

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 all four of your class accounts (DC, linuxlab, 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. (10 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. (6 pts.) Change the passwords on your OIT Unix (“detective cluster” or “dc”), Oracle, CSIC (“linuxlab”), and PostgreSQL accounts. (Note that the linuxlab and PostgreSQL accounts have logically distinct passwords, even though the initial passwords are the same.) Fill in the following information:

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

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

3. (4 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 `AuctionItems`, that will hold information about items in a silent auction (as used by *eBay* and similar services). For each item, the table should record a unique identifier, a brief (few words) description, a longer description (thousands of words), the starting price for bidding, the shipping and handling charge, and the date and time at which the auction ends. Pick what

you believe to be the most appropriate type for each field. Exhibit the `create table` statement used to create this table below:

5. (5 pts.) Design another database table, called `Bids`, that will hold information about bids placed on the items in the auction. For each bid, the table should record a unique bid confirmation number, the name of the bidder, the item on which the bid is placed, the amount of the bid, and the date and time the bid was placed. As above, pick appropriate types and exhibit the `create table` statement.

6. (5 pts.) Insert five rows into the `AuctionItems` table created above. Pick realistic values for each field, and include at least two items with starting price lower than 5.

You may find the `script` program useful for generating these files. (Type `man script` at the Unix prompt for help.)

13. (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/cmsc424-0101/`. (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 upload the file before you submit your hardcopy homework. Write down the name of the file you uploaded below:
