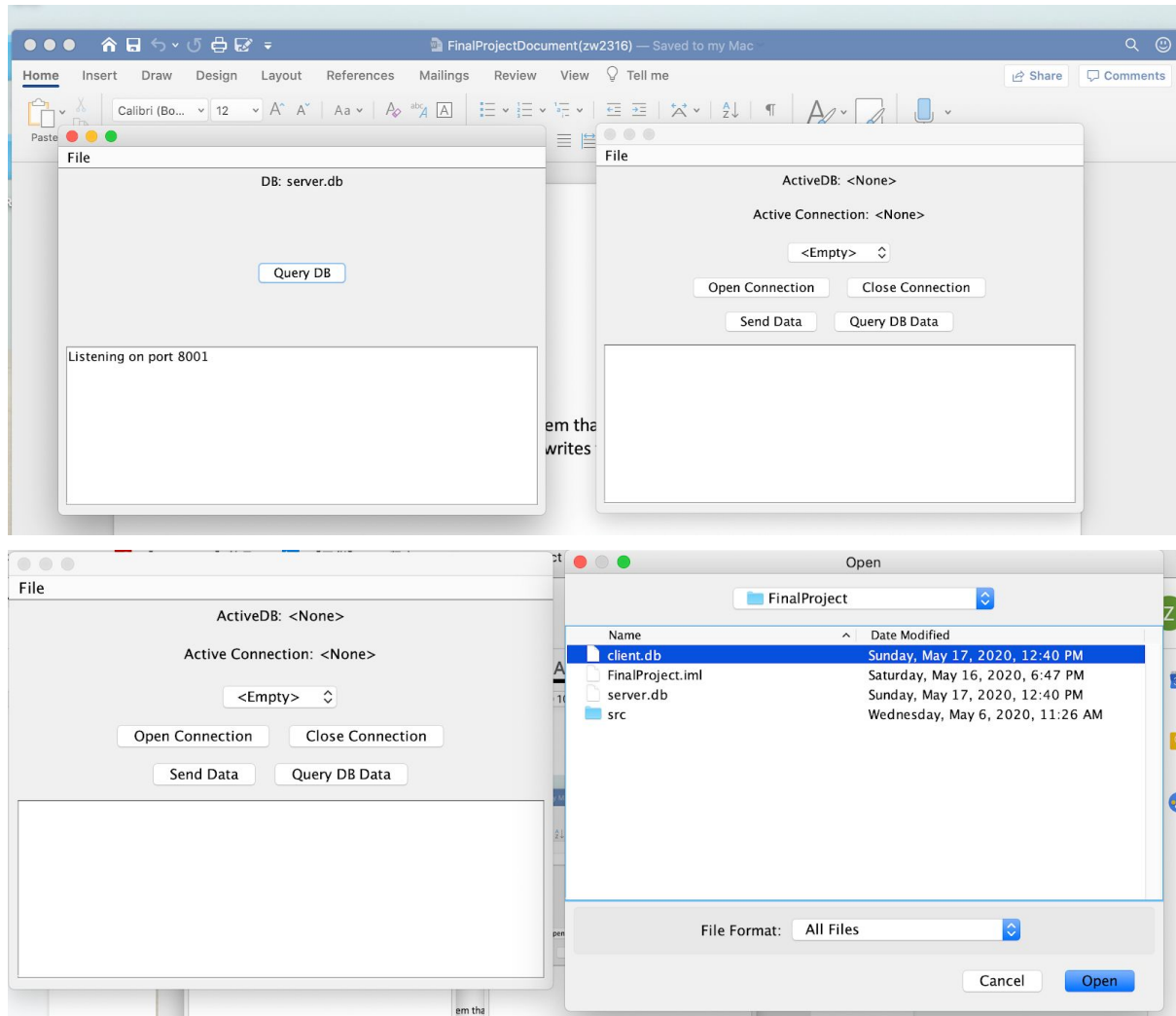
