**clubsAndMembers – Create Database, Tables and Queries**

Consider the followings clubs and members. Assume there is only one Sam, one Julie, etc.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ski** |  | **mt bike** |  | **snowboard** |  | **skydiving** |  | **phoneNumbers** | |
| Sam |  | Julie |  | Walt |  | Quinn |  | Sam | 111-1111 |
| Julie |  | Devon |  | Adrian |  | Adrian |  | Julie | 111-2222 |
| Adam |  |  |  | Quinn |  | Julie |  | Adam | 111-2222 |
| Devon |  |  |  | Julie |  | Walt |  | Devon | 111-4444 |
| Winnifred |  |  |  |  |  |  |  | Walt | 111-5555 |
|  |  |  |  |  |  |  |  | Adrian | 111-4444 |
|  |  | *this is information,*  ***not database tables****!* |  |  |  |  |  | Quinn | 111-7777 |
|  |  |  |  |  |  |  |  | Winnifred | 111-1111 |
|  |  |  |  |  |  |  |  | Quinn | 222-1212 |
|  |  |  |  |  |  |  |  | Julie | 111-1111 |

**Design and implement** a database **clubsAndMembers** that efficiently stores the information. Each name may be stored *only once*. Each phone number is stored *only once*, etc.

Check your work with **select** statements. Use

* appropriate primary keys
* auto increment
* last\_insert\_id

and other techniques as we've done.

Now write queries to answer the following questions. If you can't answer these queries then you may have a design problem.

1. Who is in the ski club?
2. Who's in the snowboard club?
3. Who is in each club? One query, display neatly.
4. What clubs is Sam in?
5. What clubs is each student in? One query, display neatly.
6. What are the phone numbers of the ski club members? With names of course.
7. Who has the phone number 111-2222?s Be sure to list everyone.
8. What clubs are the 111-2222 owners in?
9. How many persons are in each club?
10. Who is in both the snowboard and ski club? Can you answer this with what you know?