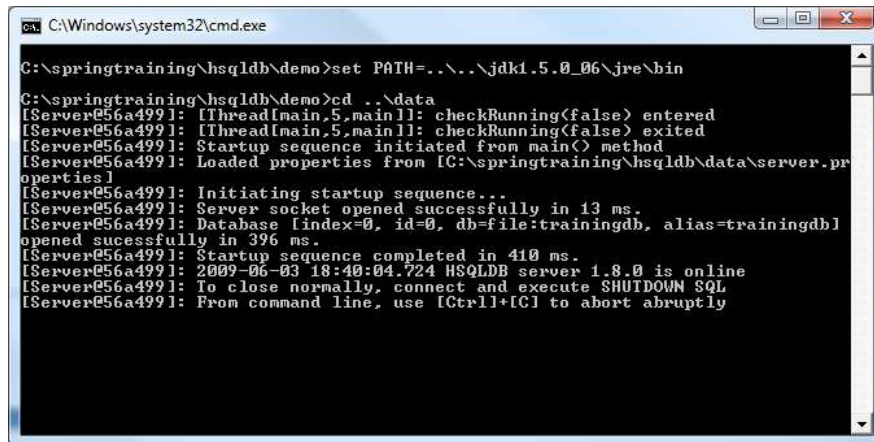


Installing HSQLDB on Windows:

Download databases.zip from:

Unzip the files on your file system.

You can start the training database by double-clicking on **hsqldb\bin\runServerTrainingdb.bat**. This should open the following window to indicate that the database is running.

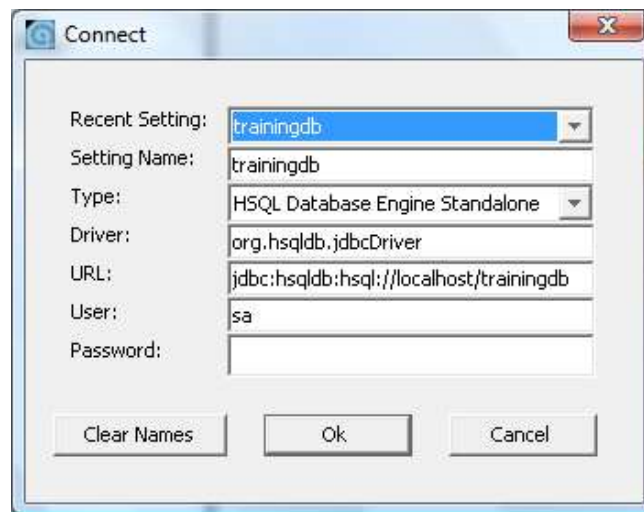


```
C:\Windows\system32\cmd.exe

C:\springtraining\hsqldb\demo>set PATH=..\..\jdk1.5.0_06\jre\bin

C:\springtraining\hsqldb\demo>cd ..\data
[Server@56a499]: [Thread[main,5,main]]: checkRunning(false) entered
[Server@56a499]: [Thread[main,5,main]]: checkRunning(false) exited
[Server@56a499]: Startup sequence initiated from main() method
[Server@56a499]: Loaded properties from [C:\springtraining\hsqldb\data\server.pr
operties]
[Server@56a499]: Initiating startup sequence...
[Server@56a499]: Server socket opened successfully in 13 ms.
[Server@56a499]: Database [index=0, id=0, db=file:trainingdb, alias=trainingdb]
opened successfully in 396 ms.
[Server@56a499]: Startup sequence completed in 410 ms.
[Server@56a499]: 2009-06-03 18:40:04.724 HSQLDB server 1.8.0 is online
[Server@56a499]: To close normally, connect and execute SHUTDOWN SQL
[Server@56a499]: From command line, use [Ctrl]+[C] to abort abruptly
```

Then, start the database manager by double-clicking on **runManagerSwing.bat** in the same directory.



When the manager asks for connection settings, and if this is the first time you start the database manager, then fill in the following information:

Setting Name: **trainingdb**

Type: **HSQL Database Engine Standalone**

Driver: **org.hsqldb.jdbcDriver**

URL: **jdbc:hsqldb:hsqldb://localhost/trainingdb**

User: **SA**

Password:

And click the **OK** button.

