7BUIS030W Data System Concepts and Fundamentals.

Software Guide

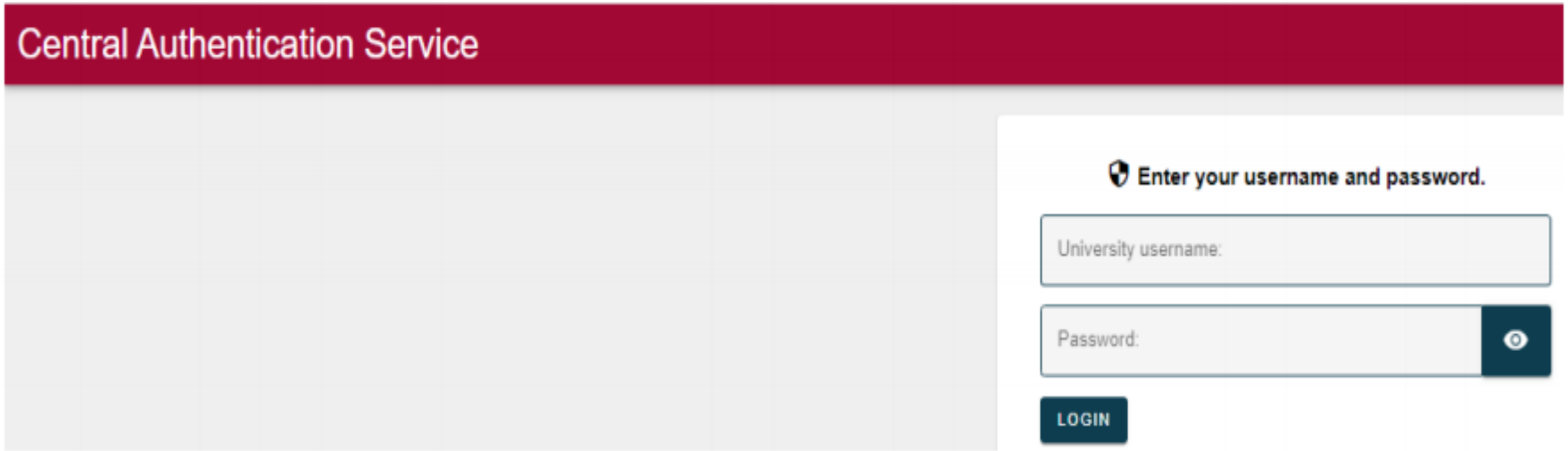
Entity-Relationship Diagrams (ERDs) for database design

1. Access diagrams.net (formerly known as draw.io) here: https://www.diagrams.net/
2. Click ‘Start’ to use the online version.
3. Alternatively click ‘Download’ to use the desktop version (recommended).
4. Either way, you can ‘Create New Diagram’ or ‘Open Existing Diagram’.
5. You can select between many different types of diagrams as follows.
    - In the ‘Basic’ category, the ‘Entity Relationship Diagram’ entry provides older notations for ERDs (not used in this module)
    - In the ‘Software’ category, the ‘database 2’ entry provides notations for ERDs that we will use in this module.
    - Alternatively, you can start from a ‘blank’ diagram and also create ERDs with the notations in use in this module.

MySQL Database Management System
(via the PHPMyAdmin admin tool)

