PREDICT 420

Atef Bader, PhD

Agenda

- SSCC setup for dornick & postgres
- Assignment #1 Walkthrough & Deliverable
- Exercise #3 Walkthrough & Deliverable

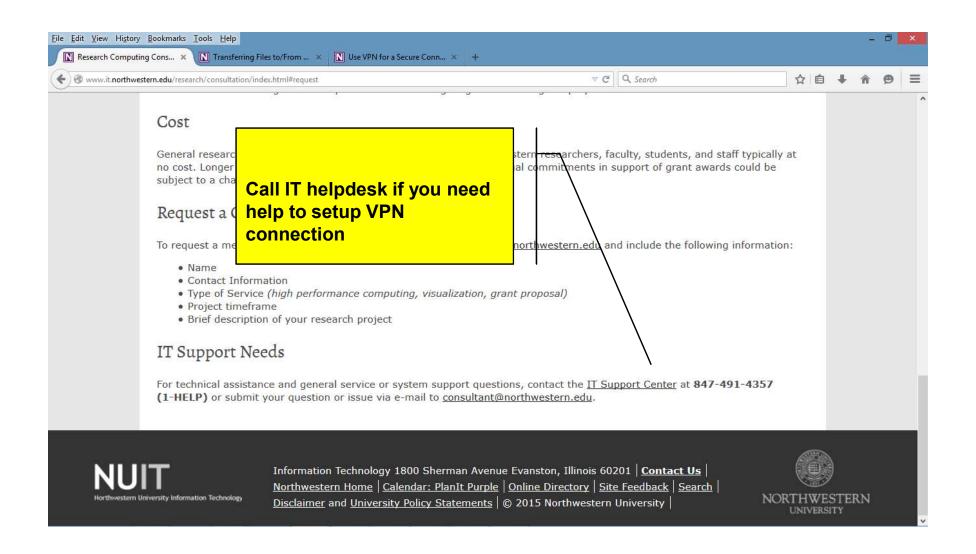
VPN & SSCC Setup

Be Patient ...

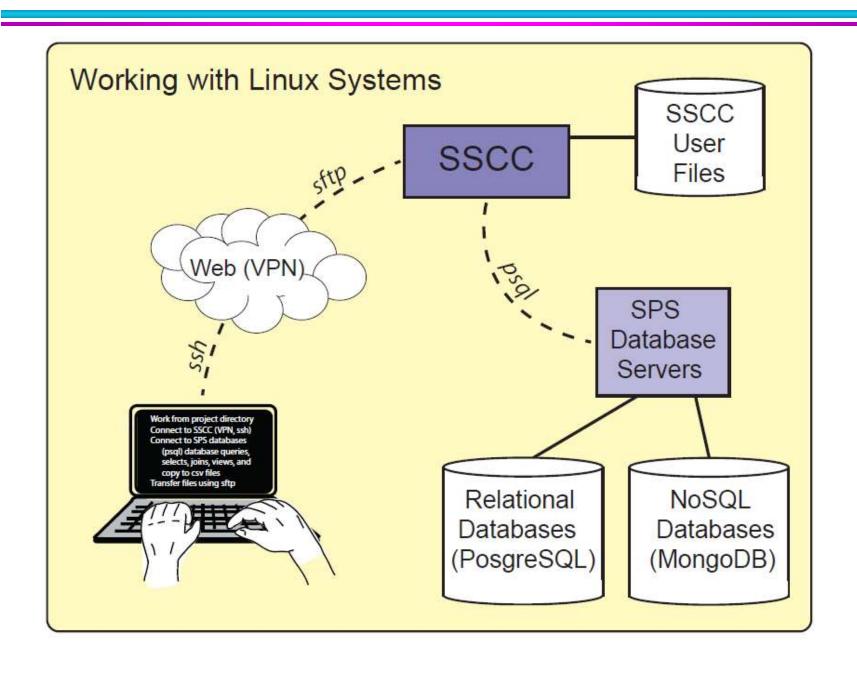


 It will take you sometime (more or less 2 hours) to complete the setup for VPN to dornick and postgres

