Blood Donation Management System

Group Number: 37

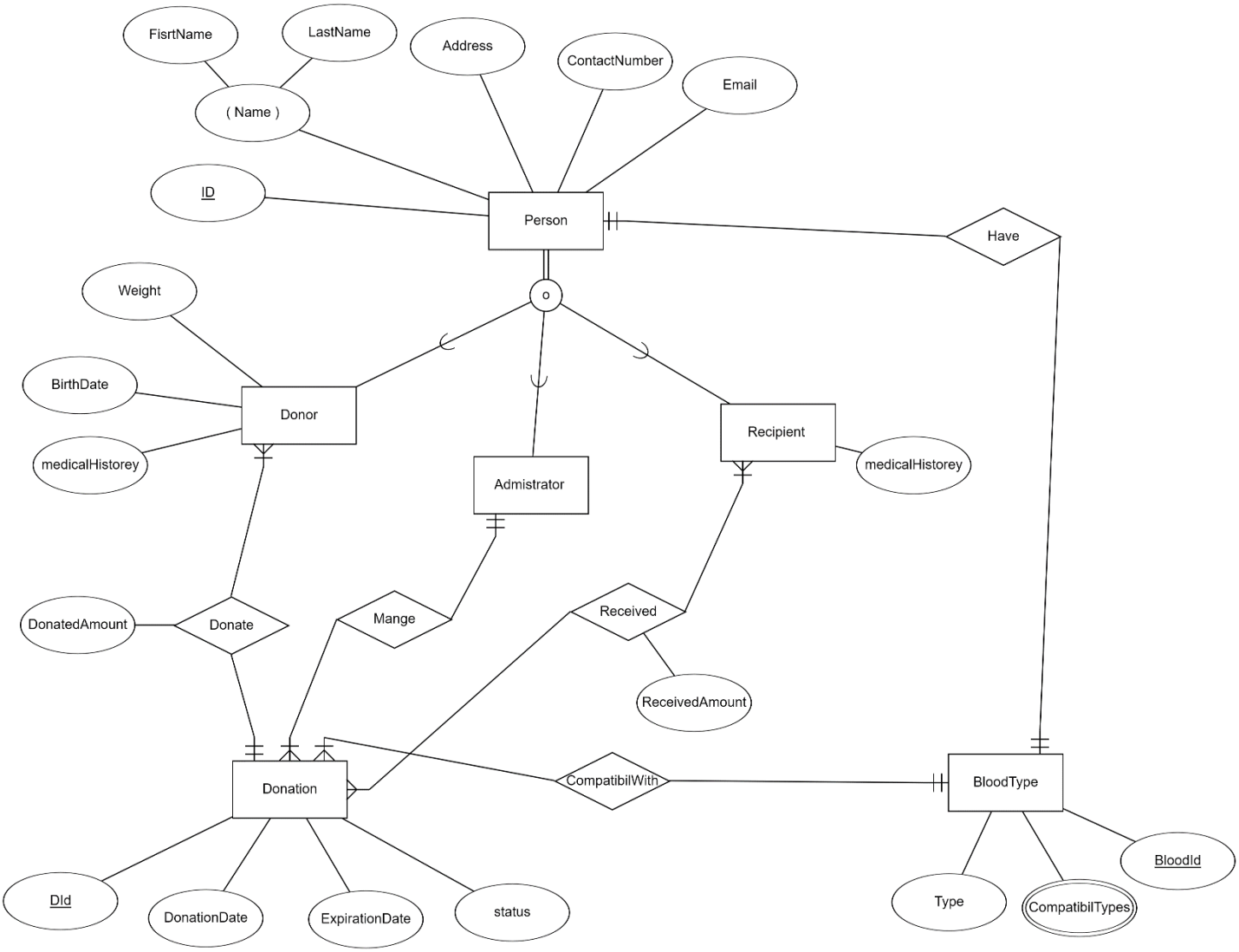
Phase 1

Members

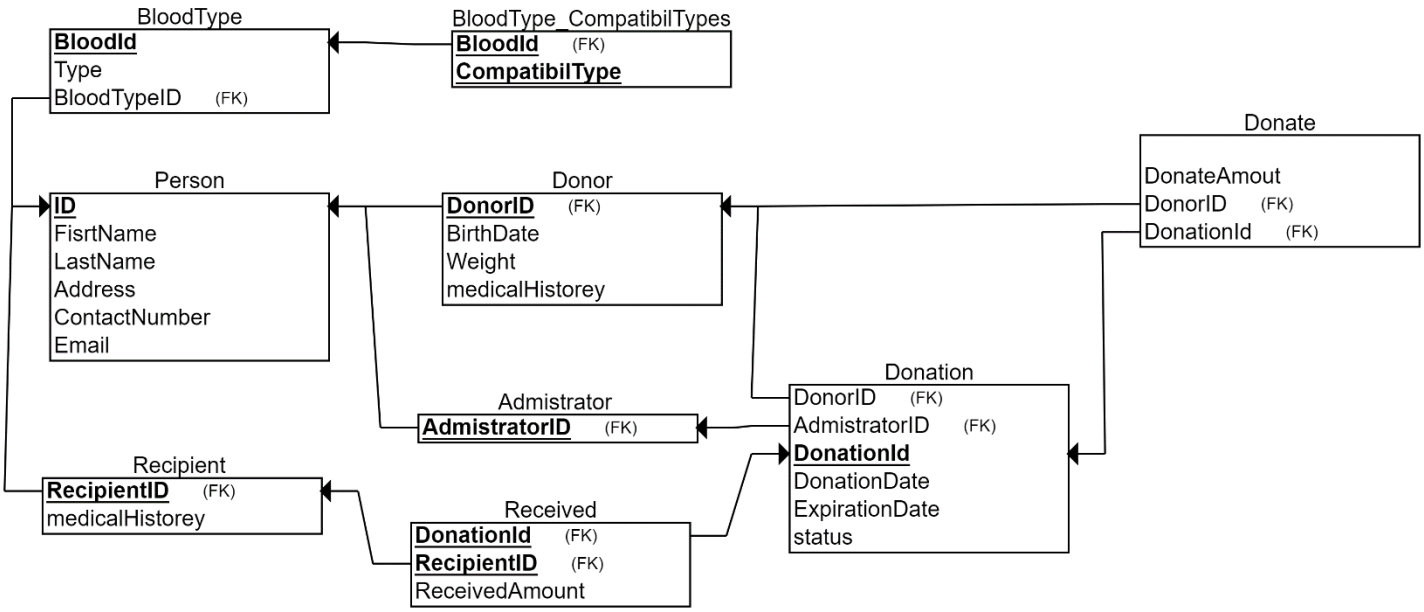
Name	ID
Hassain Alsayhah	202028180
Mohammed Almubarak	202024880
Feras Alhasmi	202031280

NOVEMBER 5, 2023

EER Model


FisrtName
LastName
Address
ContactNumber
Email
(Name)
ID
Person
Have
Weight
o
BirthDate
Donor
Recipient
medicalHistorey
Admistrator
medicalHistorey
DonatedAmount
Donate
Mange
Received
ReceivedAmount
Donation
CompatibilWith
BloodType
BloodId
DId
DonationDate
ExpirationDate
status
Type
CompatibilTypes

Relational Schema



Assumptions

1- Each person has a unique ID.
2- Each person has a first name and a last name.
3- Each person has a blood type
4- A person can be a donor, a recipient, or an administrator at the same time.
5- A Donor has a weight.
6- Each donation has a donated amount
7- The compatibility between the recipient and the donor's blood types can be determined by referring to a blood type table, which identifies the compatible types for transfusion validation.
8- Each donation has a donation date and Expiration Date.
9- Each donation has a status of either passed or failed.
10- The administrator can manage many donations, collecting, storing, distributing, etc.
11- The recipient has a medical history.
12- Each donation has a received amount.
13- Each blood type has a unique ID.
14- Each blood type has a compatible blood type or more.

Semantic requirements that cannot be captured in the EER model.

1- Each donor must be:

At least 17 years old

Weigh at least 114 lbs.

Be free of major diseases.

2- Blood collection drives scheduling every 3 months.
3- Monitoring expiration dates of stored blood.
4- Incident tracking (capturing details of process failures).
5- Usage trend reports.

Contribution

Name	Contribution
Hassain Alsayhah	33.34
Mohammed Almubarak	33.33
Feras Alhasmi	33.33