Step 1 **: Authenticate yourself: Generate your MySQL account details**

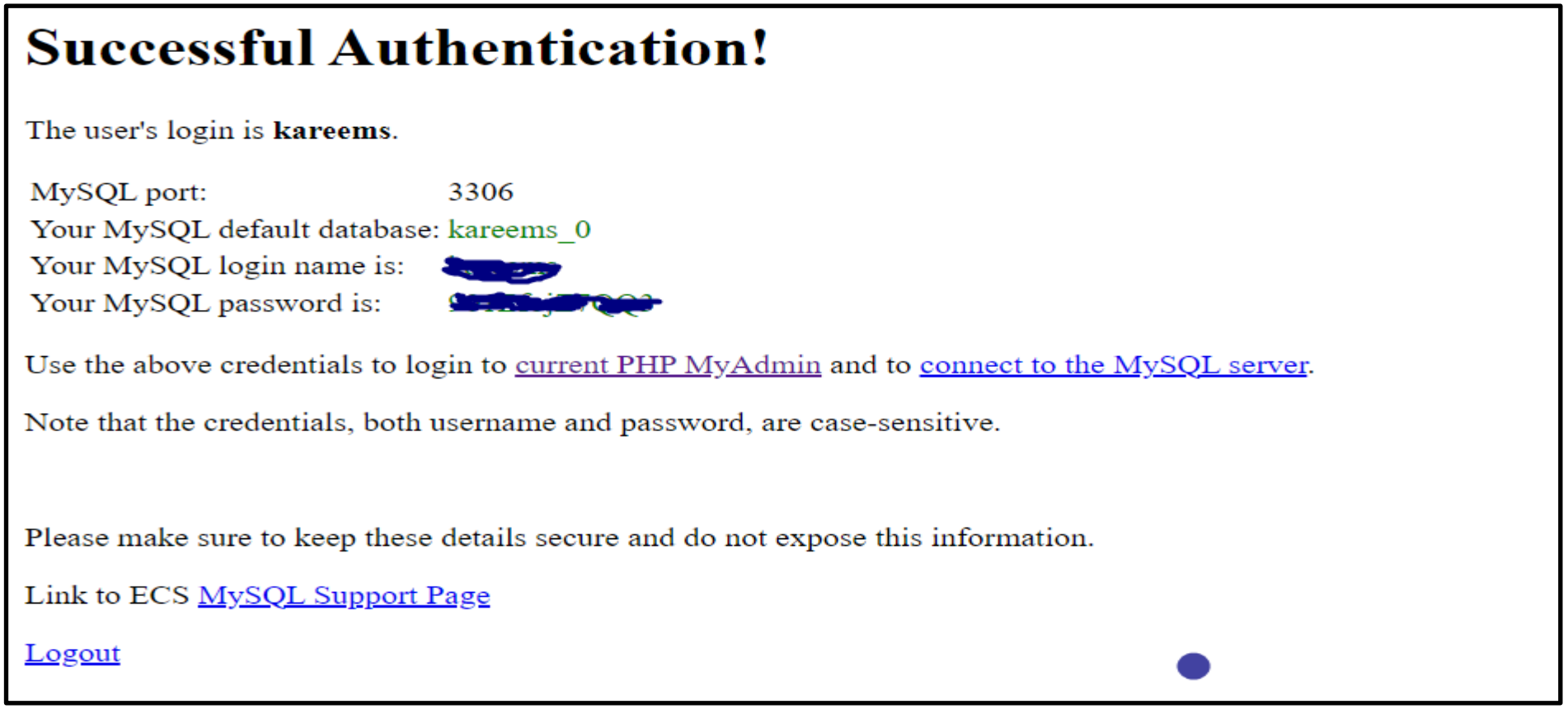
1. Generate your account here: https://support.ecs.westminster.ac.uk/mysql/index.php
2. Enter your University login details in the following section:



MySQL Database

3. Generate your MySQL database account details by simply clicking ‘LOGIN’.

If your authentication is successful, you should be able to see this screen with YOUR own details



MySQL Database

You are encouraged to copy and paste your MySQL default database, your MySQL login name and your MySQL password in the table below to keep them in this document:

Your MySQL login name (w+7 digits)	
Your MySQL password	
Your MySQL default database	

MySQL Database

Step 2: **Access MySQL through the phpMyAdmin interface**

1. Access phpMyAdmin on https://phpmyadmin.ecs.westminster.ac.uk/ and enter your details as shown on figure 1.

Note: phpMyAdmin is a free and open source interface written in PHP intended to handle the administration of the MySQL database through the use of a web browser.

