Web Based Dashboards

Module # 5 (Create Tables and Load Data)

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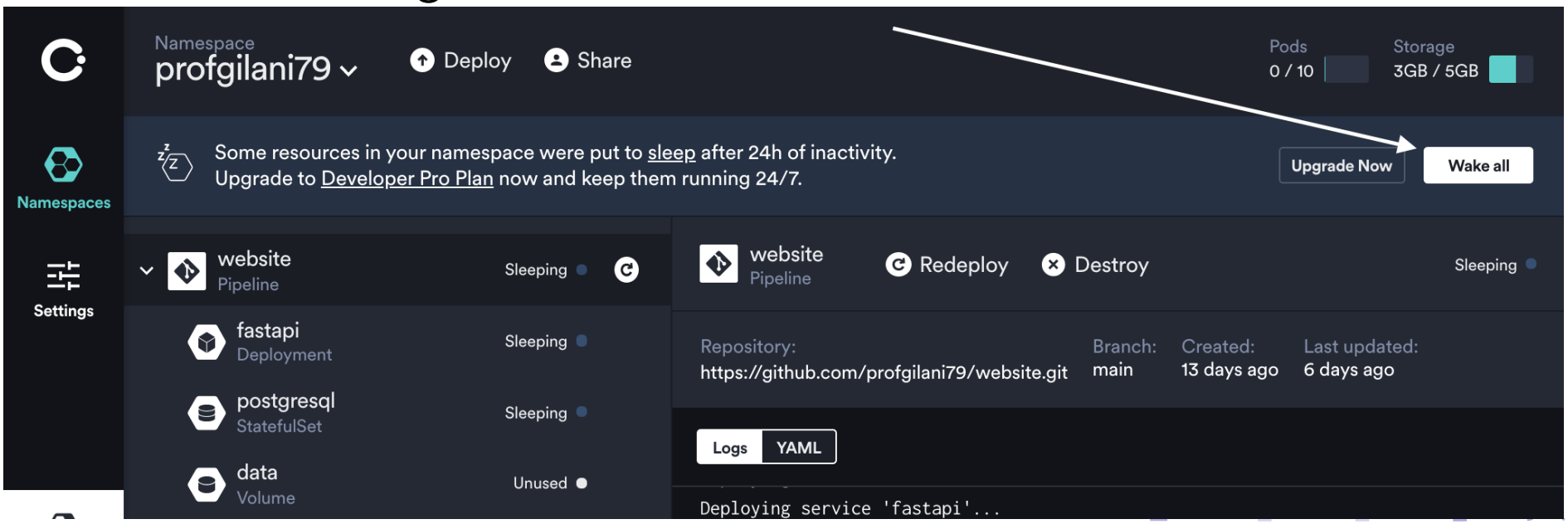
Uploading Data to DataBase

At this point, we are ready to start uploading our data to our virtual database. The dashboard we will be making, will be using the NFL 2020 Salary data and performance data for football players (American football, not soccer), to analyze how successful teams are at training and utilizing their players. (For those using their own data, feel free to use your data-sets.)

Before we connect to the database, make sure that our okteto application is awake and running:

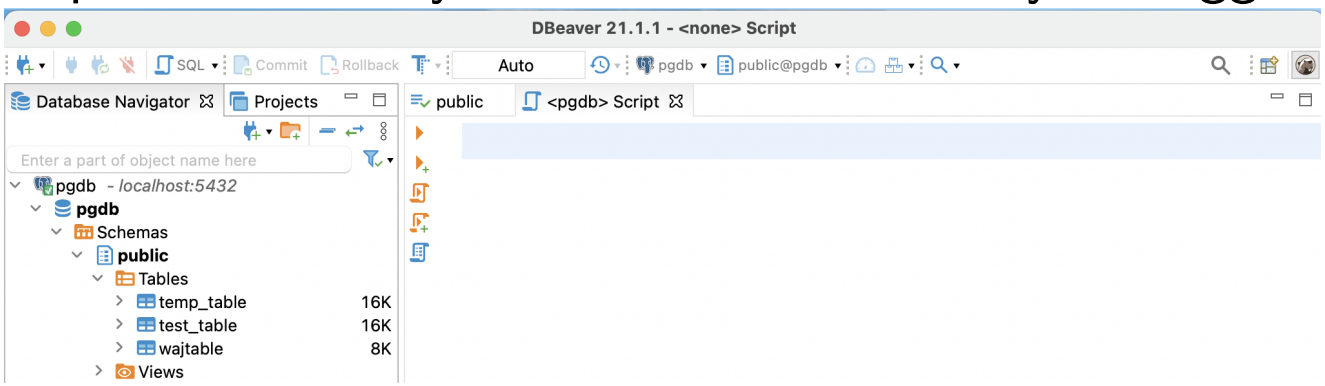


Connect to database

With the web application running, forward the Okteto database to your computer:

```
wajgilani@1053macbooks-MacBook-Pro website % kubectl port-forward service/postgresql 5432:5432
Forwarding from 127.0.0.1:5432 -> 5432
Forwarding from [::1]:5432 -> 5432
```

