

CSE 344 Section 10

Use the Mondial dataset in HW7 to solve the following problems.

1. Return the set of all mountains (i.e., 1 tuple with 1 attribute containing the collection of all mountains).
2. Return each mountain one by one (i.e., a collection of tuples that each contain 1 mountain). Compare it to Problem 1.
3. Return name, type, and height for each mountain, in descending order of the height.
4. Find mountains located in more than 1 country. Return the mountain names and counts.
5. For each country, return the country name and a list of all the mountain names in that country.

Suppose that we store all the data for our social network in a single dataset of Users:

```
[ {"handle": "biebs",
  "name": "Justin Bieber",
  "home_city": "Somewhere, Canada",
  "bio": "...",
  "friends": ["kimkardashian", "shaq", ...],
  "messages": [
    {"text": ":-* :-* :-* :-*", "from_city": "Los Angeles, CA"},
    {"text": "New. Music. Friday.", "from_city": "Los Angeles, CA"}, ...
  ]
}, ...]
```

6. For each home city, compute a list of users from that home city. Your query should return a list where each element consists of a home city name and a list of user handles.

7. Return pairs of users that have at least one common friend.