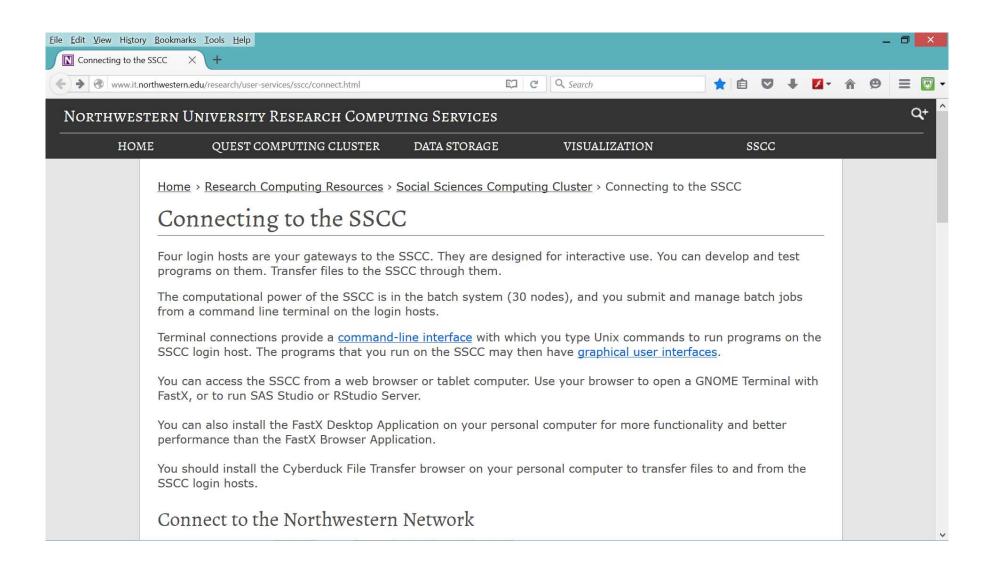
CALL HELPDESK if you need help with VPN



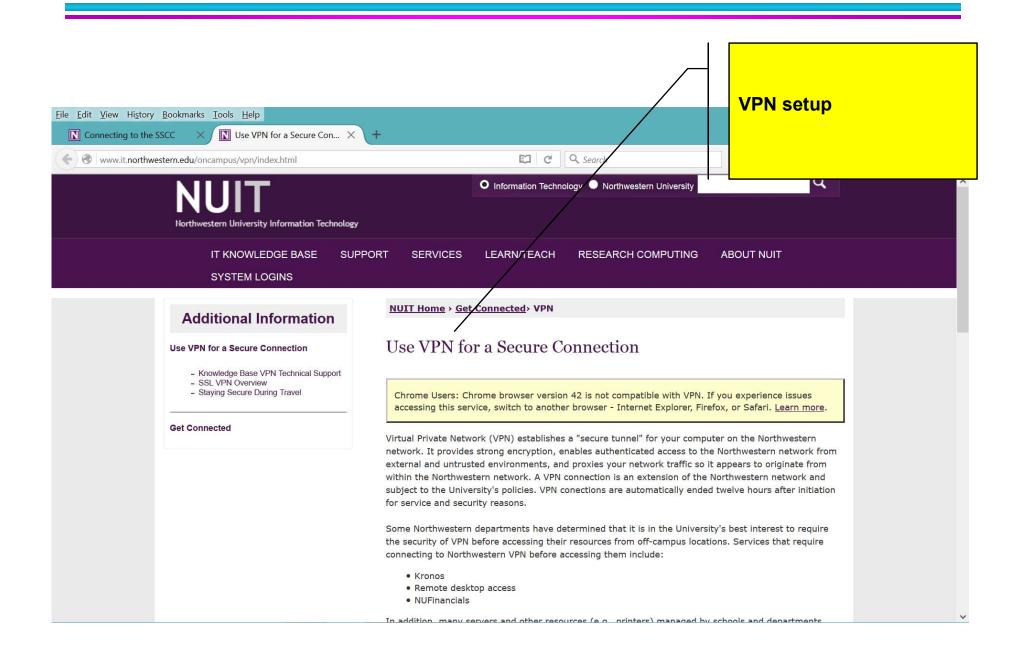
Your Connection Path



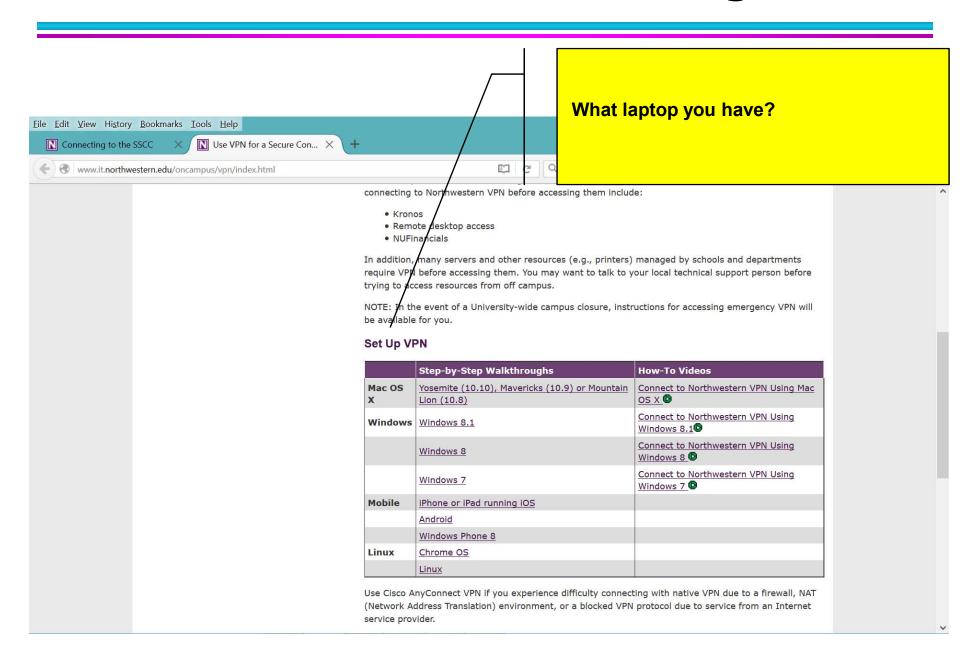
Bookmark this URL – What is SSCC



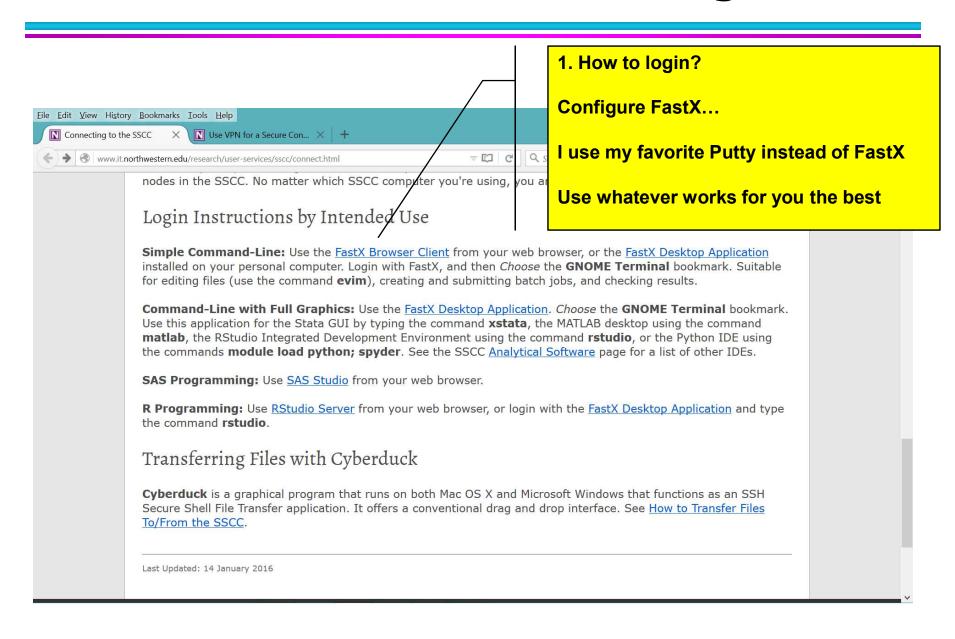
Bookmark this URL – Creating VPN



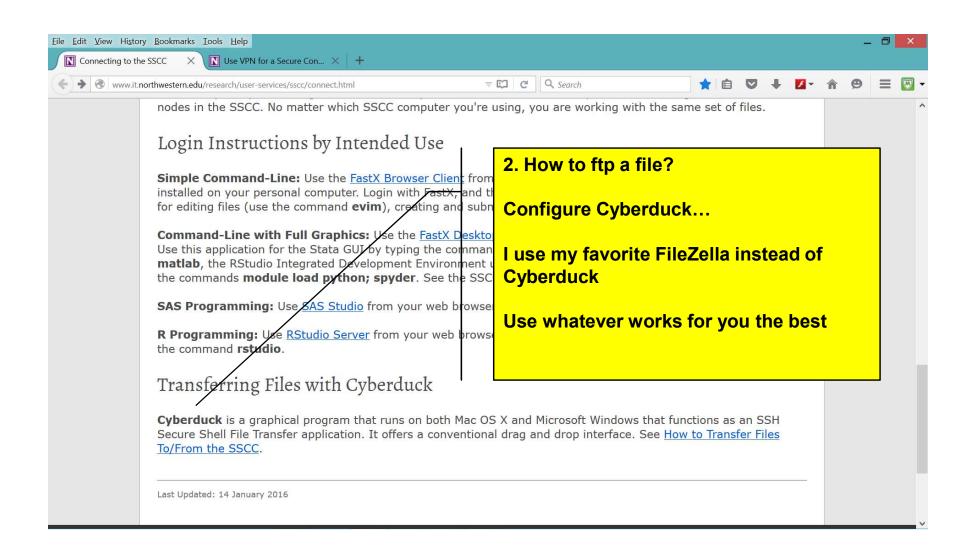
Bookmark this URL – Connecting to SSCC

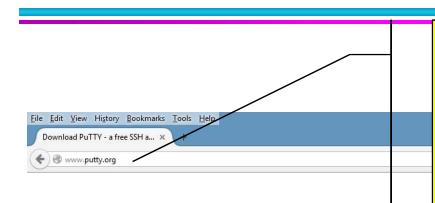


Bookmark this URL – Connecting to SSCC



Bookmark this URL – Connecting to SSCC





Luse PuTTY to connect to SSCC – dornick server

I prefer it over X-Win-32

You need to download it in case you prefer to use it



Download PuTTY

PuTTY is an SSH and telnet client, developed originally by Simon Tatham for the Windows platform. PuTTY is open source software that is available with source code and is developed and supported by a group of volunteers.

You can download PuTTY here.