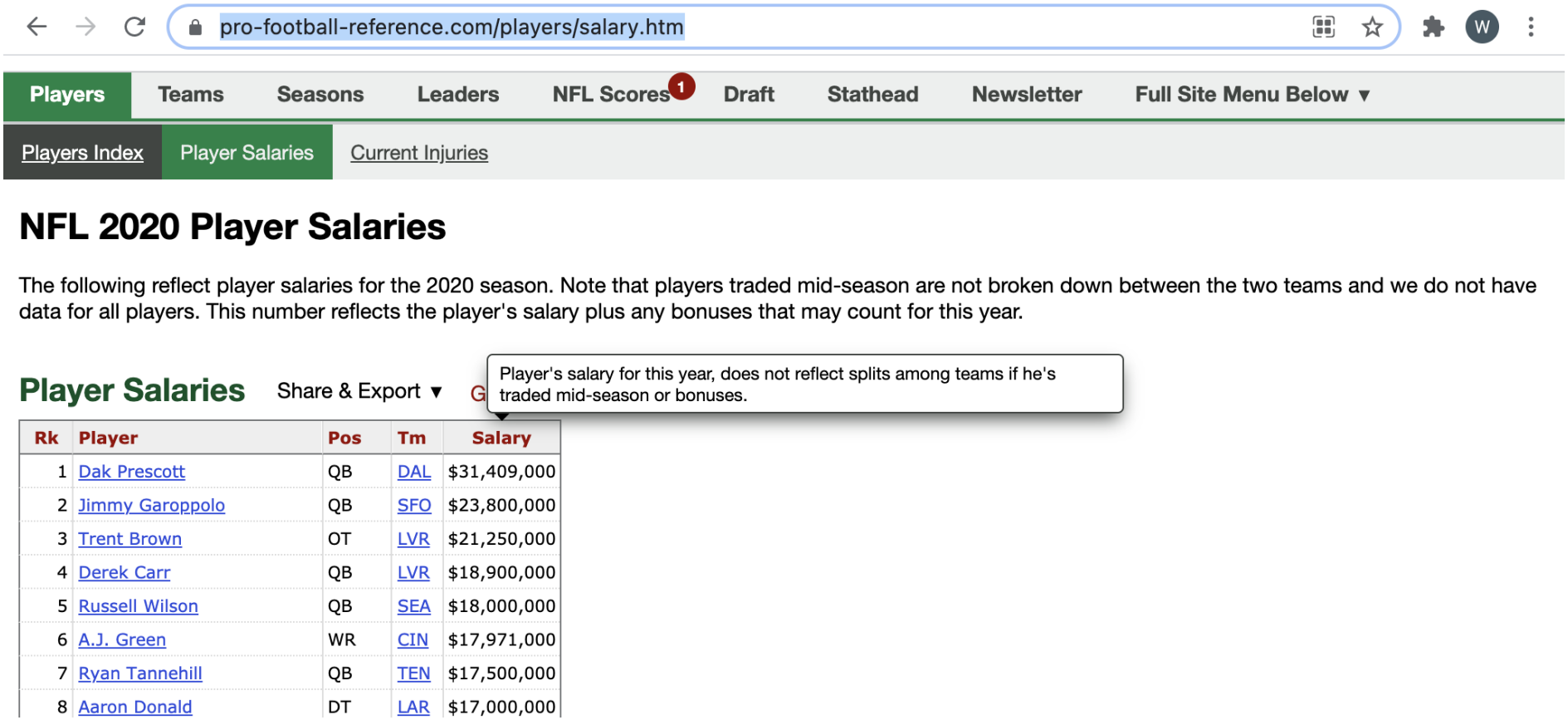
Open DBeaver, you should automatically be logged in:



Notice the tables that you created are still there.

Upload Data into DBeaver

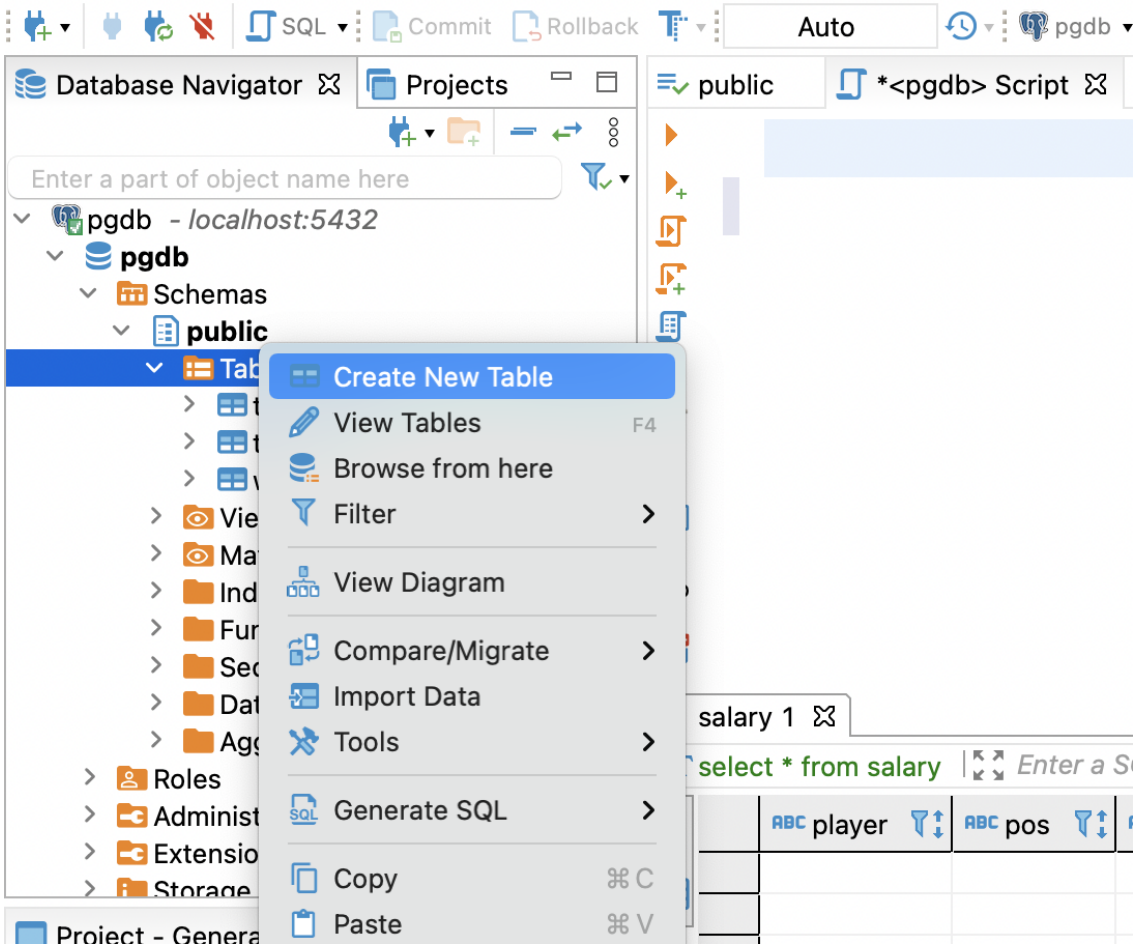
The website: https://www.pro-football-reference.com/players/salary.htm has the initial data that we want to load into our database:



On canvas the csv file, salary.csv, has already been created for use (in an appendix module I show you how I did it).

