



## Audience

This training is targeted for participants using a SQL reporting system (e.g., Relevant, Microsoft SSRS) with intermediate to advanced knowledge of PostgreSQL and common EHR database tables (Data analysts/programmers with more than 9 months of experience).

## Prerequisites

Participants must have access to a PostgreSQL database (e.g., Relevant) and software for interacting with databases (e.g., DataGrip, DBeaver). Participants should know how to connect to databases and run queries in their software environment.

## Download Materials

Follow the link [here](#) and click  Download at the top left of the webpage to download the training materials. Keep track of where the zip file is saved and unzip. It will contain the following files. The link is set to expire 5/13/22.

### Data Files

- *demo\_breast\_imaging.csv*
- *demo\_clinics.csv*
- *demo\_doctors.csv*
- *demo\_external\_breast\_imaging.csv*
- *demo\_patients.csv*

### SQL Scripts

- *CREATE-DEMO-TABLES.sql*
- *DROP-DEMO-TABLES.sql*

### Hands-On Files

- *Hands-On SQL Exercise.pdf*
- *Code-Along.sql*

## Importing Data Files (~ 5 minutes)

1. Connect to your PostgreSQL database with your software editor.
2. Open the SQL script *CREATE-DEMO-TABLES.sql*.
3. Execute *CREATE-DEMO-TABLES.sql* with your software editor. This will create the demo tables for the data in your database.

Below are 3 different methods provided for importing the CSV files into your database. For any other software, follow the documentation on how CSV files can be imported.

## Relevant

Use the [CSV Upload Tool](#) option 2:

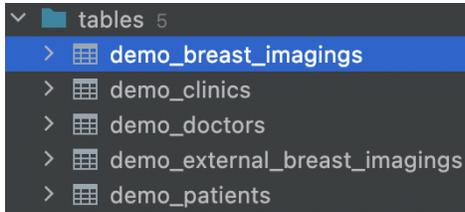
“Append the contents of the CSV file to an existing table in the Staging database.”



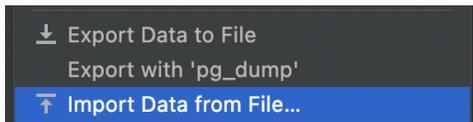
DataGrip 2022.1.1

Use the “Import Data from file...” feature:

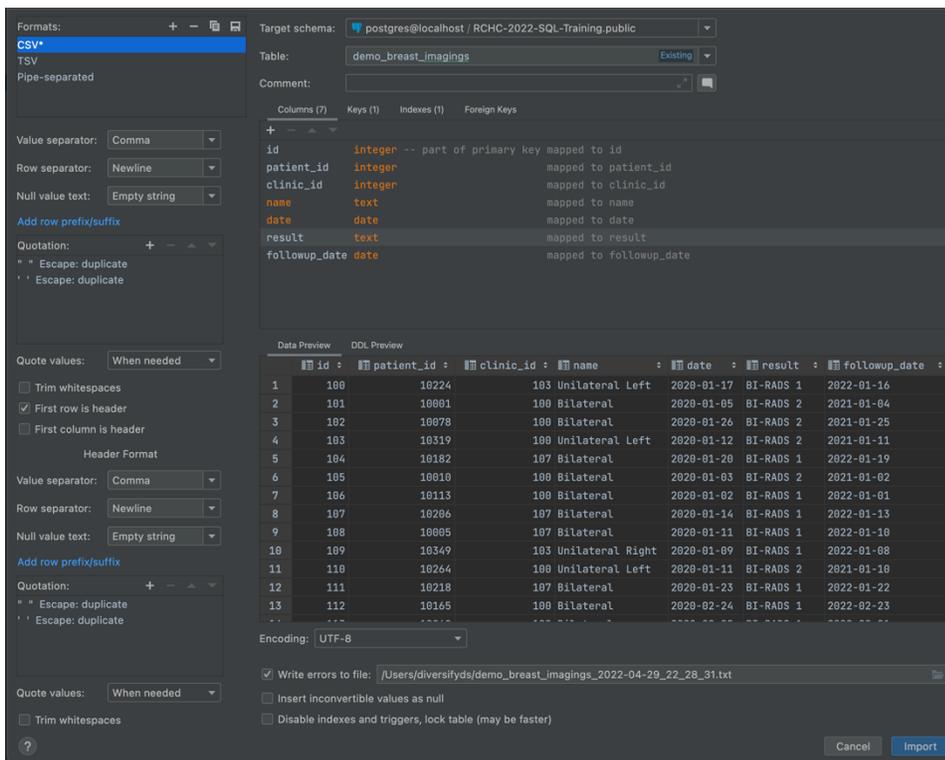
1. Navigate to the **Database Explorer Pane**.
2. Highlight one table at a time. You may need to refresh your database if the tables are not visible.



