POSTGRES Cheat Sheet

Operation	**Postquel**
System Catalog Queries: list users	retrieve (u.all) from u in pg_user
list all classes	retrieve (p.relname, p.relkind) from p in pg_class
list just user classes	retrieve (p.relname, p.relkind) from p in pg_class where p.relname !~ "pg_*" retrieve (p.relname, p.relkind) from p in pg_class where p.relname < "pg" or p.relname > "ph"
list attributes of a specific class	attribute list (fast): retrieve (*class_name*.all) where 1=0 attribute/datatype list (slower): retrieve (c.relname, a.attname, t.typname) from c in pg_class, a in pg_attribute, t in pg_type where a.attrelid=c.oid and a.atttypid=t.oid and a.attnum > 0 and c.relname="*class_name*"
list attributes of all user classes	retrieve (r.relname, a.attnum, a.attname, t.typname) from r in pg_class, a in pg_attribute, t in pg_type where a.attnum > 0 and (r.relname < "pg" or r.relname > "ph") and a.attrelid = r.oid and a.atttypid = t.oid
list indexes	retrieve (p.relname, p.relkind) from p in pg_class where p.relkind="i"
list rules	retrieve (p.prs2text) from p in pg_prs2rule
DDL: create class	create *classname* (attname1=type1{,attname*i* type*i*}) inherits (classname {, classname})
add field to class	addattr (attname=type1 {, attname*i*=type*i*}) to *classname*{*}
drop class	destroy *classname*
create index	define index *indexname* on *classname* using btree | rtree (attname1 type1_ops{, attname*i* type*i*_ops})
drop index	remove index *indexname*
define view	define view *viewname* from *from_list* where *qual*

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Environment:	
remote database host	setenv PGHOST *hostname*
Bigfoot database host	setenv PGHOST heel
location of Postgres distribution	setenv POSTGRESHOME *your_local_copy*
Bigfoot (toe)	setenv POSTGRESHOME /usr/local/postgres set path=($POSTGRESHOME/bin $path)
DBA:	
Bring database up	~postgres/bin/postmaster &
Take database down	kill postmaster process
Connect to Database:	
	monitor *database*
Example:	monitor demo
Bigfoot:	monitor sequoia
Query Buffer:	
execute query	\g
quit	\q
get on-line help	\h *or* \?
edit query buffer	\e
print query buffer	\p
clear query buffer	\r
load a file into buffer	\i *filename*
escape to a Unix shell	\s
save buffer into a file	\w *filename*
print current time	\t
Data Types:	builtins:
character string	char, char16 *(array of 16 characters)*
text	text
2 byte integer	int2 *(signed),* uint2 *(unsigned)*
4 byte integer	int4 *(signed),* uint4 *(unsigned)*
single precision float	float4
double precision float	float8
date and time	abstime, reltime, tinterval
blobs	LO (large objects)
Data Loading:	
Data File format:	attr1 <TAB> attr2 <TAB>...attr*n*<newline>
Getting data into Postgres:	copy *classname* from “/full/path/to/filename”
Getting data out of Postgres:	copy *classname* to “/full/path/to/filename”