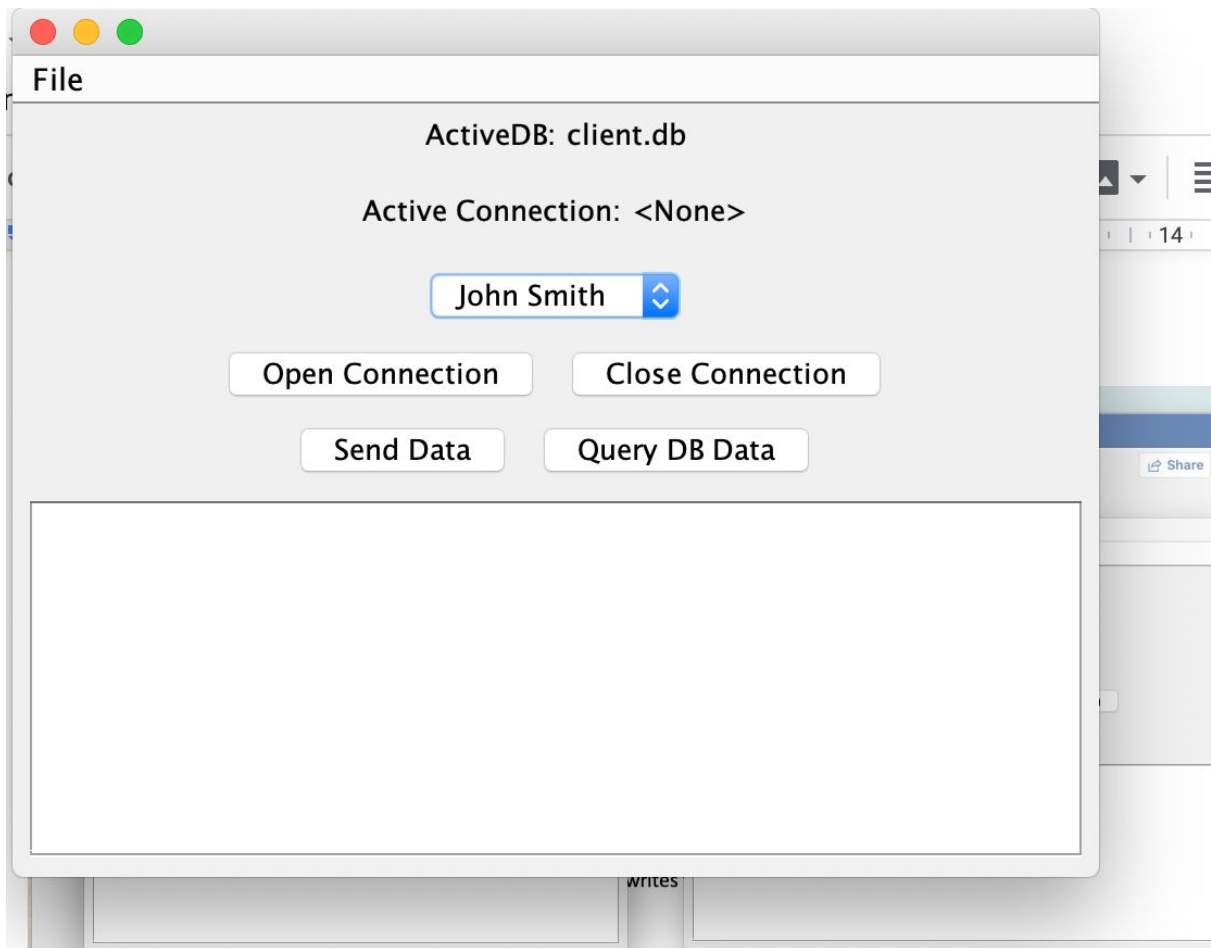


