

# Updating NODEDETAILS with SQLPlus

Note there is also a script at `/afs/slac/package/pinger/guthrie/node.pl` that provides some read and write access to the NODEDETAILS database.

To update the NODEDETAILS database directly with SQLPlus, the Oracle SQL interpreter, log onto a SLAC Taylored host `cottrell@pinger-test.slac.stanford.edu`. Set the `ORACLE_HOME` environment variable to `/usr/oracle`, e.g. `setenv ORACLE_HOME /usr/oracle (csh)` or `export ORACLE_HOME=/usr/oracle (sh/bash/etc.)`.

Get the Guthrie NODEDETAILS IEPM password from escrow (`escrow edit -c iepm iepmacct`), then run `sqlplus` from the command prompt. Unless you have defined `ORACLE_HOME` in your shells configuration file, e.g. in `cshrc`, then you will need to define it first:

```
[cottrell@cent7a ~]$ source /afs/slac/package/oracle/common/18.3.0.csh
enter the SID
SLACPROD
[cottrell@cent7a ~]$ sqlplus
SQL*Plus: Release 19.0.0.0.0 - Production on Mon Jan 24 19:28:25 2022
Version 19.3.0.0.0
Copyright (c) 1982, 2019, Oracle. All rights reserved.
Enter user-name: iepm
Enter password:
Last Successful login time: Mon Jan 24 2022 18:30:02 -08:00
Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.13.0.0.0
SQL>quit

~~~~~ /afs/slac/package/oracle/common/18.3.0.csh contains ~~~~~
#!/bin/csh
setenv ORACLE_HOME /afs/slac/package/oracle/f/18.3.0
setenv PATH ${PATH}:%ORACLE_HOME/bin
setenv LD_LIBRARY_PATH ${LD_LIBRARY_PATH}:%ORACLE_HOME/lib
setenv TNS_ADMIN /afs/slac/package/oracle/common
echo "enter the SID"
set ttask=$<
setenv TWO_TASK `echo $ttask`

~~~~~Or~~~~~
[cottrell@pinger-test ~]$ setenv ORACLE_HOME /afs/slac.stanford.edu/package/oracle/f/19.3.0
[cottrell@pinger-test ~]$ $ORACLE_HOME/bin/sqlplus iepm@slacprod
SQL*Plus: Release 19.0.0.0.0 - Production on Mon Jan 24 18:05:51 2022
Version 19.3.0.0.0
Copyright (c) 1982, 2019, Oracle. All rights reserved.
Enter password:
Last Successful login time: Mon Jan 24 2022 18:05:37 -08:00
Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.13.0.0.0
SQL> quit
Disconnected from Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.13.0.0.0
[cottrell@pinger-test ~]$

~~~~~Older~~~~~
pinger@pinger $ setenv ORACLE_HOME /usr/oracle
pinger@pinger $ cd $ORACLE_HOME/bin
pinger@pinger $ sqlplus iepm@slacprod
SQL*Plus: Release 11.1.0.6.0 - Production on Fri Jun 13 16:49:59 2014
Copyright (c) 1982, 2007, Oracle. All rights reserved.
Enter password:
Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.3.0 - 64bit Production
With the Partitioning option
SQL>
```

Invoking `sqlplus` is done with the name of the command, a space, the database username, currently `iepm`, an at sign, and then the database connect string, currently `slacprod`.

SQL statements can then be entered at the `SQL>` prompt. Punctuation is important in `sqlplus`. Always end insert, update, delete, select, create, and alter statements with a semicolon. By default, Oracle does all work in a transaction, so you must execute the `commit;` command to save any changes you've made to the database or the `rollback;` command to revert them after you have completed a set of changes. When finished use `exit;` to leave `SQLPlus`.