To connect a **phpMyAdmin** MySQL database among **4 computers**, you need to configure MySQL to allow remote connections and ensure the other computers can access it over the network.

**Step-by-Step Guide to Connect phpMyAdmin Database Across 4 Computers**

**1. Enable Remote Access in MySQL Server (Main Computer)**

This step is for the computer hosting MySQL.

**Step 1.1: Edit the MySQL Configuration File**

1. Open my.cnf or my.ini (MySQL configuration file):
   * On **Windows**: C:\xampp\mysql\bin\my.ini
   * On **Linux** (Ubuntu/Debian): /etc/mysql/mysql.conf.d/mysqld.cnf
   * On **Mac** (MAMP): /Applications/MAMP/conf/my.cnf
2. Find this line:
3. bind-address = 127.0.0.1

Change it to:

bind-address = 0.0.0.0

1. Save the file and restart MySQL:
2. sudo service mysql restart # Linux/Mac

or restart MySQL from **XAMPP Control Panel** (Windows).

**2. Create a User for Remote Access**

Now, create a MySQL user that allows remote connections.

1. Open phpMyAdmin (<http://127.0.0.1/phpmyadmin>) on the **server computer**.
2. Click on the **SQL** tab.
3. Run this command to create a user that can access from any IP (% means any IP):
4. CREATE USER 'remote\_user'@'%' IDENTIFIED BY 'password';
5. GRANT ALL PRIVILEGES ON \*.\* TO 'remote\_user'@'%' WITH GRANT OPTION;
6. FLUSH PRIVILEGES;
7. If you want to allow only specific computers (replace 192.168.1.X with their IPs):
8. CREATE USER 'remote\_user'@'192.168.1.100' IDENTIFIED BY 'password';
9. GRANT ALL PRIVILEGES ON \*.\* TO 'remote\_user'@'192.168.1.100' WITH GRANT OPTION;
10. FLUSH PRIVILEGES;

**3. Open MySQL Port (3306) in Firewall**

If MySQL is blocked by the firewall, open port **3306**.

**For Windows:**

1. Open **Windows Defender Firewall** → **Advanced Settings**.
2. Click **Inbound Rules** → **New Rule**.
3. Select **Port** → **TCP** → **3306** → Allow the connection → Apply.
4. Do the same for **Outbound Rules**.

**For Linux (Ubuntu/Debian):**

sudo ufw allow 3306/tcp

sudo systemctl restart mysql

**For Mac (MAMP Users):**

* No extra steps needed unless a firewall is blocking it.

**4. Connect Other Computers to the Database**

Now, on the **other computers**, you need to **connect to the remote MySQL server**.

**For PHP (in newprofile.php or any script)**

Replace localhost with the **server's IP address**.

$host = "192.168.1.200"; // Replace with your server's IP

$user = "remote\_user";

$pass = "password";

$db = "guidenet";

$conn = new mysqli($host, $user, $pass, $db);

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

} else {

echo "Connected successfully";

}

**For MySQL CLI (Command Prompt)**

On the **client computers**, open the terminal and type:

mysql -u remote\_user -p -h 192.168.1.200

Enter the **password** when prompted.

**5. Test Connection Using phpMyAdmin on Client Computers**

1. Install **phpMyAdmin** on the client computers.
2. Open config.inc.php (usually in C:\xampp\phpMyAdmin\ or /etc/phpmyadmin/).
3. Add a new server entry:
4. $i++;
5. $cfg['Servers'][$i]['host'] = '192.168.1.200'; // Replace with your server's IP
6. $cfg['Servers'][$i]['user'] = 'remote\_user';
7. $cfg['Servers'][$i]['password'] = 'password';
8. $cfg['Servers'][$i]['auth\_type'] = 'config';
9. Restart Apache in XAMPP and open **phpMyAdmin** on the client computer.

**6. Troubleshooting**

* If connection is refused:
  + Check if MySQL is running: sudo systemctl status mysql
  + Check if port **3306** is open: netstat -an | findstr 3306
  + Ensure the firewall allows MySQL connections.
* If access is denied:
  + Run: GRANT ALL PRIVILEGES ON \*.\* TO 'remote\_user'@'%' IDENTIFIED BY 'password' WITH GRANT OPTION;
  + Then: FLUSH PRIVILEGES;

**Final Check**

Now, all **4 computers** should be able to connect to the **same phpMyAdmin database** remotely. 🚀