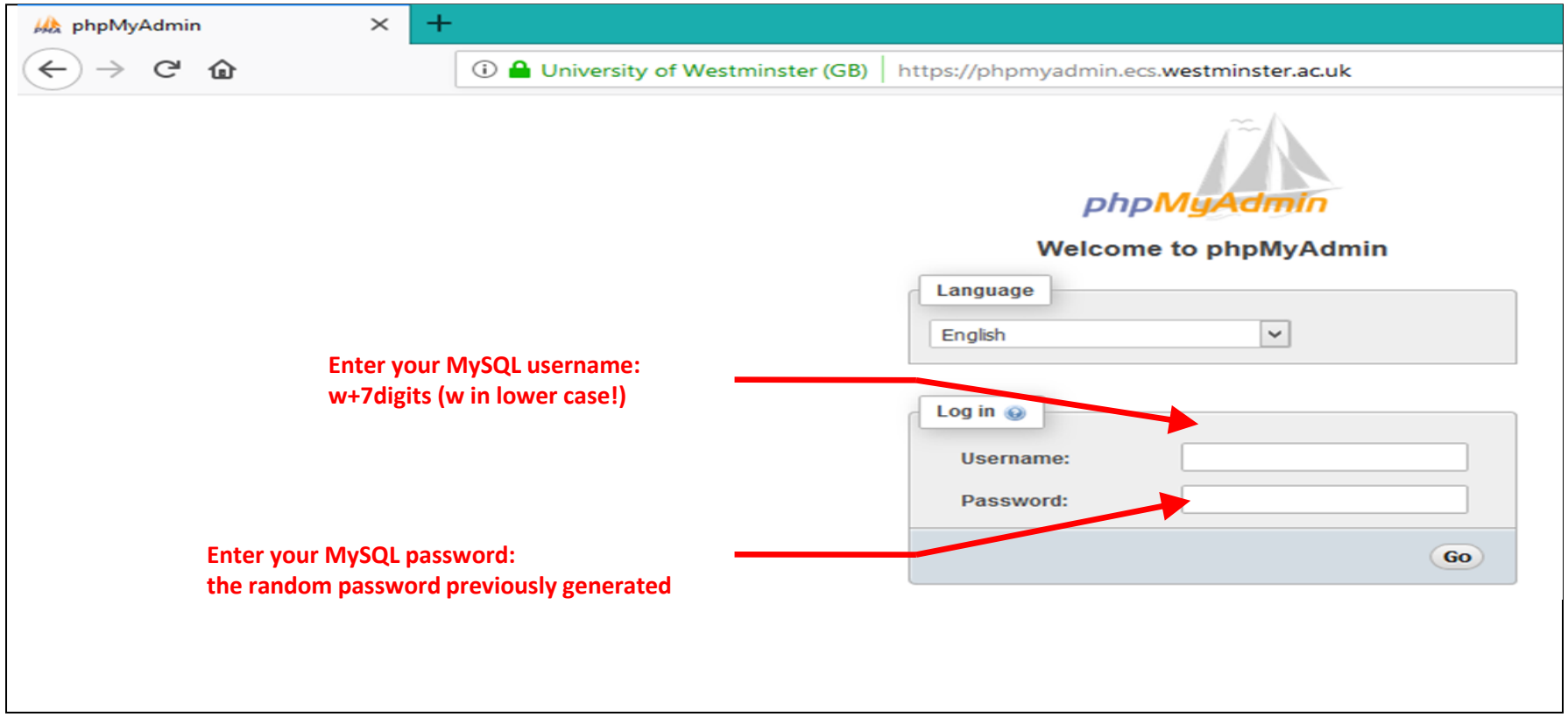


Figure 1: Log into PHPMyAdmin to access MySQL.

MySQL Database

Step 2: **Access MySQL through the phpMyAdmin interface**

2. Access your default database by clicking on your database name on the left hand-side, as shown on figure 2.

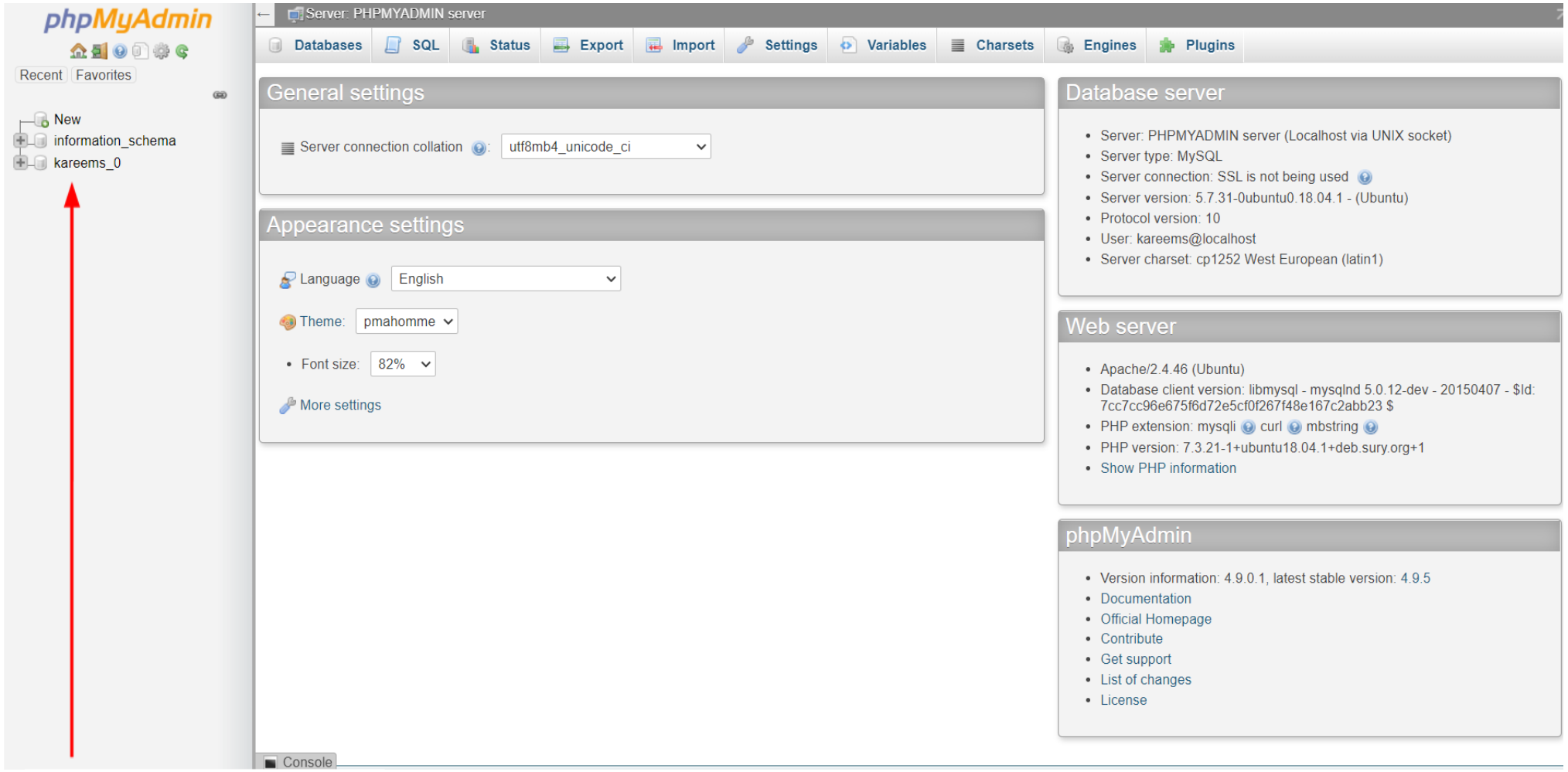


Figure 2: Access your default database.

MySQL Database

Step 2: **Access MySQL through the phpMyAdmin interface**

3. To access your own default database, click on your MySQL default database name “w + 7 digits _ 0” (e.g. w1234567_0) at the bottom on the vertical navigation bar on the left-hand side.
4. Click on the second ‘SQL’ tab (right at the top) to access the SQL editor and enter your SQL statements **.**
5. Alternatively, you can copy and paste the SQL statement you have written in your IDE and click ‘Go’ to execute it. This will enable you to store the queries for revision.

MySQL Database

Step 3: Use an IDE to write your statements in SQL, XML, XSLT, and XQuery.

1. **Get an IDE (i.e. a code editor)**

- Go to AppsAnywhere on https://appsanywhere.westminster.ac.uk and get an IDE like Notepad++, Atom, Brackets, Visual Studio Code, Programmer's Notepad or Emacs.
- Select the one you like the most.

For more info see https://support.ecs.westminster.ac.uk/w/index.php/Title:Text_Editors