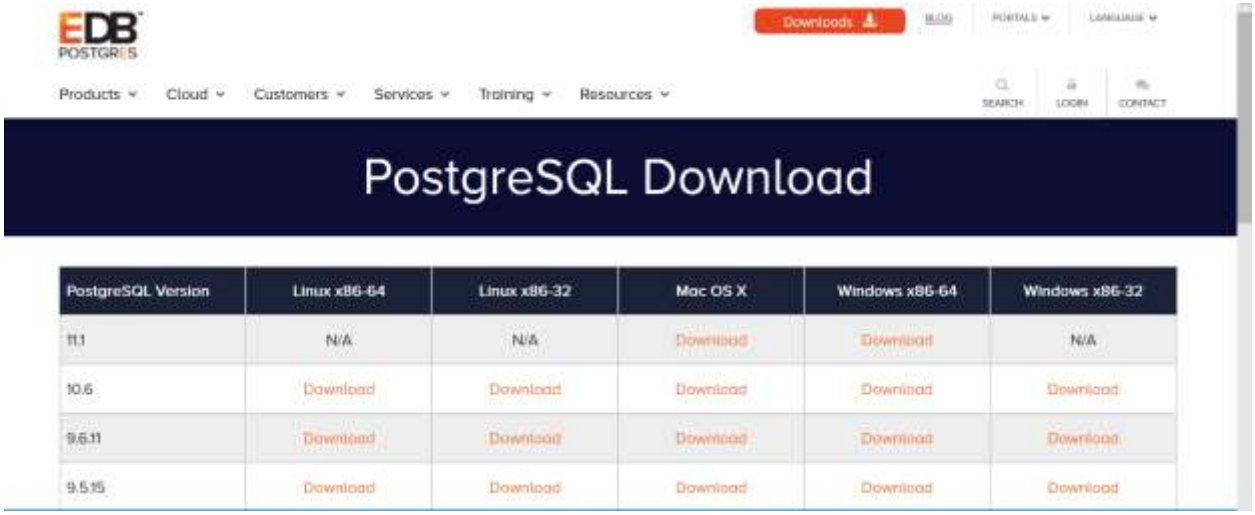
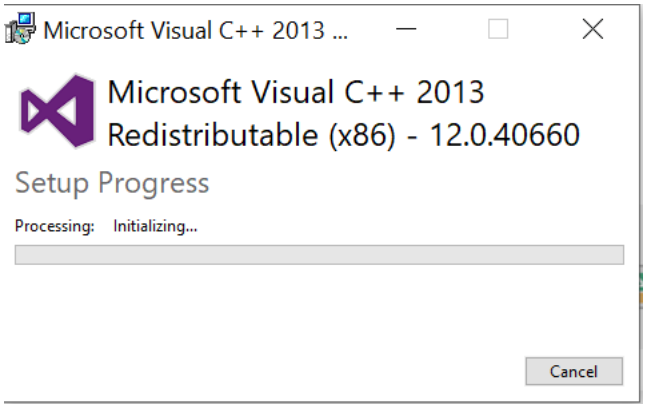
Installing PostgreSQL on local machine

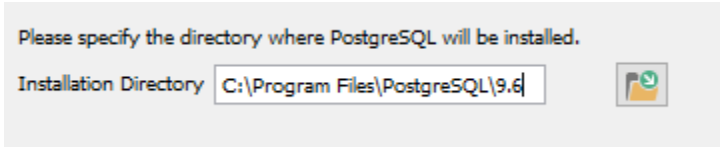
1. Go to https://www.enterprisedb.com/downloads/postgres-postgresql-downloads and download the latest version that fits your OS.



