1 Fourier and Oracle

In CS425, you will be using the database Oracle for your homework assignments. Account s have been created for you on the school's server, fourier.cs.iit.edu. Login information will be posted for you on blackboard or course website, so please refer to that announcement for this semester's default password and logins. This document will guide you through the process of logging onto fourier.cs.iit.edu and Oracle, changing your password for both, and how to transfer files between your machine and fourier.cs.iit.edu.

1.1 Logging into fourier.cs.iit.edu and changing your Unix password

Required software: You must have an SSH client installed on your machine. This tutorial uses the free software, Putty.

Launch putty, and enter fourier.cs.iit.edu as the host name (see image below).

🔀 PuTTY Configuration		×
Category: Session Logging Terminal Keyboard Bell Features Window Appearance Behaviour Translation Selection Colours Connection Data	Basic options for your PuTTY session Specify the destination you want to connect to Host Name (or IP address) fourier.cs.iit.edu [connection type: C Raw Telnet Raw Telnet Saved Sessions Default Settings Load Save	
Data Proxy Telnet Rlogin SSH Serial	Close window on exit: C Always O Never O Only on clean exit	

After you click on "open," a terminal will open up. When prompted, you should enter your login and the default password. After that, the very first thing you should do is to change your password.

To change your Unix password, use the command 'passwd' and follow the prompts. For example:

[username@fourier ~]\$ passwd Changing password for user yourusername. Changing password yourusername. (current) Unix password: (what you type is not shown) New password: (what you type is not shown) Retype new password: (what you type is not shown)

1.2 Logging into Oracle and changing your Oracle password

Required software: Oracle is already installed on fourier.cs.iit.edu, so you are not required to install any software for this step.

To launch Oracle, type 'sqlplus' into the command prompt. When prompted, type in the provided default *username* and *password*.

[username@fourier ~]\$ sqlplus SQL*Plus: Release 11.2.0.1.0 Production on Thu Aug 29 17:25:38 2013 Copyright (c) 1982, 2009, Oracle. All rights reserved. Enter user-name: username Enter password: (what you type is not shown) Connected to: Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Production With the Partitioning, OLAP, Data Mining and Real Application Testing options SQL> (this is SQLPlus prompt)

Again, the very first thing you want to do is to change your password using the password command. For 'password' command, after you press Enter, you will be prompted to input the old password and new password interactively. You will see something like this:

SQL> password Changing password for yourusername Old password: ********* New password: ********* Retype new password: *********

1.3 Verifying that your Oracle account is set up properly

Required software: Oracle is already installed on fourier.cs.iit.edu, so you are not required to install any software for this step.

Now we will verify that all of the permissions in your account have been set up properly. You should issue the following set of commands to the oracle command prompt:

```
SQL> Create table test(a int, b char(10), primary key(a));
SQL> Insert into test values(1, 'foo');
SQL> Select * from test;
SQL> Drop table test;
```

It is okay if you do not understand what these commands do right now - they will be covered in the course. The output should look like this:

1.4 Transferring files to and from fourier.cs.iit.edu

Required software: An sftp client. This example uses the free software Core FTP Lite.



To transfer files back and forth between fourier.cs.iit.edu and your machine, you should use an sftp client. Launch the sftp client, enter fourier.cs.iit.edu in the host field, and your login and password into the appropriate fields. (See the image below)

Site Manager	×
Site Manager Image: Image: New_Site Image:	Site Name New_Site Host / IP / URL fourier.cs.iit.edu Username yourname yourname Password ******** Don't save password Port Timeout Retries 22 60 2 Eetry On ✓ BASV Use Proxy Connection SSL Options ✓ SSL Listings SSL Transfer ✓ SSL Listings SSL Transfer
New Site New Category	SSL Listings SSL Transfer Clear (CCC) OpenSSL Windows SSL Connect Connect Manager

Once you have connected, you can use the software to transfer files back and forth between the two machines. (You should see the documentation of the particular software you are using for further details).

If you are unable to get any part of this tutorial working, you should see the TA or the instructor as soon as possible for help. Good luck!

1.5 Connecting to Oracle using SQL Developer

Required Software: Oracle SQL Developer

To connect to Oracle using SQL Developer, launch *SQL Developer* and create a new connection. To create a new connection click new connection button ('+' sign button) in the 'Connection' panel, on the left. Type in the corresponding fields and press *Connect* (See image bellow):

- Connection name: give a name to the connection e.g. fourier
- Username and password: use your corresponding user and password
- Connection type: Basic with port 1521
- Role:default
- Hostname: fourier.cs.iit.edu
- SID: orcl

🕄 New / Select Data	base Connection		×
Connection Name	Connection Details	Connection Name	
		<u>U</u> sername	
		Password	
		Save Password	
		Oracle Acce	255
		Connection Type	Basic 🔻 Role default 💌
		Hostn <u>a</u> me	fourier.cs.iit.edu
	Port	1521	
		O SID	ord
	Service name		
Status :		OS Authentic	ation C Kerberos Authentication Proxy Connection
		Cours -	
Help		Save	Qear lest Connect Cancel

Once you have connected, you will see the connection on the left panel with the name you provided. You can use the software to explore your database, run scripts and statements. You should see the documentation of SQL Developer for further details.

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