

PSQL Magic

Basic Commands

```
psql -U postgres # Connect
\?               # Show help
\q               # Quit
\l               # List databases
\c dbname        # Connect to DB
\x               # Toggle pretty-format
\! ls            # Run shell command
```

Inspection

```
\d table         # Describe table
\d+ table        # Detailed table info
\d+ *.*          # List all tables
\di              # List indexes
\dv              # List views
\df              # List functions
\dy              # List events
\dn              # List schemas
\dx              # List extensions
\du              # List users
\des+           # List foreign servers
```

Export Data

```
\copy (SELECT * FROM table)
TO 'file.csv' WITH CSV
```

Administration

Service Control

```
sudo service postgresql start
sudo service postgresql stop
sudo service postgresql restart
```

Logging

```
# In postgresql.conf:
log_min_messages = debug5
log_line_prefix = '%t %u %d %a '
tail -f /var/log/postgresql.log
```

Useful Queries

Space Usage

```
SELECT pg_size_pretty(
    pg_total_relation_size('table')
);

SELECT pg_size_pretty(
    pg_database_size('dbname')
);
```

Activity Monitoring

```
SELECT * FROM pg_stat_activity
WHERE datname='dbname';

SELECT * FROM pg_stat_activity
WHERE waiting='t';
```

Permissions

```
SELECT grantee, privilege_type
FROM information_schema.role_table_grants
WHERE table_name='mytable';
```

Kill Connections

```
SELECT pg_terminate_backend(pid)
FROM pg_stat_activity
WHERE datname = current_database()
AND pid <> pg_backend_pid();
```