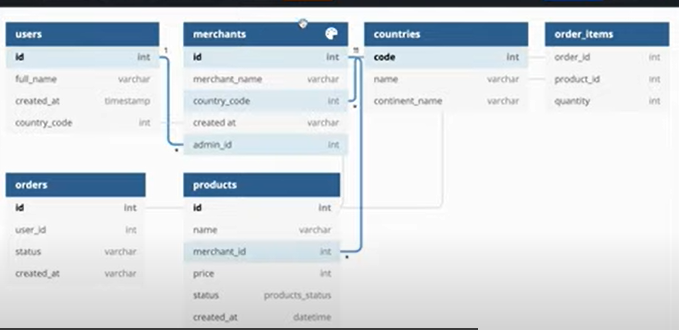
Source:

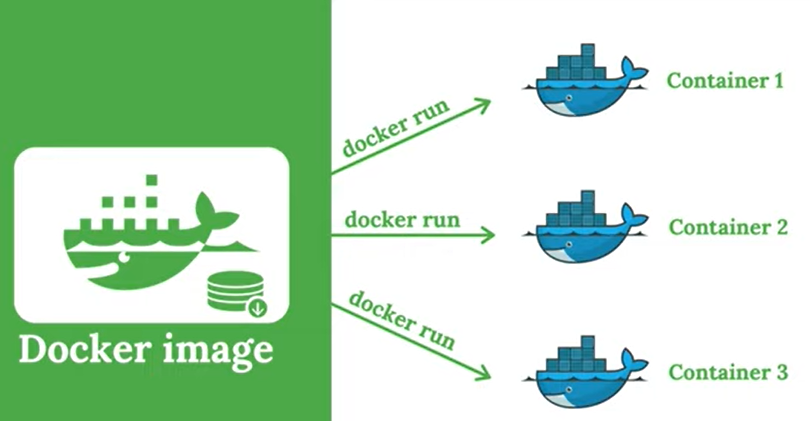
<https://www.youtube.com/watch?v=rx6CPDK_5mU&list=PLy_6D98if3ULEtXtNSY_2qN21VCKgoQAE>

https://github.com/architanayak/golang-jwt-authentication/blob/main/main.go

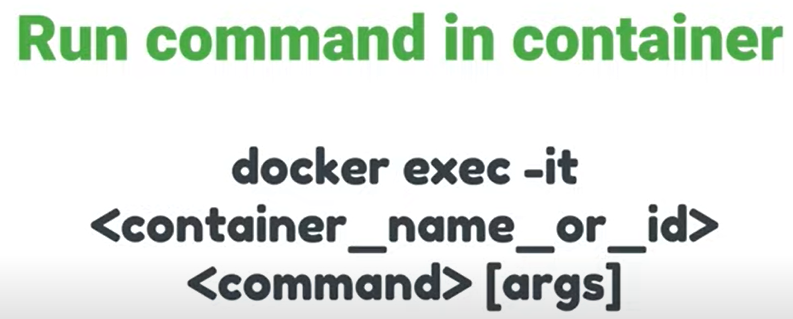
# Design DB schema and generate SQL code with dbdiagram.io

* 
* <https://dbdiagram.io/d>

# Install & user Docker + Postgres + tablePlus to create DB schema

* <https://hub.docker.com/_/postgres>
* 
* docker run --name some-postgres -e POSTGRES\_PASSWORD=mysecretpassword -d postgres
* 

