

Name: _____

This assignment is a very simple getting-started exercise to familiarize you with the setup of your class accounts. You will need to use both Oracle and PostgreSQL for this assignment. You should submit (1) a hardcopy of this homework with your answers filled in and (2) an electronic file as detailed below.

You are welcome (and encouraged) to use any resources (e.g., Web sites) to help you with your work. However, **all such help must be clearly noted** in your submissions. Further, no matter what you use, **you must be able to explain** how and why it works.

Please post your questions to the class newsgroup, so that everyone benefits from the discussion.

1. (5 pts) Read the class Web page, paying particular attention to the class policy. Sign your name here to indicate that you have read this material: _____
2. (3 pts) Change the passwords on your OIT Unix (“detective cluster” or “dc”), Oracle, and CSIC (“linuxlab”) accounts. Note that there is no separate password for your PostgreSQL account. Fill in the following information:

Account	User Name	Old Password
dc	_____	_____
Oracle	_____	_____
linuxlab	_____	_____

Make sure you enter your old, and not new, passwords above!

3. (2 pts) Change the *finger* information on your dc account so that *finger youracct* shows your real name (as in class registration records) in the *In real life* field. (Type `man chfn` and `man finger` at the Unix prompt if you don’t know how to make this change.) Repeat for your linuxlab account. Fill in the name you entered below:

4. (5 pts) Design a database table, called **Pictures**, that will hold information about a collection of electronic pictures (e.g., digital photos). For each picture, the table should record the file-name, date and time it was taken, its creator (person), resolution (horizontal and vertical dimensions in pixels), and list price (in USD). You may want to add additional fields that record details such as the aperture, shutter speed, and focal length. Pick what you believe to be the most appropriate type for each field.

the `Pictures` table.

8. (15 pts) Produce a plain-text file, `f1.txt`, containing a screen capture of a `sqlplus` session that performs the actions indicated in Questions 4–7. Produce a similar file, `f2.txt`, containing a screen capture of a `psql` session that performs the same actions. You may find the `script` program useful for generating these files. (Type `man script` at the Unix prompt for help.)
9. (10 pts) Concatenate the files `f1.txt` and `f2.txt` and name the new file `foo-bar.txt`, replacing `foo` with your last name suffixed with your initials (e.g., `HendrixJM.txt`) and `bar` with an arbitrary 4-digit number (e.g., `1664`). Compress the text file using `gzip`; the resulting file should be named `foo-bar.txt.gz` (e.g., `HendrixJM-1664.txt.gz`). Upload `foo-bar.txt.gz` using anonymous FTP (using `anonymous` as the user name and your email address as the password) to the FTP server `ftp.cs.umd.edu` in directory `/incoming/cmsc424-0201/`. (If you upload the wrong file by mistake, you can upload another, but you will need to use a different name—say, `foo-bar-2.txt.gz`.) You will not be able to list the FTP upload directory (standard security setup), so pay attention to the diagnostic messages from your FTP program. If the messages indicate success, your file will have been uploaded. Please upload the file before you submit your hardcopy homework. Write down the name of the file you uploaded below:
