Welcome! In order to provide you with the best experience we ask that you complete this tutorial before attending the workshop.

Questions: In case you are having any difficulties in following the tutorial please ask directly to our guys at NDS (https://www.facebook.com/NDS-Núcleo-de-Data-Science-FCT-UNL-769904580035480/) through the messsenger chat.

Tutorial

Time to interact with a real database! For this course we will connect to an SQLite database, which is just a file! You can read more about that here (https://www.sqlite.org/onefile.html). For this, we'll need an SQL client, which is a graphical interface to interact with the database. So let's install a SQL client and get started!

Here we're going to use the DBeaver SQL client (https://dbeaver.io/) since it can work with different DBMSs and can be installed in Linux, Mac and Windows machines.

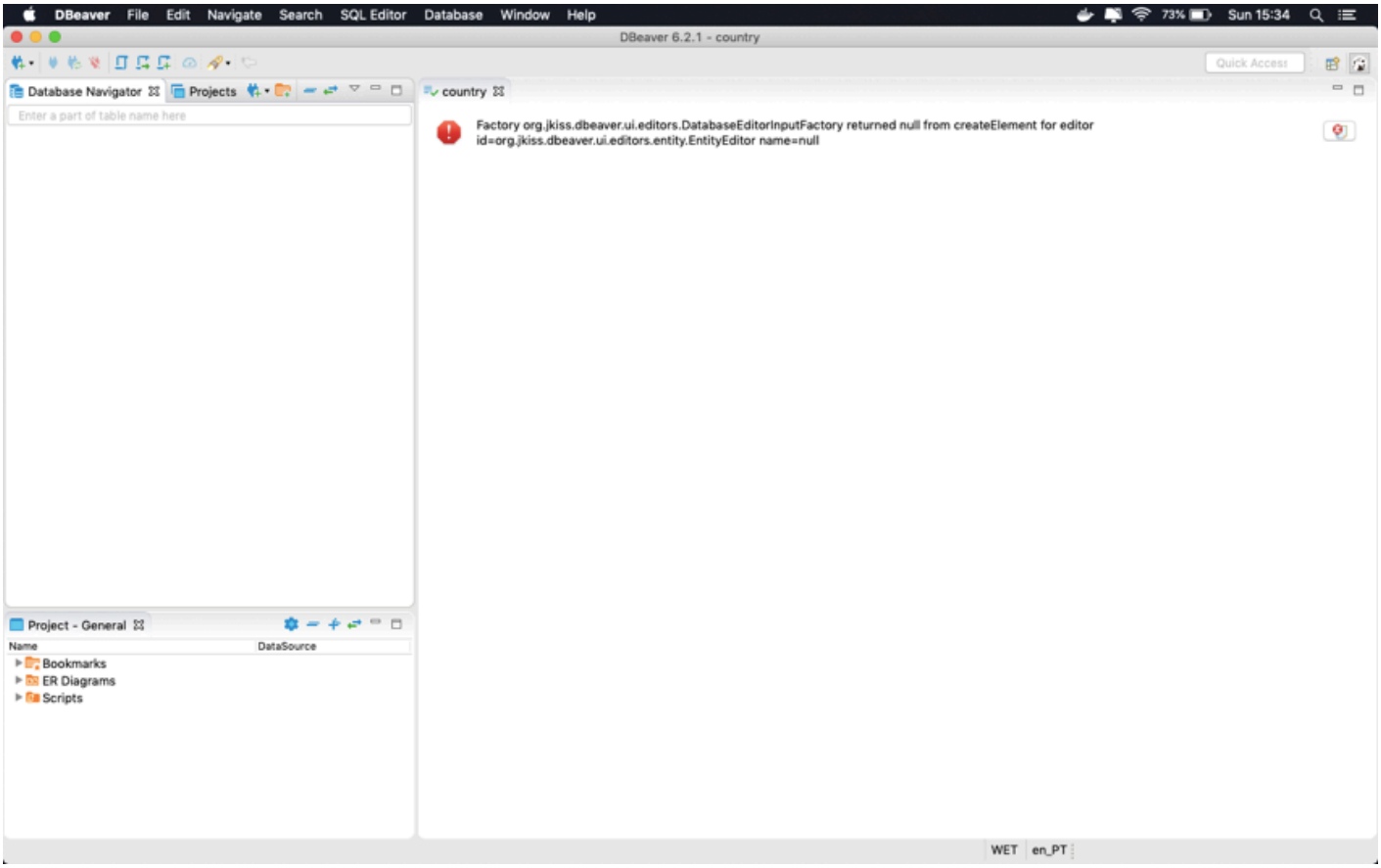
Step 1: Download and Install DBeaver client

