

22S:166, Computing in Statistics
Fall 2007, Homework 8

Due: Mon. 11/08 in class

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. Monthly lesson fee for all children in family
5. Child 1 name
6. Child 1 birthdate
7. Child 1 date started lessons
8. Child 1 school
9. Child 2 name
10. Child 2 birthdate
11. Child 2 date started lessons
12. Child 2 school
13. Child 3 name
14. Child 3 birthdate
15. Child 3 date started lessons
16. Child 3 school
17. Child 4 name
18. Child 4 birthdate
19. Child 4 date started lessons
20. 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