

Project Phase II
Group 5
Team Five
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REACH Alternative Breaks Database

Step 1: Updated Requirements for ER Diagram

Trip Leader:

For each trip leader, the system will store a unique trip leader ID, the trip leader's name, their unique phone number and email address, their campus residence, assigned learning partner, and their emergency contact which also includes the name and phone number of the emergency contact. Trip leaders will be assigned to many participants, and will choose one service location.

Participants:

For each participant, the system will store a unique student ID number, the participant's name, their unique phone number and email address, their campus residence, any restrictions that they might have such as dietary restrictions or allergies, and their emergency contact which will include the name and number of the emergency contact. Participants are directly responsible for their finances. Participants are assigned to exactly two trip leaders, and a single service location.

Finances:

The finances system will store the total cost per student ID number, as well as the costs for things such as work supplies, food, and t-shirts. Participants are directly responsible for the finances, because they fund the trips.

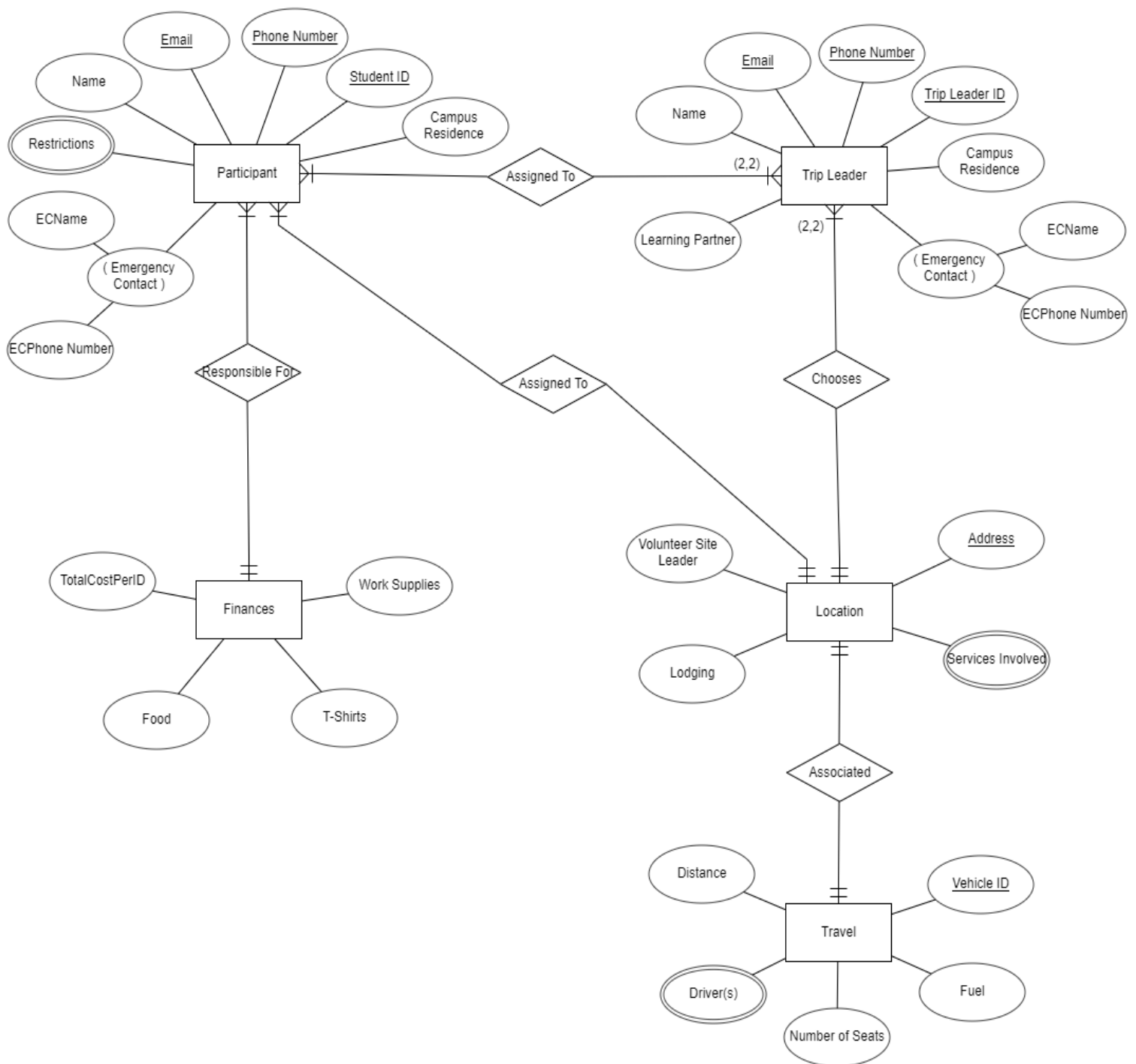
Location:

For each location, the system will store a unique address, the service or services that will be performed at said location, the Volunteer Site Leader, necessary lodging information, as well as the assigned student IDs. Location is directly associated with Travel as traveling is required to get to the service location. Many participants are assigned to one location, and trip leaders choose the location they go to. Exactly two trip leaders are assigned per location.

Travel:

The Travel system will store a unique Vehicle ID, as well as the distance needed to travel, the number of seats needed, the required amount of gas, and the driver or drivers permitted to drive the vehicle. Travel is directly associated with location because you cannot travel without a location, and travel is needed to get to the specified location.

Step 2: ER Diagram



Step 3: Relational Schema

