

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.

Business Listings

Click on a category to find business listings:

- Automotive Parts and Supplies
- Seafood Stores and Restaurants
- Health And Beauty
- Schools and Colleges
- Community Sports and Recreation

5	Leardorf Beauty Salon and Academy	123 Any Street	Toronto	(555) 123-4567	http://www.google.com	5 SCHOOL
6	Auto School	123 Some Street	Guinsville	(999)555-1234	http://www.autoschool.net	6 SCHOOL