Download Link for DBeaver (https://dbeaver.io/download/)

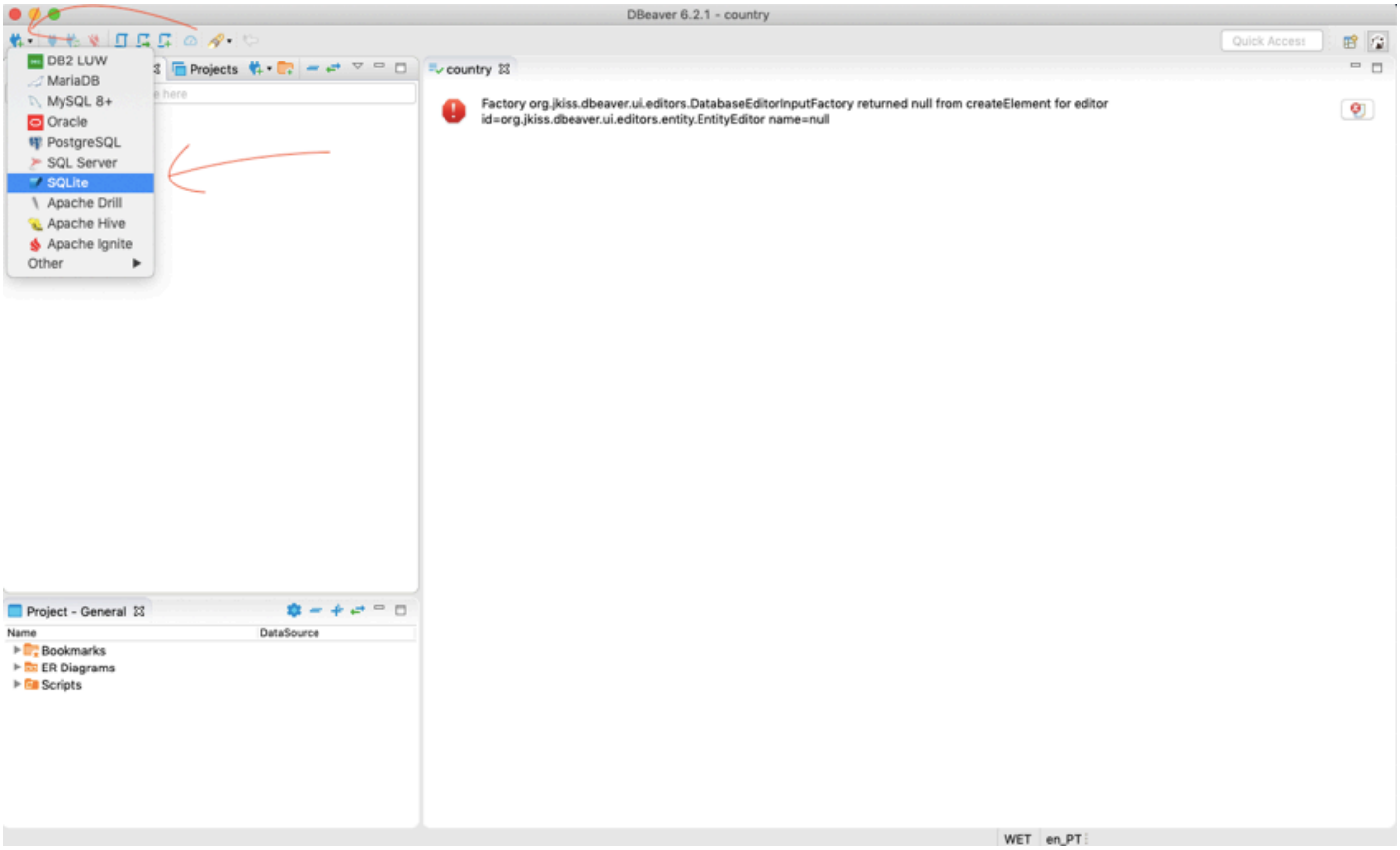
Step 2: Connect to local database

In case you did not notice, we actually have a database in this repository! If you look up in the root of the project for the folder "data" there's a file there named "WorkshopDB.db". Let's connect to it!

