Research School of Computer Science, The Australian National University COMP7240 - Introduction to Database Concepts Summer, 2017

Lab 1, Pre-intensive Week 1 Set Up Your Lab Environment

This lab will help you set up your lab environment on your own computer. It also provides exercises to get you started with working in your lab environment, which is important to prepare you for working on exercises in the later labs.

1 Log In

(1). Log into your account on the partch server from your own computer.

In this course, we will use the open source relational DBMS PostgreSQL. We have installed a PostgreSQL database management system on a server called partch, which is maintained by IT support at the ANU College of Engineering & Computer Science (CECS). In order to practice the lab exercises of this course, you need to access the server partch from your own computer. To do this, you need to set up the remote interaction in your computer following the 'Lab 1' video tutorials. The videos can be found through the links below.

- If you use a Mac/Linux computer, you may set up remote interaction following the video tutorial: https://youtu.be/VnH26T8aQ2M
- If you use a Windows computer, you may set up remote interaction following the video tutorial: https://youtu.be/dwSUMVdY67M
- If you use a Windows 10 computer and prefer to install the Bash Linus subsystem, you may refer to the video tutorial: https://youtu.be/ZPDOKT7qvCA

Summary for the impatient: Create a directory for this lab under your personal directory (i.e. week01). Download history.txt from the course's Wattle site (in the folder Lab 1: Set Up Your Lab Environment) into your computer, and then copy it to the directory week01 under your personal directory on partch.

Note: In this course, you will need some simple Linux commands to manage your directories and files on partch. Therefore, if you're not familiar with Linux, you need to go through the following exercises.

2 Manage Directories and Files

(2). Use the pwd command to print the current working directory on the screen.

Printing the current working directory: Enter the command pwd in a terminal window. The pwd is used to print the current working directory on the screen. When you first log in, the current directory is your *personal directory*.

(3). Use the mkdir command to create a new directory.

Making new directories: The mkdir command is is used to create a new directory under the current working directory. You can create a new directory named week01 by typing mkdir week01.

(4). Use the 1s command to list directories and files.

Directory listing: Enter the command 1s in a terminal window. The 1s command is used to list the files and sub-directories in the current directory. When you first log in, the current directory is your *personal directory*. You should see the week01 directory you just created.

(5). Use the cd command to change the directory

Changing the directory: You can move around using Unix command cd. Try each of the following commands:

- Enter the command cd week01 to change into your week01 directory.
- Type pwd to check what the current directory is.
- Enter the command cd ~
- Use the pwd command to find out where you have gone. Note that the command cd ~ will always change the current directory to your *personal directory* as you first log in.

Your working directory is always the one containing the files you are working on at that time.

3 Copy Files to partch

(6). Download history.txt from the course's Wattle site (in the folder Lab 1: Set Up Your Lab Environment) into your computer, and then copy it to the subdirectory week01 under your personal directory on partch.

If you have any questions, make sure that you have watched the video tutorials on the Wattle course site (in the folder Lab 1: Set Up Your Lab Environment). If you have further questions, you may post your questions on the Class Discussion Forum or talk to our tutors via the Chat Room on Wattle.

(7). Use the rm command to delete a directory or a file.

Delete directories or files: The rm command is is used to delete a directory or a file. Try each of the following commands:

- Enter the command mkdir test to make a new directory test.
- Enter the command 1s to check if you can find the folder test.
- Type rm -r test to delete the directory test. Note that rm -r test command will remove the folder test and all its contents.
- Type rm ~/week01/history.txt to delete the file history.txt