Java final project report

zw2316

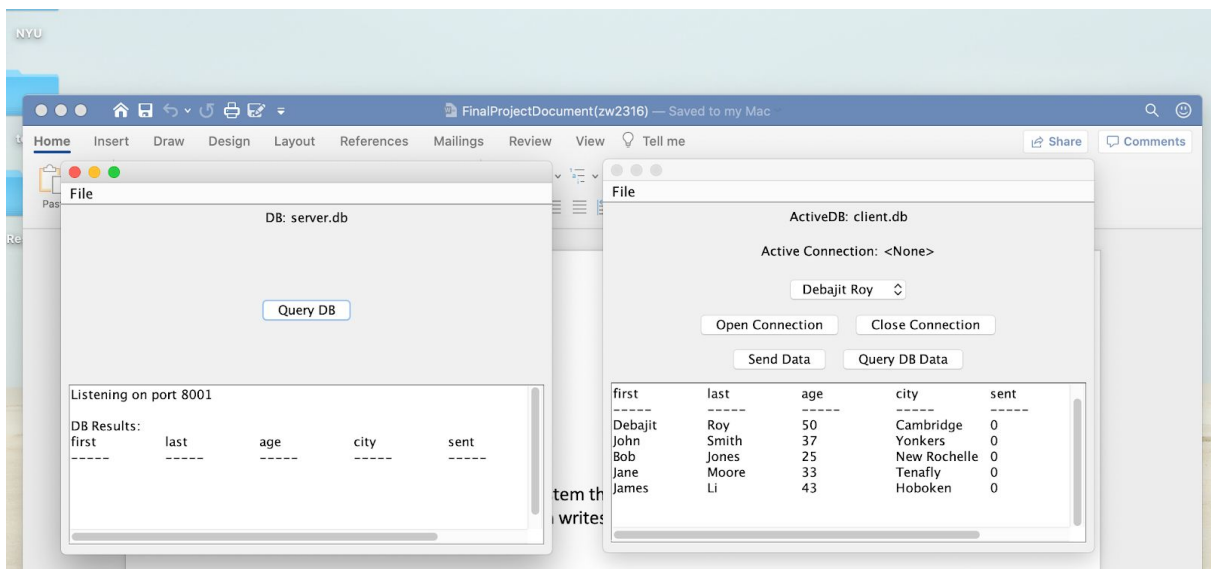
1.start the program and choose client.db file





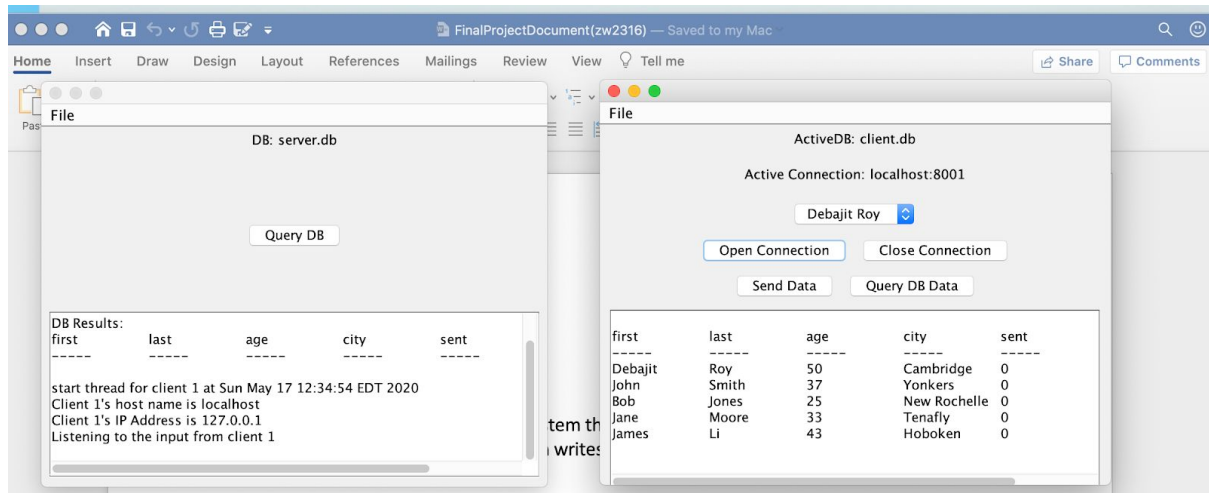
After choosing the file we can see that ActiveDB changed from <None> to client.db and Jcombobox changed from <Empty> to several records.

