

**Name:** \_\_\_\_\_

This assignment is a very simple getting-started exercise to familiarize you with the setup of your four class accounts: (1) the OIT detective cluster Unix account, (2) the OIT Oracle account on (1), (3) the GNU/Linux account for the new CSIC cluster, and (4) the PostgreSQL account on (3).

You should submit (1) a hardcopy of this homework with your answers filled in and (2) an electronic file as detailed below. You may find it helpful to read up the related material from the suggested Oracle and PostgreSQL books (or some other source).

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.

Reminder: Please use the **newsgroup (not email)** for questions, comments, or other discussions. Use email **only** if there is some reason for keeping the message private.

- (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: \_\_\_\_\_
- (3 pts) Change the passwords on your Unix, Oracle, and PostgreSQL accounts. (Figuring out how to change passwords is part of the assignment, but you're allowed to use the newsgroup for help.) Fill in the following information:

	Username	Old password
OIT		
Oracle		
CSIC		
PSQL		

- (2 pts) Change the *finger* information on your OIT Unix 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. Again, you're allowed to use the newsgroup for help, but try to figure things out yourself first.) Repeat for the CSIC account. (Please use *exactly* the same name.) Fill in the name you entered here: \_\_\_\_\_
- (5 pts) Design a database table, called Drives, that will hold information about hard disk drives. For each drive, it should hold the manufacturer, model, bus type (e.g., ATA, SCSI-160, USB), year of introduction, capacity (in gigabytes), rotational speed (in RPM), and maximum rated throughput (in megabytes/second). Pick what you believe to be the most appropriate type for each field. You can add additional columns



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/cmsc424-0101/`. (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 follow the file packaging and uploading instructions carefully; you will lose points for sloppiness (uncompressed file, malformed filename, etc.). Please upload the file before you submit your hardcopy homework. Write down the name of the file you uploaded here: \_\_\_\_\_