3. Right-click the highlighted table and choose “*Import Data from File...*” - the **File Explorer** will open.



4. Choose the CSV file associated with the highlighted table chosen - the **Import Dialog** will open.
5. Select “**CSV**” under Formats, check “*First row is header*”, and then click “**Import**”. The data will be loaded into the table in your database.



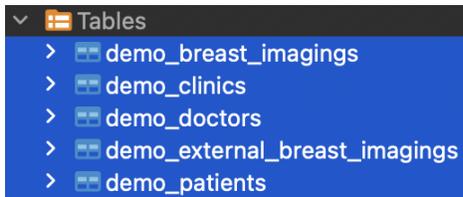
6. Repeat Steps 1-5 for the other tables.



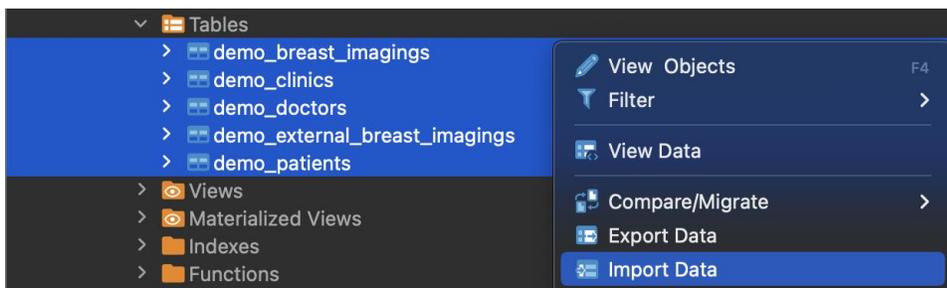
[DBeaver 22.0.3](#)

Use the “Import Data” feature:

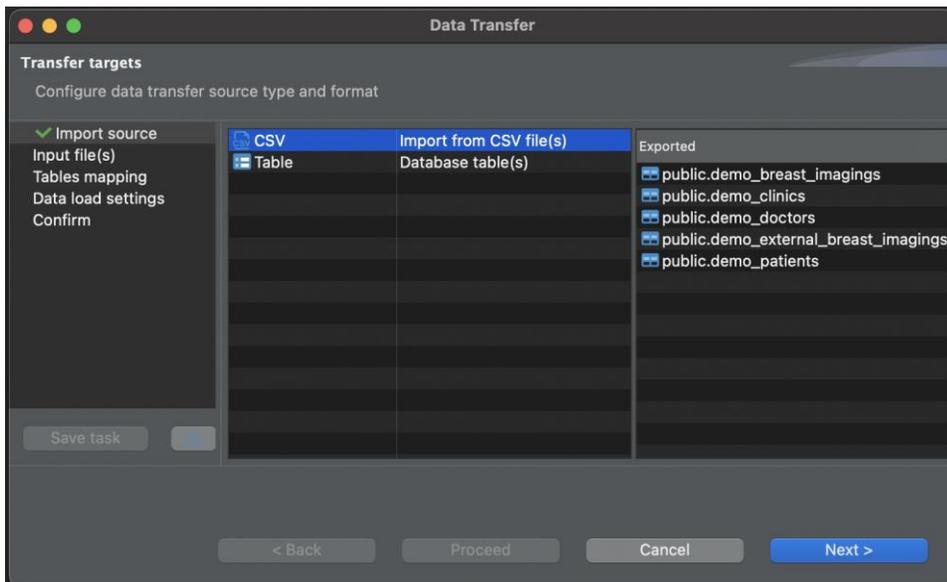
1. Navigate to the **Database Navigator** pane.
2. Highlight all the tables created in your database.



3. Right-click all the highlighted tables and select “*Import Data*” - the **Data Transfer Dialog** will open.

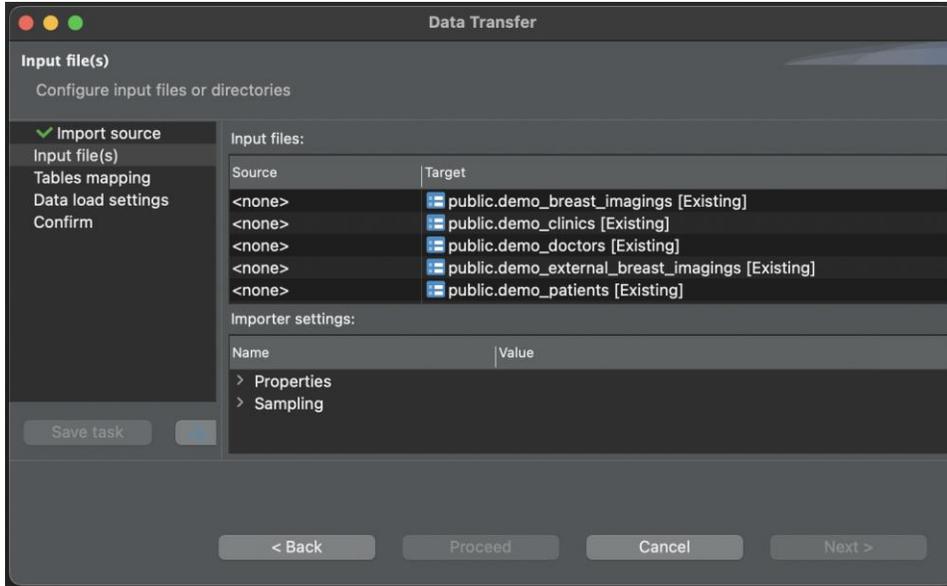


4. Highlight “*Import from CSV File(s)*” and then click “*Next >*”.

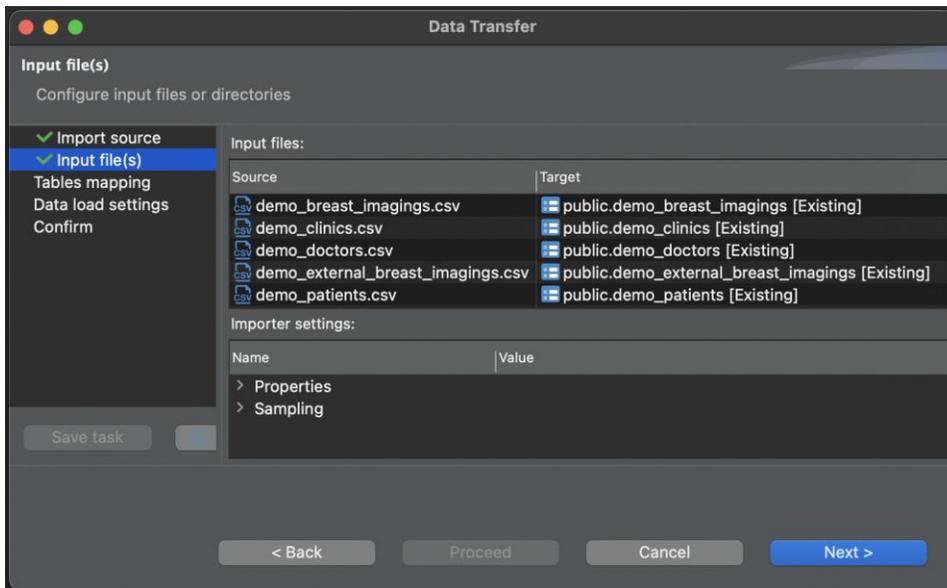




5. Click through each “Source: <none>” under Input Files one at a time - the **File Explorer** will open and prompt you to choose a CSV file associated with the Target table. Choose the CSV file associated with the target table.

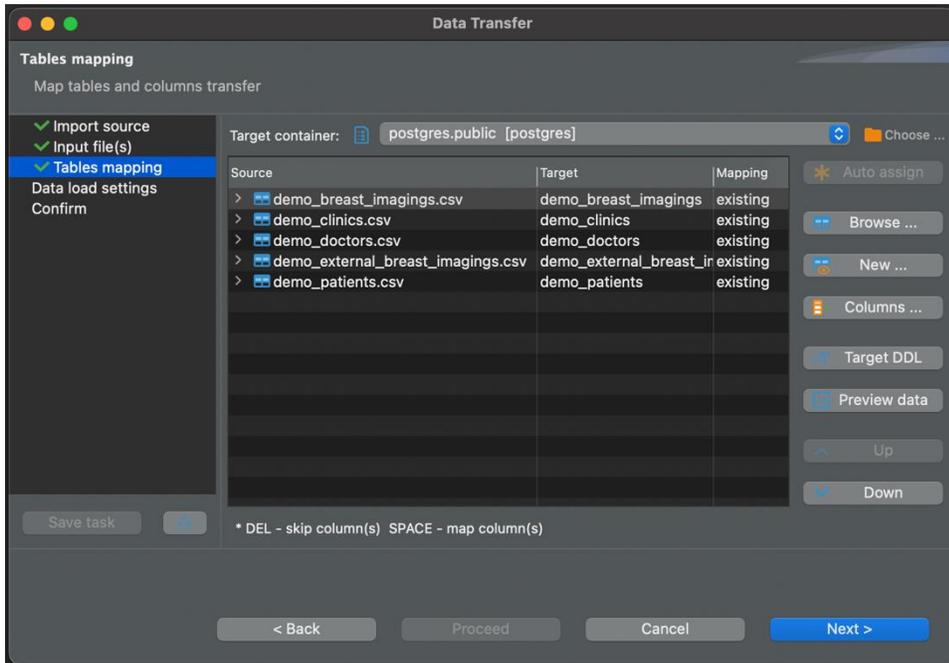


6. Once all CSV files are selected, click “Next >”.

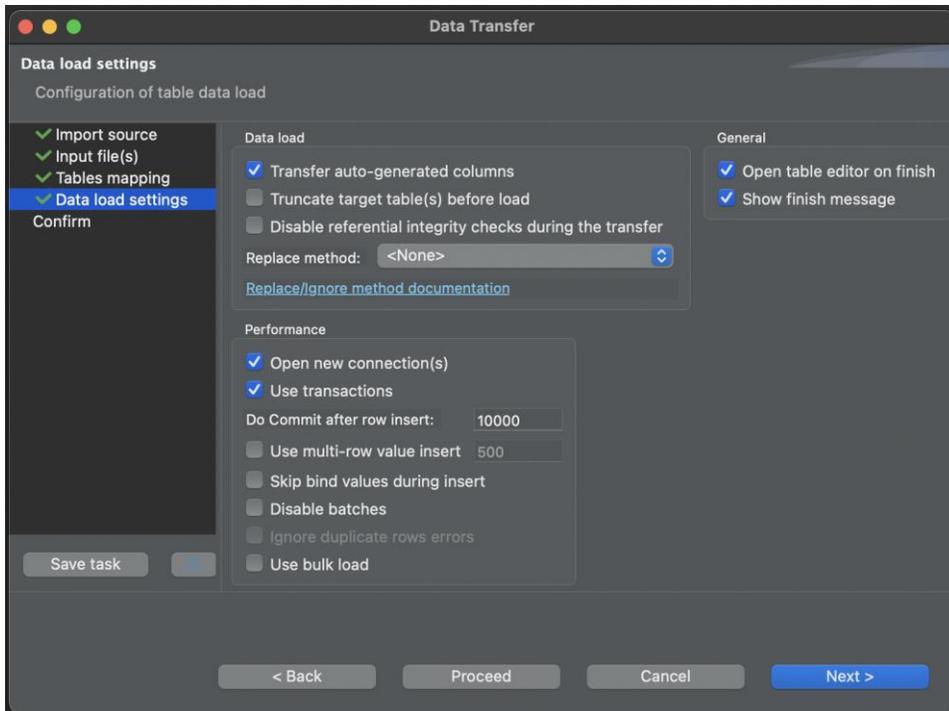




7. Click "Next >".



8. Click "Proceed".



9. The data will be loaded into all the tables in your database.



## Hands-On

On the day of the training, open the `Code-Along.sql` in your software environment. This is where you will write your queries.

There will also be the *Hands-On SQL Exercise.pdf* which will be used for the training.

## Data Clean Up

After the training is over, be sure to delete the demo tables from your database.

1. Open the SQL script `DROP-DEMO-TABLES.sql`.
2. Execute `DROP-DEMO-TABLES.sql`.