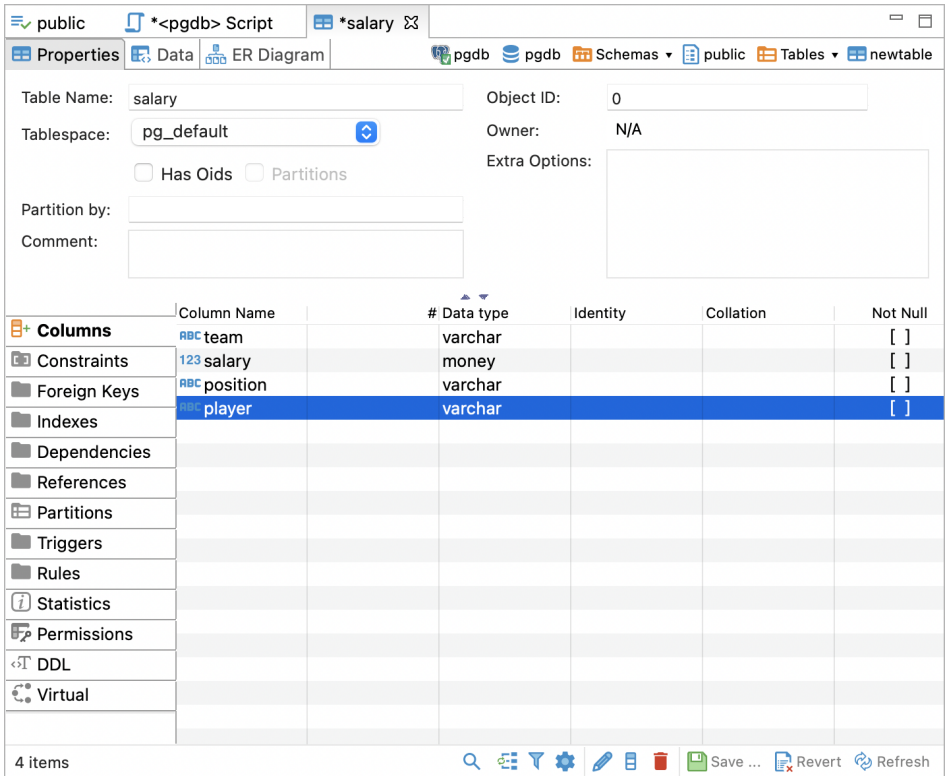
Upload Data into DBeaver (Continued)

You can create a new table from a new data source, but if the data is not uniform, then DBeaver, might have a difficult time using the right data-type for each column, this is why we will create our table first, then we will upload the csv file into it.

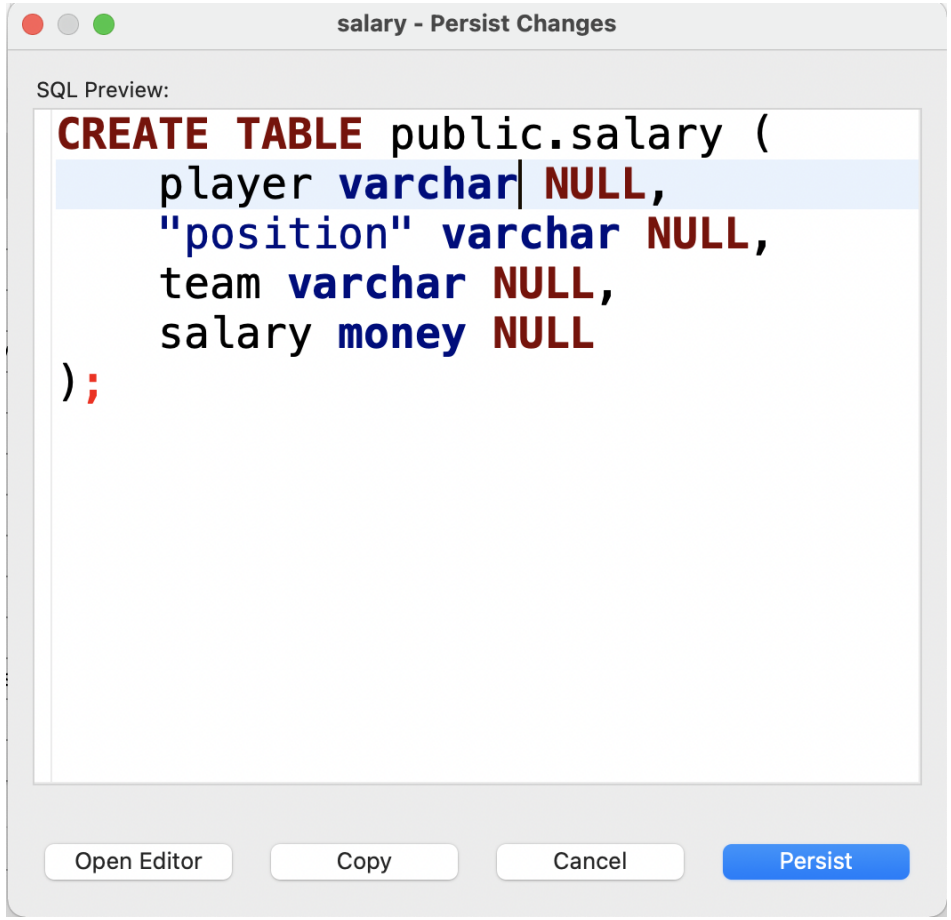


Right-click on Tables, and select Create New Table

Upload Data into DBeaver (Continued)

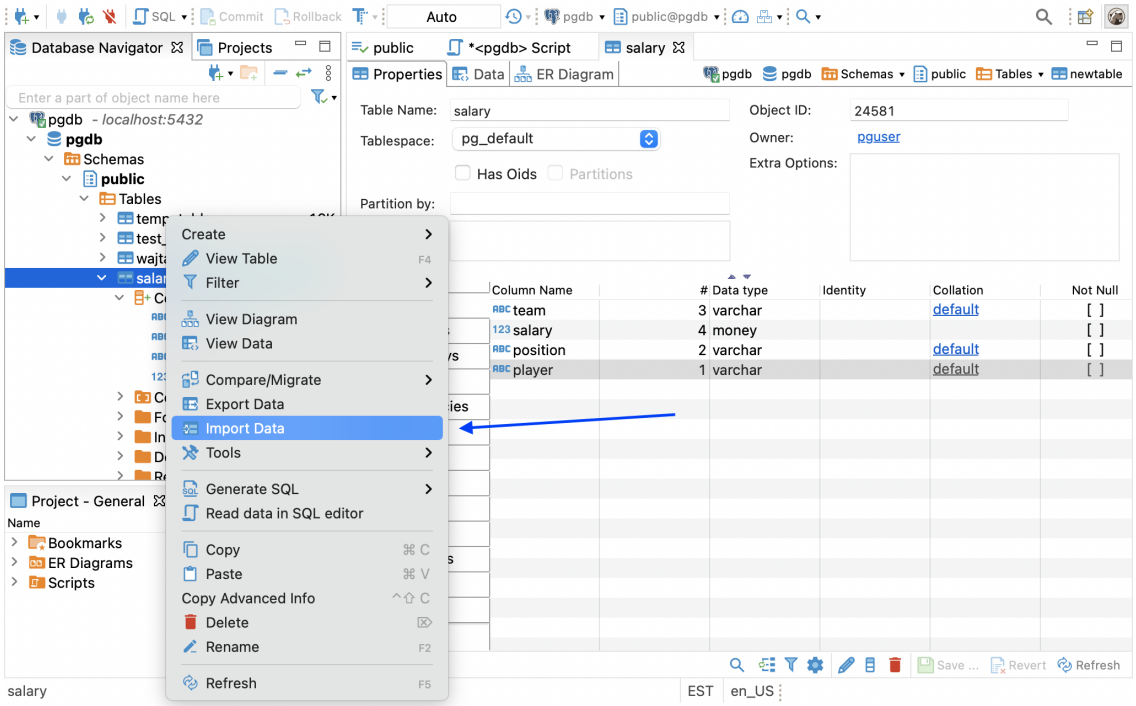


Write the names of the columns and select the corresponding data-types, then click on Save.