If you open your application DBeaver, this should be similar to the main screen you are seeing on your computer:



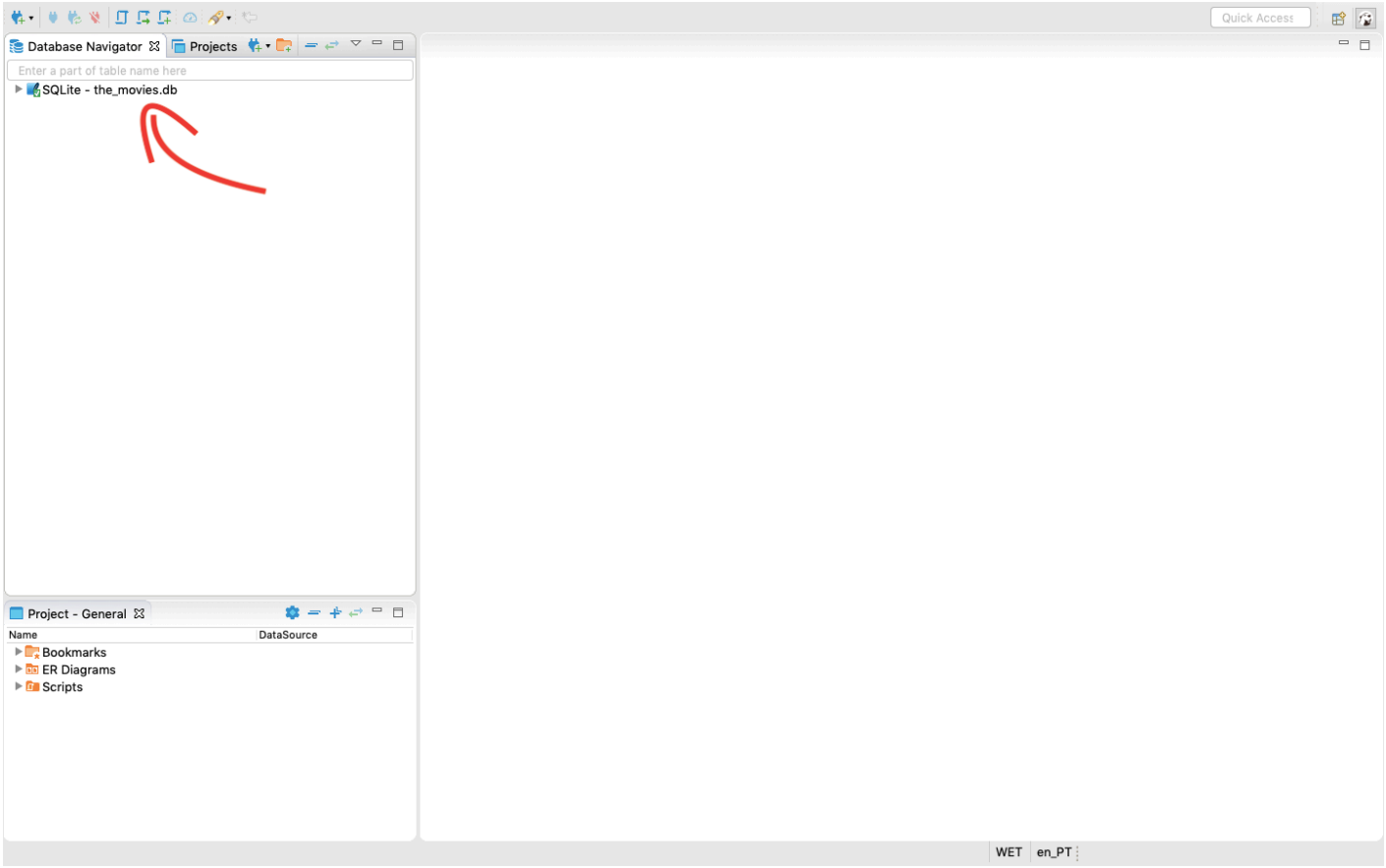
Now we want to create a new (SQLite) connection to our database!