Bitvise SSH Client

Bitvise SSH Client is an SSH and SFTP client for Windows. It is developed and supported professionally by Bitvise. The SSH Client is robust, easy to install, easy to use, and supports all features supported by PuTTY, as well as the following:

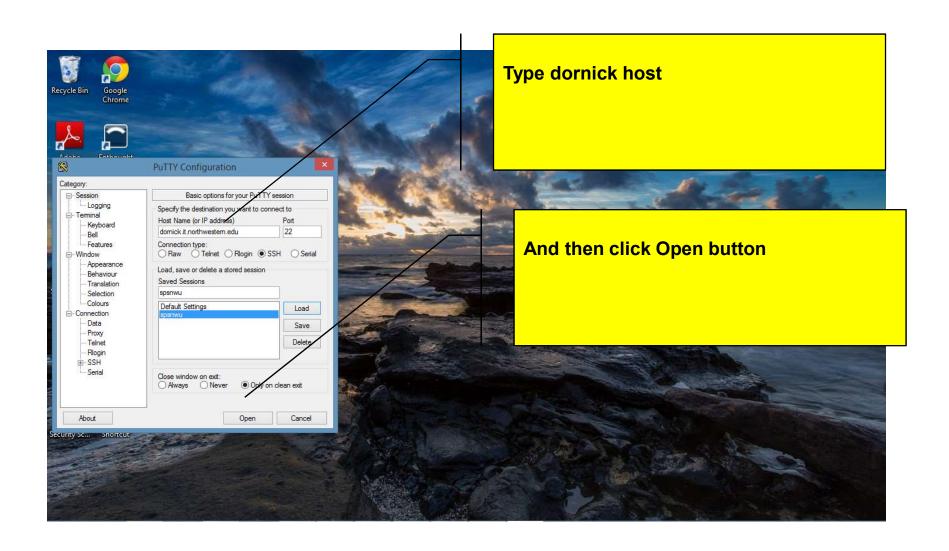
- · graphical SFTP file transfer;
- single-click Remote Desktop tunneling;
- · auto-reconnecting capability;
- · dynamic port forwarding through an integrated proxy;
- an FTP-to-SFTP protocol bridge.

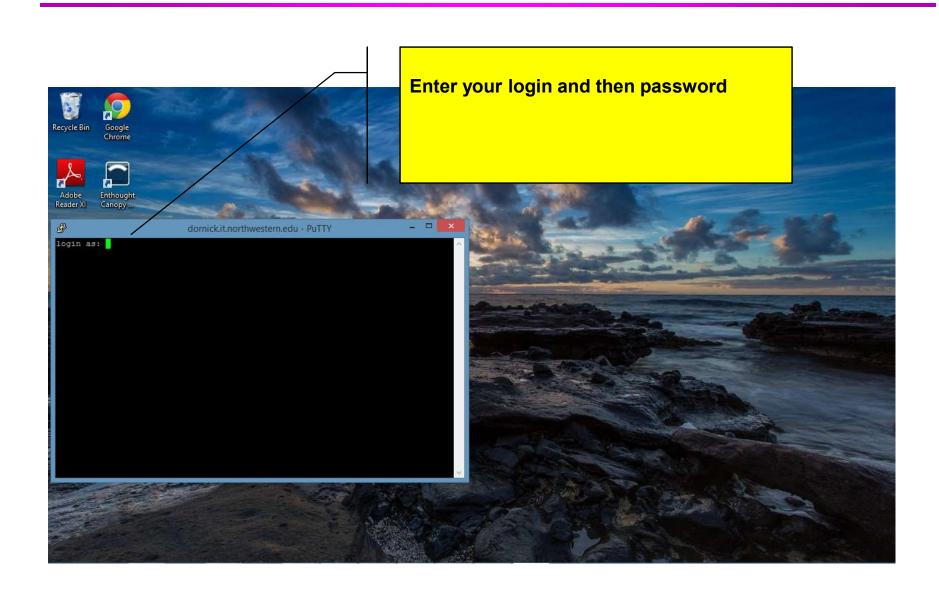
Bitvise SSH Client is **free for personal use**, as well as for individual commercial use inside organizations. You can <u>download</u> Bitvise SSH Client here.

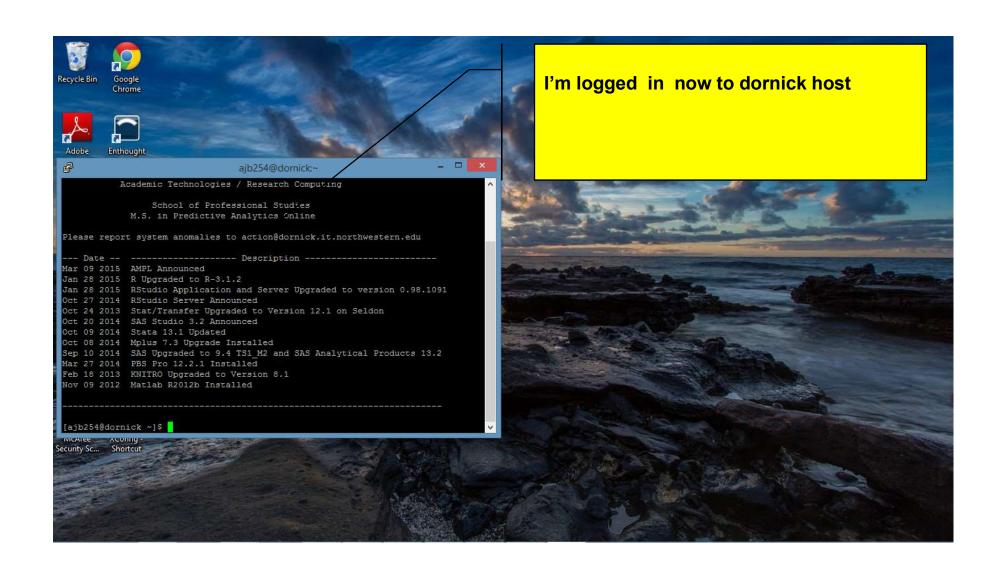


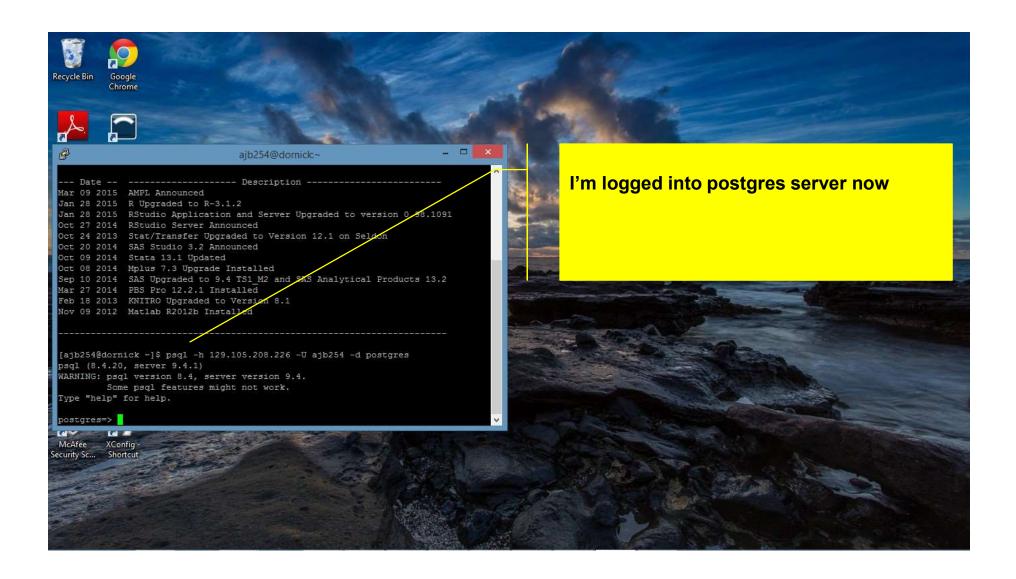
Bitvise SSH Server

Bitvise SSH Server is an SSH, SFTP and SCP server for Windows. It is robust, easy to install, easy to use, and works well with a variety of SSH clients, including Bitvise SSH Client, OpenSSH, and PuTTY. The SSH Server is developed and supported professionally by Bitvise.

