

### Assumptions :

- (1) A blood bank has branches in all the important cities of the state whose date of inauguration is maintained
- (2) It can accept blood of different types
- (3) There are different donors whose information is to be maintained. Each donor can donate blood to different people
- (4) Each receiver can take blood from different donors. The receiver's information is also maintained which includes amount of blood taken and payment details
- (5) Since donors can register for donation before they have done a donation, it's not necessary for every donor to have a donation
- (6) Every donation has association with at least one donor

### JUSTIFICATION :

- (1) In donation entity, donationID, donorID and BranchID together forms a composite primary key
- (2) In BloodRequest entity, RequestID and BranchID together forms composite primary key because RequestID is not universally unique.
- (3) From Person entity, both Receiver and Donor entities are overlapping. The attributes Age, Name, Gender, ContactNo and Address are connected by foreign key
- (4) BloodType, BloodBankBranch and Hospital entity are aggregated and has a relation of 'distributes' with distribution entity
- (5) Total participation has been included in donation entity with respect to assumption (6). Partial participation has been indicated in assumption (5)