This window should have popped up:

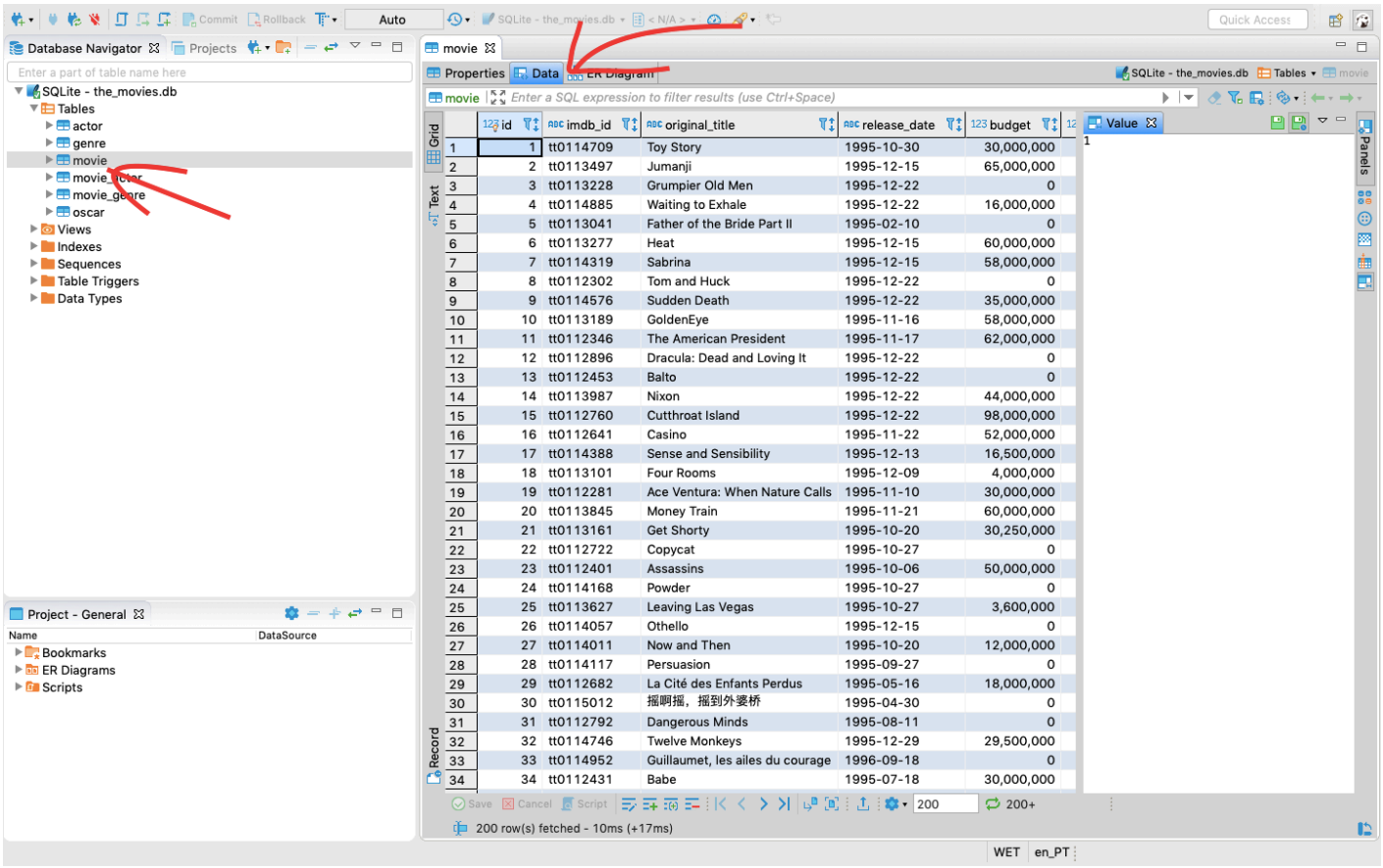
DBeaver is asking you to provide the full path on your computer of the database file. You should now press "browse" and find the the_movies.db file which is inside the workshop folder under "data": (you can see where mine is stored below, but your path is probably slightly different)

