PosgreSQL QuickRef

PostgreSQL quick reference.

Create Role & DB

```
CREATE DATABASE <dbname>;
CREATE ROLE <rolename>;
ALTER USER <rolename> WITH PASSWORD '<password>';
ALTER USER <rolename> WITH LOGIN;
ALTER DATABASE <dbname> OWNER TO <rolename>;
GRANT ALL PRIVILEGES ON DATABASE <dbname> TO <rolename>;
```

Reset Serial Count

```
-- Reset sequence
ALTER SEQUENCE seq RESTART WITH 1;

-- update column to reference sequence
-- (not needed if the column in question is already
-- referenced by the sequence)
UPDATE t SET idcolumn=NEXTVAL('seq');
```

Add/Drop Constraint

Postgres names constraints on table creation in the following format: `(table name)_(column name)_(constraint type)`.

```
ALTER TABLE <table> ADD CONSTRAINT <constraint_name>
<constraint_expression>;
ALTER TABLE <table> DROP CONSTRAINT <constraint_name>;
```

Backup / Restore

```
# Dump full db
pg_dump -U <user> -h <host> -d <db> > backup.sql

# Table, schema, or data only
pg_dump -U <user> -d <db> -t <table> > table.sql
pg_dump -U <user> -d <db> -s > schema.sql
pg_dump -U <user> -d <db> -a > data.sql
```

```
# Custom format (restore with pg_restore)
pg_dump -U <user> -d <db> -Fc > backup.dump

# Restore
psql -U <user> -d <db> < backup.sql
pg_restore -U <user> -d <db> backup.dump
```

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