Installing HSQLDB on a Mac:

Download databases.zip from:

Check this link to start hsqldb : <https://evancoding.com/2014/07/26/hsqldb-on-Mac-OS-X/>

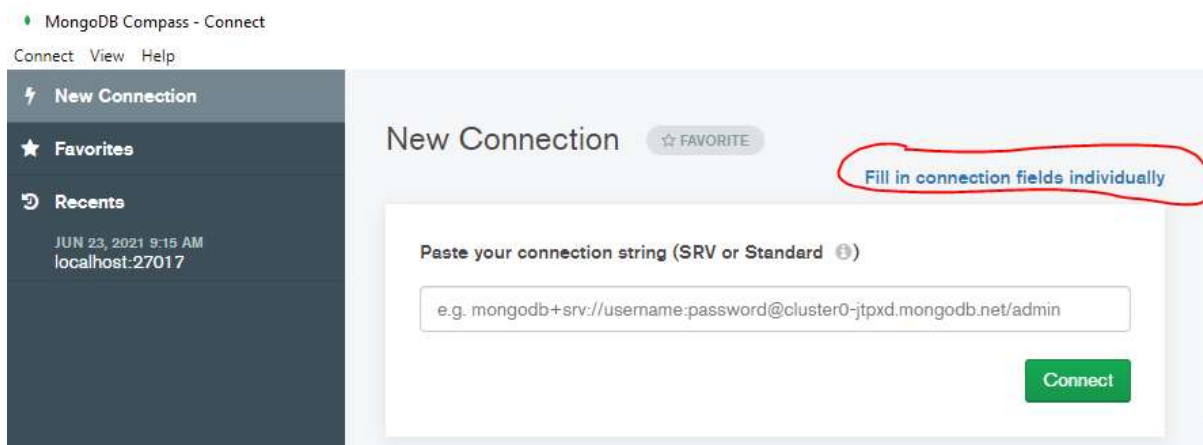
Installing MongoDB and MongoCompass on Windows:

Start mongod by double clicking the file **mongodb/bin/startmongo.bat**

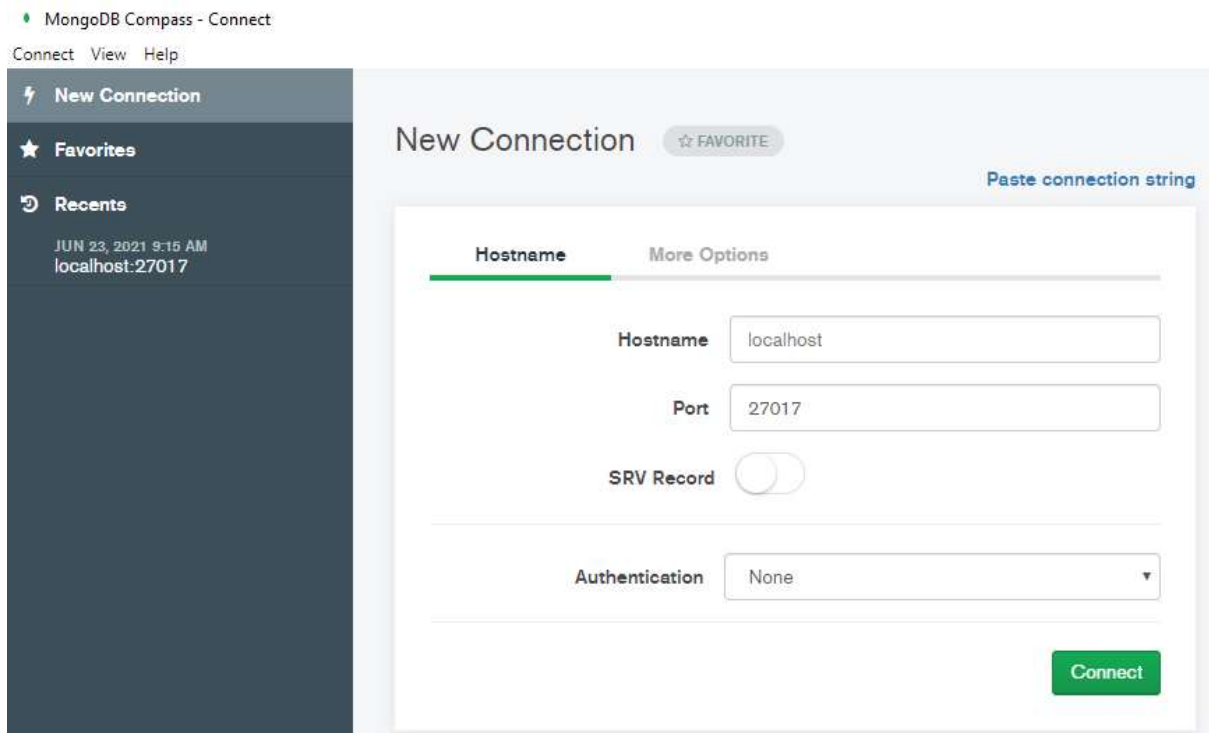
Mongod should now start:

```
C:\WINDOWS\system32\cmd.exe
2021-06-24T15:16:56.227-0500 I CONTROL [initandlisten] db version v3.2.19-14-ge59d00a
2021-06-24T15:16:56.227-0500 I CONTROL [initandlisten] git version: e59d00a7323cbe3c164ab41ef4c53a4638caba5d
2021-06-24T15:16:56.227-0500 I CONTROL [initandlisten] allocator: tcmalloc
2021-06-24T15:16:56.227-0500 I CONTROL [initandlisten] modules: none
2021-06-24T15:16:56.227-0500 I CONTROL [initandlisten] build environment:
2021-06-24T15:16:56.227-0500 I CONTROL [initandlisten]   distarch: i386
2021-06-24T15:16:56.228-0500 I CONTROL [initandlisten]   target_arch: i386
2021-06-24T15:16:56.228-0500 I CONTROL [initandlisten] options: { storage: { dbPath: "..\data\db" } }
2021-06-24T15:16:56.229-0500 I - [initandlisten] Detected data files in ..\data\db created by the 'mmapv1' storage
e engine, so setting the active storage engine to 'mmapv1'.
2021-06-24T15:16:56.251-0500 I CONTROL [initandlisten] ** WARNING: This 32-bit MongoDB binary is deprecated
2021-06-24T15:16:56.251-0500 I CONTROL [initandlisten] ** NOTE: This is a 32-bit MongoDB binary running on a 64-bit ope
rating
2021-06-24T15:16:56.251-0500 I CONTROL [initandlisten] **      system. Switch to a 64-bit build of MongoDB to
2021-06-24T15:16:56.252-0500 I CONTROL [initandlisten] **      support larger databases.
2021-06-24T15:16:56.252-0500 I CONTROL [initandlisten]
2021-06-24T15:16:56.252-0500 I CONTROL [initandlisten]
2021-06-24T15:16:56.252-0500 I CONTROL [initandlisten]
2021-06-24T15:16:56.252-0500 I CONTROL [initandlisten] ** NOTE: This is a 32 bit MongoDB binary.
2021-06-24T15:16:56.252-0500 I CONTROL [initandlisten] **      32 bit builds are limited to less than 2GB of data (or
less with --journal).
2021-06-24T15:16:56.252-0500 I CONTROL [initandlisten] **      Note that journaling defaults to off for 32 bit and is
currently off.
2021-06-24T15:16:56.270-0500 I CONTROL [initandlisten] **      See http://dochub.mongodb.org/core/32bit
2021-06-24T15:16:56.274-0500 I CONTROL [initandlisten]
2021-06-24T15:16:56.365-0500 I NETWORK [HostnameCanonicalizationWorker] Starting hostname canonicalization worker
2021-06-24T15:16:57.967-0500 I FTDC [initandlisten] Initializing full-time diagnostic data capture with directory '..
.\data\db\diagnostic.data'
2021-06-24T15:16:57.969-0500 I NETWORK [initandlisten] waiting for connections on port 27017
```

