

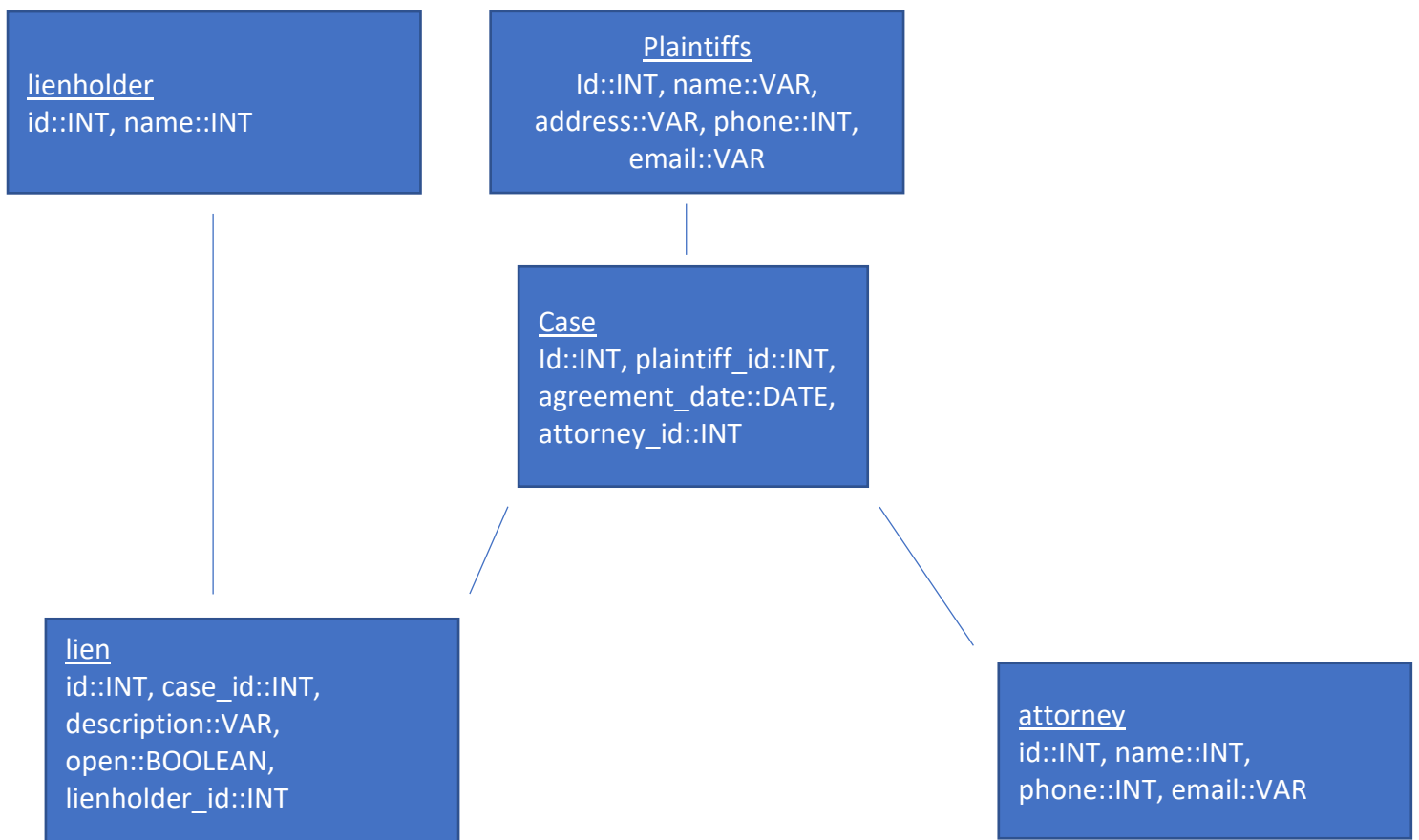
## PYTHON SECTION

Use python to transform the attached csv into multiple tables that match the data model below.

Notes:

- All the required tables and fields are shown below.
- Because there are few data, it is acceptable to use a random number generator for all the ids.
- A name is the same between two rows (plaintiff, attorney, etc) it should result in a single object (row) in that table

**Push all answers to github and share the link with us.** If instructions are unclear or you get stuck, do your best to show your thinking and move to the next step. State your assumptions in markdown.



## SQL SECTION

The sql challenge expands on the schema used in the python section to include a case\_updates, party\_relationships, and law\_firms table. The party\_relationships tables is used because it is possible for a law firm from have multiple attorneys. For the purposes of this exercise you can assume each attorney can have only one law firm.

