System Installation

1. Install **MongoDB Community Server** (https://www.mongodb.com/download-center/community). All default options during installation. You can check that the service is running and manage it on Control Panel -> System and Safety -> Administrative Tools -> Services.
2. Install **MongoDB Compass** (https://www.mongodb.com/download-center/compass?jmp=docs). You have to provide some data (name, email, …) for download to start.
3. Download the 4 csv files from folder "data" on the repository.
4. Download and Install the free 30 days trial of **Studio3T** (https://studio3t.com/). All default options during installation. Run Studio3T.
5. Click on Connect icon -> New Connection -> Write a connection name and make sure to connect to localhost:27017-> Test connection and then, SAVE
6. Click on the name of the connection and then on Connect button.
7. Click on the name of the connection and then go to the menu Database -> Add Database and create a database called "opciones" [*]
8. Click on the name of the database "opciones", then "Import" button -> CSV-> OK -> click on Import from CSV file -> Browse to the csv file downloaded to open it -> in Delimiter field select the option "semicolon" and make sure "File contains header with field names" is marked -> Click on Execute (Do it for each of the for CSV files to create the collections called "estaciones"[†], "paises"[‡], "regiones"[§] and "tipo"[**] and make sure to use a different CSV Import task for each).
9. Run MongoDB Compass. All default options when running it for the first time.
   a. Connect to Host (localhost, 27017).
   b. Just check that database "opciones" was created and collections are included in this way:

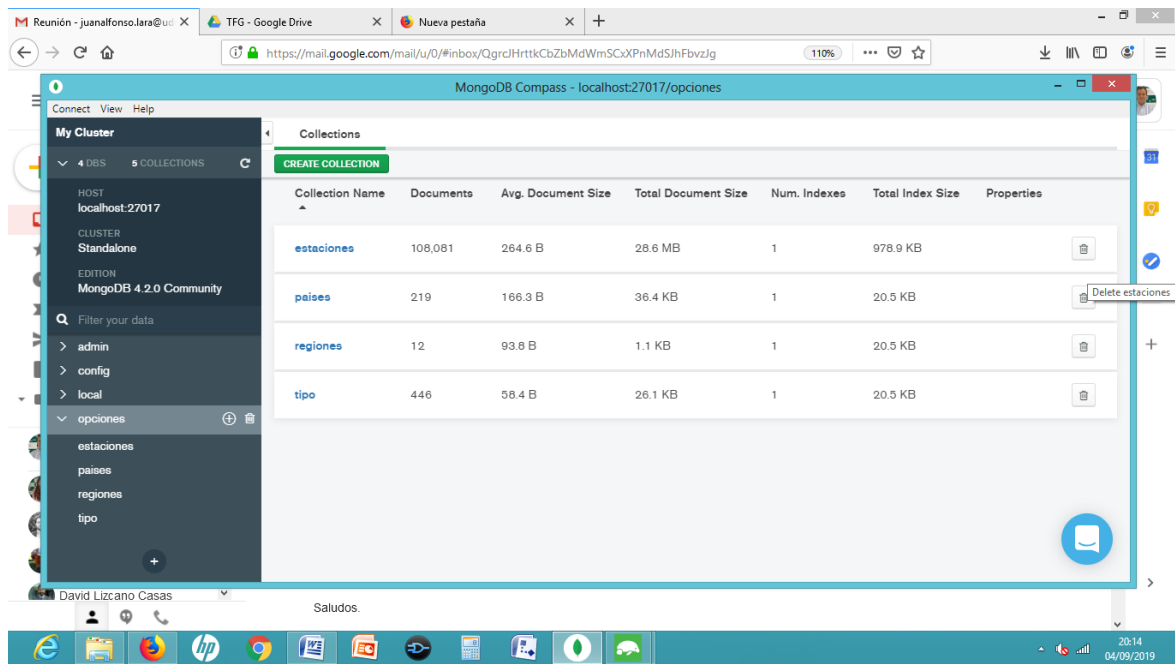---

[*] *"opciones" is a Spanish word that means "options"*
[†] *"estaciones" is a Spanish word that means "stations"*
[‡] *"paises" is a Spanish word that means "countries"*
[§] *"regiones" is a Spanish word that means "regions"*
[**] *"tipo" is a Spanish word that means "type"*

10. Download and install **NetBeans 8.0.2**. You may need to install **JDK 8** before (requires Oracle registration).
11. Download the system source code file, called tfgv1.rar, from the folder "code" in the repository.
12. Run NetBeans
13. File -> Open Project, and open the project "tfgv1.rar" previously downloaded.
14. Open the file MongoDB.java. In line 26 set the correct path depending on the installation MongoDB folder (version). In our case ""C:\\ Program Files\\MongoDB\\Server\\4.2\\bin\\"".
15. Save and compile.
16. You can now manage the project (run, modify, …).