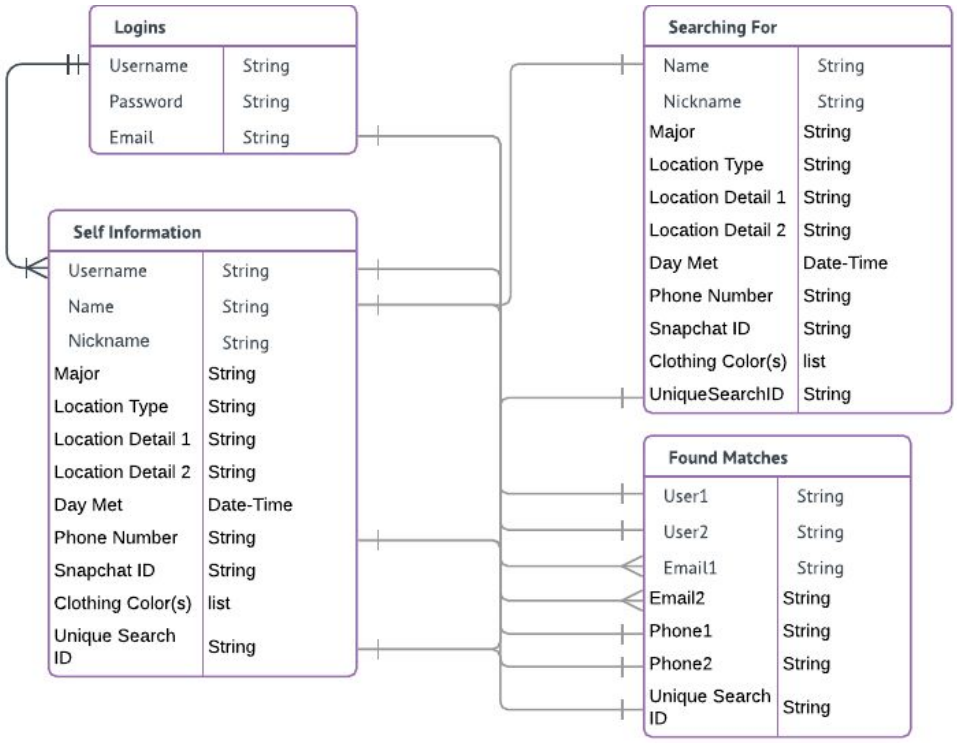
Our database will have four tables. One for storing logins, self identified information, information one is looking for in others, and one for found matches. The logins table contains usernames, passwords and emails. All of these are primary keys in the logins table as each user has only one login/account associated with them, and duplicate values are not accepted. (Passwords by chance may repeat, but are still primary keys). Each username corresponds to a username column in the self information table. This relationship is one to many, one username can have many entries in self information, making the username in self information a foreign key. The self information will have a long list of columns that the user inputs from the web page about the individual they are looking for. Not all of these columns will have values, if a value is not entered we will have “” or “NA” be in the column. The user will also enter all the information they know about the individual they are searching for, both of these values will be stored with the same search ID for one user (a one to one relationship). When a user creates a new search, their values entered for themselves is compared with every other entry in searching for. If 3 of the columns match, the new input’s searching for information is then compared with another users self information, if 3 of the columns also match, a match has been found, and a new entry is added to found matches, using the first users unique search ID (a one to one relationship). Within found matches, we will store each users username, derived from their self information entry (this also corresponds to the username in logins), each users emails from their logins (a foreign key in found matches as there can be multiple entries with the same email), and if both users entered it within their self information, a phone number (as a user can have multiple matches and use the same phone number for each this value may not be unique).

Note on the location columns:
The location column will have a type selected from a dropdown box i.e. school, party, other. Based on the selected option for type, a location detail 1 will allow users to provide more information based on what they chose for the first option. For example if the type is school, the location detail 1 will be a list of buildings on campus, if the type is party location detail 1 will be a list of type of parties i.e. house, frat, fundraiser event. Location detail 2 will be used by users to enter any additional information on the location they would like, for example what house or what class they met at.


