CMPSC 312 Database Systems Spring 2019

Lab 1 Assignment:

Researching and Reporting on Database Tools
Submit deliverables through your assignment GitHib repository.

Place report document writing/ directory

Part 1: GitHub Repository Set Up

Objectives

To learn how to navigate the directories within Ubuntu operating system using command line interface. To establish and configure GitHub repositories that will be used in this course throughout the semester; learn basic commands for downloading course materials from the instructor and for submitting material to the instructor using git.

Part 1: GitHub Repositories

Create your Account on GitHub

It is assumed that you already have an account on GitHub but if you do not, then please visit <code>github.com/</code> to create your account using your Allegheny email address. Follow the account generation links and be sure to add a current photo of yourself when completing your profile.

Add Your SSH Keys?

SSH keys allow you to interact with GitHub using secure means. You may need to add your ssh keys to your GitHib account. Please visit https://www.ssh.com/ssh/keygen/ to learn how to set-up your security keys. Let the instructor know if you have any questions with this task.

Clone Your Assignment Repository

In many cases, you will be given a new repository containing assignment materials and you will save your files in this assignment repository as you continue to work on them. Copy and paste the assignment repository cloning command into your terminal to create your assignment repositories. Be sure to place your assignment repositories in a directory such as cs312/ to keep your class materials organized by class.

Today's assignment repository can be found at the below link. Here you will work on your assignment and then push your work to the cloud where the instructor will be able to view your work for grading. Often, there will be files in your assignment repositories which you are to edit before you submit them by using be below commands for git.

Handed out: 25^{rd} January 2019

Due: 1^{st} February, by 2:30pm

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https://classroom.github.com/a/NFU5Sg5t

To use this link, please follow the steps below.

- Click on the link and accept the assignment
- Once the importing task has completed, click on the created assignment link which will take you to your newly created GitHub repository for this lab,
- Clone this repository (bearing your name) and work locally
- As you are working on your lab, you are to commit and push regularly. The commands are the following.

```
- git add -A
- git commit <nameOfFile> -m ''Your notes about commit here''
- git push
```

Part 2: Database Tool Research

You are to prepare a comprehensive listing of ten free and open-source tools that provide data management facilities. It is up to you to discern between these tools in order to build your list. The software, methods or web-based tools may cover any area as long as there is an obvious connection to our databases class.

- Your report should give the name of the tool, the Web site(s) and/or an article that introduces it. In addition, you are to provide a brief, but detailed, description of the features that the tool provides. Why is this tool important to databases? What does it do? Who uses it?
- Please use the Markdown file to prepare your report. For this, you will have to edit the file; writing/report.md. Be sure to add your name and the date to your work.

Required Deliverables

1. Please locate the Markdown file, writing/report.md in your cloned assignment directory. Edit this file using Markdown code to reflect your work. If you need help on this formatting, visit the below link for help.

```
https://github.com/adam-p/markdown-here/wiki/Markdown-Cheatsheet
```

2. Do not forget to use the above git commands to push your work to the cloud for the instructor to grade your assignment. Please see the instructor if you have any questions about assignment submission.

Handed out: 25^{rd} January 2019