#### useful UNIX commands for Oracle users

## beginning notes:

• remember: UNIX is case-sensitive!

- nrs-labs is an HSU computer that can access Oracle; you will be using the Oracle database student accessible from nrs-labs this semester. (NOTE: this may CHANGE during the semester, however; if/when this happens, I will let you know what you need to do to access the new Oracle database.) Either way, you will use ssh to **connect** to nrs-labs to do much of the course work for this course.
- once you have logged onto nrs-labs, here is a collection of UNIX commands that you might find useful:

### help-related commands:

man desired_command	print the UNIX manual page for desired_command, if it exists
	print names of UNIX commands followed by 1-line descriptions for commands whose 1-line descriptions contain <i>string</i>

#### directory-related commands:

cd	change directory; make the home directory the current working directory
cd directory_name	change the current working directory to directory_name
•	a nickname for the current directory
	a nickname for the parent of the current directory
~username	a nickname for <i>username</i> 's current directory
~	a nickname for the current user's home directory
pwd	give the name of the current (present) working directory
mkdir <i>directory_name</i>	make a new directory named <i>directory_name</i> within/under the current working directory
rmdir directory_name	remove the directory <i>directory_name</i> within/under the current working directory; note that it must be <b>empty</b> for this to work
ls	list the contents of the current working directory
ls -l	in "long" format, including file permissions
ls -ld	including permissions and information for subdirectories instead of their contents
1s directory_name	list the contents of the directory <i>directory_name</i>
chmod 700 directory_name	protect the directory <i>directory_name</i> so that only <b>you</b> can read, write, or execute its contents. <b>This should be used for homework and project directories.</b>

# file-related commands:

cp filename newfilename	create a copy of <i>filename</i> with the name <i>newfilename</i>
cp fl f2 f3 directory_name	creates copies of files $f1, f2, f3,$ (all that you care to list) in the directory <i>directory_name</i>
mv filename newfilename	change the name of the file filename to newfilename
mv f1 f2 f3 directory_name	moves files <i>f1</i> , <i>f2</i> , <i>f3</i> , (all that you care to list) to the directory <i>directory_name</i>
rm filename	remove the file filename (be careful - this cannot be undone!)
chmod 600 filename	protect the file filename - only you can read or write it
more filename	look at the contents of filename on-screen, one screen at a time
cat filename	look at the contents of filename on-screen, all at once
nano filename vi filename emacs filename	edit file <i>filename</i> (these are three different <b>text editors</b> available on nrs-labs)

# commands and tips for stopping a UNIX process:

^C	(typing ctrl key and letter c at the same time) This can often be used to stop or kill a running UNIX command (a command running in the foreground). Useful if you accidentally type a command that does more than you want to see (e.g., when you don't want to see the rest of a man page)
ps x	gives information about currently-running processes that you own (even from other UNIX sessions). The name of each process is on the far right, and the <b>process id</b> of each process is in the first column. ( <b>Beware</b> : the options for ps vary on different flavors of UNIX/Linux!)
kill process_id kill -9 process_id	stop, or kill, the process with process id <i>process_id</i> . I was always taught to try the version without -9 before trying the version with -9, because the former kills the process less "messily". This command is very useful to kill rogue sqlplus sessions if you start getting error messages about tables being locked!

# other commands and etc.:

sqlplus	start up the Oracle SQL*Plus program on nrs-labs
*	UNIX wildcard character that matches <b>any</b> 0 or more characters. E.g., ha*s matches has, ha3s, happiness, etc.
?	UNIX wildcard character that matches any single character. E.g., ha?s matches hams, ha3s but does not match has, haaas
ESC key	in several UNIX shells (including nrs-labs' default shell), typing this key twice after you have started typing a file name will cause the shell to try to <b>complete</b> (fill in) the file name you have started typing, if it can. This is called <b>filename completion</b> .

grep <i>pattern</i> *	look for files in the current working directory that <b>contain inside</b> of them the pattern or letters <i>pattern</i>
diff file1 file2	compare the contents of <i>file1</i> and <i>file2</i> , and show any differences. If the two files are identical, nothing is returned.
history	show a list of the most recently-executed commands in this UNIX session
!!	redo the last UNIX command executed
!com	redo the most recent UNIX command executed starting with the letters com
!-num	redo the UNIX command executed num commands ago
!num	redo the UNIX command numbered <i>num</i> in the history list
up-arrow key	lets you scroll through the commands in the history list
quota	lets you know how much of your disk space quota you are using. <b>Note:</b> how much you can store in your Oracle account is <b>unrelated</b> to how much you can store on nrs-labs! I can fill out a form to increase your nrs-labs quota (for a good, course-related reason) the form is usually processed within 48 hours. To increase how much you can store in your Oracle account (again, for a good, course-related reason), we have to contact HSU's Oracle database administrator.