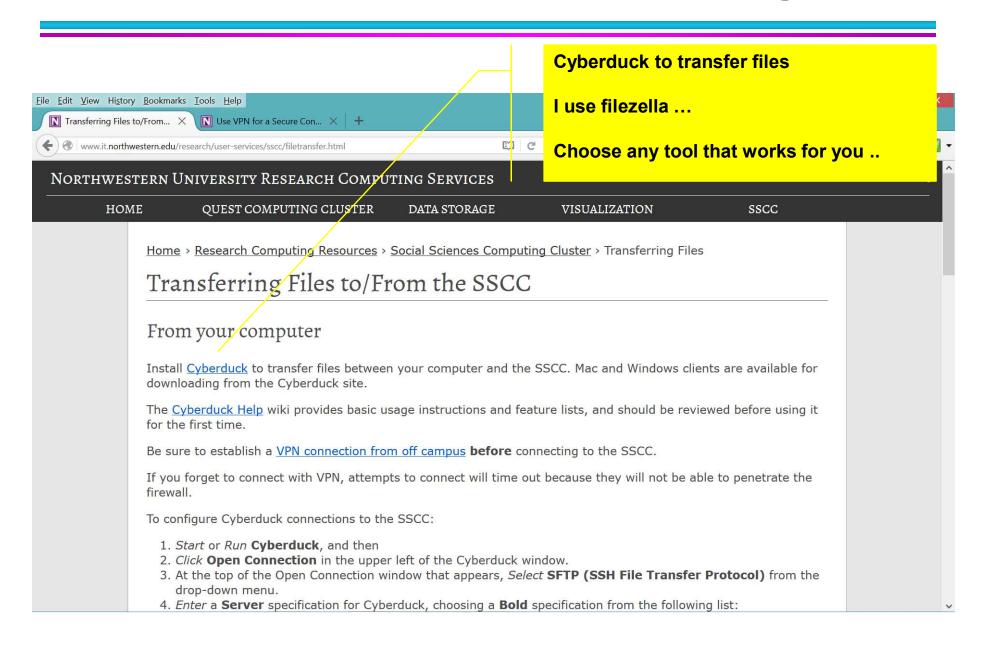




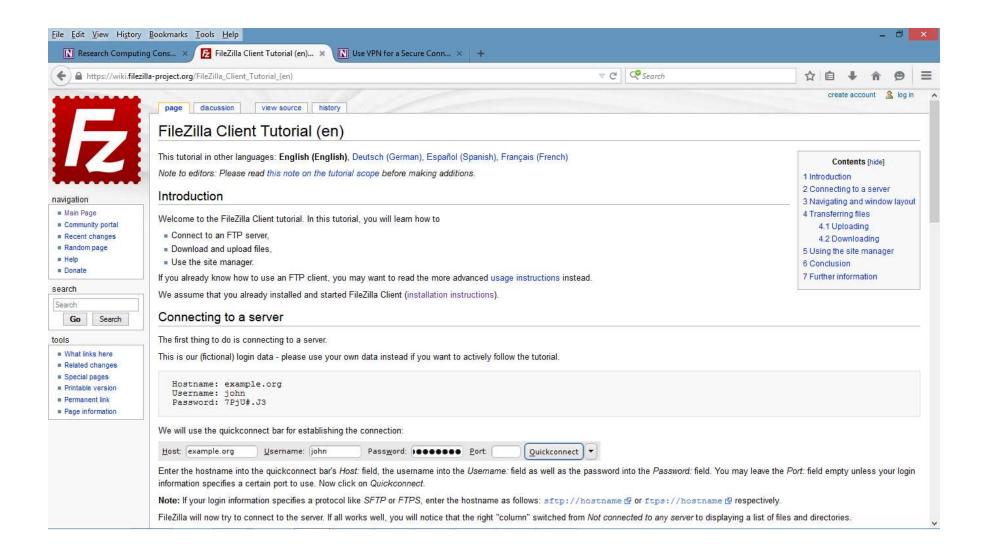




Bookmark this URL – Transferring Files

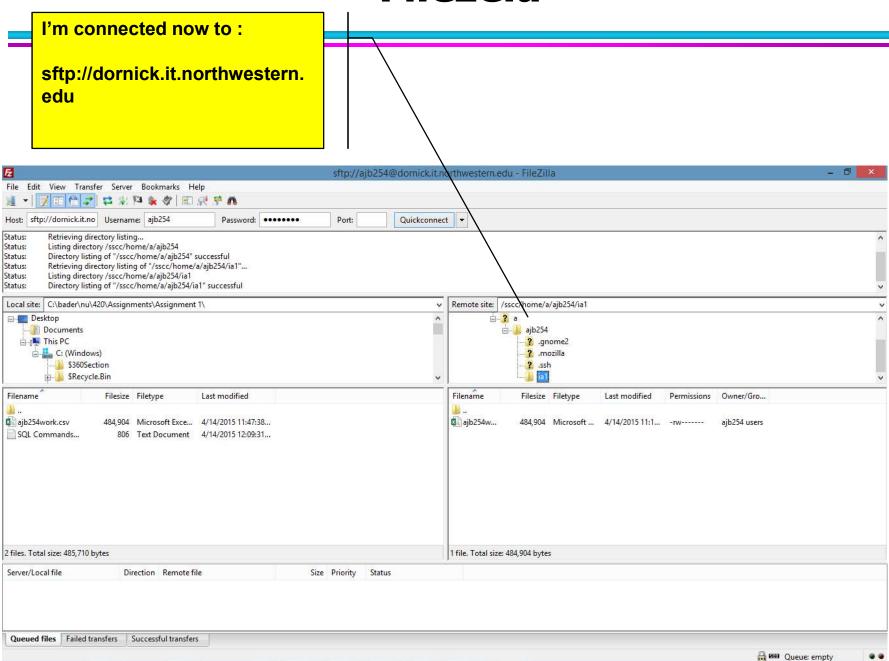


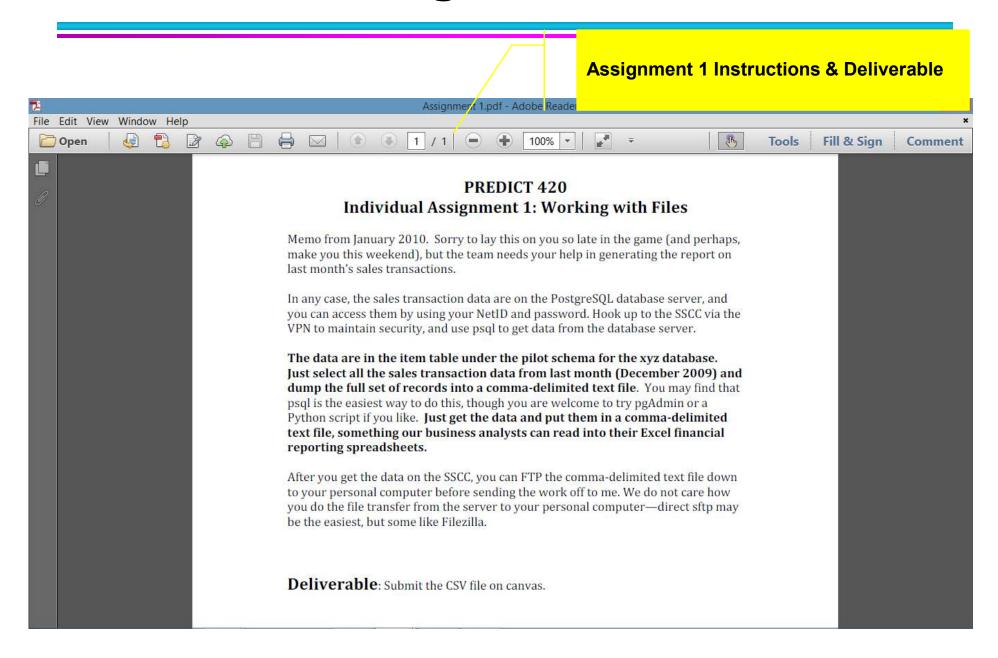
Bookmark this URL - Filezela



Filezela sftp://dornick.it.northwestern.edu Enter sftp protocol, host, login, and password FileZilla File Edit View Transfer Server Bookmarks Help M - FIFT CARREN Host: sfttp://dornick.it.nc Username: ajb254 Password: Port: Quickconnect -Local site: C:\bader\nu\420\Assignments\Assignment 1\ □ ■ Desktop Documents ☐ ● This PC C: (Windows) Filename Filesize Filetype Last modified Filename Filesize Filetype Last modified Permissions Owner/Gro... ajb254work.csv 484,904 Microsoft Exce... 4/14/2015 11:47:38... Not connected to any server 806 Text Document 4/14/2015 12:09:31... SQL Commands... 2 files. Total size: 485,710 bytes Not connected. Server/Local file Direction Remote file Size Priority Status Queued files Failed transfers Successful transfers Queue: empty

Filezela





This file has the set of steps that you could use to type these commands SQL Commands - Notepa Step-by-step File Edit Format View Help After you login into dornick using PuTTY or xterm Execute the following IN ORDER listed psql -h 129.105.208.226 -U ajb254 -d postgres Step 2: \1 Step 3: \c xyz SELECT COUNT(acctno) FROM pilot.item; \d pilot.item Step 6: SELECT * FROM pilot.item limit 5; Step 7: CREATE TEMP VIEW ajb254work as SELECT * FROM pilot.item WHERE extract(month FROM trandate) = 1; SELECT count(acctno) FROM ajb254work; Step 9: SELECT * FROM ajb254work limit 5; \copy (SELECT * FROM ajb254work) TO 'ajb254work.csv' WITH DELIMITER ',' NULL AS '\null' CSV HEADER Ln 1, Col 1



Set of files describe the XYZ database

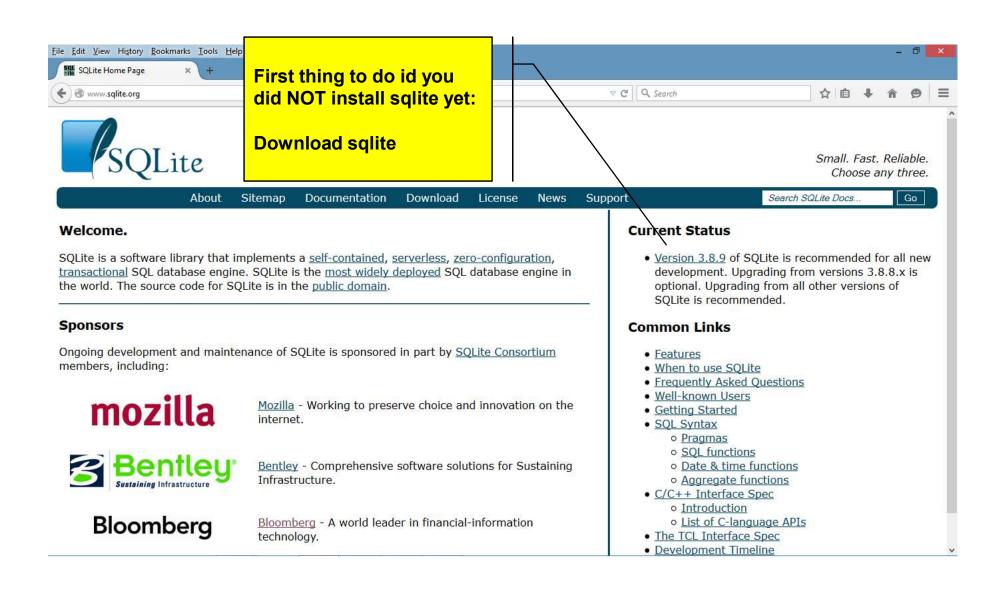
- XYZ_Data Dictionaries
- XYZ_Data Dictionaries_Customer_Table
- XYZ_Data Dictionaries_Item_Table
- XYZ_Data Dictionaries_Mail_Table

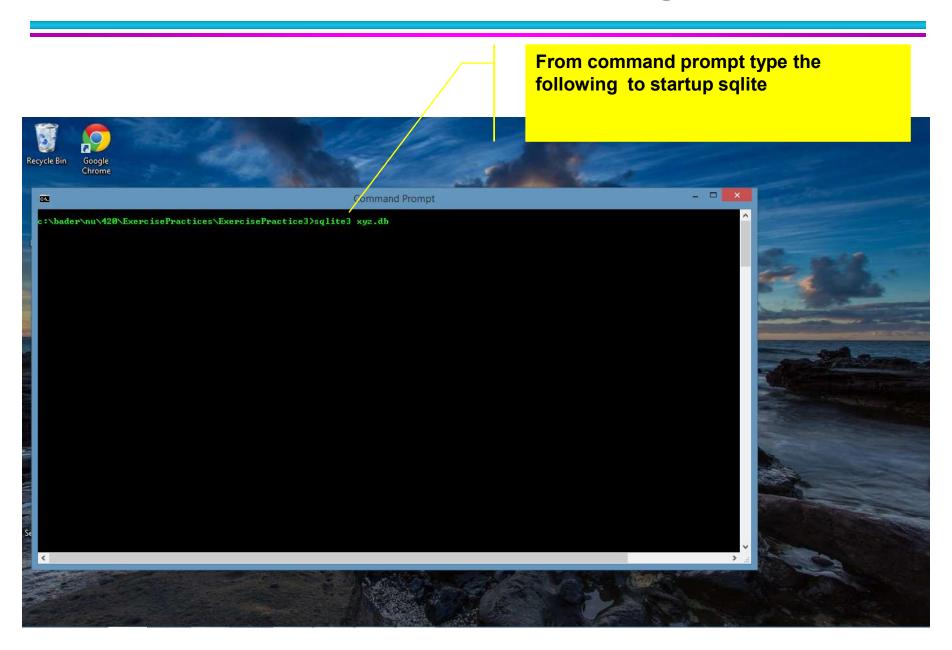
Assignment #1 - Deliverable

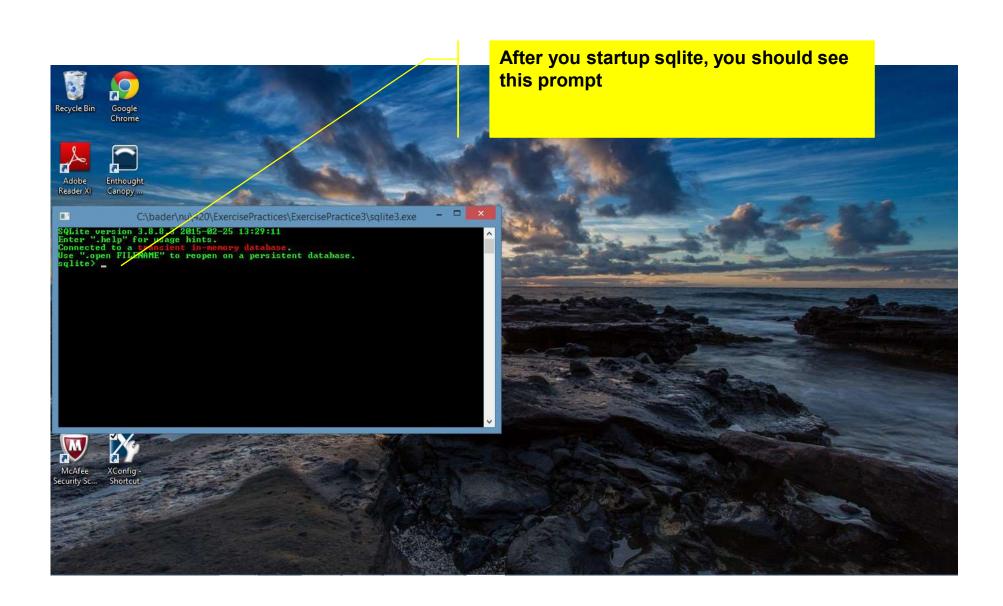
- After you execute all SQL commands and ftp the file from dornick server
- Submit the CSV file on canvas.

