

STAT:5400, Computing in Statistics
Fall 2017, Homework 6

Due: Mon. 10/23

The following fields are contained in a flat file kept by a piano teacher to store information about her students, who are children.

1. Responsible parent's name
2. Home address
3. Phone
4. Email address
5. Monthly lesson fee (single number covering all kids in family)
6. Child 1 name
7. Child 1 birthdate
8. Child 1 date started lessons
9. Child 1 school
10. Child 2 name
11. Child 2 birthdate
12. Child 2 date started lessons
13. Child 2 school
14. Child 3 name
15. Child 3 birthdate
16. Child 3 date started lessons
17. Child 3 school
18. Child 4 name
19. Child 4 birthdate
20. Child 4 date started lessons
21. Child 4 school

Put this data into third normal form (which implies first and second normal forms as well). Write down what tables would be needed, and for each one indicate:

- all fields (including any new ones you add)

- primary key
- foreign key(s) if any

You may assume that each child has only one responsible parent, but one parent may have many children.

Create a LibreOffice Base (or SQL) database to hold data of this kind. You need only to create the database with appropriate tables and relational links. You do not have to create queries and reports.

To submit your homework, upload a text file with the table descriptions. **You do not need to upload your Base database.**