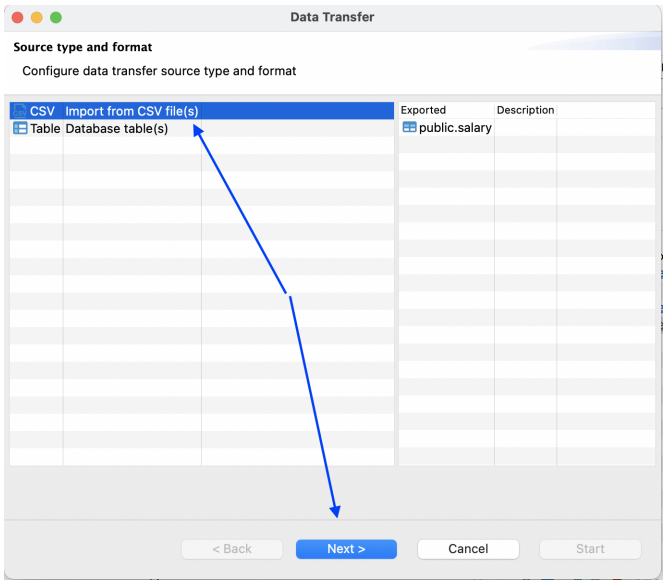


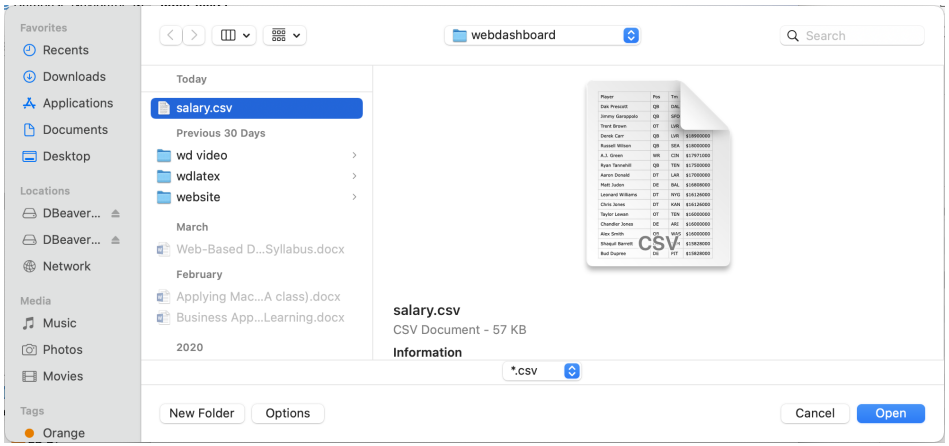
When the SQL Preview comes up, select Persist

Upload Data into DBeaver (Continued)

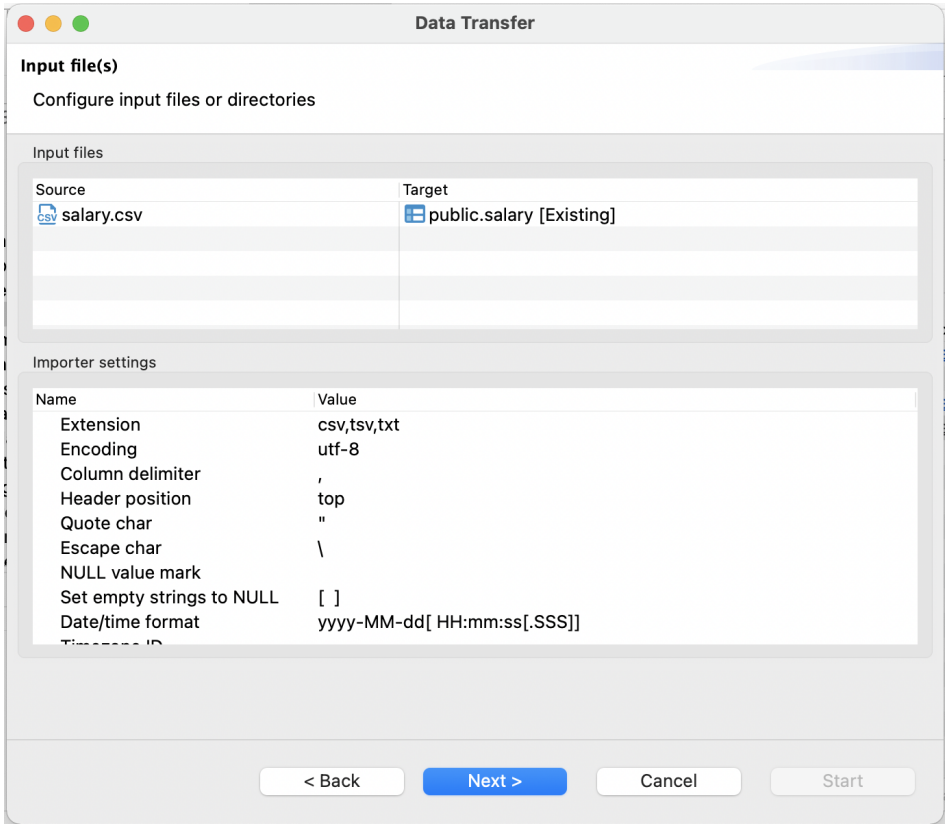


Right-click on salary, and select Import Data. The Data Transfer will pop-up (bottom-left), make sure CSV is selected and then click Next. The file founder will open up (bottom-right), select the file salary.csv and then click Open.