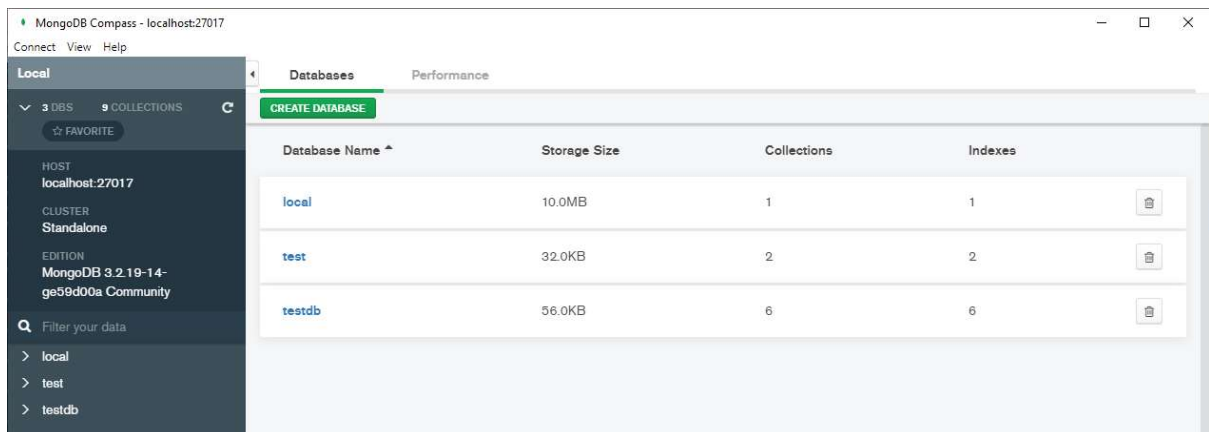
Then start MongoCompass by double clicking the file **mongocompass/MongoDBCompass.exe**



Click the “Fill in connection field individually” link.



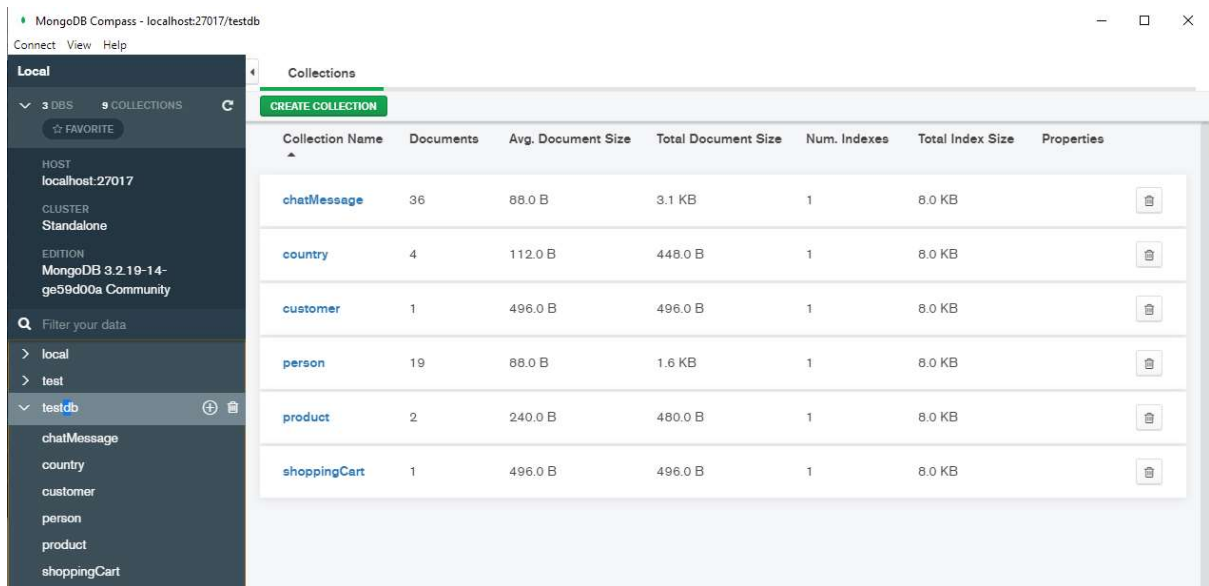
Click **Connect**.



