

# Training with Northwind and DBeaver

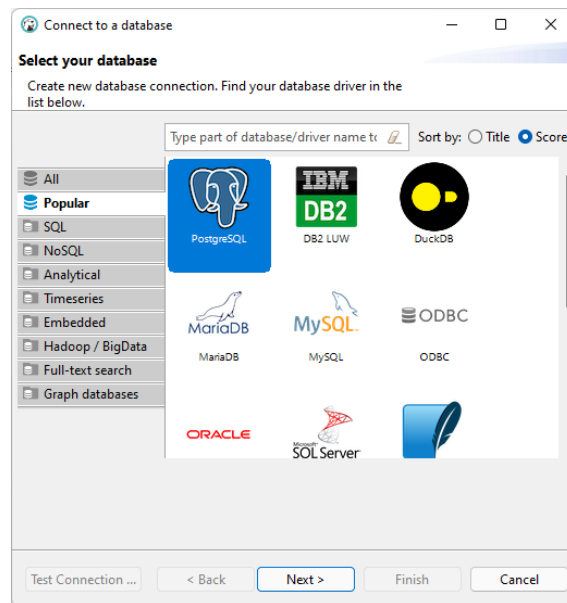
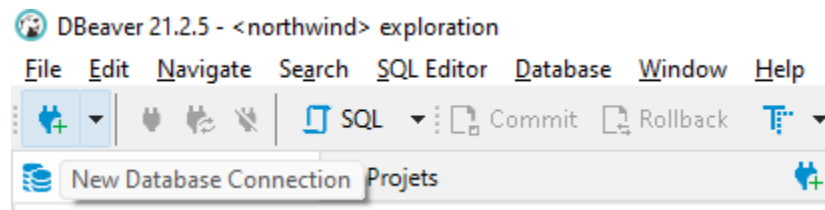
For this session, it will be necessary to train with **DBeaver**, as it will be the tool used during the exam

- [download it](#) and choose your preferred installation - *portable zip works perfectly on Windows*
- Download this script [Northwind database](#)

# Importation in DBeaver

2

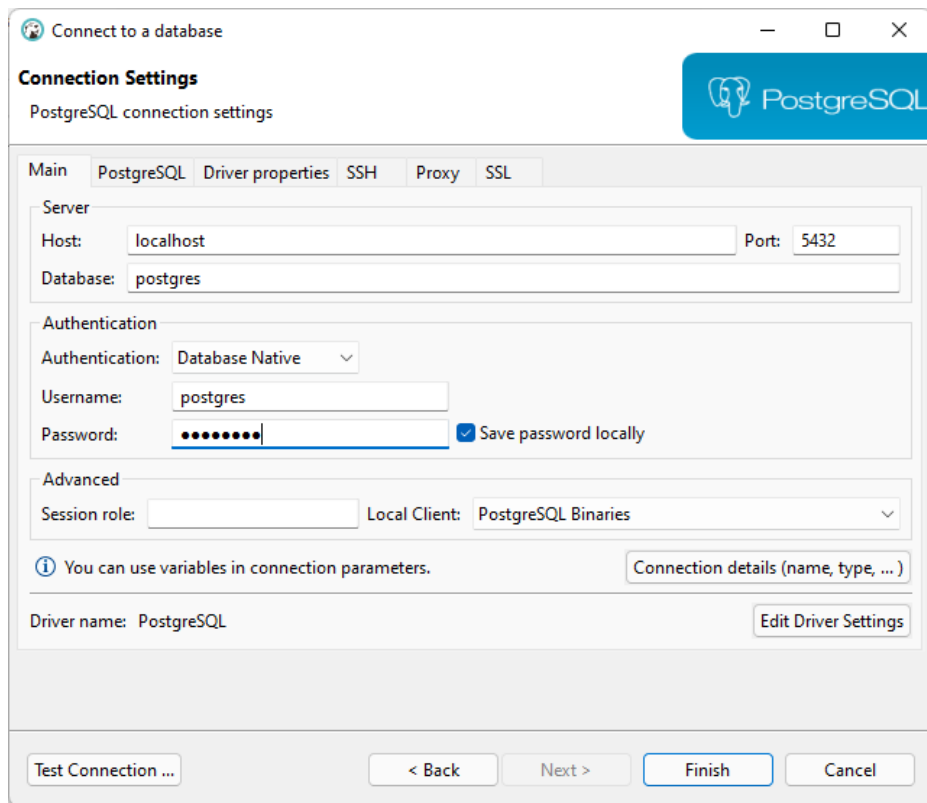
- **1.** Once the tool is started, create a new connection
- **2.** Then choose PostgreSQL