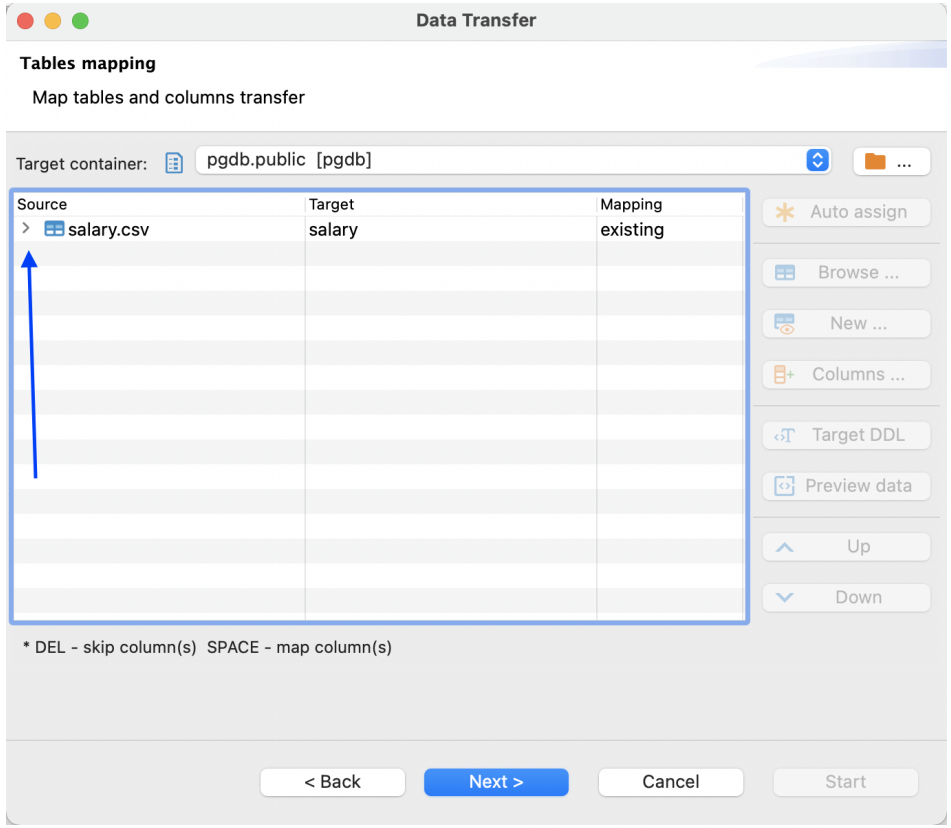




Upload Data into DBeaver (Continued)

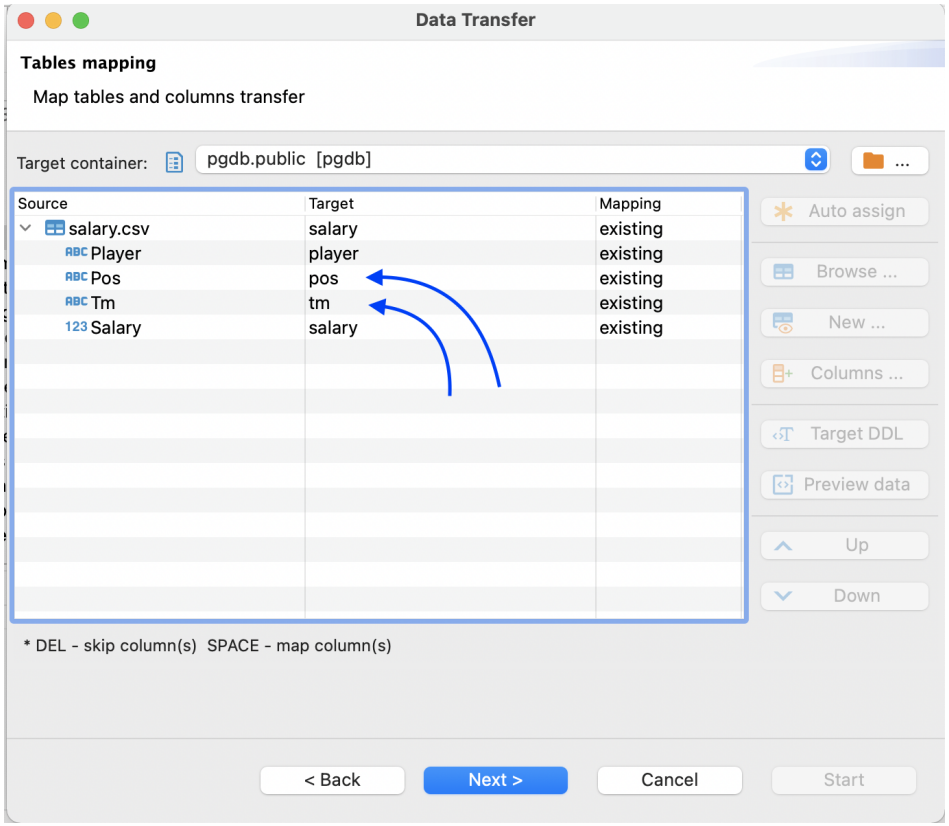


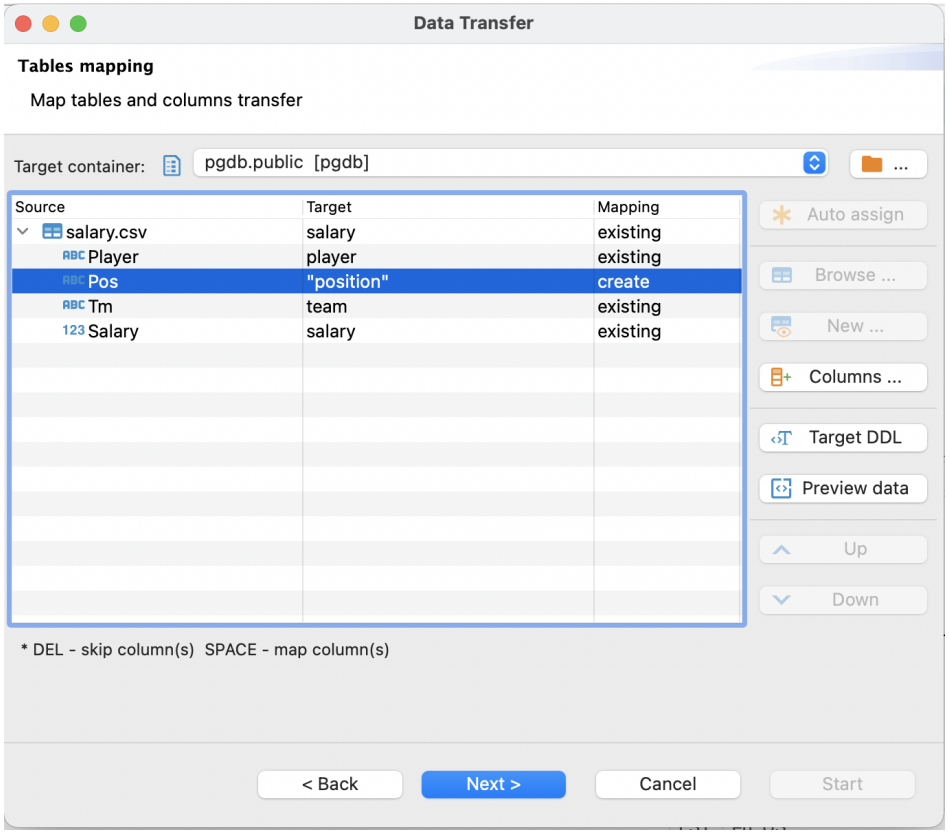
The Data Transfer window will now look like this. Click Next, and the Tables mapping will pop-up (top-right image).



