# CS 325 - Useful Linux commands for Oracle users

#### beginning notes:

- remember: Linux is case-sensitive!
- once you have logged onto nrs-projects.humboldt.edu, here is a collection of Linux commands that you might find useful:

### help-related commands:

man desired_command	display the Linux manual page for desired_command, if it exists
apropos string	display names of Linux 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 directory_name	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 -1	in "long" format, including file permissions
ls -ld	including permissions and information for subdirectories instead of their contents
ls directory_name	list the contents of the directory directory_name
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 filename with the name newfilename
	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 <i>filename</i> to <i>newfilename</i>
mv f1 f2 f3 directory_name	moves files $f1, f2, f3,$ (all that you care to list) to the directory directory_name
rm filename	remove the file filename (be careful - this cannot be undone!)
rm -i filename	slightly-safer way to remove a file asks you to confirm removal! (BUT still 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-projects)

# commands and tips for stopping a Linux process:

^C	(typing ctrl key and letter c at the same time) This can often be used to stop or kill a running Linux 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 Linux 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 Linux/UNIX!)
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 <b>without</b> -9 <b>before</b> trying the version with -9, because the former kills the process less "messily". <b>This command is very useful to kill rogue</b> sqlplus <b>sessions if you start getting error messages about tables being locked!</b>

## other commands and etc.:

sqlplus	start up the Oracle SQL*Plus program on nrs-projects
*	Linux wildcard character that matches <b>any</b> 0 or more characters. E.g., ha*s matches has, ha3s, happiness, etc.
?	Linux wildcard character that matches any single character. E.g., ha?s matches hams, ha3s but does not match has, haaas
tab key	in several Linux shells (including nrs-projects' default shell, bash), typing this key 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 pattern *	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

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	files are identical, nothing is returned.
history	show a list of the most recently-executed commands in this Linux session
!!	redo the last Linux command executed
!com	redo the most recent Linux command executed starting with the letters com
!-num	redo the Linux command executed num commands ago
!num	redo the Linux command numbered num in the history list
up-arrow key	lets you scroll through the commands in the history list
quota	On many Linux/UNIX systems, this lets you know how much of you disk space quota you are using. This does <b>not</b> seem to be set up on nrs-projects at this time, but just in case it is set up at some point, I'm still including it in this list.  Note: how much you can store in your Oracle account is <b>unrelated</b> to how much you can store on nrs-projects! To increase how much you can store in your Oracle account (for a good, course-related reason), we have to contact HSU's Oracle database administrator.