# Database practicum database manager

### Manual for Student

# Pearls of Computer Science Pearls of Computer Science You have credentials for this course To use the database, connect to utwente.nl using these credentials: Username and DB name: dab\_Pearls\_of\_Computer\_Science\_20 Password: YDwDhw4LJAHxQNqD Example command for connecting: psql -h utwente.nl -U dab\_Pearls\_of\_Computer\_Science\_20 dab\_Pearls\_of\_Computer\_Science\_20 Delete database and release credentials Reset database Get dump of database

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### Introduction

This manual is meant for users of the Database Administration Bundle (DAB). This manual will cover all functions which can be used inside of DAB. This manual will handle the functions page for page. The first section will describe the general structure of the site. In the remaining sections the functions per page will be explained. At the end a FAQ is included. In order to use DAB to its full potential it's advisable to read this FAQ. This manual will provide screenshots of DAB used on a desktop. For a mobile phone, the site structure will look slightly different. Apart from some minor visual differences the functions will behave exactly the same.

### Welcome Screen

After a successful login a student will be presented with the following view:

Database Administration Bundle Student view Options \*

A student will have a "student view" and at the top right is a "options" button with some additional functions. On this page a student can create or reset a database when needed. Further information is provided in the *student view* section below.

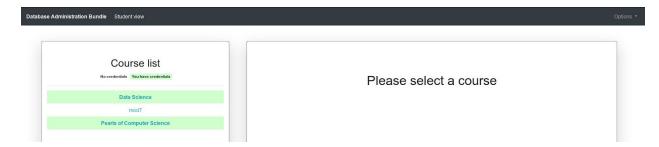
In case a student is a TA of a course the following screen is presented with an additional option, edit courses:

Database Administration Bundle Edit courses Student view Options ▼

The edit courses page can be used to manage courses. Tasks like setting a schema for a course or making a course active can be managed on this page. Further information can be found in the "edit courses" section.

### Student view

A student is presented with the following screen when clicking the student view button:



The view is split in two parts. On the left is an overview of all the courses a student can sign up for. On top of the list is an indication what different colors mean. When the course has no color the student does not have a database yet for this course. When the course is light green the student already has a database for this course. Any additional information about a database is presented in the right part of the screen.

When a user clicks a course without any color the following screen is presented.



A student first has to provide a valid group number in the course. This group number will be used by the teacher or TA to assist during the course.

After the user clicks "get credentials" DAB will generate a database with credentials for the user. The course will become light green in the left plane and an overview of the database will show up on the right. This overview will look similar to the following image:

	mod7	
	test	
	You have credentials for this course	
To us	e the database, connect to thebias.nl using these creden	ntials:
Username and DB name:	dab_mod7_0	
Password:	ABSzxhJRA47ljZMH	
Example command for connecting:	psql -h thebias.nl -U da	b_mod7_0 dab_mod7_0
elete database and release credentials	Reset database	Get dump of database

This overview will give the user a few options and essential information about the database itself. The username and name of the database are identical and are shown in the first row with the password of the database in the next row. A CLI command to connect to the database is provided in the next row. Make sure that psql is installed before using this command.

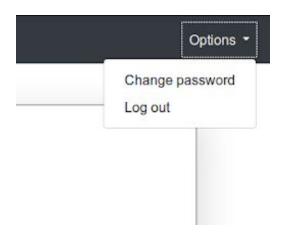
A user has 3 different options below the essential information. The buttons will perform the following functions:

- Delete database and release credentials: Clicking this button will delete the database including all its content. The database will no longer exist on the server. Use this option with caution. A user will be asked for confirmation before proceeding.
- **Reset database:** The teacher will have setup a default structure of the database when creating the course. A user can revert back to the beginning state by clicking this button. All additional changes made by the user of the database will be gone, though the database will still exist with the default structure and content.
- Get dump of database: This button will create a sql dump file. This file will contain the complete structure and all the data of the database. This function can be used to locally recreate the database. Information stored on the local version will in no way synchronize any data with the database running on the server. All changes made locally will stay locally.

## **Options**

### Change password

In order the logout or change your password the option button in the top right corner can be used, as is seen in the following image:



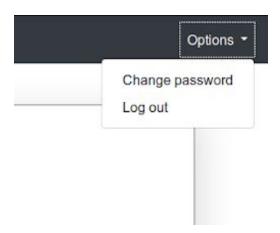
Depending on the type of user more options may be available here. Clicking the change password button will bring up a new screen similar to the following screen:



Simply follow the instructions on the screen and click "change password". A new password will be set for this user.

### Log out

In order to log out the "log out" button can be used in the options drop down menu in the upper right corner, as is seen in the following image:



### FAQ

### What is DAB?

DAB is a database manager. Students can create a database for a course which is created by the teacher. The student can study the provided material in the course and can use the database as described by the teacher. By the use of the database the student will gain a deeper understanding of a database and how to use them.

Can any email address be used?

No, only an email provided by the university can be used in conjunction with DAB

Can I use the database for a production environment?

No, the database is only meant to be used inside of a course given at the University. A student is allowed to use a database for a personal project, however this is not advised. An administrator or teacher is able to delete any stored data at any given moment in time.

Who can use DAB?

DAB is meant for students and university personnel at the University of Twente.

I am no longer able to access my database and the database is no longer visible inside of DAB, what can I do?

Due to the lifecycle of a course a teacher can decide to delete the course including all the databases. Depending on the teacher the database may still be inside of a backup. If this is the case the teacher has the ability to put back the database (including all its content). Please, ask your teacher of the course in question for more information.

The database was not accessible during the night, but during the day it seems to work again. How is this possible?

The server containing the database may be doing some administrative tasks during the night. Therefore it is advisable to **not depend on the database during the night.** Therefore, students should not make last minute alteration during the night.

I am a student, how can I sign up?

A student can access the site directly. On the site a "register here" button is provided to create a new account. The site will guide you through the process. **Only an email address provided by the university is allowed.** 

I am a teacher at the University of Twente and would like to use DAB for my students, but don't have an account. how can I sign up?

There are 2 ways to obtain a teacher account within the DAB application. The first is to contact an administrator of DAB directly asking for an account (a valid University of Twente mail account is required). The second option is to create a student account on the URL where DAB is hosted and request teacher privileges from one of the DAB administrators (either by mail or in person). Beside database management does DAB provide management over other pieces of software?

At this moment in time DAB only supports database management. Other pieces of software may be added in the future.

What type(s) of relational database management systems (RDMS) does DAB support?

Right now only **PostgreSQL** is supported. Other types may be added in the future.

What devices does DAB support?

DAB is a web application that can be used on both desktops and mobile phones. The website will automatically detect the type of device and scale to the screen size.