Logins
Username String
Password String
Email String
Searching For
Name String
Nickname String
Major String
Location Type String
Location Detail 1 String
Location Detail 2 String
Day Met Date-Time
Phone Number String
Snapchat ID String
Clothing Color(s) list
UniqueSearchID String
Self Information
Username String
Name String
Nickname String
Major String
Location Type String
Location Detail 1 String
Location Detail 2 String
Day Met Date-Time
Phone Number String
Snapchat ID String
Clothing Color(s) list
Unique Search ID String
Found Matches
User1 String
User2 String
Email1 String
Email2 String
Phone1 String
Phone2 String
Unique Search ID String

```
CREATE TABLE `Logins` (
  `Username` String,
  `Password` String,
  `Email` String
);

INSERT INTO Logins VALUES ('anna123', 'password1',
'anna123@colorado.edu');
INSERT INTO Logins VALUES ('billy456', 'password2',
'billy456@colorado.edu');
INSERT INTO Logins VALUES ('jean891     ', 'password3',
'jean891@colorado.edu');
INSERT INTO Logins VALUES ('linny181', 'password4',
'linny181@colorado.edu');
INSERT INTO Logins VALUES ('jess585', 'password5',
'jess585@colorado.edu');
INSERT INTO Logins VALUES ('jackie991', 'password6     ',
'jackie991@colorado.edu');
INSERT INTO Logins VALUES ('nickie141', 'password7',
'nickie141@colorado.edu');
INSERT INTO Logins VALUES ('sully454', 'password8',
'sully454@colorado.edu');
INSERT INTO Logins VALUES ('nemo987', 'password9',
'nemo987@colorado.edu');
INSERT INTO Logins VALUES ('dory234', 'password10',
'dory234@colorado.edu');

INSERT INTO Logins VALUES ('vanne142', 'password11',
'vanne142@colorado.edu');

INSERT INTO Logins VALUES ('john111', 'password12',
'john111@colorado.edu');

INSERT INTO Logins VALUES ('sammy122', 'password13',
'sammy122@colorado.edu');
```

```
CREATE TABLE `Searching For` (
  `Name` String,
  `Nickname` String,
  `Major` String,
  `Location Type` String,
  `Location Detail 1` String,
  `Location Detail 2` String,
  `Day Met` String,
  `Phone Number` String,
  `Snapchat ID ` String,
  `Clothing Color(s)` String,
  `UniqueSearchID` String
);


INSERT INTO Searching For VALUES ('Jenny', 'Jen' , 'Computer
Science' , 'Party', 'Frat' , '' , ''  , '303-555-5555' , '' ,
'blue' , '000001' );

INSERT INTO Searching For VALUES ('Mike', '' , 'Physics' ,
'Class', 'Physics' , 'Phys 1110' , '' , '' , 'mi_ke' , 'red' ,
'000002' );
INSERT INTO Searching For VALUES ('Paul', '' , '' , 'Party',
'House' , 'Sara's House' , 'April 7th' , '' , ''  , 'red' ,
'000003' );
INSERT INTO Searching For VALUES ('Joe', '' , '' , 'Other',
'Pearl Street' , '' , 'April 4th' , '303-555-5556' , '' ,
'green' , '000004' );
INSERT INTO Searching For VALUES ('Sarah', '' , '' , 'Other',
'Illegal Pete's' , '' , '' , '' , 'sara_snap' ,  'white' ,
'000005' );
INSERT INTO Searching For VALUES ('Amanda', '' , '' , 'Party',
'Frat' , '' , '' , '' , 'amanda_snap' ,  'silver' , '000006' );
```

```
CREATE TABLE `Self Information` (
  `Username` String,
  `Name` String,
  `Nickname` String,
  `Major` String,
  `Location Type` String,
  `Location Detail 1` String,
  `Location Detail 2` String,
  `Day Met` Date-Time,
  `Phone Number` String,
  `Snapchat ID ` String,
  `Clothing Color(s)` list,
  `Unique Search ID` String
);


INSERT INTO Self Information VALUES ('nickie141', 'Nick' , '' ,
'English', 'Party', 'Frat' , '' , 'April 7th' , '303-555-5554' ,
'billy_snap' ,  'silver' , '000001' );


INSERT INTO Self Information VALUES ('sully454', 'Sulivan' , ''
, 'English', 'Class', 'Physics' , '1110' , '' , '303-555-5593' ,
'' ,  '' , '000002' );

INSERT INTO Self Information VALUES ('vanne142', 'Vanessa' ,
'Nessa' , 'Biology', 'Party', 'House' , 'Sarah's House' , 'April
7th' , '303-555-513' , '' ,  '' , '000003' );


INSERT INTO Self Information VALUES ('sammy122', 'Samantha' , ''
, 'Chemistry', 'Other', 'Pearl Street' , '' , 'April 4th' ,
'303-555-5552' , 'sam_snap' ,  'yellow' , '000004' );

INSERT INTO Self Information VALUES ('john111', 'Jonathon' ,
'John' , 'Literature', 'Other', 'Illegal Pete's' , '' , '' ,
'303-555-5553' , 'john_snap' ,  '' , '000005' );
```

```
INSERT INTO Self Information VALUES (‘john111’, ‘Jonathon’ ,
‘John’ , ‘Literature’, ‘Party’, ‘Frat’ , ‘’ , ‘’ ,
‘303-555-5553’ , ‘john_snap’ ,  ‘’ , ‘000006’ );
```

```
CREATE TABLE `Found Matches` (
  `User1` String,
  `User2` String,
  `Email1` String,
  `Email2` String,
  `Phone1` String,
  `Phone2` String,
  `Unique Search ID` String
);

INSERT INTO ‘Found Matches’ VALUES (‘anna123’, ‘billy456’,
‘anna123@colorado.edu’, ‘billy456@colorado.edu’, ‘720-123-4567’,
‘303-123-4567’, ‘102938’);
INSERT INTO ‘Found Matches’ VALUES (‘jean891’, ‘jess585’,
‘815-123-4567’, ‘719-123-4567’, ‘jean891@colorado.edu’,
‘jess585@colorado.edu’, ‘162534’);
INSERT INTO ‘Found Matches’ VALUES (‘jackie991’, ‘linny181’,
‘jackie991@colorado.edu’, ‘linny181@colorado.edu’,
‘719-987-6543’, ‘303-987-6543’, ‘119928’);
INSERT INTO ‘Found Matches’ VALUES (‘nemo987’, ‘dory234’,
‘nemo987@colorado.edu’, ‘dory234@colorado.edu’, ‘720-654-9876’,
‘719-123-4453’, ‘675849’);
```