

# Migrating FileSender database back-ends

FileSender supports several different database back-ends, by virtue of [PHP's PDO](#).

Currently there are 3 back-ends that are known to work: [PostgreSQL](#), [MySQL](#), and [SQLite](#).

Assumptions:

- The target database has the right schema, tables, etc, and is empty. See the create scripts in the `scripts/` directory.
- Both the source and destination database are called **filesender**
- SQLite databases are called `filesender.sqlite`

## Postgres to MySQL

Use a shell script that does:

1. `pg_dump`
2. Quote field names with backticks
3. Remove any **SET** statements
4. Remove any **SELECT pg\_catalog.setval** statements
5. Feed INSERT statements into MySQL

You can't simply filter all lines that start with INSERT INTO because the data contains newlines itself.

```
pg_dump -U username -h hostname -a --inserts filesender |
sed -r 's/^(INSERT\ INTO\ )(files|logs)(\ VALUES\ )/\1`2`3/g' |
sed -r '/SET\ ([a-z_]*)\ =\ (.*);/d' |
sed -r '/SELECT\ pg_catalog.setval(.*);/d' |
mysql -u username -h hostname -p filesender
```

## PostgreSQL to SQLite

Largely the same shell script, but no backticks are needed here.

This takes a while depending on the amount of records.

```
pg_dump -U username -h hostname -a --inserts filesender |
sed -r '/SET\ ([a-z_]*)\ =\ (.*);/d' |
sed -r '/SELECT\ pg_catalog.setval(.*);/d' |
sqlite3 filesender.sqlite
```

## SQLite to PostgreSQL

```
echo -e ".mode insert files\nSELECT * FROM files;\n.mode insert logs\nSELECT * FROM logs;" |
sqlite filesender.sqlite |
psql -U username -h hostname filesender
```

# SQLite to MySQL

FIXME

# MySQL to PostgreSQL

FIXME

# MySQL to SQLite

FIXME