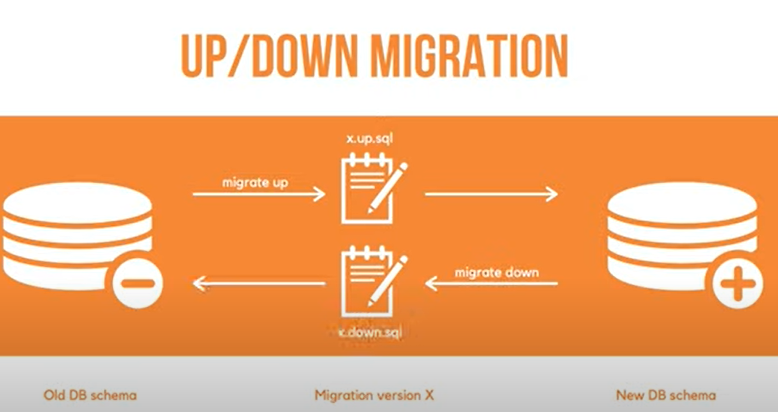
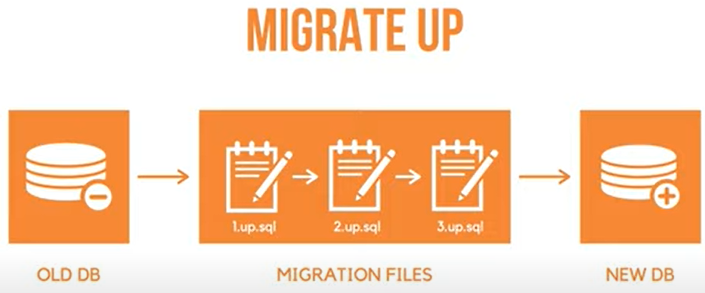
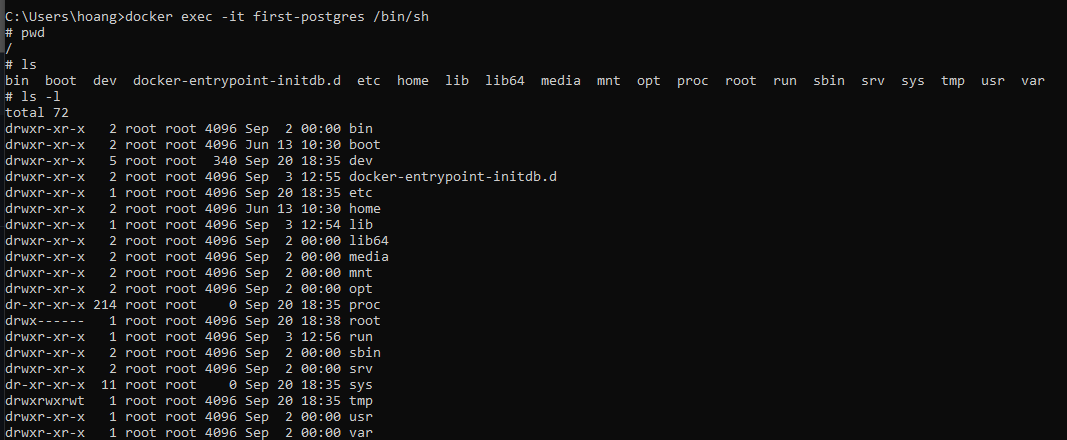
docker run --name first-postgres -p 5432:5432 -e POSTGRES\_USER=root -e POSTGRES\_PASSWORD=2520 -d postgres:latest

* Run command in container
* 

docker exec -it first-postgres psql -U root

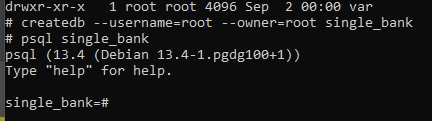
* View container logs
* 
* https://tableplus.com/

# How to write & run database migration in Golang

* <https://github.com/golang-migrate/migrate>
* <https://github.com/golang-migrate/migrate/tree/master/cmd/migrate>
* 
* 
* 
* Exec
* 
* Create database postgres and use

Created –username=root –owner=root single\_bank

Psql single\_bank

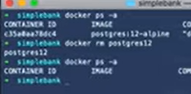
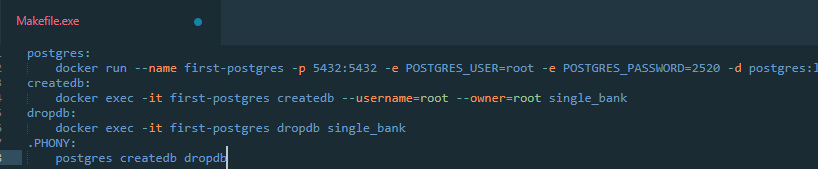
* 
* Exit

\q exit

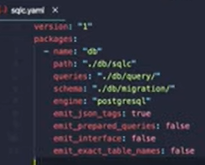
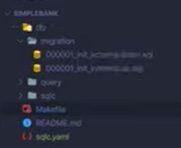
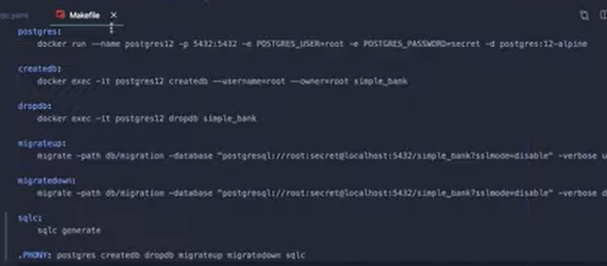
* Connect again:

Docker exec -it first-postgres created –username=root –owner=root single\_bank

Docker exec -it first-postgres psql -U root single\_bank

* 
* Create file docker, when run
* 
*  
* 
* 
* Make file
* Make postgres
* 

# Generate CRUD golang code from SQL | Compare db/sql, gorm, sql& sqlc

* <https://sqlc.dev/>
* <https://docs.sqlc.dev/en/latest/howto/insert.html>
* Sqlc version
* Sqlc help
*  
* Sql init 
* <https://docs.sqlc.dev/en/latest/reference/config.html>
*  
* 

# Write Golang unit test for database CRUD with random data

# A clean way to implement database transaction in golang

# DB transaction lock & how to handle deadlock in Golang

# How to avoid deadlock in DB transaction? Queries order matters!