

Schema

We store a single tuple per date event with the two associated ssns per our schema document. see_again in our schema represents the decision of the couple and if they want to see each other again. This schema design reduces the redundancy of storing multiple date event information for both clients and simplifies querying.

We assume that a given client has children with unique names.

We assume that a given client will not have the same crime description.

We don't allow two clients to go on more than one date in the same day with each other.

A client may only be charged one fee per day, which means they won't be charged a match fee and a registration fee on the same day, nor will they be charged multiple match fees on a single

We don't store total balances due for client payments because specialists are able to calculate these values based simply on the payments table.

Users are deleted using on delete cascade, so records of their previous dates with other clients will be removed.

According to the client search, a client may appear as a potential match for themselves. We assume that they will be intelligent enough to not schedule a date with themselves.

Interpretation of fees

A match is considered to occur every time a client uses the client search UI to schedule a date, regardless of whether or not they've scheduled dates with the other client previously. It is assumed that if users are happy with a match, they would not continue to use the dating service to schedule dates with their newfound companion. A user's first two matches are free. A match fee is charged starting from the third match. If a user continues searching and accrues five separate matches, the fifth match is free. A match fee is charged for the sixth match, if they request one. If they continue and schedule a seventh match, there will be no match charge, but they will be charged a new registration fee. Afterward, every match charges a match fee.

Specialist Functionality

When a specialist adds, updates, or deletes a date, the fees do not automatically update. The specialist would most likely only be modifying the dates in special circumstances and may want more control over the fee that is charged. The specialist can also add, update, and delete corresponding fees for any dates. There is no option to update criminalRecord or interests

because it seems frivolous as the tables only hold the client's ssn and one other value. If there is an error the specialist can delete the criminalRecord or interest and simply add a new one.

Other Users

There is an "upper level" user who can see all of the same details of the specialist but cannot insert, delete, or update information.

The "entry level" user can not see the ssn or phone number and cannot insert, delete, or update information.