1   SQL

Questions

1.1   We will be working with a Facebook-like website called Fakebook. There are four tables in our Fakebook data, described below:

people(name, age, state, hobby): a person on Fakebook

posts(post_id, poster, text, time): a post with its creator and creation time (in minutes, starting at 0)

likes(post_id, name, time): a like – post_id of the post that was liked, name of person who liked the post, and time (in minutes) of like

requests(friend1, friend2): a friend request from friend1 to friend2

If you wish to try these questions out on your sqlite3 interpreter, you can download a .sql file with the data we'll be working with can be found here:
https://links.cs61a.org/guer06-data

Write a query to find the name and age for each person on Fakebook who is 26 years old or younger

1.2   Write a query to find the name of the poster and the time of each post on Fakebook before minute 230

1.3   Write a query to find the names of users who have liked their own post

1.4   The requests table stores all requests from one person to another. Two people are only friends if both people requested to be friends with the other. Create a table **friends** that has two columns, **(friend1, friend2)**, which contain the names of each friend pairing. For example, if Hali sends a friend request to Joe and Joe

sends a friend request to Hali, both Joe—Hali and Hali—Joe should appear in the table.

1.5   Recall: The aggregate functions MAX, MIN, COUNT, and SUM return the maximum, minimum, number, and sum of the values in a column. The GROUP BY clause of a select statement is used to partition rows into groups. HAVING filters through the groupings from the GROUP BY clause.
Write a query that outputs all names of people who have at least 4 friends

1.6   Write a query that outputs the states that Will's friends live in, and how many friends are in each state

1.7   Write a query that outputs the text from every post that was liked within 2 minutes of post time

1.8   Write a query that outputs every pair of people that share the same hobby, as well as that shared hobby. Make sure your output doesn't have duplicate pairs (e.g. A—B and B—A should not both appear in the output).

1.9   Write a query that outputs the counts of the number of people that live in each state, with each state listed in descending order of count

1.10   Send a friend request by inserting a new friend request from 'Denero' to 'Hilfy'

1.11   Help Fakebook user 'Denero' send a friend request to every person who liked post 349 by inserting into requests

1.12   Change the hobby of every person whose name is Joe to CS

1.13   Create a table num_likes with columns: name, post_id, number. Each row should

contain a posters name, a post_id, and number of likes for that post

1.14 Carolyn is a bit shy. Delete all of her posts in the num_likes table with fewer than 4 likes

1.15 Create an empty table called privacy with columns name and visibility which should hold the default to everyone.

1.16 Add Hermish to privacy using the default value.