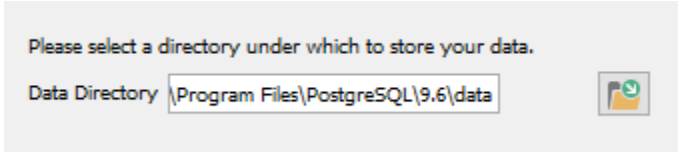
2. Download and run installer
3. Don't worry if this appears (or if it doesn't)



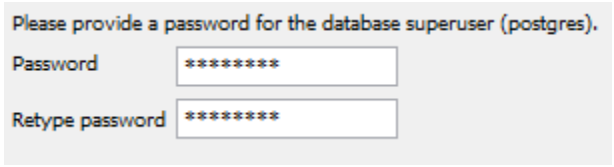
4. Choose installation directory



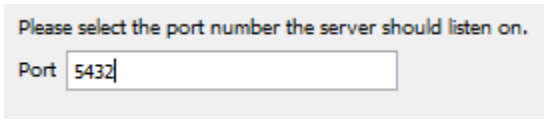
5. Choose data directory



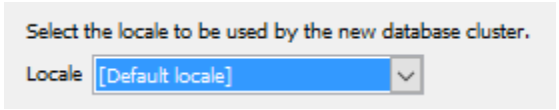
6. Provide a password for superuser postgres



7. Select the port the server listens on (default is 5432)



8. Select the locale for DB cluster as “default locale”

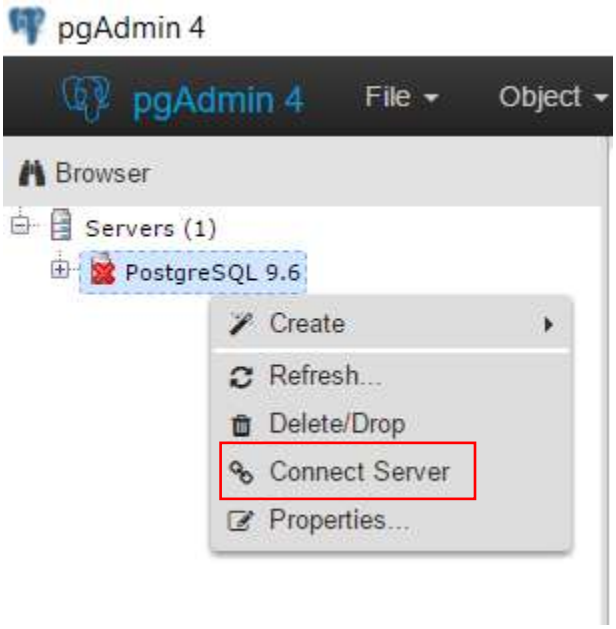


9. Install the software

10. No need to Run Stack Builder, finish installation

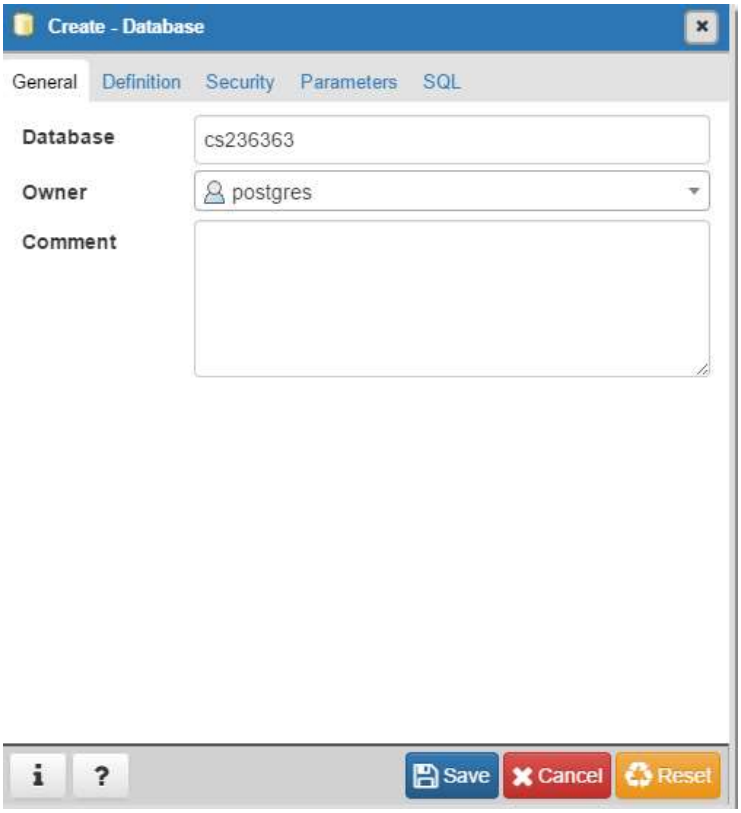
First sign in (as superuser)

