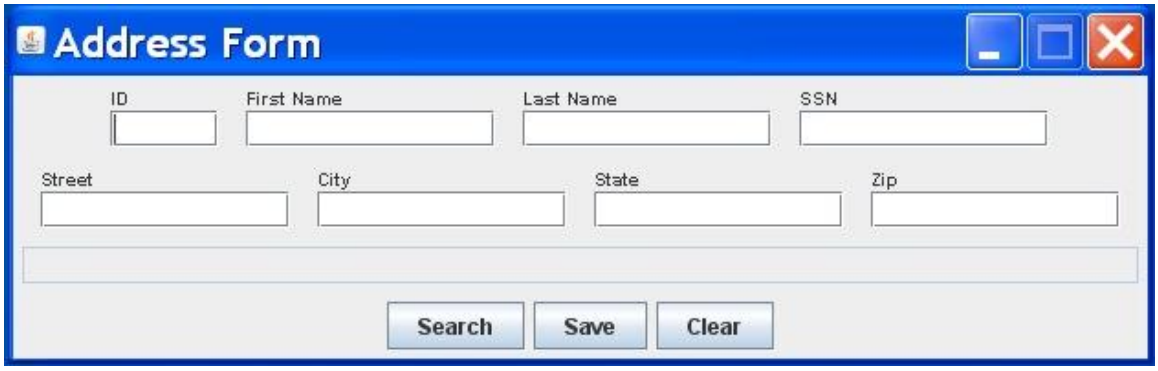
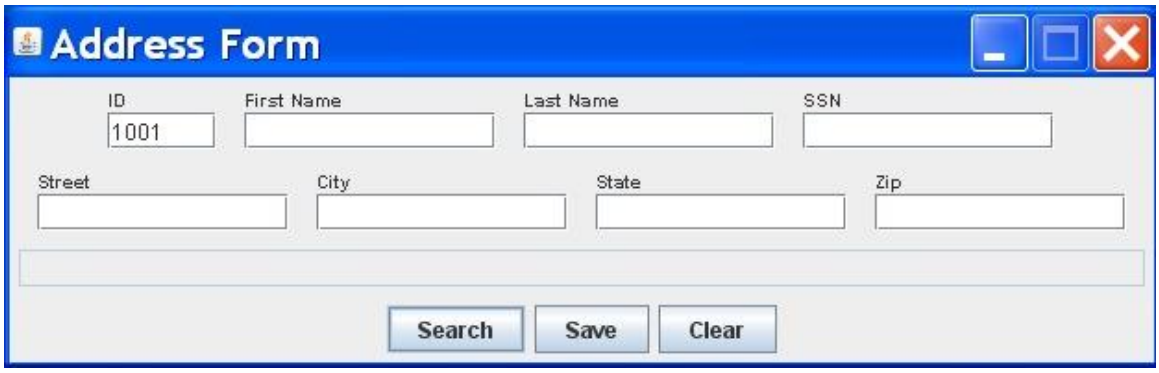
Lab 13-2 Database Sample

After reading through the setup document, create a GUI that interacts with the MySql database, as follows:

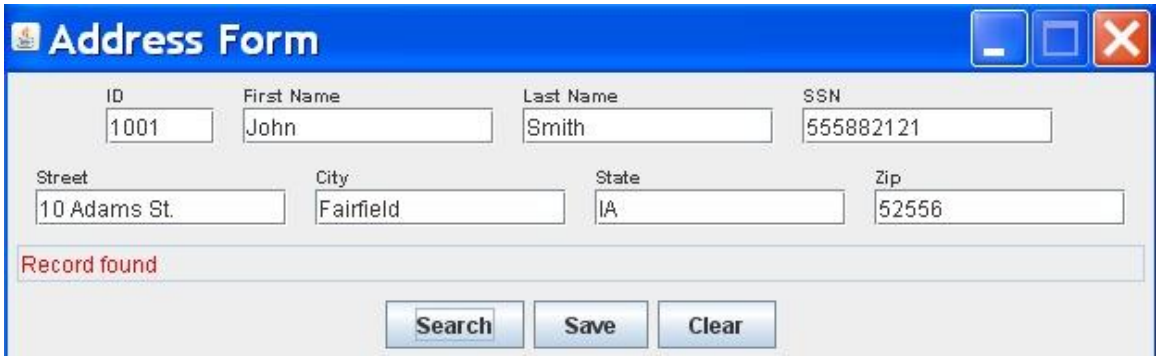


The GUI should work in the following ways (be sure that the database server is running and that derbyclient.jar has been added to the project):

