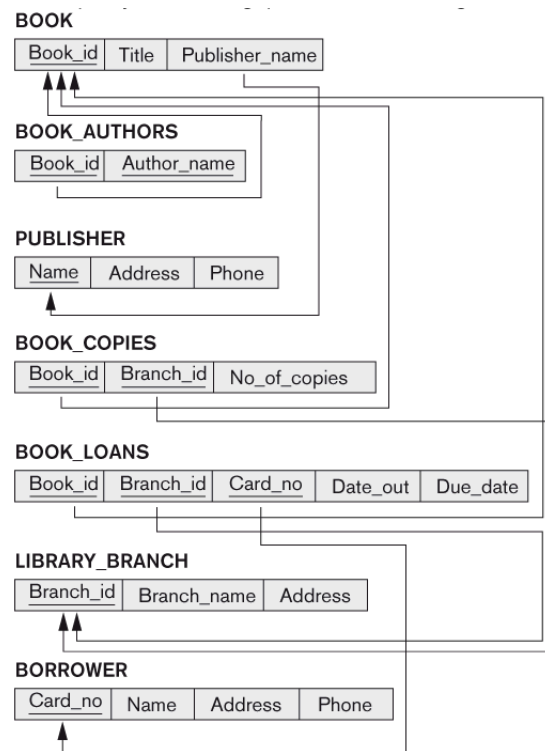1. (30 points)

Figure 1: The schema to be mapped into an ER schema

Try to map the schema in Figure 1 into an ER schema. This is part of a process known as reverse engineering, where a conceptual schema is created for an existing implemented database. State any assumptions
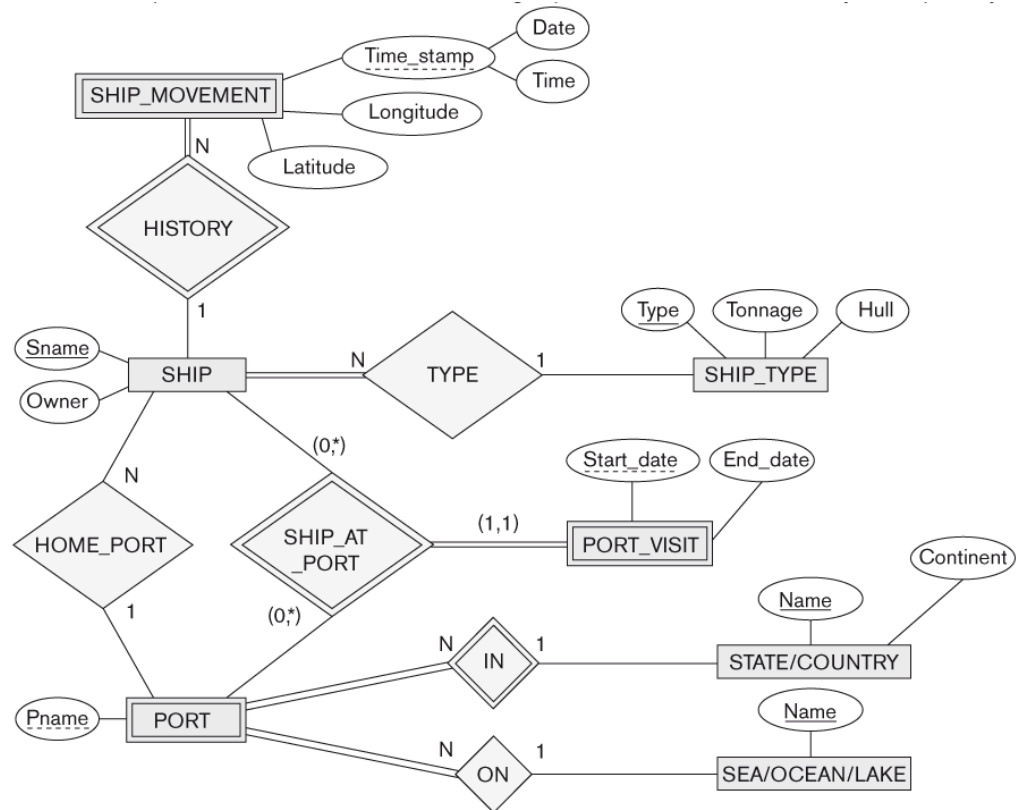
you make.

2. (50 points)

Figure 2: The ER schema for a SHIP_TRACKING database

Figure 2 shows an ER schema for a database that may be used to keep track of transport ships and their locations for maritime authorities. Map this schema into a relational schema, and specify all primary keys and foreign keys.