1. Run pgAdmin (located under {installation directory}\pgAdmin 4\bin)
2. Connect to your server (right click on “PostgreSQL 9.6” and click “Connect Server”). Enter password for postgres user if prompted.



Create Database

1. Right click on “databases” and choose “create”->”database”
2. Call the database “cs236363”

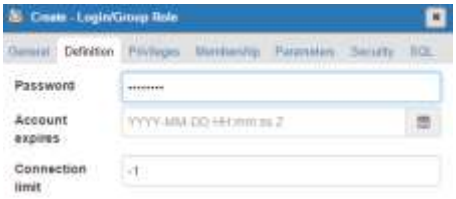


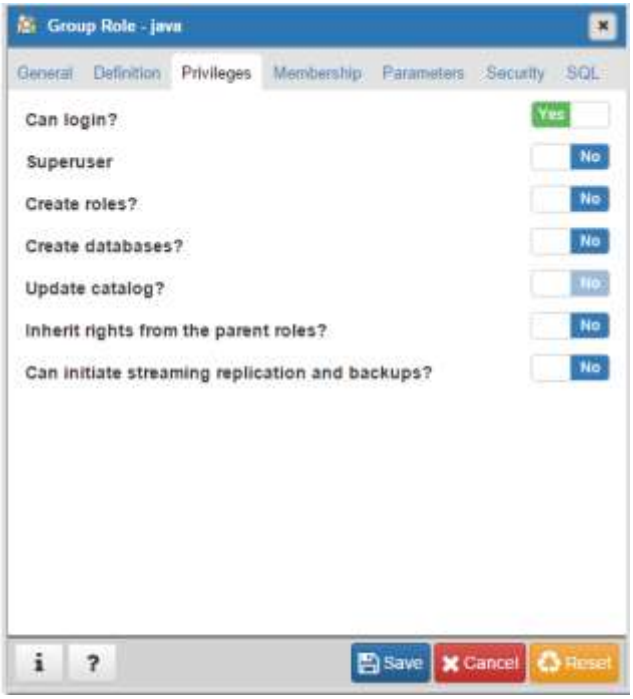
Create user (for HW2)

1. Right click on “Login/Group Roles”->”create”->”Login/Group Role”.

2. In the “general” tab, give your user a name (I used the name “java”, for example)

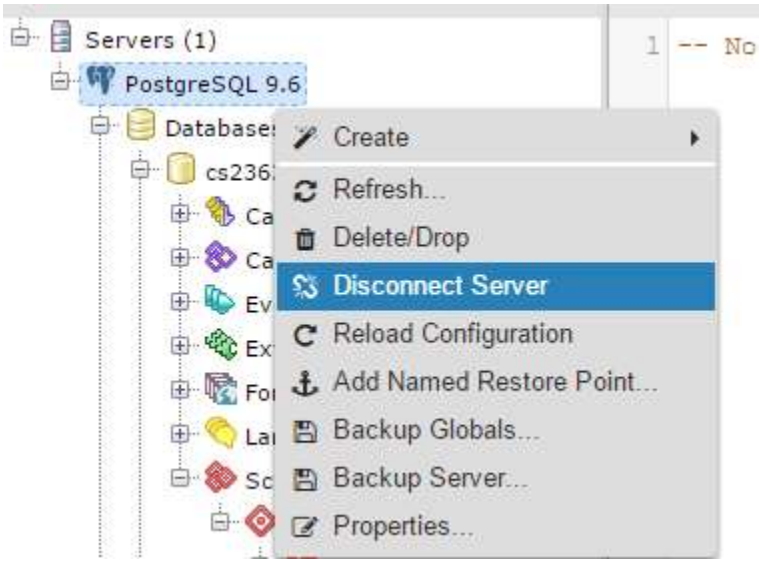
3. In the “definition” tab, give your user a password



