# Prisma Database ORM toolkit

## CONCEPTS

Since Prisma 7 the CLI no longer runs generate or seed for you after migrate dev, migrate reset or db push. Run them explicitly.

**Edit schema.prisma** models, relations
↓ changes
**migrate dev** SQL file + apply
↓ then
**generate** typed client
↓ commit, ship
**migrate deploy** CI and production

Typical development loop

The database URL lives in prisma.config.ts (usually read from DATABASE_URL), not in the schema. Commands that touch the database need that file.

## SETUP

`npx prisma init`
Create schema, config and .env

`npx prisma init --datasource-provider <provider>`
Pick the database provider

`npx prisma init --url <url>`
Set a custom datasource URL

`npx prisma version`
CLI, client and engine versions

## GENERATE

`npx prisma generate`
Generate the client from the schema

`npx prisma generate --watch`
Regenerate on schema changes

## SCHEMA TOOLING

`npx prisma validate`
Check the schema for errors

`npx prisma format`
Format schema.prisma

`npx prisma format --check`
Fail if the schema is unformatted

`npx prisma <command> --schema <path>`
Use a schema in another location

## SCHEMA TOOLING (cont.)

`npx prisma <command> --config <path>`
Use another prisma.config.ts

## MIGRATE

`npx prisma migrate dev`
Apply schema changes in development

`npx prisma migrate dev --name <name>`
Name the new migration

`npx prisma migrate dev --create-only`
Write the SQL, do not apply it

`npx prisma migrate deploy`
Apply pending migrations (prod, CI)

`npx prisma migrate status`
Compare migrations with the database

`npx prisma migrate reset`
Drop data and reapply all migrations

`npx prisma migrate reset --force`
Reset without the prompt

`npx prisma migrate resolve --applied <migration>`
Mark a migration as applied

`npx prisma migrate resolve --rolled-back <migration>`
Mark a failed migration as rolled back

## DATABASE

`npx prisma db push`
Sync schema to DB without migrations

`npx prisma db pull`
Introspect DB into the schema

`npx prisma db pull --print`
Print the schema, do not write

`npx prisma db seed`
Run the configured seed script

## STUDIO AND DEV DB

`npx prisma studio`
Open the data browser

## ENVIRONMENT

`DATABASE_URL=<url>`
Connection string, read by prisma.config.ts