POSTGRESQL 8.3 PSQL CHEAT SHEET
```
psql is located in the bin folder of the PostgreSQL install and PgAdmin III install.
```
This is psql 8.3.5, the PostgreSQL interactive terminal.

Usage: psql [OPTIONS]... [DBNAME [USERNAME]]

General options:
```
  -c COMMAND                               run only single command (SQL or internal) and exit
  -d, --dbname=NAME                        specify database name to connect to (default: "logged in username here")
  -f, --file=FILENAME                      execute commands from file, then exit
  --help                                   show this help, then exit
  -l, --list                               list available databases, then exit
  -v NAME=VALUE                            set psql variable NAME to VALUE
  --version                                output version information, then exit
  -X                                       do not read startup file (~/.psqlrc)
```

Interactive Console:
```
TYPE:  \copyright                          for distribution terms
       \h for help with SQL commands       for help with SQL commands
       \? for help with psql commands      for help with psql commands
       \g or terminate with semicolon to execute query   or terminate with semicolon to execute query
       \q to quit                          to quit
```
GENERAL:
```
  \c[onnect] [DBNAME|- USER|- HOST|- PORT|-]   connect to new database
  \cd [DIR]                                change the current working directory
  \encoding [ENCODING]                     show or set client encoding
  \h [NAME]                                help on syntax of SQL commands, * for all commands
  \set [NAME [VALUE]]                       set internal variable, or list all if no parameters
  \timing                                  toggle timing of commands (currently off)
  \unset NAME                              unset (delete) internal variable
  \prompt [TEXT] NAME                      prompt user to set internal variable
  \! [COMMAND]                             execute command in shell or start interactive shell
```

QUERY BUFFER:
```
  \e [FILE]                                edit the query buffer (or file) with external editor
  \g [FILE]                                send query buffer to server (and results to file or |pipe)
  \p                                       show the contents of the query buffer
  \r                                       reset (clear) the query buffer
  \w FILE                                  write query buffer to file
```

INPUT/OUTPUT:
```
  \echo [STRING]                           write string to standard output
  \i FILE                                  execute commands from file
  \o [FILE]                                send all query results to file or |pipe
  \qecho [STRING]                          write string to query output stream (see \o)
```

INFORMATIONAL:
```
  \d [NAME]                                describe table, index, sequence, or view
  \d{t|i|s|v|S} [PATTERN] (add "+" for more detail)   list tables/indexes/sequences/views/system tables
  \da [PATTERN]                            list aggregate functions
  \db [PATTERN]                            list tablespaces (add "+" for more detail)
  \dc [PATTERN]                            list conversions
  \dC                                      list casts
  \dd [PATTERN]                            show comment for object
  \dD [PATTERN]                            list domains
  \df [PATTERN]                            list functions (add "+" for more detail)
  \dF [PATTERN]                            list text search configurations (add "+" for more detail)
  \dFd [PATTERN]                           list text search dictionaries (add "+" for more detail)
  \dFt [PATTERN]                           list text search templates
  \dFp [PATTERN]                           list text search parsers (add "+" for more detail)
  \dg [PATTERN]                            list groups
  \dn [PATTERN]                            list schemas (add "+" for more detail)
  \do [NAME]                               list operators
  \dl                                      list large objects, same as \lo_list
  \dp [PATTERN]                            list table, view, and sequence access privileges
  \dT [PATTERN]                            list data types (add "+" for more detail)
  \du [PATTERN]                            list users
  \l                                       list all databases (add "+" for more detail)
  \z [PATTERN]                             list table, view, and sequence access privileges (same as \dp)
```

FORMATTING
```
  \a                                       toggle between unaligned and aligned output mode
  \C [STRING]                              set table title, or unset if none
  \f [STRING]                              show or set field separator for unaligned query output
  \H                                       toggle HTML output mode (currently off)
  \pset NAME [VALUE]                       set table output option
                                              (NAME := {format|border|expanded|fieldsep|footer|null|numericlocale|recordsep
                                              |tuples_only|title|tableattr|pager})
  \t                                       show only rows (currently off)
  \T [STRING]                              set HTML <table> tag attributes, or unset if none
  \x                                       toggle expanded output (currently off)
```

```
COPY, LARGE OBJECT
  \copy ...                                      perform SQL COPY with data stream to the client host
  \lo_export LOBOID FILE                         LOBOID FILE
  \lo_import FILE [COMMENT]                       FILE [COMMENT]
  \lo_list
  \lo_unlink LOBOID                              large object operations
```

Connection options:

```
  -h, --host=HOSTNAME      database server host or socket directory
  -p, --port=PORT          database server port number
  -U, --username=NAME      connect as specified database user
  -W, --password           force password prompt (should happen automatically)
  -e, --exit-on-error      exit on error, default is to continue
  -d DBNAME                some database
```

psql automated shell examples

restore whole server
```
psql --host=localhost --username=someuser -f /path/to/pgdumpall.sql
```
Run an sql batch script against a database
```
psql -h localhost -U someuser -d somedb -f /path/to/somefile.sql
```
Run an sql batch script against a database and send output to file
```
psql -h localhost -U someuser -d somedb -f /path/to/scriptfile.sql  -o /path/to/outputfile.txt
```
Run a single statement against a db
```
psql -U postgres -d pagila -c "CREATE TABLE test(some_id serial PRIMARY KEY, some_text text);"
```
Output data in html format
```
psql -h someserver -p 5432 -U someuser -d somedb -H -c "SELECT * FROM sometable" -o mydata.html
```

psql Interactive mode

Launch Interactive session
```
psql -h localhost -U postgres -d somedb
```
View help for SELECT * LIMIT
```
\h  SELECT * LIMIT
```
List all tables in db with descriptions
```
\dt+
```
List all tables in db with **s** in the name
```
\dt *s*
```
Cancel out of MORE screen
```
:q
```

http://www.postgresonline.com