### Tables

cases [id, plaintiff\_id, agreement\_date, attorney\_id]

law\_firms [id, name, address, phone, email]

lienholders [id, name]

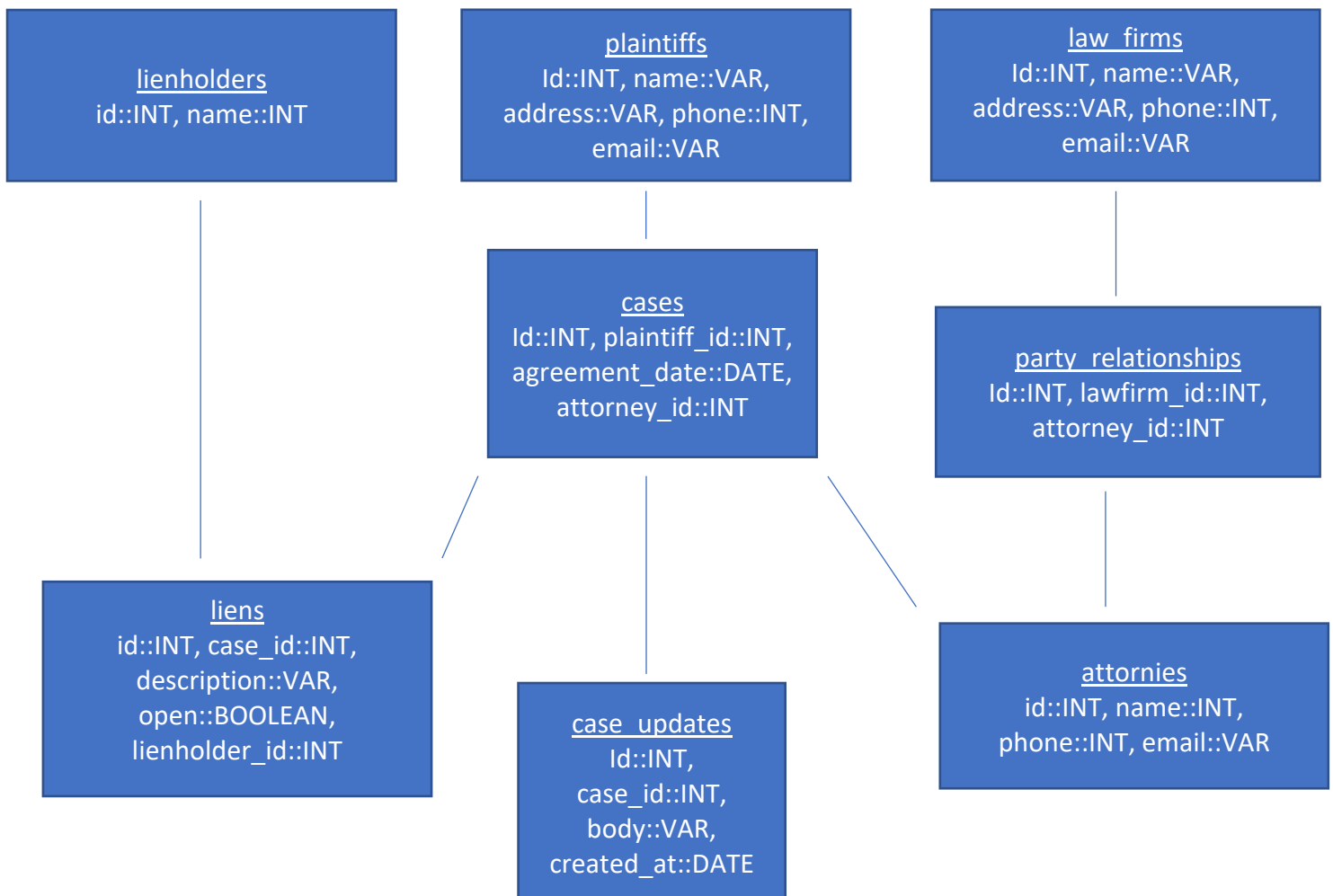
plaintiffs [id, name, address, phone, email]

liens [id, case\_id, description, open, lienholder\_id]

attornies [id, name, address, phone, email]

party\_relationships [id, lawfirm\_id, attorney\_id]

case\_updates [id, case\_id, body, created\_at]



For each of the following, write a SQL query to accomplish the task. You can do this in any flavor of SQL (MySQL, Postgres, etc.), but please state which flavor you are using. If you are unsure about a table's relationships, or a field on a table please make a reasonable assumption and state it in your comments or markdown.

ONE – Pull case id, plaintiff name, attorney name, and lien description for liens held by the lienholder with the name 'General Assembly'.

TWO – Find all unique attorneys, along with their contact info, that are assigned to one or more cases that haven't had a case update in 72 days

THREE (optional) – Rank law firms (id, name) by number of cases associated with it

FOUR – For cases that haven't have an update in 72 days, get each case's status based on if the liens associated are open or closed.

A case can have multiple liens, if all the liens are open, the case is OPEN. If all the liens are closed, then the case is SETTLED. A mix of the both open and closed has the case status of PARTIAL.

Note: the open column on the liens table is a Boolean field. TRUE is open, FALSE is closed