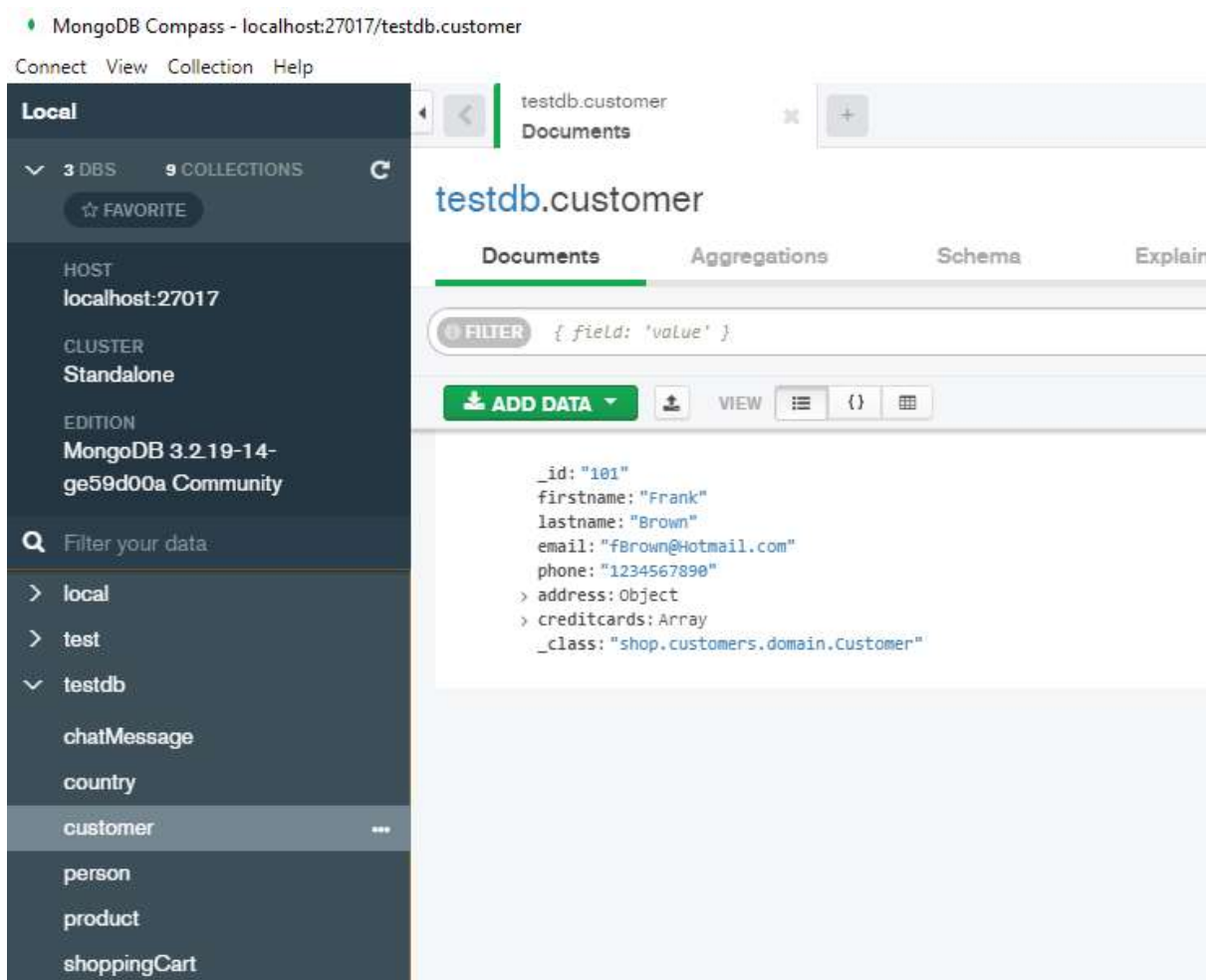
You see now the databases in MongoDB

Click the **testdb** database

You see then the collections in the database:



If you click a database, you see the document in this database:



Installing MongoDB and MongoCompass on the Mac:

If you follow the instructions on this webpage it should work:

<https://www.dev2qa.com/how-to-install-mongodb-on-mac/>

If you cannot get it to work, the backup plan is to use an embedded mongodb. You don't need to install anything. Just add the following dependency in the pom file of your project:

```
<dependency>
  <groupId>de.flapdoodle.embed</groupId>
  <artifactId>de.flapdoodle.embed.mongo</artifactId>
  <version>2.1.2</version>
</dependency>
```

This library is an embedded mongo database. This means that mongoDB starts up when you run your application, and it shuts down when your application stops.