Tables mapping is showing the source of the data (salary.csv) and the destination table salary. Click on the arrow to the left of the salary.csv.

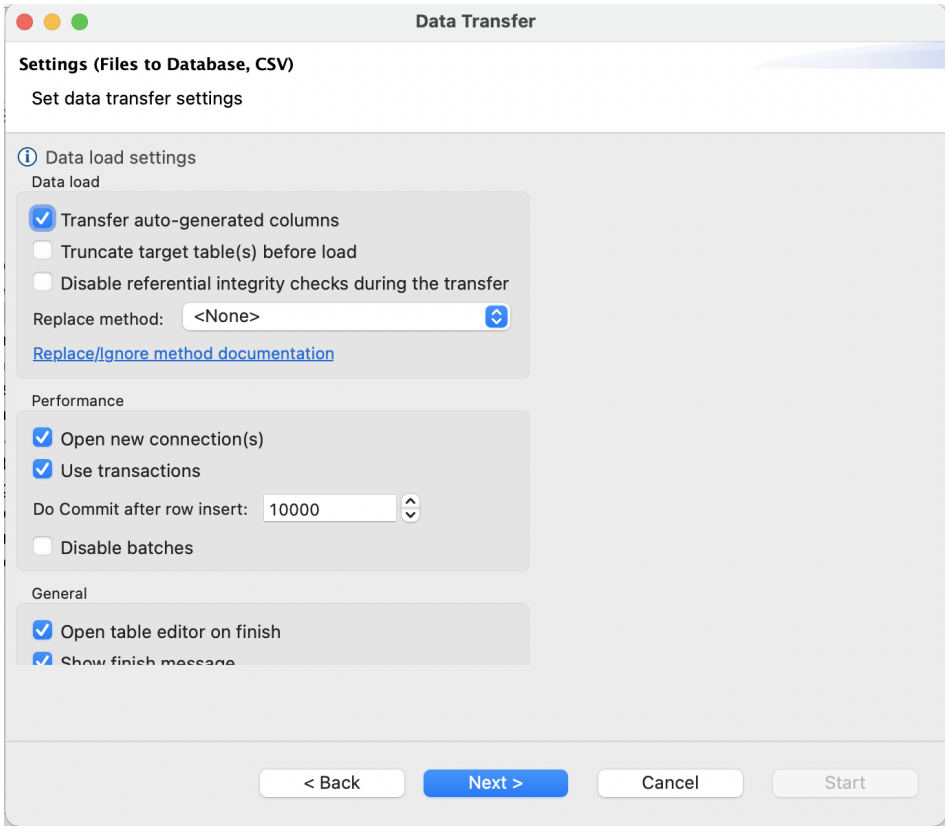
Upload Data into DBeaver (Continued)

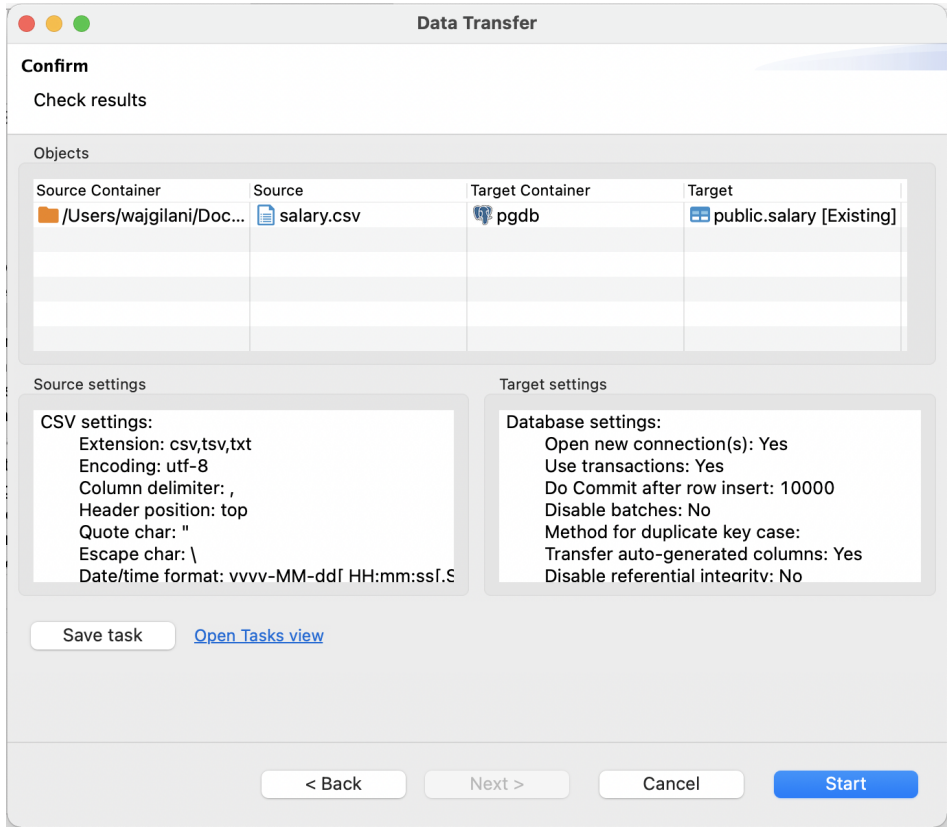




Recall that we named our table columns: salary, player, position, and team. We need to select the correct column names. In my screen, DBeaver was being a little buggy as position should not be in quotes, as it is already created, but when Next is clicked it will fix itself.