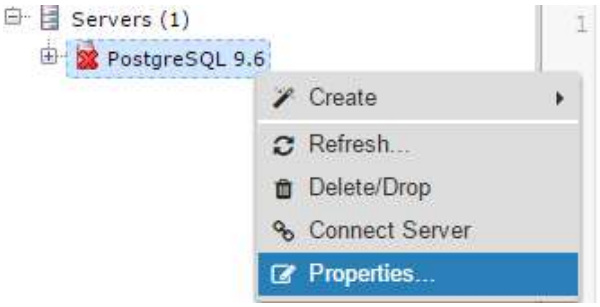
4. In “previliges” tab mark “can login” and umark “inherit rights from the parent roles?” and click save
5. 

Sign in as your user

Please sign in as your user to prevent any unnecessary mistakes, caused by superuser privileges.

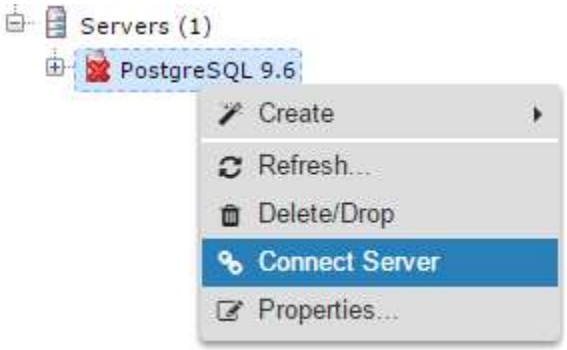
1. Right click on “postgerSQLl 9.6” server and choose “disconnect server”.


2. Right click on “PostgreSQL 9.6” server and choose “properties”



3. On the “connection” tab, change the user from “postgres” to your user name and save

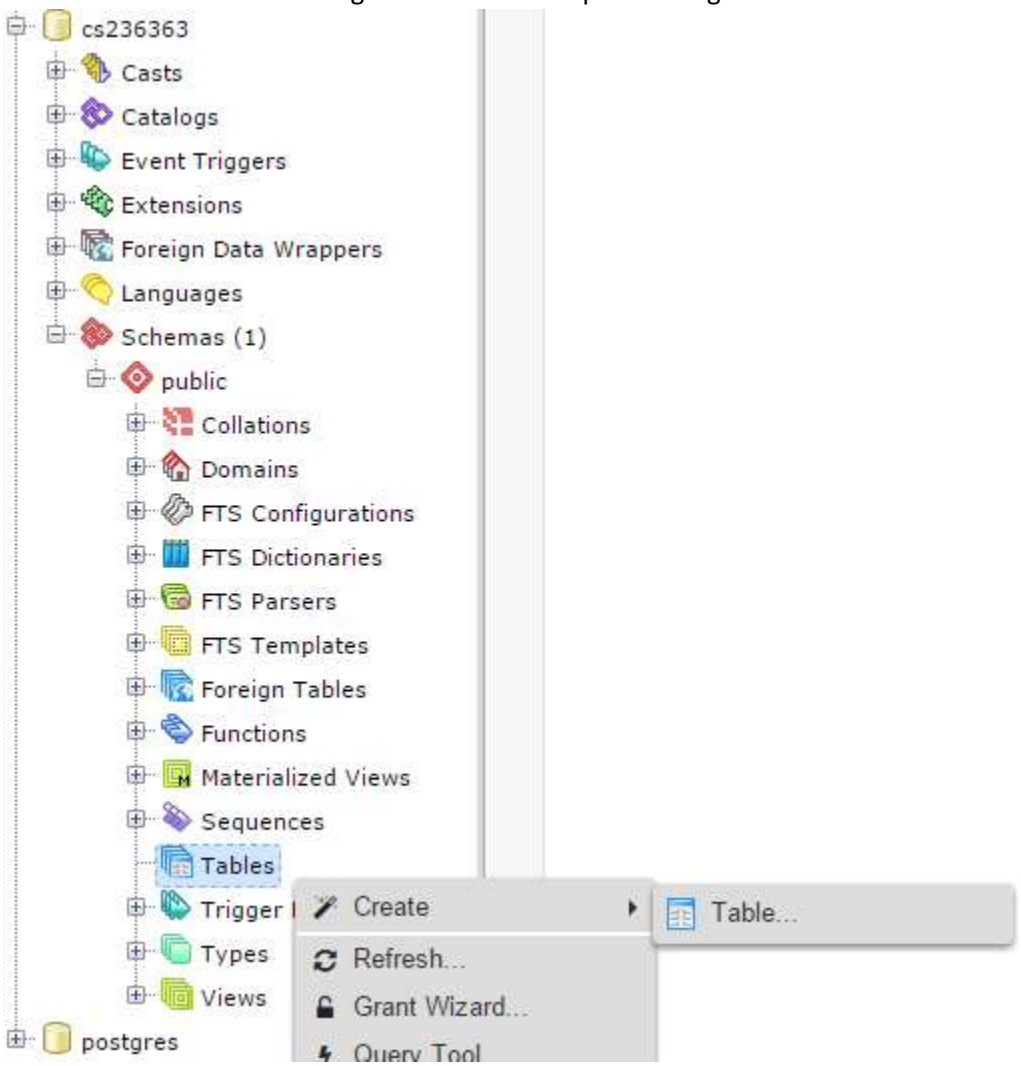
4. Connect to server and enter password if prompted