2. Then we do a query on both windows by clicking the “Query DB” and “Query DB Data” button.



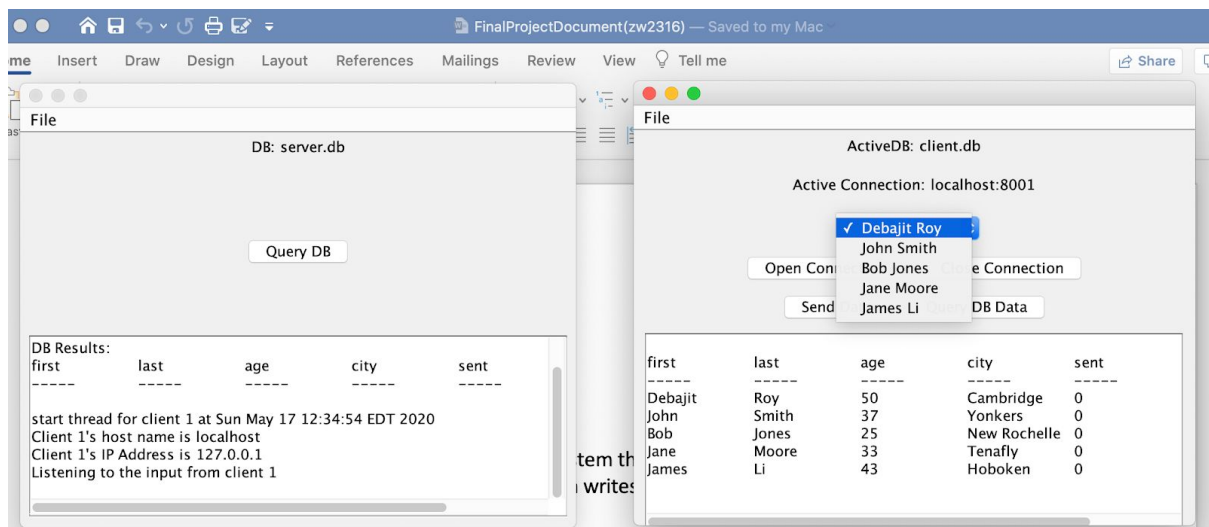
We can see that there is no data in server.db and some data in client.db.

3. Then we can open connection on client interface

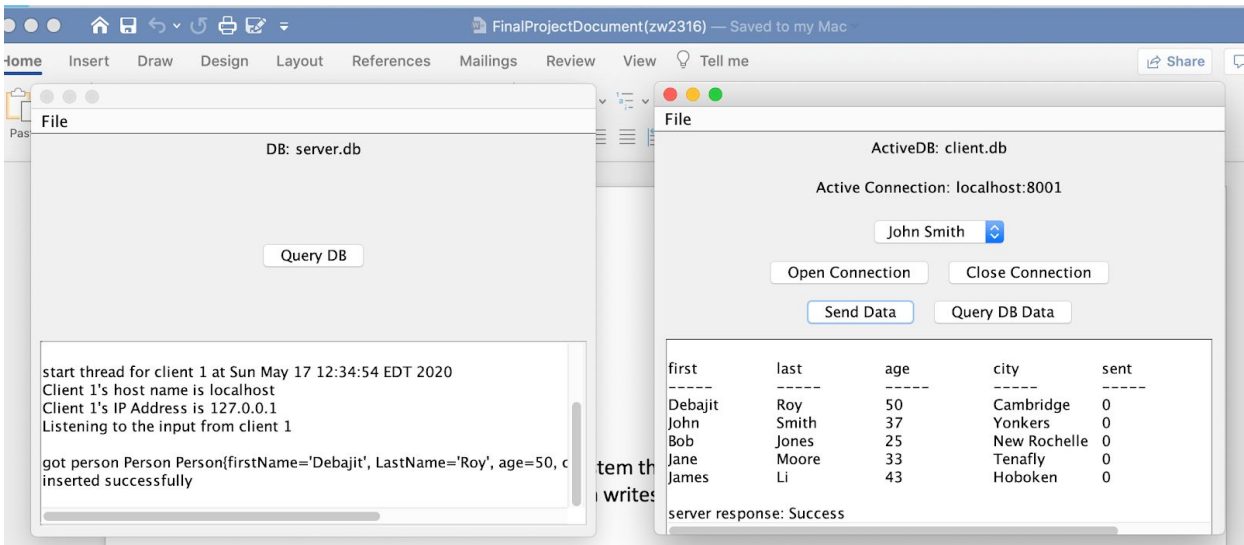


It starts a thread for client 1 on server interface and the active connection of client interface changed from <None> to localhost:8001