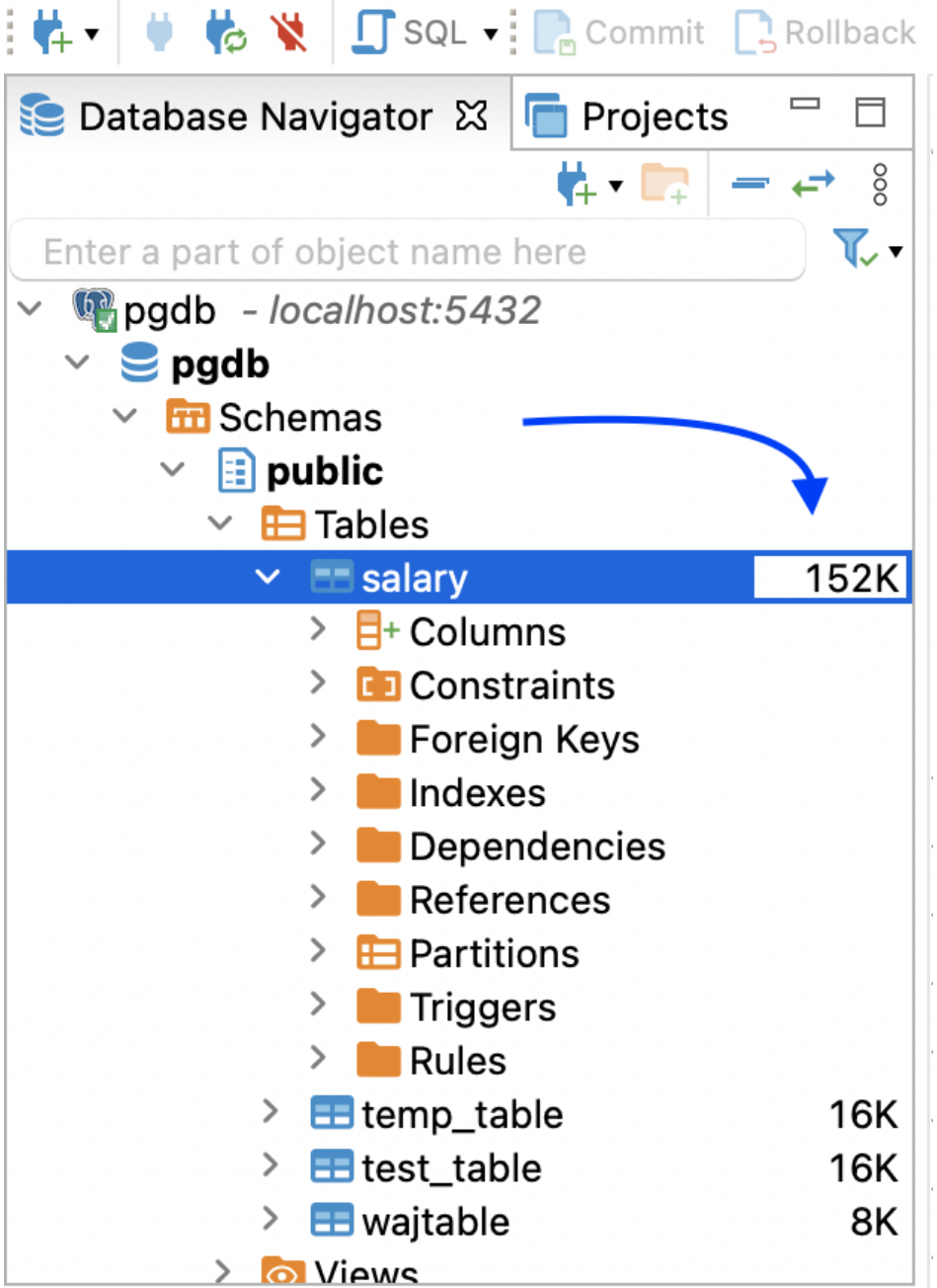
Upload Data into DBeaver (Continued)





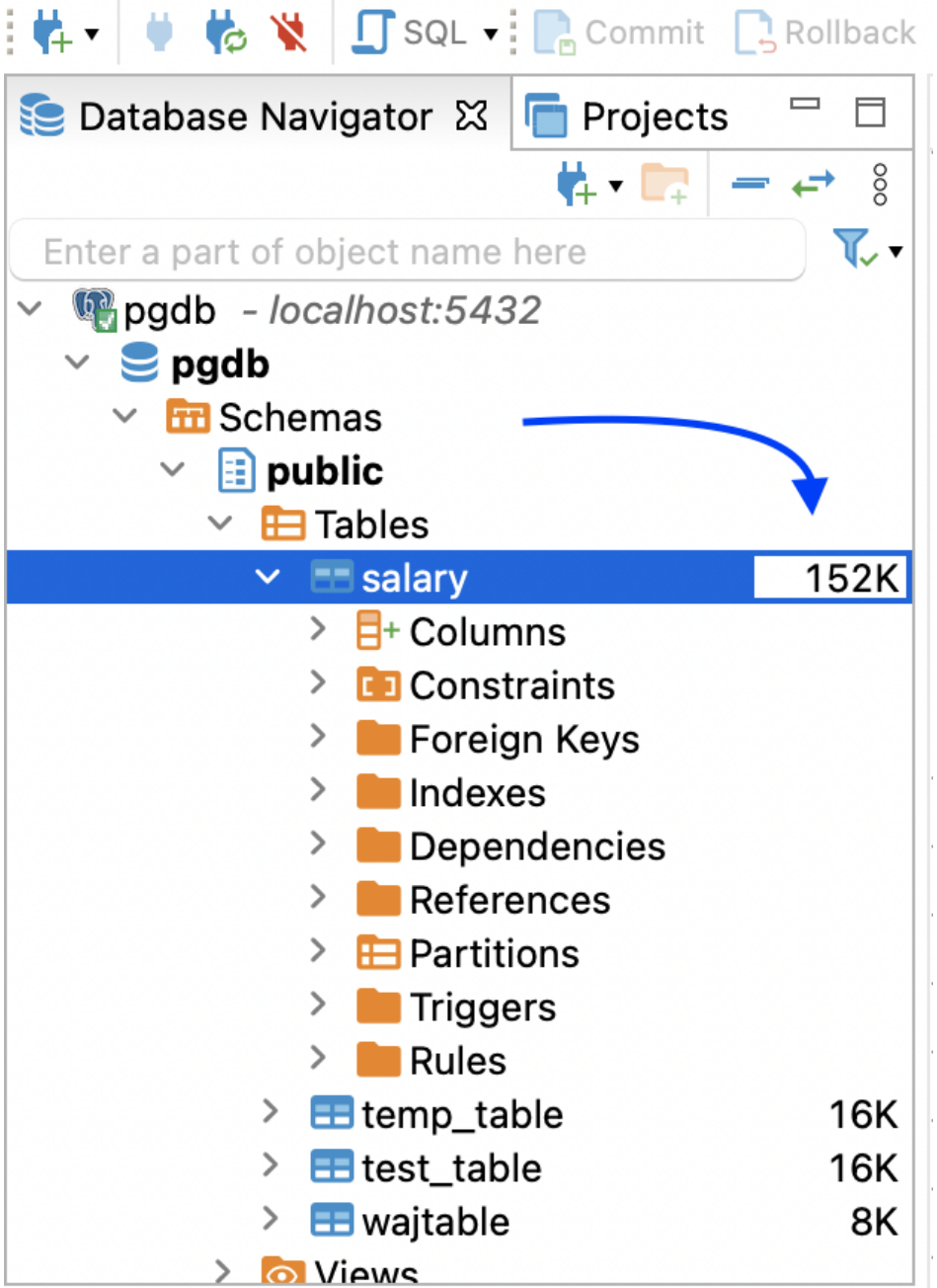
Click Next for the left window, and then click Start, for the window on the right, to start the upload.

