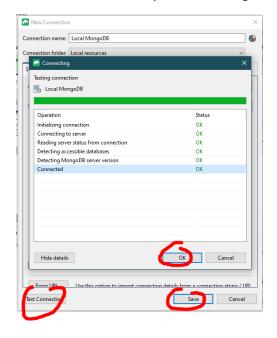


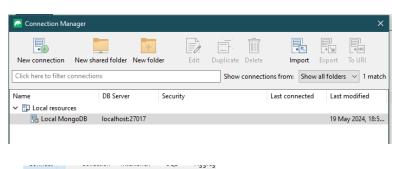
3rd vear

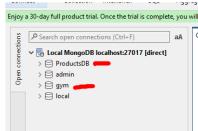
Advanced Databases: Mongodb

Lab 9 Solutions

- 1- Open Mongod & Mongo like the last lab
- 2- Download Gym extract & restore as the instructions in the lab
- 3- Download and install Studio 3T: Run & Connect to the server: Here's how to connect to a local server in Studio 3T:
- Open Studio 3T.
- Click the Connect button in the top-left corner of the toolbar.
- In the Connection Manager dialog, click the New Connection button. Alternatively, on the Quickstart tab, you can click "Create a new connection".
- In the New Connection dialog, choose Manually configure my connection settings and click
 Next.
- Name the connection for easy identification ("Local MongoDB").
- In the Connection Type list, select **Standalone** (assuming you're connecting to a single MongoDB instance).
- Set the Server field to localhost. This indicates you are connecting to a local server on the same machine.
- The default Port for MongoDB is 27017. Leave this field unchanged unless your local MongoDB instance uses a different port.
- You can test the connection by clicking **Test Connection**. This verifies if Studio 3T can successfully connect to your local MongoDB server. 1 0. Click **Save** to finalize the connection setup.