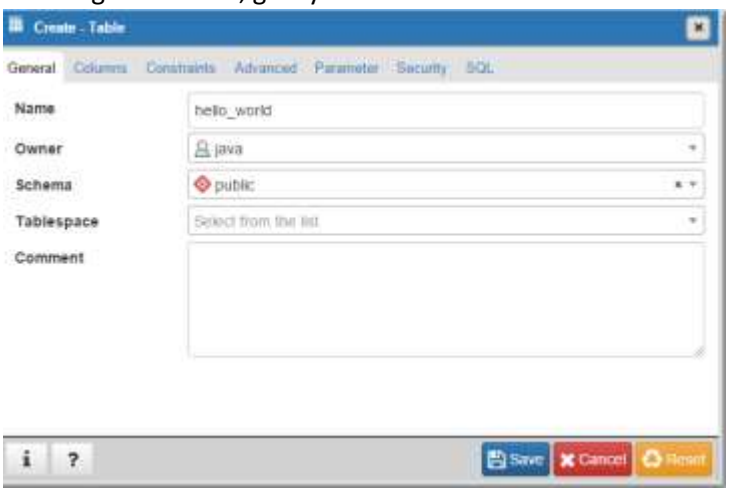
Notice: before you run any DB’s command in Java you must configure the project with your account in postgreSQL as explained in the HW PDF file in section 5.2 (Connecting to the Database using JDBC) – Do it before you try to run the Example.java you got in the zip file.

