Install PostgreSQL (Postgres) on Windows

Please read carefully this guide and follow the instructions in order

Installing the server:

- Go to: https://www.enterprisedb.com/downloads/postgres-postgresql-downloads
- Select **Postgres 10** for your computer (32 or 64 bit)
- Go to download file location
- Double click the **.exe** file
- Follow through the installation process and keep track of:
  - where you installed it,
  - the superuser (usually **postgres)**,
  - the port (usually 5432),
  - the **password**
    - *It is highly recommended <u>not to change</u> the suggested installation values and location, and <u>remember </u>your password. Do not leave the password field empty.*
- Postgres requires Microsoft Visual C++, it will install it **automatically**
- Postgres automatically installs **pgAdmin.** In case you are asked, accept to install it when prompted.
- At the end of the installation Postgres may open the **Stack Builder** Wizard. No extra tools are required, so you can close it.
- **Restart** your system.

Starting the server:

- The latest installer of Postgres will install it on Windows as a Service, so it should start automatically with your computer.

Connecting to the server via Terminal:

- Open a Terminal or Command Prompt: press the Windows key and type **cmd**
- In the terminal, you can type `psql -U postgres`, and it will ask for the password you created during installation.
  - If you get the following error: `"Error 0x2 starting psql.exe -U postgres"`, you may have to go to the location where Postgres was installed:
  - Type `cd C:\Program Files\PostgreSQL\10\bin` and try again.

- It is possible to use a graphical user interface (GUI) client, however for the lab it is required to use the Terminal.
- To stop the server, simply close the window.

Use the instantiation guide to restore the imdb_100k database to practice the queries seen in lectures or the starwars database for the lab!

GUI Client for Postgres (optional):

- If you followed the installation correctly, pgAdmin should be in your system.
- You can find pgAdmin on the Windows start-up menu, open pgAdmin and, on the right-hand browser, double click in **Server > Postgres > Databases**
- You can restore the IMDB database to practice with queries from the lectures, or the eCommerce database for Lab 1, following [this guide](#).

Install Postgres on MacOS

Installing the server:

- Go to: https://www.enterprisedb.com/downloads/postgres-postgresql-downloads
- Select **Postgres 10** for your Mac
- The .dmg file will be downloaded
- Open the .dmg file
- Follow through the installation process and keep track of
  - where you installed it
  - the superuser (usually **postgres)**
  - the port, (usually 5432)
  - the **password**
    - *It is highly recommended <u>not to change</u> the suggested installation values and location, and <u>remember</u> your password. Do not leave the password field empty.*
- Postgres requires Microsoft Visual C++, it will install it **automatically**
- Postgres automatically installs **pgAdmin.** In case you are asked, accept to install it when prompted.
- At the end of the installation Postgres may open the **Stack Builder** Wizard. No extra tools are required, so you can close it.
- **Restart** your system.

Installing the server (with Homebrew):

- Prior Homebrew installation needed
- Type **brew install postgres**
- Make sure that Postgres starts every time your computer starts up by executing:
  - `pg_ctl -D /usr/local/var/postgres start && brew services start postgresql`
- Make sure that Postgres is installed and running by typing `postgres -V`
- Using this way of installation, **pgAdmin** will not be installed

Starting the server:

- The latest installer of Postgres will install it on MacOS as a Service, so it should start automatically with your computer.
- To stop PostgresSQL from auto starting:

`sudo launchctl unload /Library/LaunchDaemons/com.edb.launchd.postgresql-10.plist`

- To enable PostgresSQL to auto start:

`sudo launchctl load -w /Library/LaunchDaemons/com.edb.launchd.postgresql-10.plist`

- To start manually: `pg_ctl -D /usr/local/var/postgres start`
- To stop manually: `pg_ctl -D /usr/local/var/postgres stop`

Connecting to the server:

- Pres **cmd+spacebar** and type **psql** and hit return
- On the postgres shell opened type the following:
  - **Server [localhost]: localhost**
  - **Database [postgres]: postgres**
  - **Port [5432]: 5432**
  - **Username [postgres]: postgres**
  - **Password:** ***the password you created during installation***
- Then, you should be able to use postgres for typing queries!
- It is possible to use a graphical user interface (GUI) client, however for the lab it is required to use the Terminal.
- If you have used the Homebrew installation guide, then you can simply type in your command line **psql postgres**

Use the instantiation guide to restore the *imdb_100k* database to practice the queries seen in lectures or the *starwars* database for the lab!

GUI Client for Postgres (optional):

- If you followed the installation correctly (not the Homebrew one), pgAdmin should be in your system.
- You can find pgAdmin in your programs, open pgAdmin and, on the right-hand browser, double click in **Server > Postgres > Databases**
- You can restore the IMDB database to practice with queries from the lectures, or the starwars database for Lab 2.