Assignment 01: ER Review

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In the given Scenario we have GUEST , ROOM, LOCATION, MEMBERSHIP , RIDES as Entities and there relation is as follows

* Each guest can reserve zero or many rooms, and rooms can be reserved by zero or many guests  
  (reserved by many guests on different dates).
* Each location may have zero or many rooms, but each room belongs to only one location.
* Each guest must have one membership, and each membership is linked to only one guest.
* Each guest can take multiple rides, but each ride is associated with only one guest.

Here the relation ship between all the Entities is strong because at least one of them is weak entity in the relationship. Only the Relationship between GUEST and ROOM is a week relationship which is marked in dotted lines because they both are strong entities. As the relationship is weak we have created an associative entity GUESTROOM and made the relationship strong between GUEST to GUSTROOM and GUESTROOM to ROOM. The relation ship between GUEST to GUESTROOM is optional many and GUESTROOM to GUEST is Mandatory one . The relationship between GUESTROOM to ROOM is Mandatory one and the relationship from ROOM to GUESTROOM is optional many .

The detailed relations between the Entities are shown in the ER diagram below .

A diagram of a company

Description automatically generated