

PostgreSQL Database Access with DataGrip

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1 Introduction

For this course, you are welcome to use any database client you wish. That said, if you don't have one or have a preference, I recommend the JetBrains product **DATAGRIP**, which is installed on the lab machines.

You can also get a free educational license for DATAGRIP (and pretty much every JetBrains tool) [at the JetBrains web site](#). Although you have to register with an email address, I've found that JetBrains is *very* respectful of your privacy and sends almost no email.

2 Data Source

To access a database in DATAGRIP, you need to create a new *Data Source*. There are several ways to get to this in the UI, but a reliable one is via the menus: **File** » **New** » **Data Source** » **PostgreSQL**.

Figure 1 shows a screen shot of my data source configuration for our DVD rental database. Do what it says.

If your copy of DATAGRIP doesn't have the Postgres driver installed, you'll see a prompt near the **Test Connection** button, offering to install the driver. Do so, then test the connection.

3 View Tables

Once you're connected to the database, you should see an entry for your new data source. Figure 2 is a snapshot of what I see in DATAGRIP. DATAGRIP is kind of aggressive with hierarchy (actually, it's POSTGRESQL that's aggressive), so you have to drill down a bit.

Data Sources and Drivers

Name: **1. Choose a name**

Comment:

General Options SSH/SSL Schemas Advanced

Connection type: default Driver: PostgreSQL **2. Enter host name**

Host: Port:

Authentication: User & Password **3. Enter user name**

User:

Password: Save: Forever

Database: **4. Enter nerds4christ**

URL:
Overrides settings above

5. Click to test **6. Click OK**

Test Connection PostgreSQL 10.18

Cancel Apply OK

Figure 1: Data source configuration

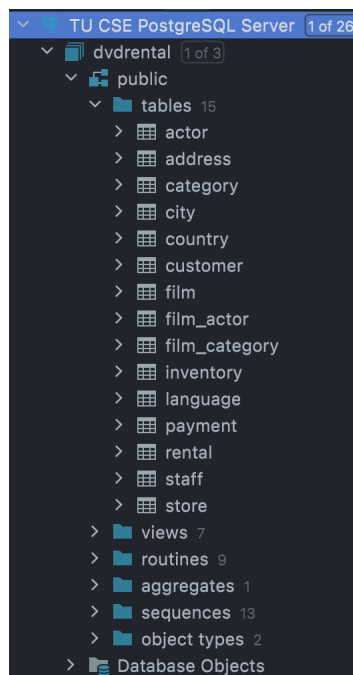


Figure 2: DVD Rental database hierarchy

4 Run Queries

DATAGRIP calls its “query window” a *Console*. There are several ways to get to it. One way:

1. Right click on the name of your data source (**DVD Rental** above).
2. Click **Open Console**.
3. A blank window should appear.
4. Type in a query and hit the triangular green “play” button to execute.