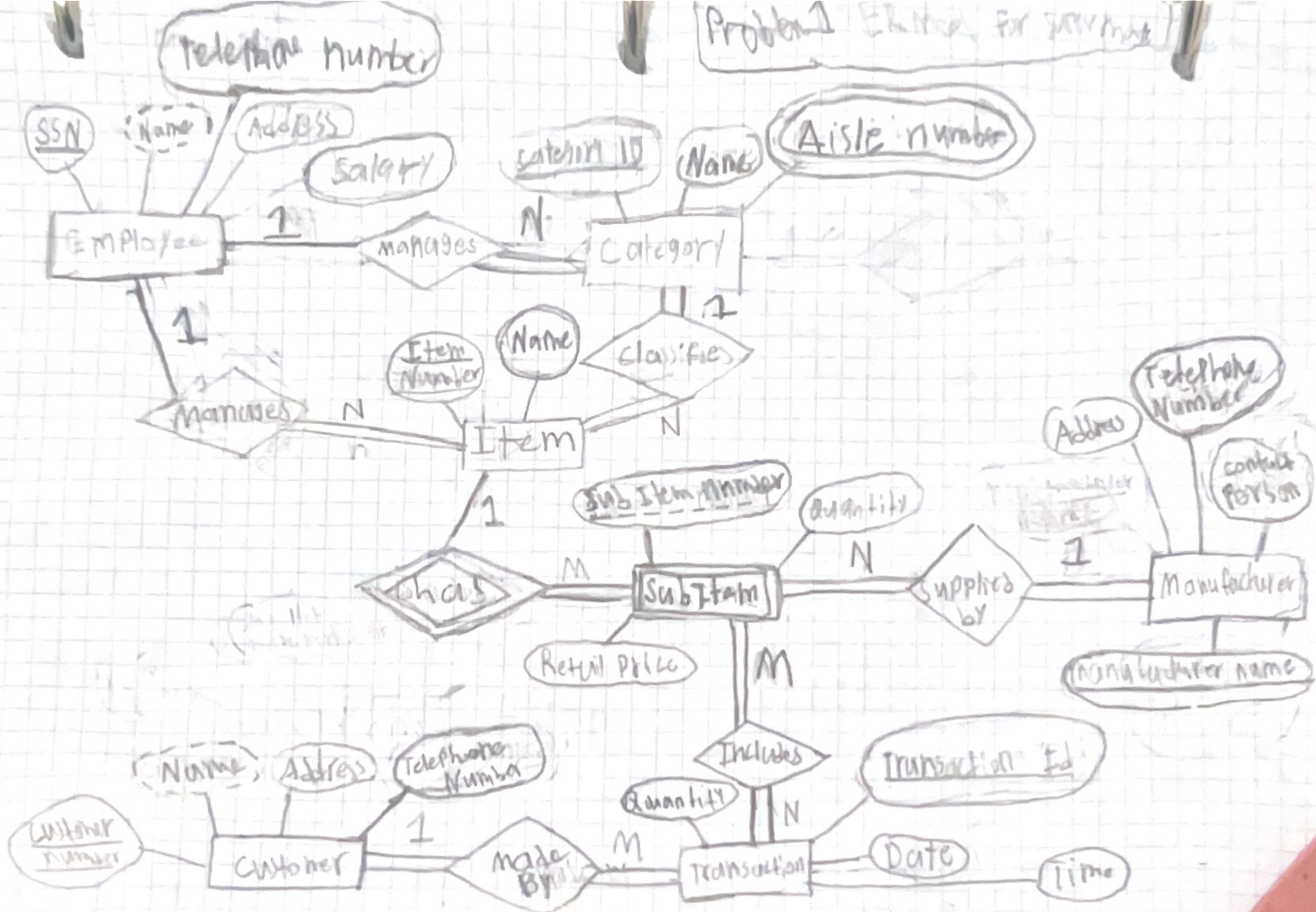


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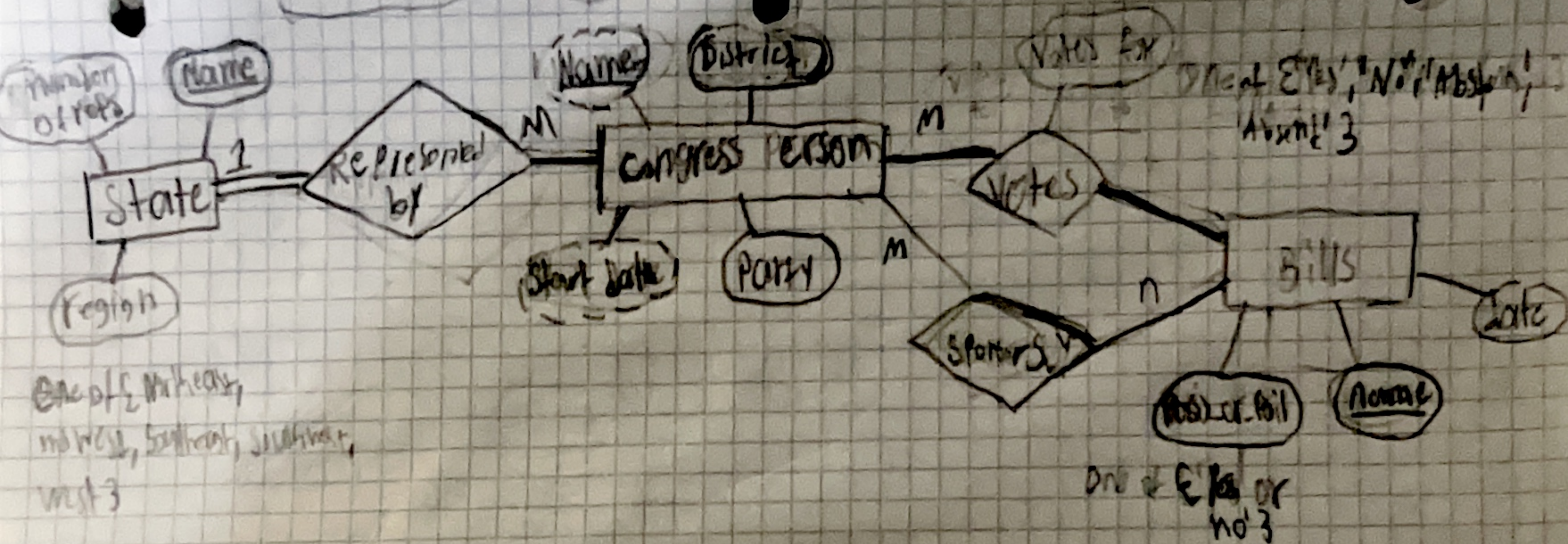


Problem 1 ER Model for supermarket





# Question 2: Logical ER



Given that there are no partial attributes, there are no weak entities, nor any identifying relationships. Each state belongs to one region. A congressman can be affiliated with one party, there are many representatives in a state. A bill can have multiple sponsors, if the vote is yes, it gets added to the tally, if the tally is greater than majority. The states have to totally participate in congress, not all of the congressmen in the state have to represent their state when voting, not all congressmen have to vote. Not everyone's votes to vote for the bill to pass. There is no has relationship or composite relationship, which shows there's no identifying relationship.