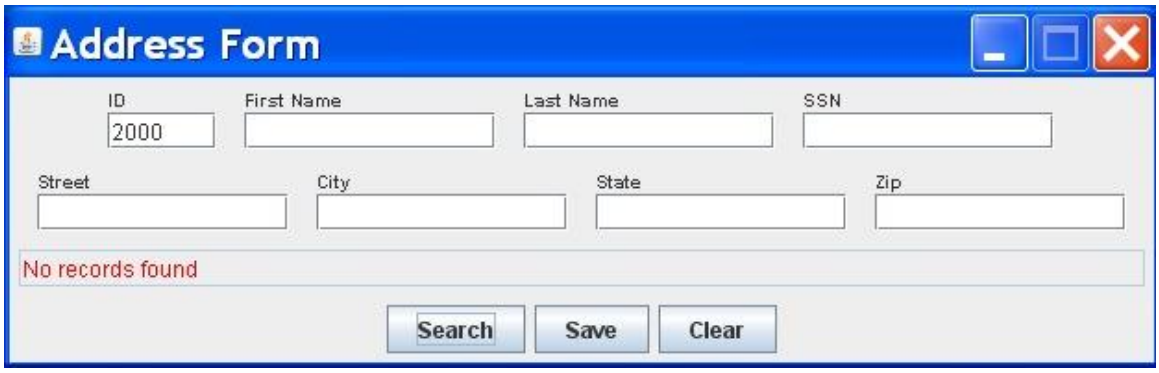
Search



Clicking the Search button should read the ID field and thenexecute a SELECT statement, attempting to read data for a PERSON with specified ID and corresponding ADDRESS. If found, the fields in the window should be populated.

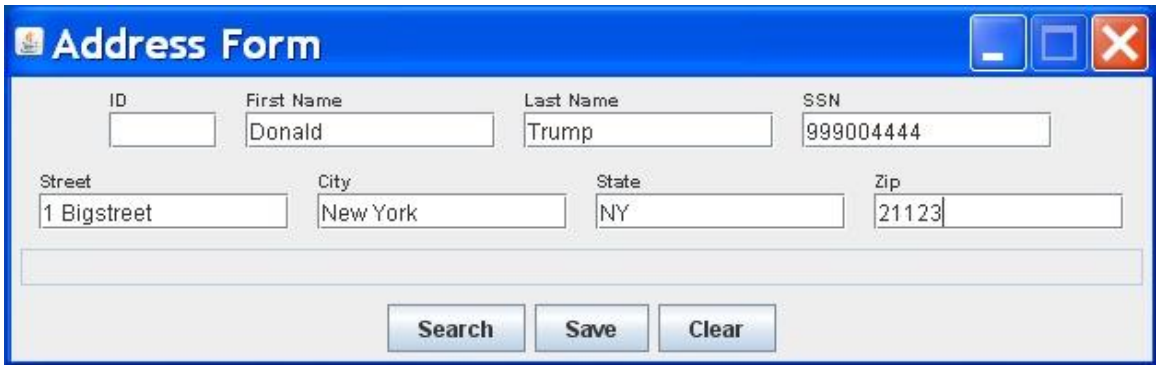


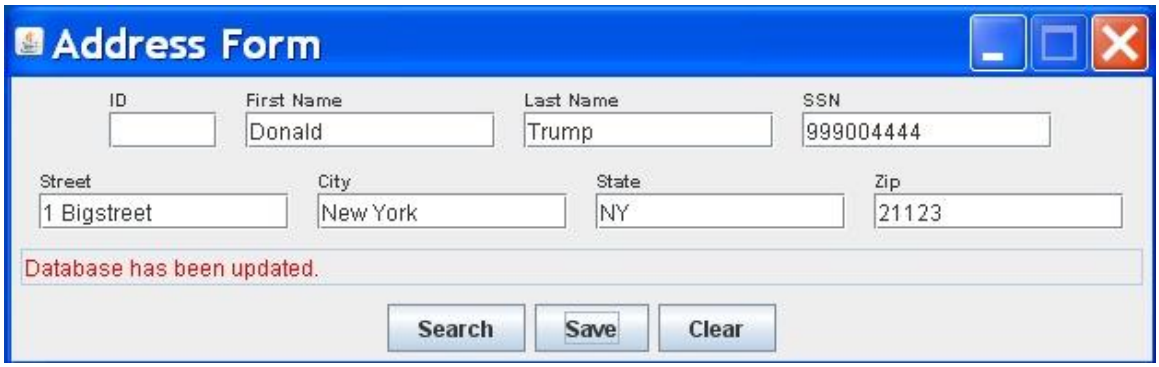
If not found, the string “No records found” should appear in the Status field.



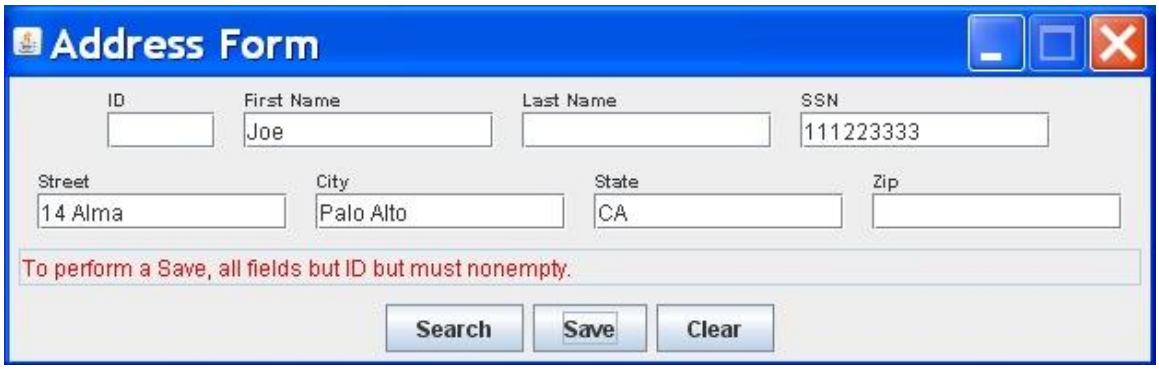
Save

Clicking the Save button should save the data in the fields displayed.



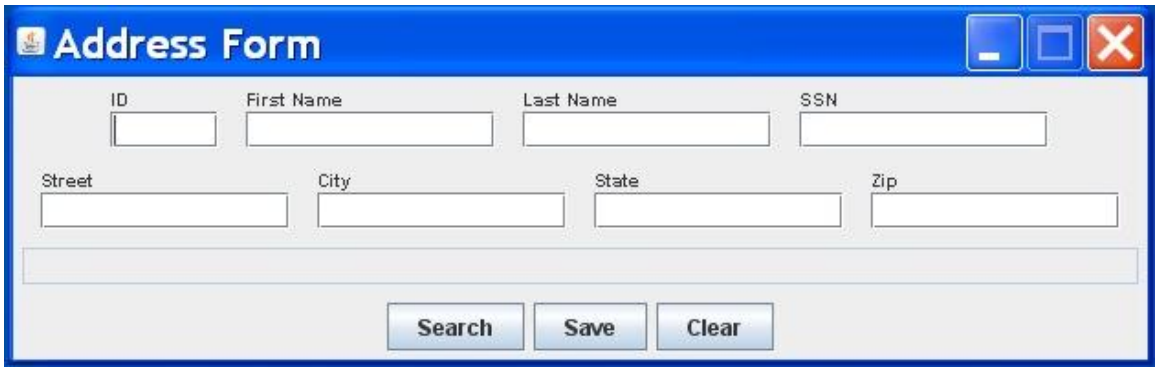


If even just one field is empty, the program will not attempt to save, but will instead put a message “All fields must be nonempty” in the status field.



Clear

The Clear button should empty every field.



Helpful Hint: When reading and saving data to the JavaDB database, you will need to know exact column names. Using the client (run client.bat), you can find this information for, say, PERSON, by typing

describe PERSON;