Hello world

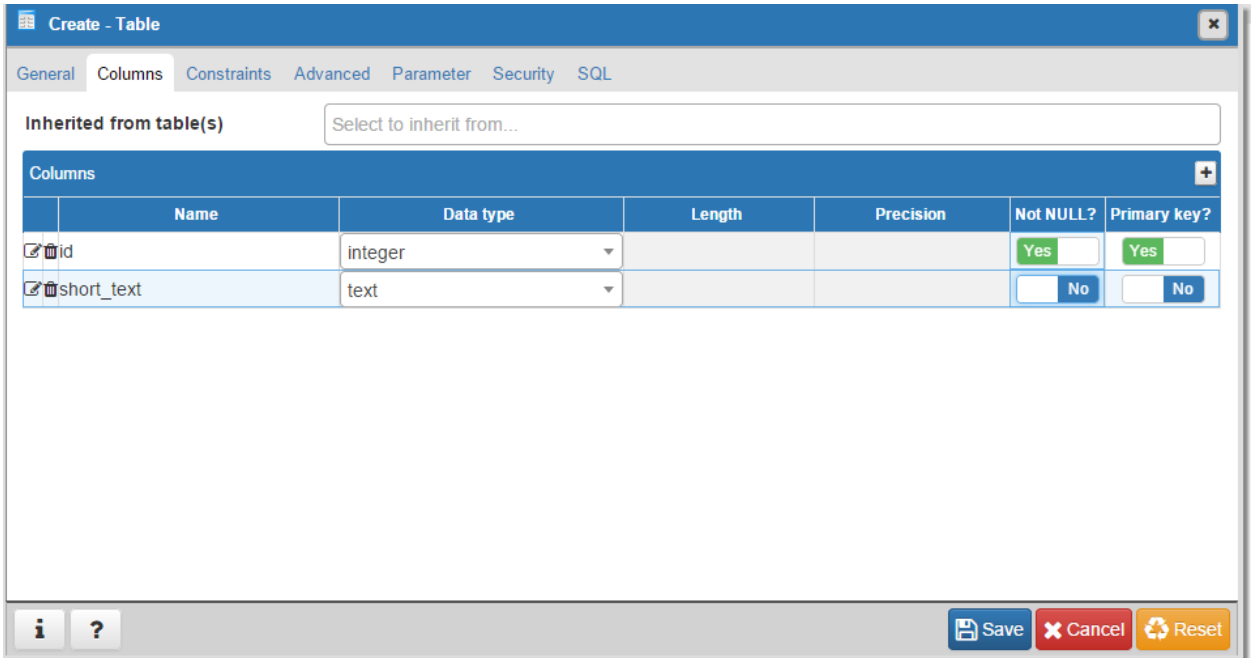
1. On the database “cs236363” go to “schemas”->”public”->right click on “tables”->”create table”



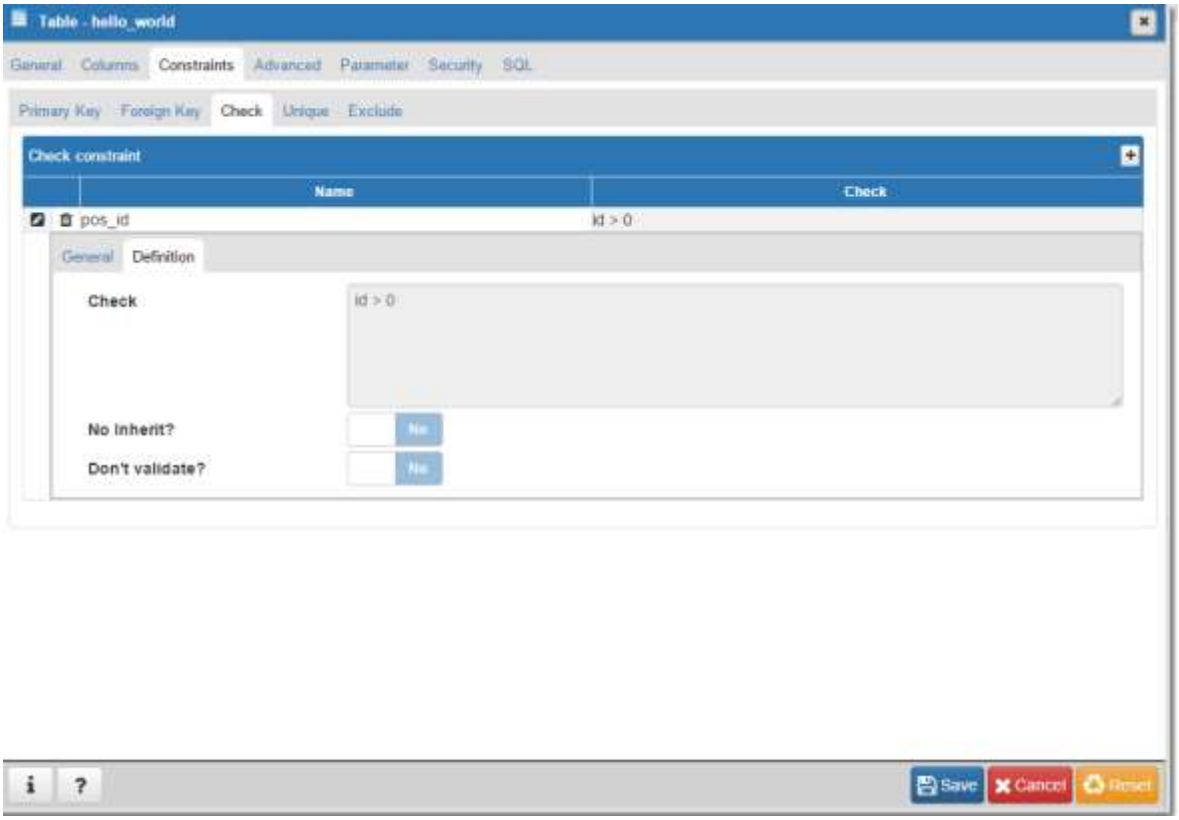
2. In the “general” tab, give your table a name



