## useful UNIX commands for Oracle users

## beginning notes:

- remember: UNIX is case-sensitive!
- nrs-projects is an HSU computer that can access Oracle; you will be using the Oracle database student accessible from nrs-projects this semester. You will use ssh to **connect** to nrs-projects to do much of the course work for this course.
- once you have logged onto nrs-projects, here is a collection of UNIX commands that you might find useful:

### help-related commands:

man desired_command	print the UNIX manual page for <i>desired_command</i> , if it exists
1 1 0	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 <i>directory_name</i>
•	a nickname for the current directory
	a nickname for the parent of the current directory
~username	a nickname for username'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 <i>directory_name</i>	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
ls directory_name	list the contents of the directory <i>directory_name</i>
chmod 700 <i>directory_name</i>	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 <i>f1 f2 f3 directory_name</i>	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>
$mv fl f2 f3 \dots directory_name$	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 <i>filename</i>	remove the file <i>filename</i> (be careful - this cannot be undone!)
chmod 600 <i>filename</i>	protect the file <i>filename</i> - only <b>you</b> can read or write it
more <i>filename</i>	look at the contents of <i>filename</i> on-screen, one screen at a time
cat filename	look at the contents of <i>filename</i> on-screen, all at once
nano <i>filename</i> vi <i>filename</i> emacs <i>filename</i>	edit file <i>filename</i> (these are three different <b>text editors</b> available on nrs-projects)

# 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 <b>without</b> -9 <b>before</b> 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-projects
*	UNIX wildcard character that matches any 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-projects' 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 pattern *	look for files in the current working directory that <b>contain inside</b> of them the pattern or letters <i>pattern</i>
diff <i>filel file2</i>	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 num in the history list
up-arrow key	lets you scroll through the commands in the history list