Upload Data into DBeaver (Continued)



If everything worked correctly, you should see an increase in size of the table, in my case, 152k.

Upload Data into DBeaver (Continued)



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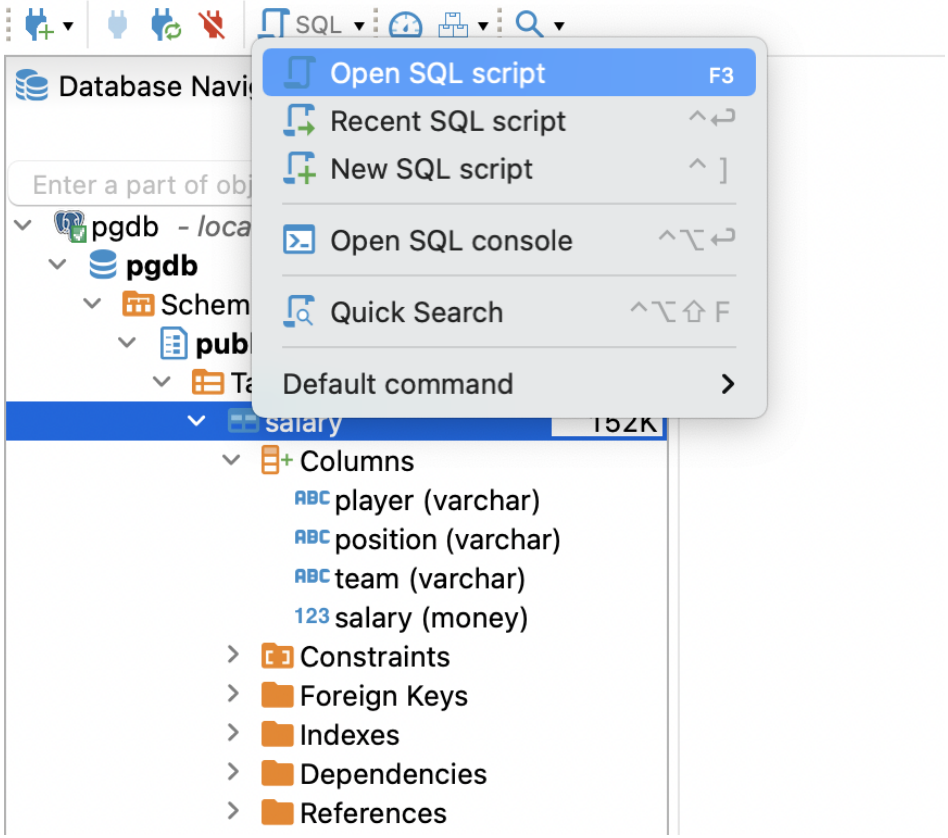
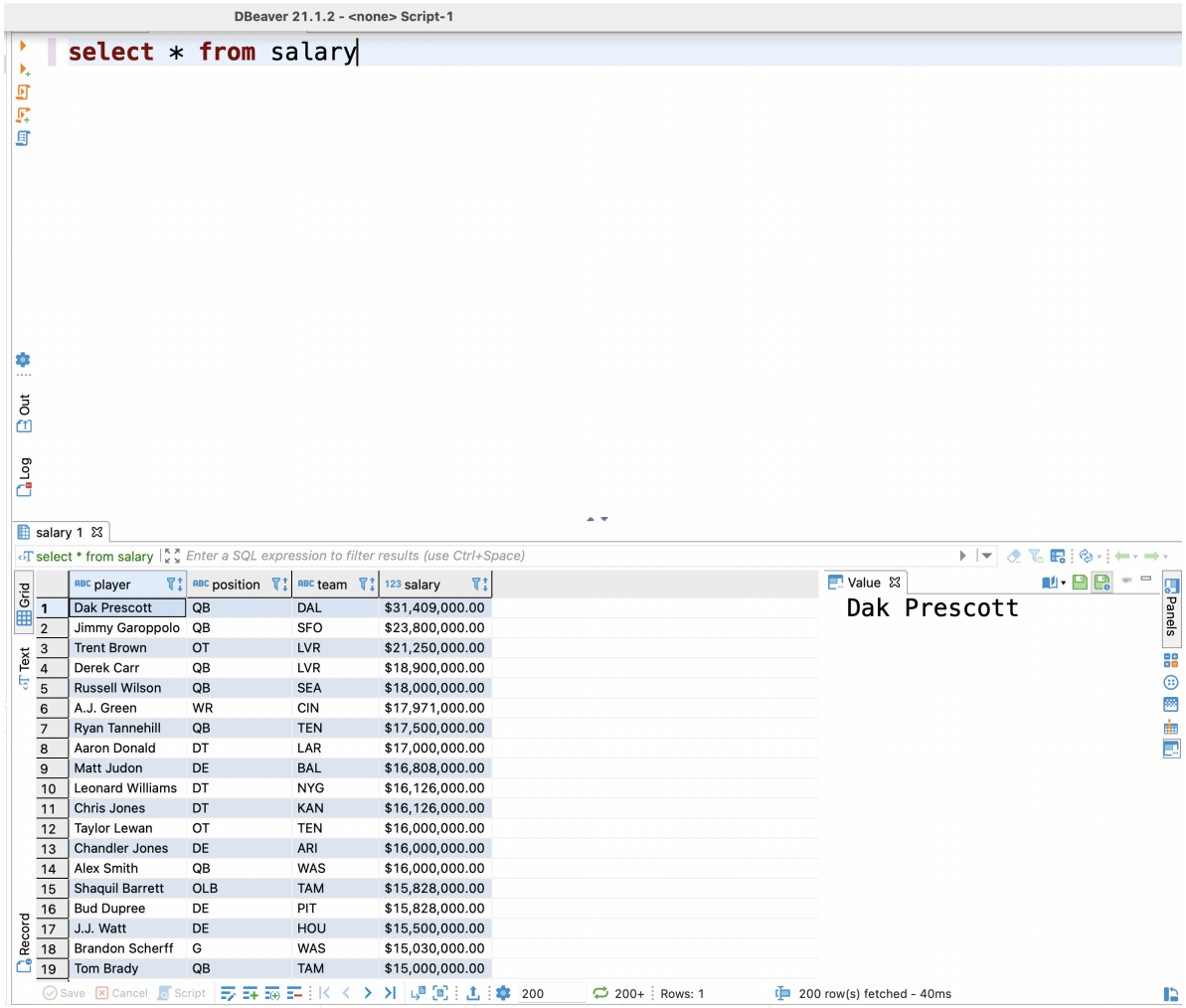
Verify The Data



We will now verify that the data has been loaded up, open up a new SQL script file.

Verify The Data



Type in:

```
select * from salary
```

Then press control + enter

You should now see th data from the csv file in the table.