You can now press "Finish" and this should be what you get:



Step 3: Investigate the DB

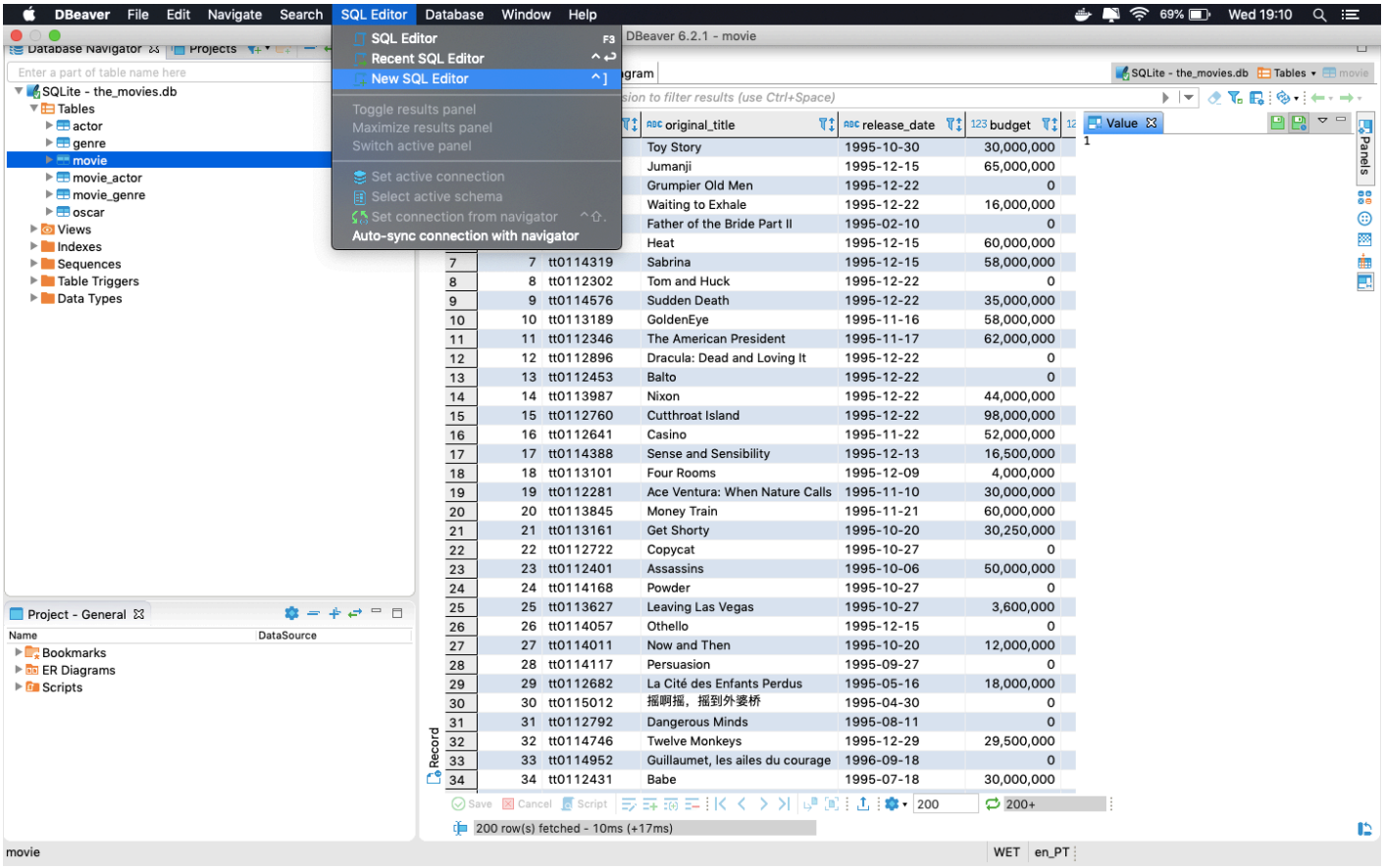
You can now start looking at what's inside our database! We will let you explore this by yourself but here's something that you can do:



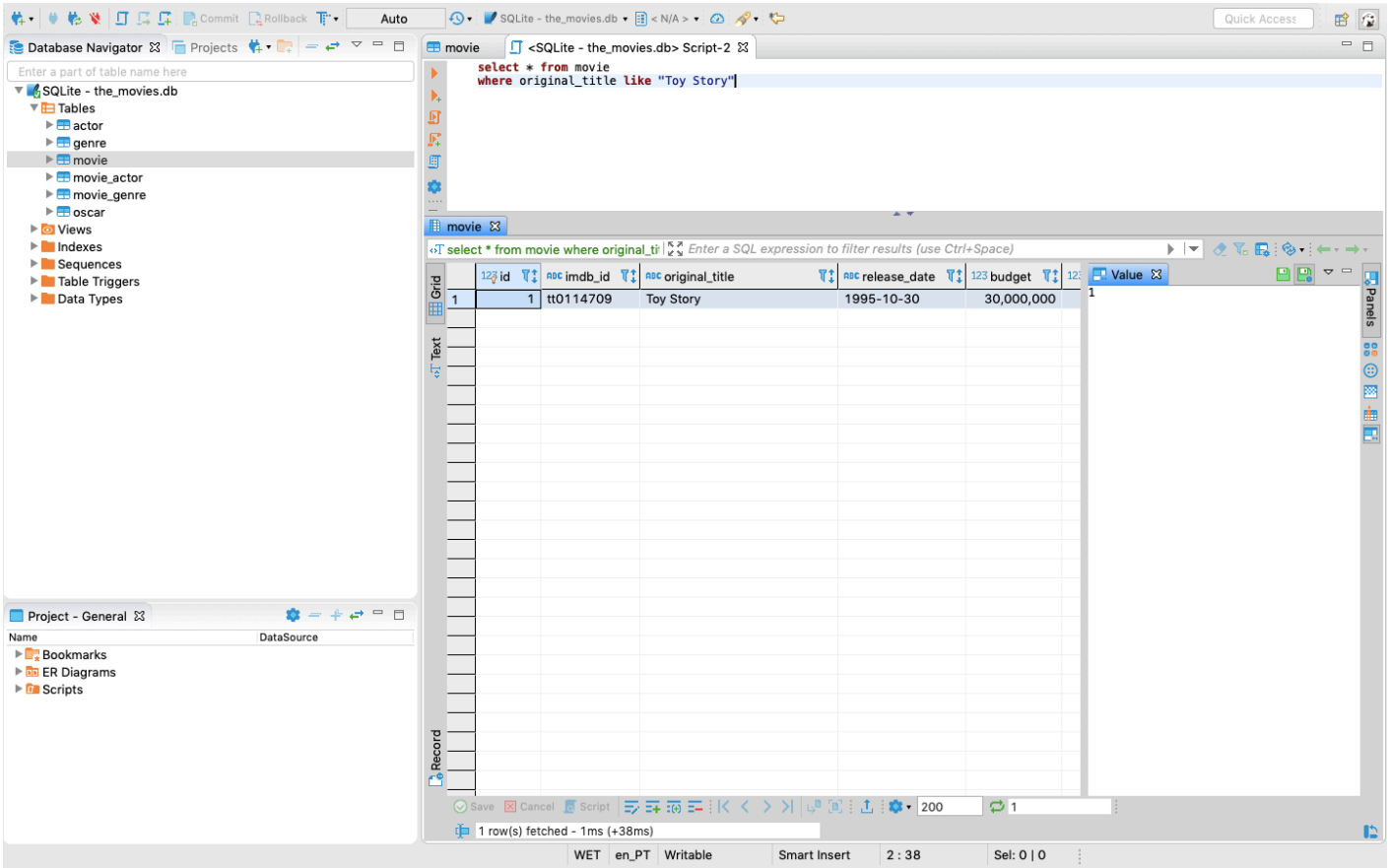
Awesome! So you can actually see what types of columns each table has and even look directly at the data!

Step 4: Test a query

Select "SQL Editor" in the tool-bar and then click on "New SQL editor".



Type "SELECT * FROM movie where original_title like 'Toy Story';" and check that you get the results (press CTRL+Enter or click the orange arrow to execute SQL statements)



Congratulations you have completed the DBeaver tutorial! You may now have your well deserved rest and patiently wait until Wednesday the 16th. See you there!