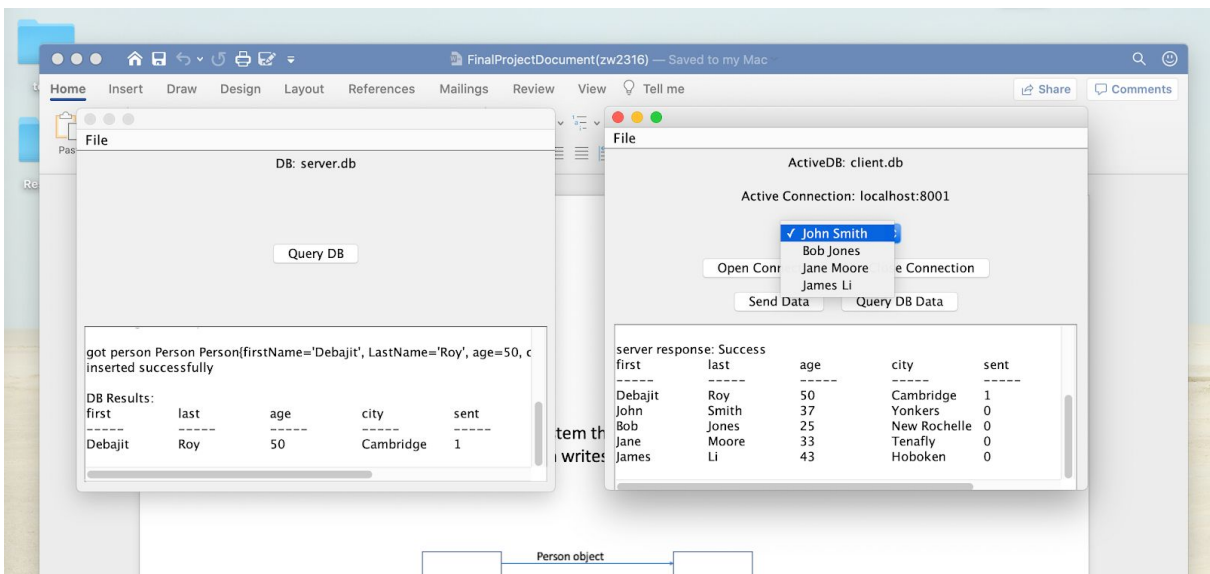
4. Then we choose the data we want to send to the server.



