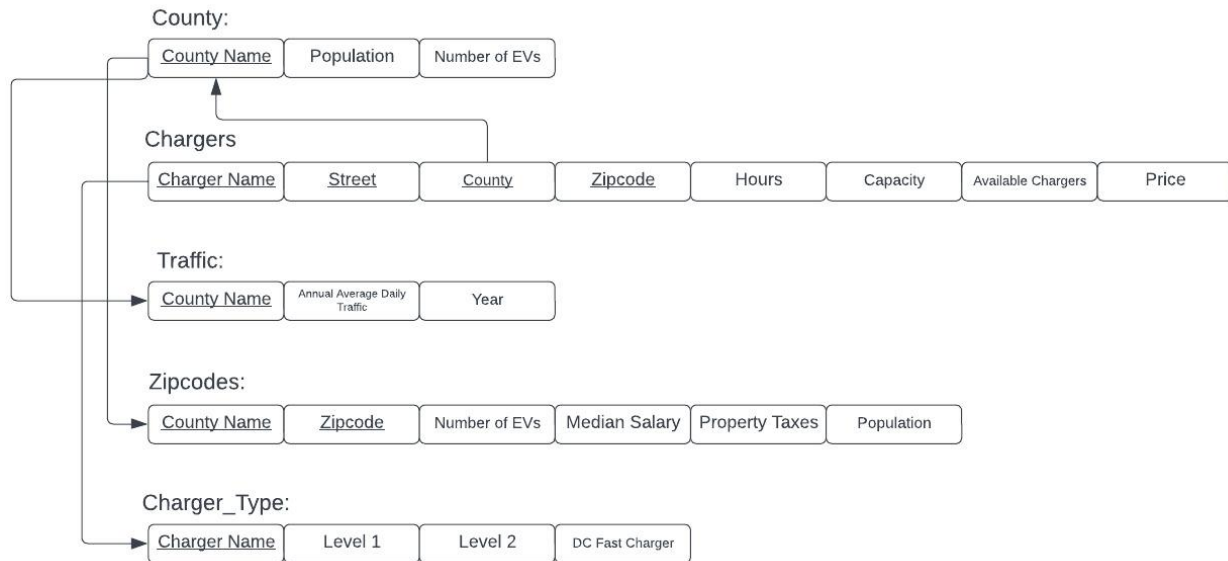


# Phase III: Database Schema



There are exactly 21 counties in the state of New Jersey. As a result, we can assume that the tables for County and Traffic will contain a maximum of 21 tuples. These relations may require only simple searches, as county name is the primary method of identification.

There are exactly 729 zipcodes in the state of New Jersey. As a result, we can assume that the table for Zipcodes will contain a maximum of 729 tuples. This relation may require more complex queries in order to retrieve more in depth information about a specific zipcode.

There are exactly three types of EV chargers. As a result, the Charger\_Type relation will contain exactly 3 tuples. This relation will only require simple searches to retrieve information about charger type.

The table for Chargers is not a fixed sized table. It is possible that new chargers may be opened up in different parts of the state. Currently, there are over 300 EV chargers in the state of New Jersey, but this number is expected to grow in the future. Complex queries may be required for this relation to retrieve more in depth information about specific features of a charger.

#### Appendix: Updated Schema

County(county\_name, number\_of\_evs)  
Zipcodes(zipcode, median\_income, households)  
Zipcodes\_nj(county, zipcode)  
Traffic(county\_name, traffic\_count, year)  
Charger(charger\_name, street, zipcode, ports)