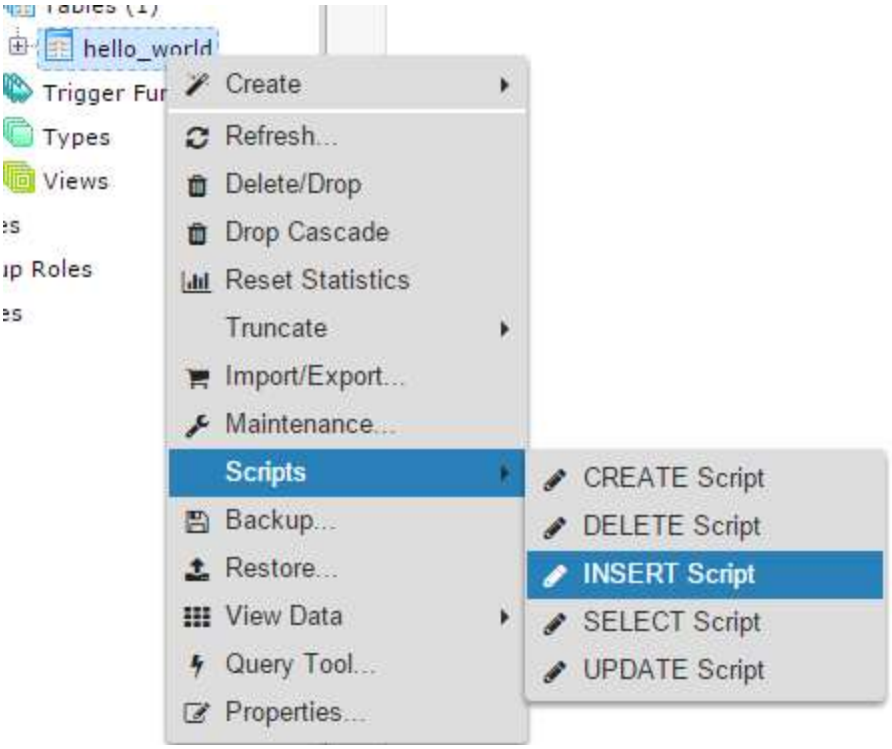
3. Create the columns you like with the “+” button



4. Notice that in the “Constrains” tab you can set everything we talked about in tutorial 1 (foreign keys, unique, check etc..)



5. When done, click save
6. Hint: right click on the table, and choosing scripts, will auto generate a script for you, for example, and insert script



Result:

```
cs236363 on java@PostgreSQL 9.6
1  INSERT INTO public.hello_world(
2      id, short_text)
3      VALUES (?, ?);
```

You just need to replace the "?" placeholders with valid values, and click the flash button  to execute.

```
cs236363 on java@PostgreSQL 9.6
1  INSERT INTO public.hello_world(
2      id, short_text)
3      VALUES (1, 'Hello World!');
```