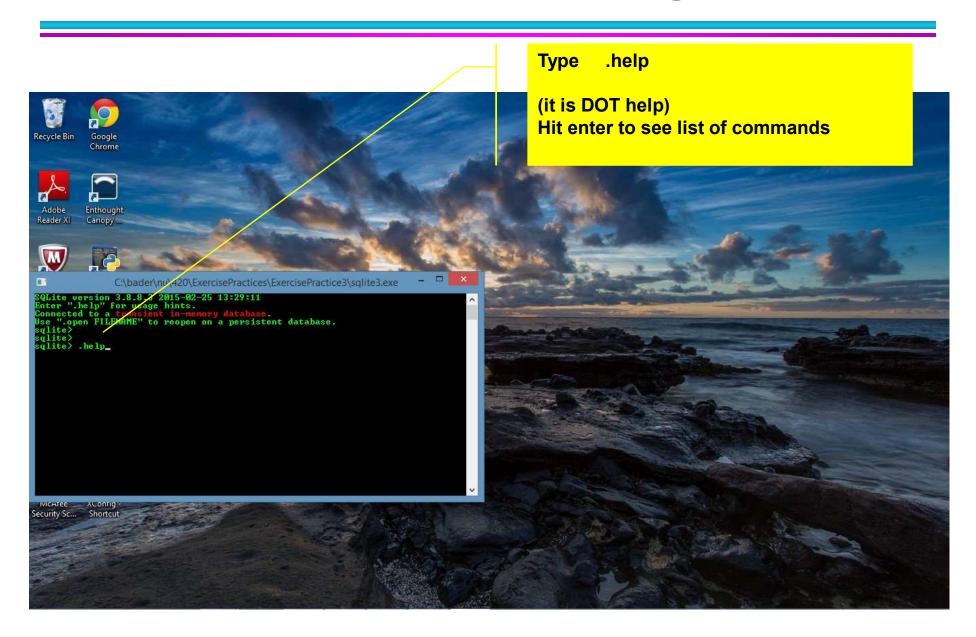
Exercises #3

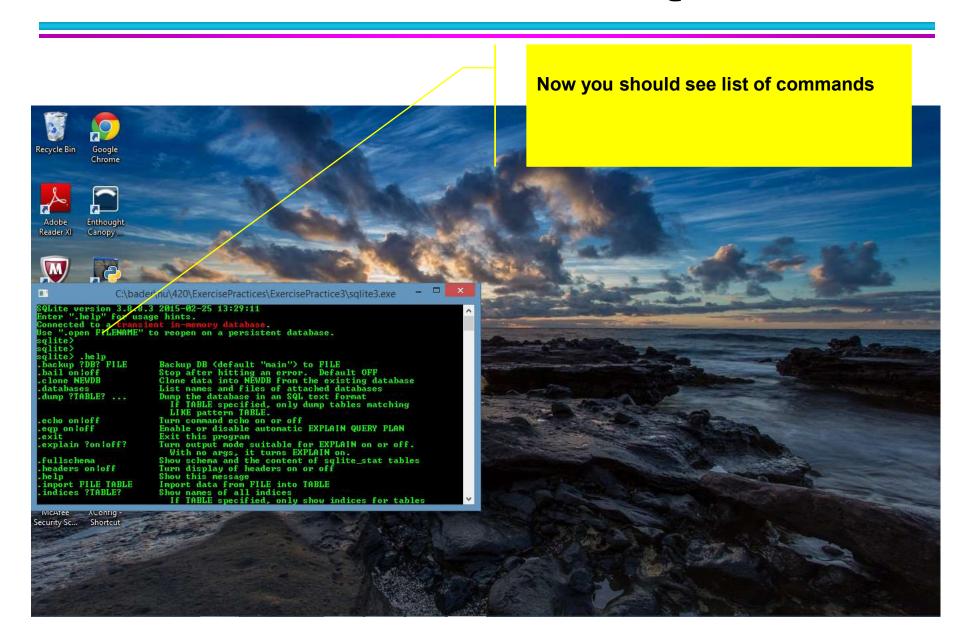
Exercise #3 – Download SQLite

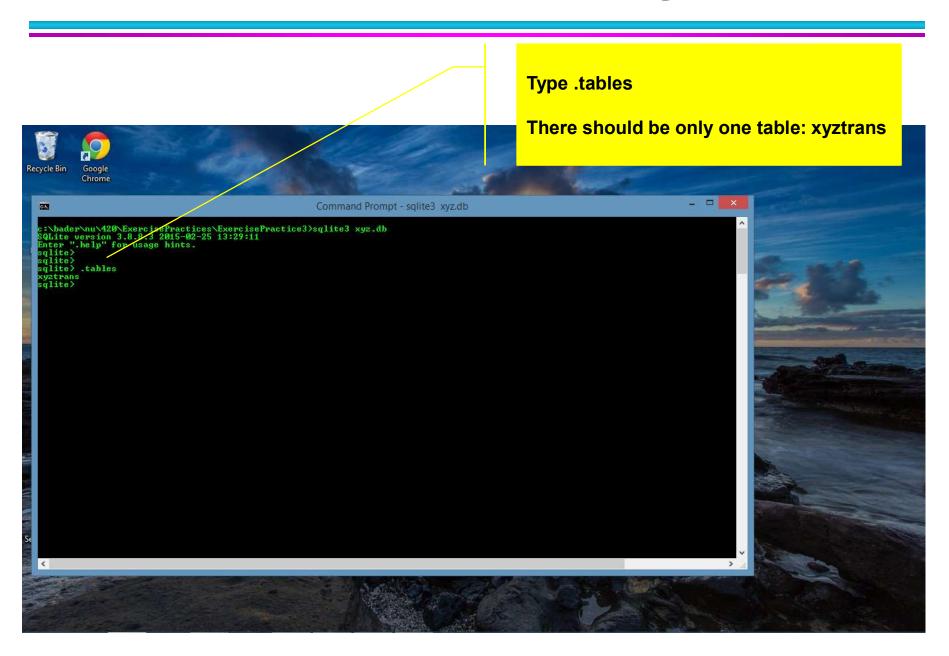




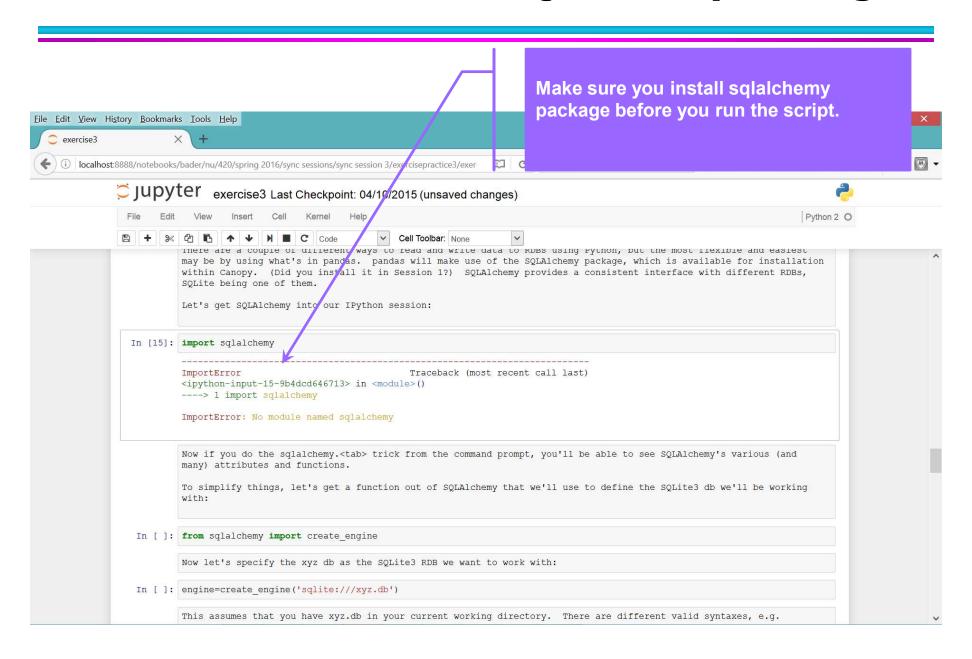




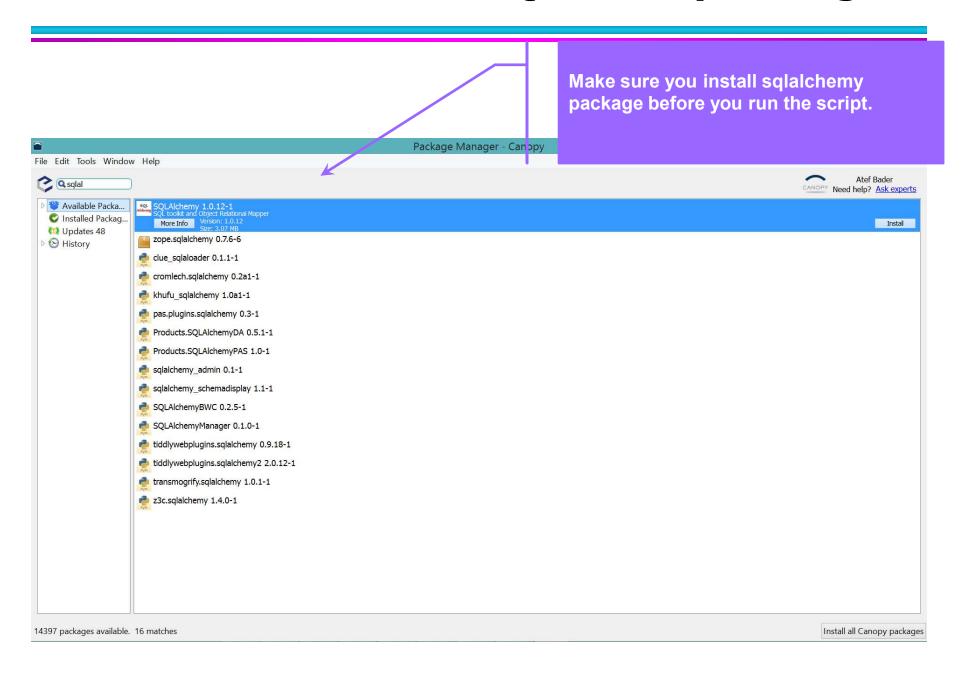


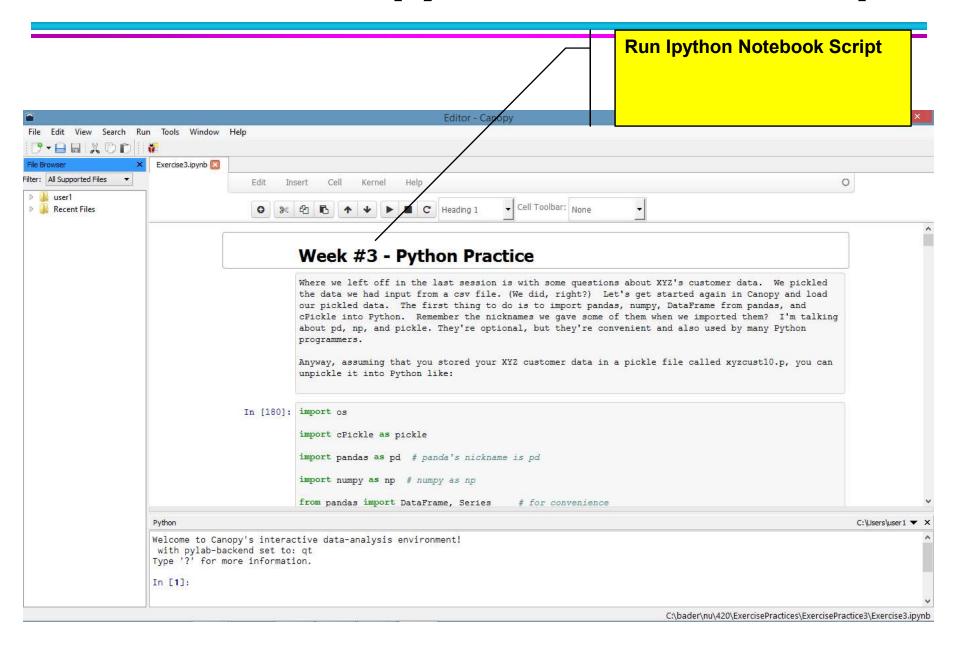


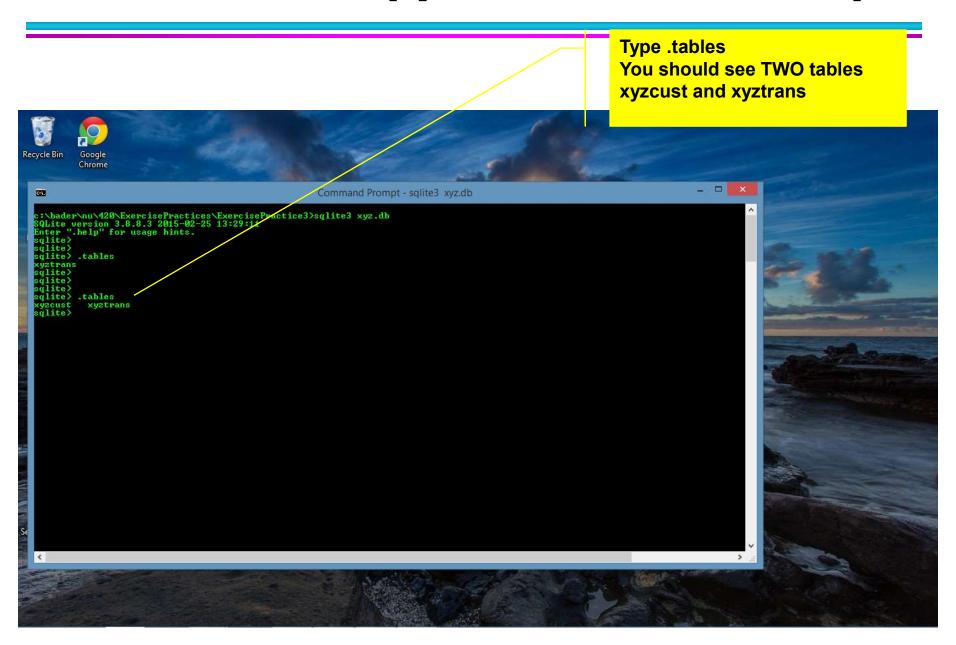
Exercise #3 – Cinstall SQLalchemy Package