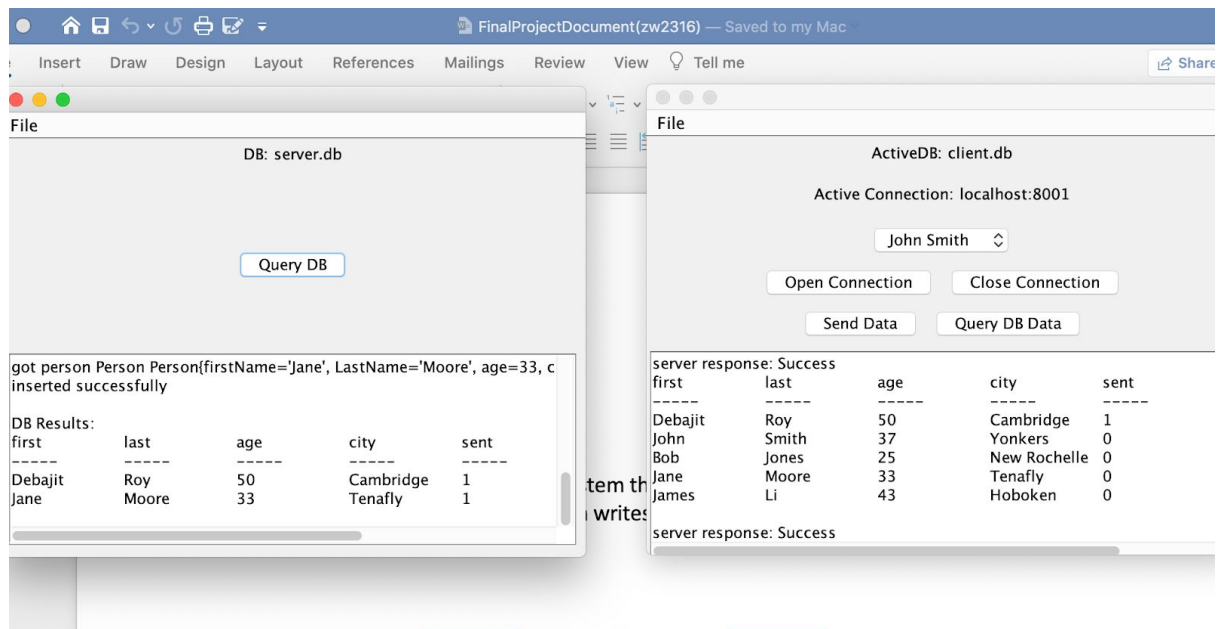
When we click the send data button on the client interface, the server will show what object data it gets and return success to the client.



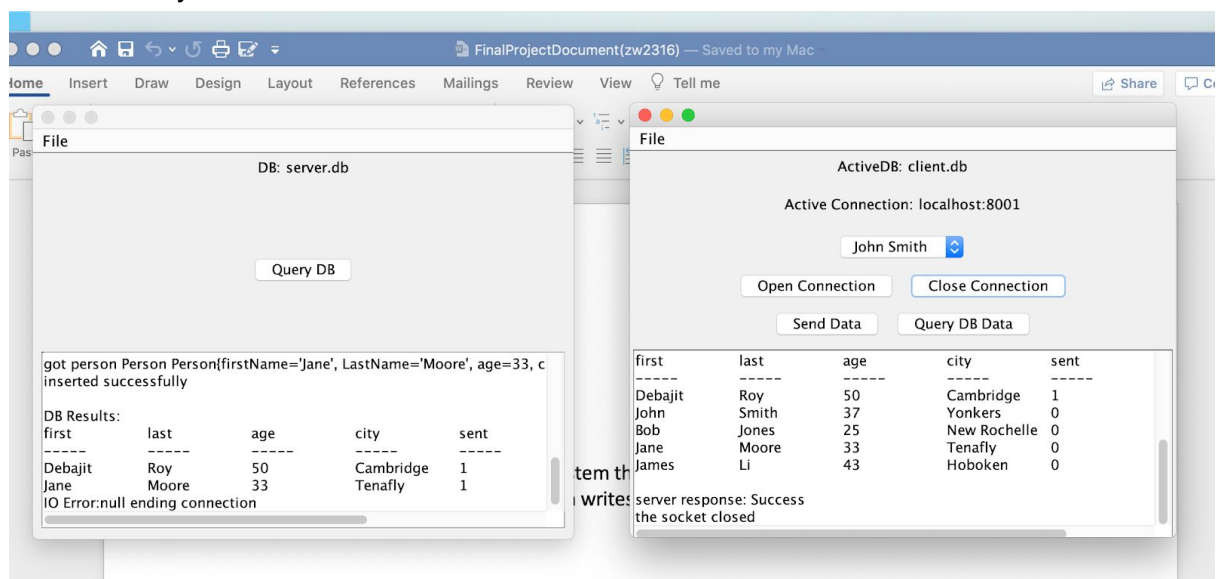
5. After sending the data we can see the combobox has changed from 5 records to 4 because one of the data has been sent to the server. And we can do a query on both server and client then we can see that there is one record in server.db and the sent=1 in client.db.