# Importation in DBeaver (2)

3

- **3.** then create the connection to the **postgres db**



The screenshot shows the 'Connect to a database' dialog box in DBeaver, specifically the 'PostgreSQL' tab. The dialog is titled 'Connect to a database' and has a 'PostgreSQL' logo in the top right corner. The 'Connection Settings' section is active, showing the following fields:

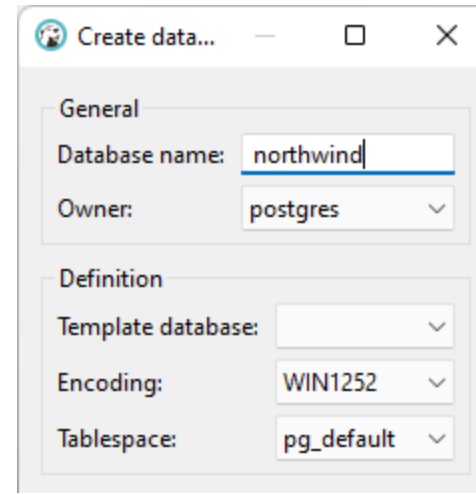
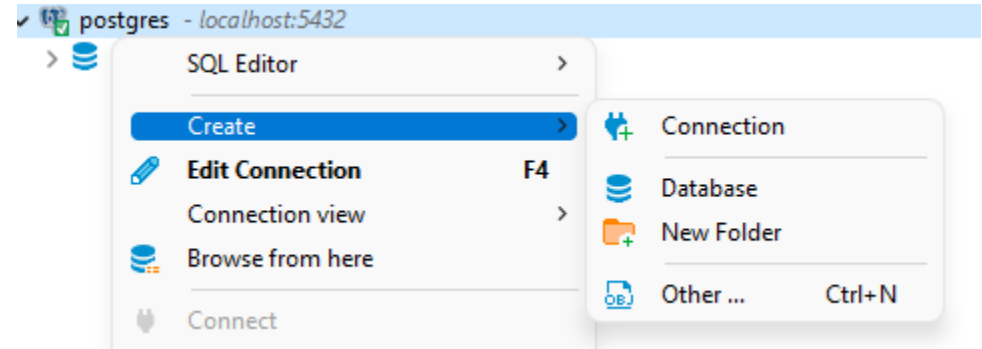
- Server:**
  - Host: localhost
  - Port: 5432
  - Database: postgres
- Authentication:**
  - Authentication: Database Native (dropdown)
  - Username: postgres
  - Password: [masked with dots]
  - ☒ Save password locally
- Advanced:**
  - Session role: [empty]
  - Local Client: PostgreSQL Binaries (dropdown)

Below the fields, there is an information icon and the text 'You can use variables in connection parameters.' followed by a button 'Connection details (name, type, ...)'. At the bottom, the 'Driver name' is set to 'PostgreSQL' with an 'Edit Driver Settings' button next to it. The bottom of the dialog features four buttons: 'Test Connection ...', '< Back', 'Next >', and 'Finish' (highlighted with a blue border), and a 'Cancel' button.

# Importation in DBeaver (3)

4

- **4.** Then right click on postgres connection > create > Database
- **5.** Then fill the required information



# Importation in DBeaver (4)

5

- Then open an SQL Console from the northwind connection and copy-paste the init script downloaded
- Open an SQL Script to type a query

```
SELECT * FROM categories c
```

- Check the results

# Data extraction - 1

- 1. *list of customers*
- 2. *number of different products?*
- 3. *count of employees*
- 4. *total overall revenue*
- 5. *total revenue for one specific year*
- 6. *list of countries covered by delivery*
- 7. *list of available transporters*
- 8. *number of customer per countries*
- 9. *number of orders which are "ordered" but not shipped*
- 10. *all the orders from france and belgium*

# Data extraction - 2

- 11. *most expensive products*
- 12. *list of discontinued products*
- 13. *count of product per category*
- 14. *average order price*
- 15. *revenue per category*
- 16. *number of orders per shipper*
- 17. *number of orders per employee*
- 18. *total revenue per supplier*

# Data insertions - 1

- 19. *insert a product with its category*
- 20. *create an order (what is required?)*
- 21. *change the shipped delivery date*