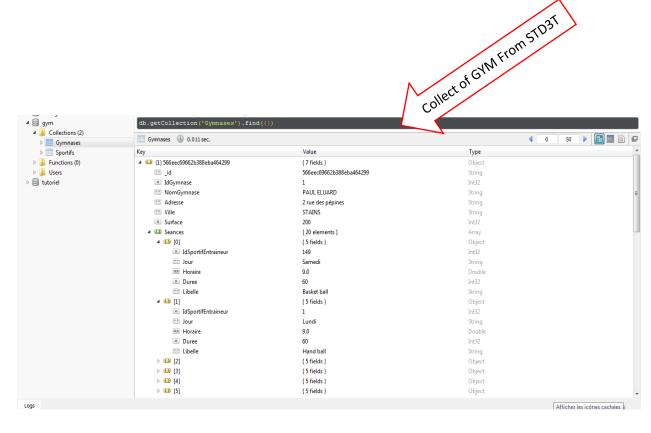




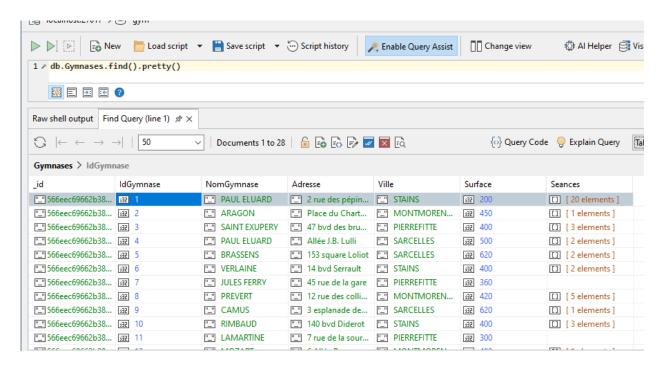


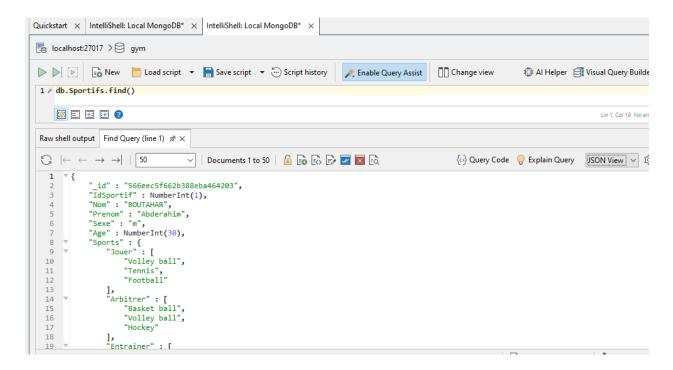
```
:\Users\Djana>cd..
                                                         RESTORE
 :\Users>cd..
D:\>cd mongodb\bin
D:\MongoDB\bin>mongorestore -d gym D:\MongoDB\gym
connected to: 127.0.0.1
2024-05-19T19:47:30.274+0100 D:\MongoDB\gym\Gymnases.bson
2024-05-19T19:47:30.274+0100 going into namespace [gym.Gymnases]
Restoring to gym.Gymnases without dropping. Restored data will be inserted without raising errors; check your server log
WARNING: collection gym.Gymnases exists with different options than are in the metadata.json file and not using --drop. Option
28 objects found
                                     Creating index: { key: { _id: 1 }, name: "_id_", ns: "gym.Gymnases" }
OngoDB\gym\Sportifs.bson
2024-05-19T19:47:30.290+0100
2024-05-19T19:47:30.290+0100 D
                       CONNECT
                                         ng into namespace [gym.Sportifs]
ropping. Restored data will be inserted without raising errors; check your server log
2024-05-19T19:47:30.290+010
Restoring to gym.Sporti
WARNING: collecti
                                        xists with different options than are in the metadata.json file and not using --drop. Option
                            GMN DB Cont
150 objects found
2024-05-19T19:47
                                                 dex: { key: { _id: 1 }, name: "_id_", ns: "gym.Sportifs" }
                                               Collect of GYM From CMD
D:\MongoDB\bin>mongo
MongoDB shell version
onnecting to: test
 use gym
 witched to db gym
    show collections
                                                                                    Verify Collection Data
Gymnases
 Sportifs
  db.Gymnases.find().limit(1).pretty()
          "_id" : "566eec69662b388eba464299",
         "IdGymnase" : 1,
"NomGymnase" : "PAUL ELUARD",
"Adresse" : "2 rue des pépines",
          "Ville" : "STAINS",
          "Surface" : 200,
          "Seances" : [
                               "IdSportifEntraineur": 149,
                               "Jour" : "Samedi",
"Horaire" : 9,
"Duree" : 60,
"Libelle" : "Basket ball"
                               "IdSportifEntraineur" : 1,
                               "Jour" : "Lundi",
"Horaire" : 9,
"Duree" : 60,
"Libelle" : "Hand ball"
```

4- Answer some queries Using Robomongo:

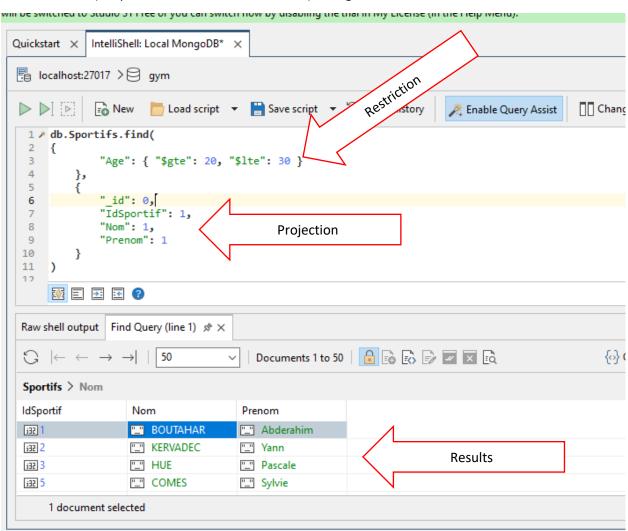


And we can use (Names of the Columns are in French)

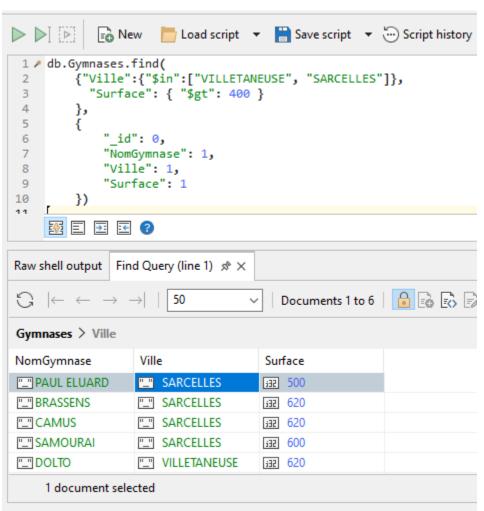




Which athletes (Id Sportifs, surname and first name) are aged between 20 and 30?



Which gyms in Villetaneuse or Sarcelles have a surface area of over 400 m²?



5- Answer using Map-Reduce Paradigm
Calculate the number of gyms for each city