6. Then we can send another data to server

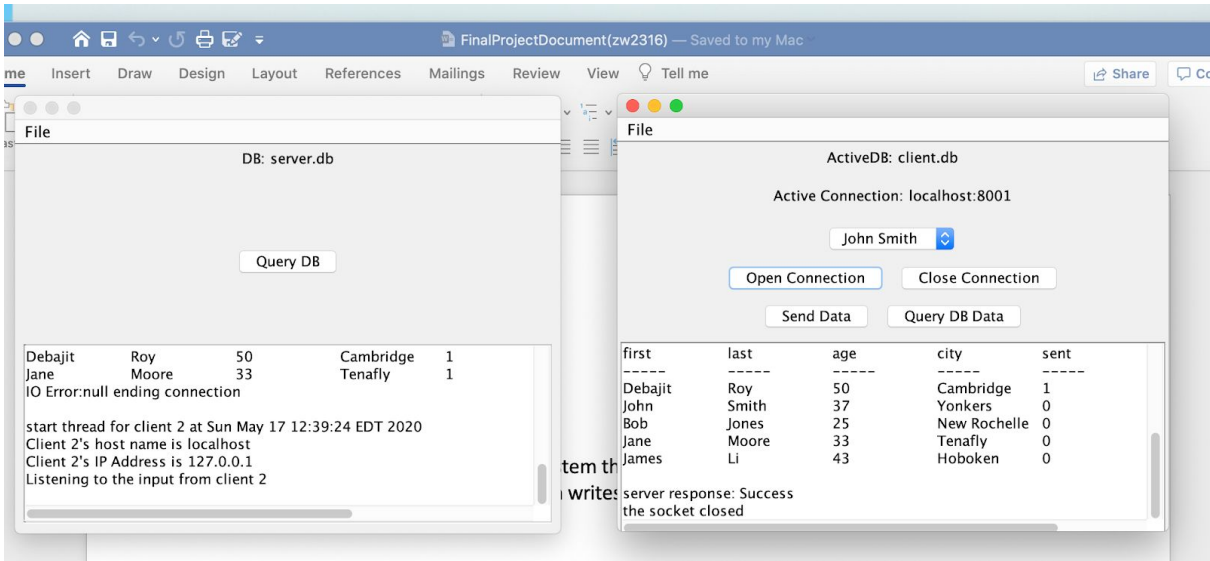


7. Then we try to close connection

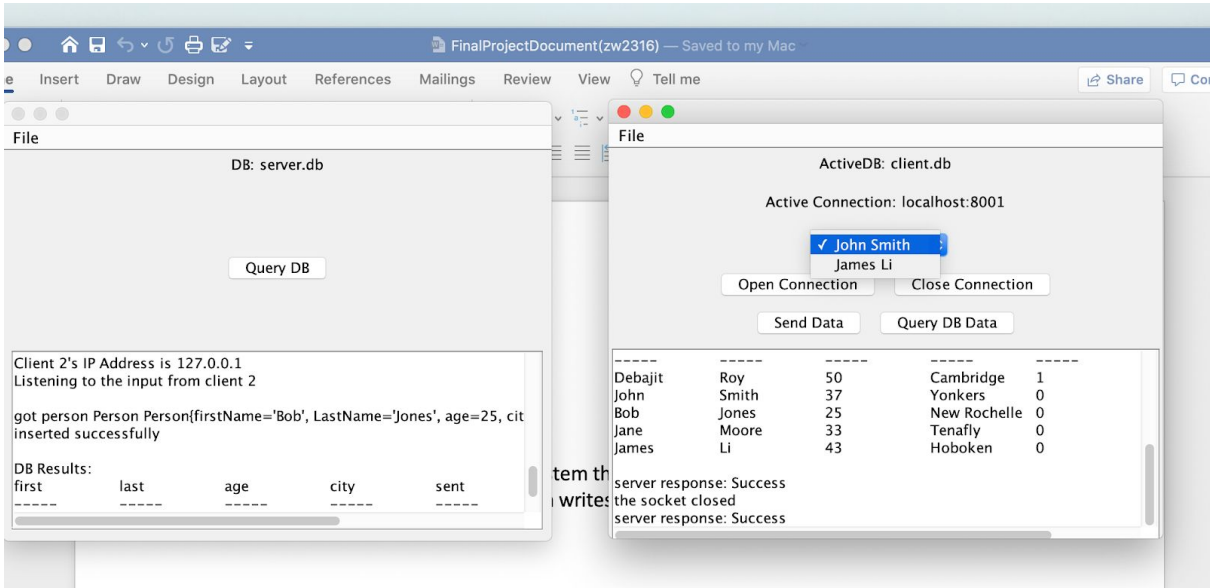


When we click the close connection button we can see that there are IO Error shows on server interface and "the socket closed" on client interface.

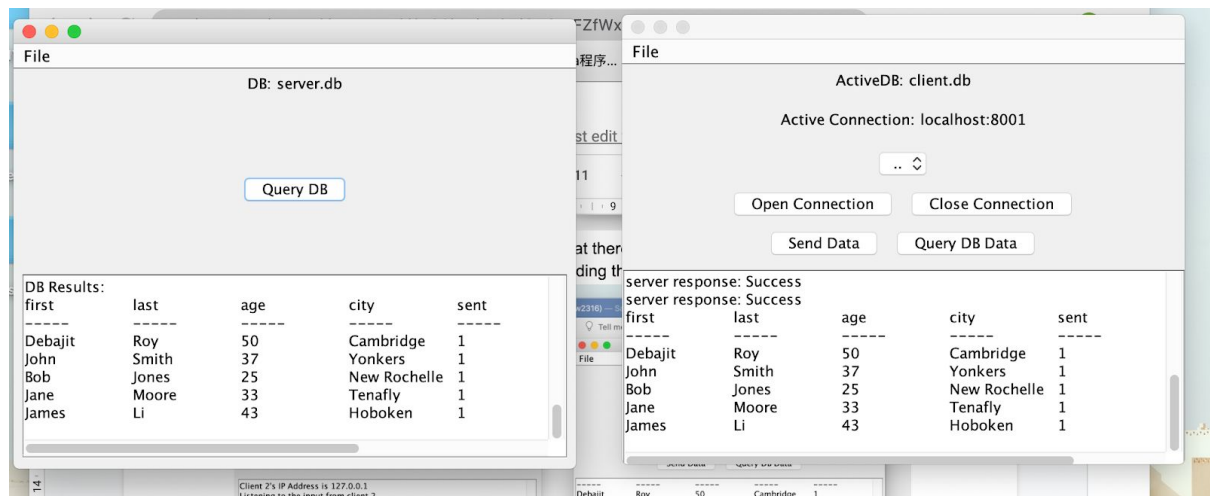
8. Then we try to open a new connection.



After opening a new connection, we can see that there is a new thread to handle the connection which is client 2. Then we keep sending the data to the server.



9. After sending all the data to the server then we can do a query to see the change.



We can find that all records are sent to the server and the 'sent' changed from 0 to 1 and there is nothing in the combobox which means all the data has been sent successfully.

10. Check the sqlite3 to see whether the db file changed or not.

```
→ FinalProject sqlite3 server.db
SQLite version 3.28.0 2019-04-15 14:49:49
Enter ".help" for usage hints.
sqlite> select * from People;
Debajit|Roy|50|Cambridge|1|1
John|Smith|37|Yonkers|1|2
Bob|Jones|25|New Rochelle|1|3
Jane|Moore|33|Tenafly|1|4
James|Li|43|Hoboken|1|5
sqlite>
```

```
→ FinalProject sqlite3 client.db
SQLite version 3.28.0 2019-04-15 14:49:49
Enter ".help" for usage hints.
sqlite> select * from People;
Debajit|Roy|50|Cambridge|1|1
John|Smith|37|Yonkers|1|2
Bob|Jones|25|New Rochelle|1|3
Jane|Moore|33|Tenafly|1|4
James|Li|43|Hoboken|1|5
sqlite>
```

We can see that all the records are updated in client.db and stored in server.db.