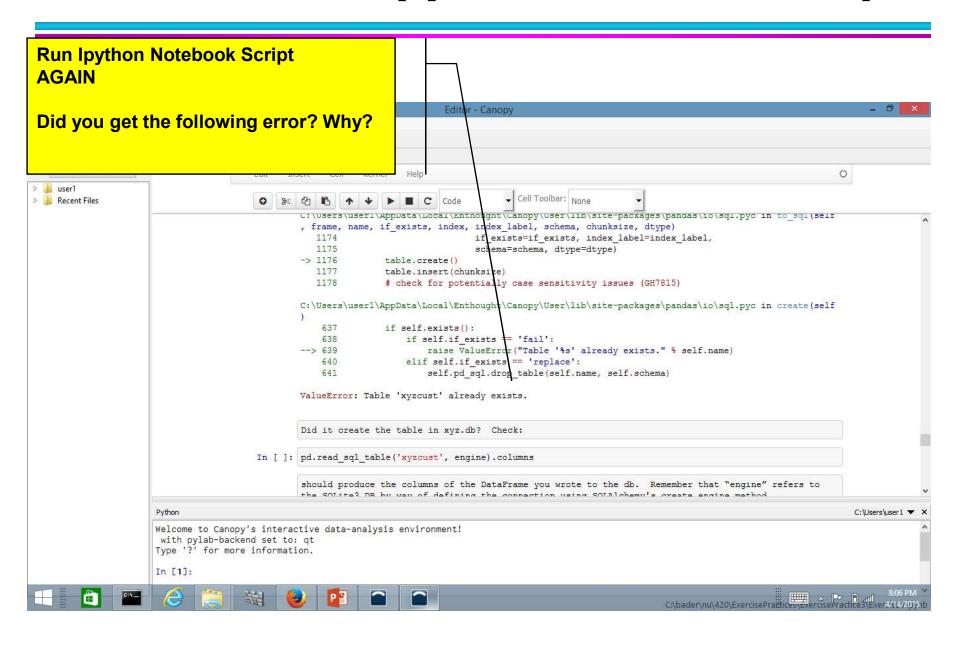


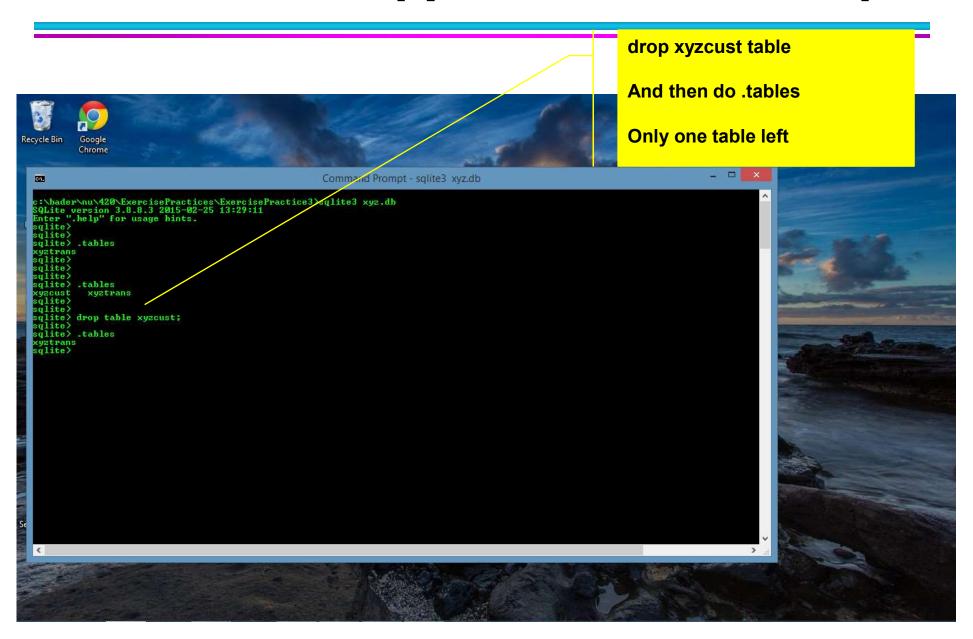
Exercise #3 – Install SQLalchemy Package

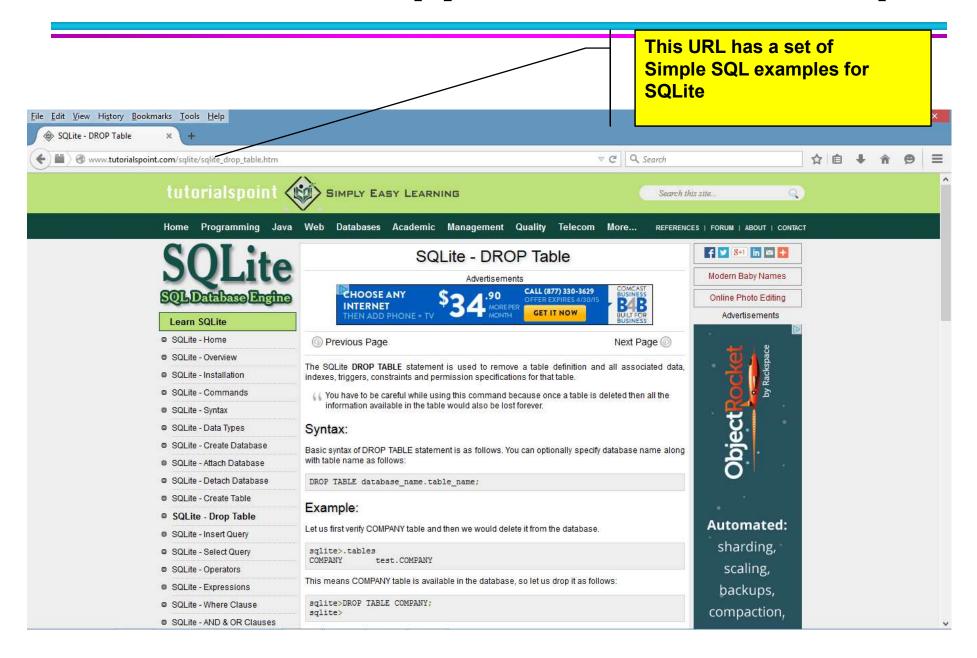


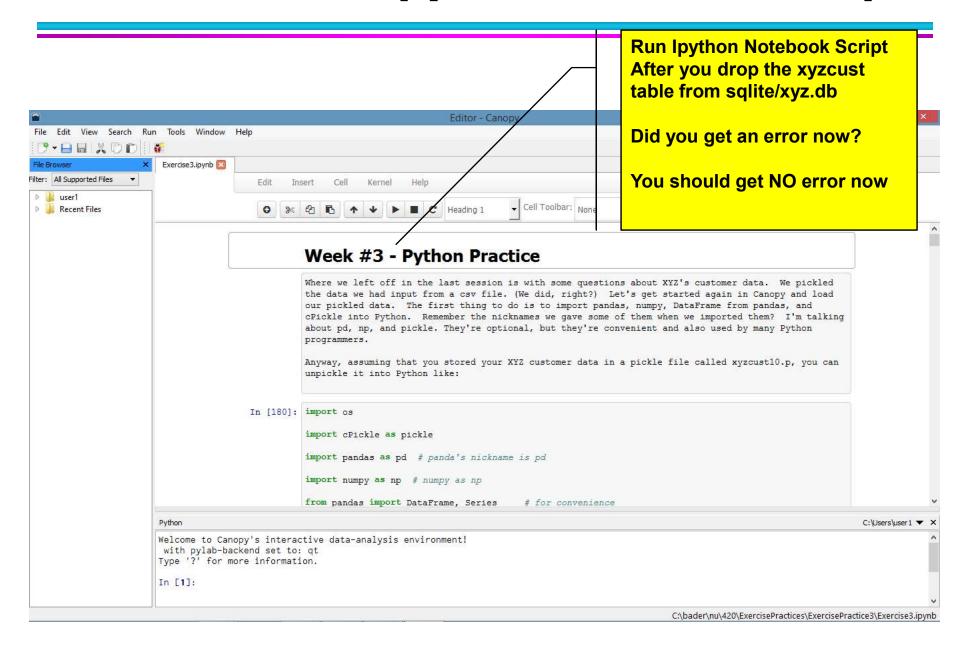












Exercises #3 - Deliverable

- A single PDF document that has the following 6 screen-shots
 - sqlite3 command-window shows only one table before you run the Ipython Notebook script
 - 2. First Run for the Ipython Notebook script with no error
 - 3. sqlite3 command-windows shows two tables after you run the Ipython Notebook script
 - 4. Second Run for the Ipython Notebook script that shows error
 - 5. sqlite3 command-window shows drop table for xyzcust
 - 6. Third Run for the Ipython Notebook script that shows NO error