

CS2550: Working with the ADMT's Oracle 11g Server

- In order to access the Oracle server using SQL*PLUS, you must login to the cis unix machine `ssh pitt_id@unixs.cis.pitt.edu` using your PittID and password.
- Check the shell (bash or tsch) of your terminal using the command `echo $SHELL`
- To set the Oracle environment variables, run the script that matches your shell using:
 - > **source** ~panos/1555/bash.env
 - > **source** ~panos/1555/tcsh.env

Note that the full path is:

`/afs/pitt.edu/home/l/a/panos/1555/bash.env` or `tcsh.env`

- The text editor under unix might not work properly with your current terminal setting, so it can be changed by typing :
 - **TERM=xterm export TERM** or **export TERM=vt100** (bash)
 - **setenv TERM xterm** or **setenv TERM vt100** (tcsh)
- Now you are ready to run SQL*PLUS using the command: `sqlplus`
Your username is your PittID and your password is your peopleSoft
- Some basic SQL*PLUS commands:
 - a. To change your password: `passw`
 - b. To use an external editor use the following:
 - i. `def _EDITOR=pico;`
 - ii. `edit` to edit the buffer contents.
 - iii. `edit file_name`
 - c. Use the following to execute SQL commands from a file
 - i. use `@<filename>` or `start <filename>` to run the file
 - ii. use `--` to comment a line within the file.
 - d. Record your session into a file
 - i. `spool <filename>` //this starts recording,
 - ii. then perform your tasks/run your queries, then
 - iii. `spool off` //to turn off recording.
 - e. To display text on the screen
 - i. `prompt text`
 - f. Use `host` in order to execute UNIX commands from inside SQL*PLUS. For example the following command lists all the files in the current directory:
 - i. `host ls`

- g. Use the following commands to modify the SQL*PLUS buffer without external editor
 - i. `a <text>` to append `<text>` to the end of the line
 - ii. `c /old/new` to change old to new in a line
 - iii. `c /text` to delete text from a line
 - iv. `cl buff` to clear the buffer
 - v. `save <filename>` to save the contents of the buffer in a file
 - vi. `list` to list the contents of the buffer
 - vii. `run` to execute all the commands in the buffer
 - h. You can find more information about SQL*PLUS at the following URL. Please note that we are running SQL*PLUS 11.1 though similar to 10.1, version differences might apply.
http://www.oracle.com/technology/docs/tech/sql_plus/index.html
 - Some useful notes on Oracle:
 - a. Use *single* quote for string constant, for example `'Mary'`
 - b. For date constant, the default format is: `'dd-mon-yy'` (e.g., `'14-Jan-11'`). You can change this to, for example, `'mm/dd/yyyy'`, by:
 - `run alter session set nls_date_format 'mm/dd/yyyy'` for the current session
 - use `to_date` function each time you need to specify a date constant, e.g.,
`to_date('01/14/2011', 'mm/dd/yyyy')`
 - c. End each query with `;`
 - d. To comment a line, use `--`
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