GROUP 12 : Blood Bank

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Relational schema : BLOOD BANK

BloodBankBranch (Branch_ID, BranchName, City, State, DateofInaugration, TotalUnitsStored)

BloodType (BloodTypeID, BloodGroup, Total_Units, QualityStatus, StorageDuration)

Donor (DonorID, Name, Age, Gender, ContactNumber, Address, BloodType, Last_DonationDate)

Recelievers (RecieverID, Name, Age, Gender, Contact_Number, Address, BloodTypeID, Date)

Donation (DonationID, DonorID, BranchID, DonationDate, QuantityDonated, QualityStatus, UrgencyLevel)

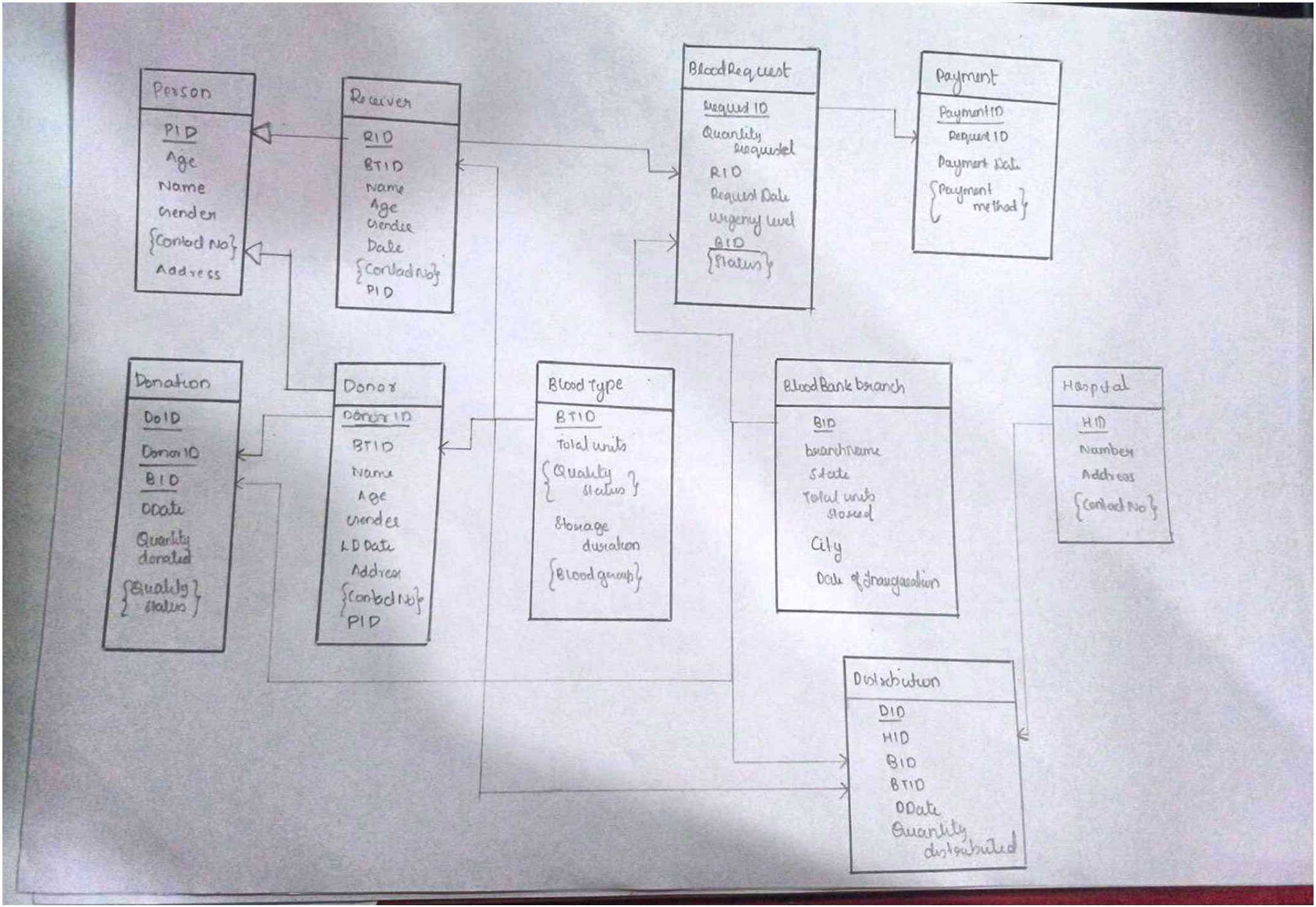
BloodRequest (Request_ID, Reciever_ID, BranchID, RequestDate, QuantityRequested, status, UrgencyLevel)

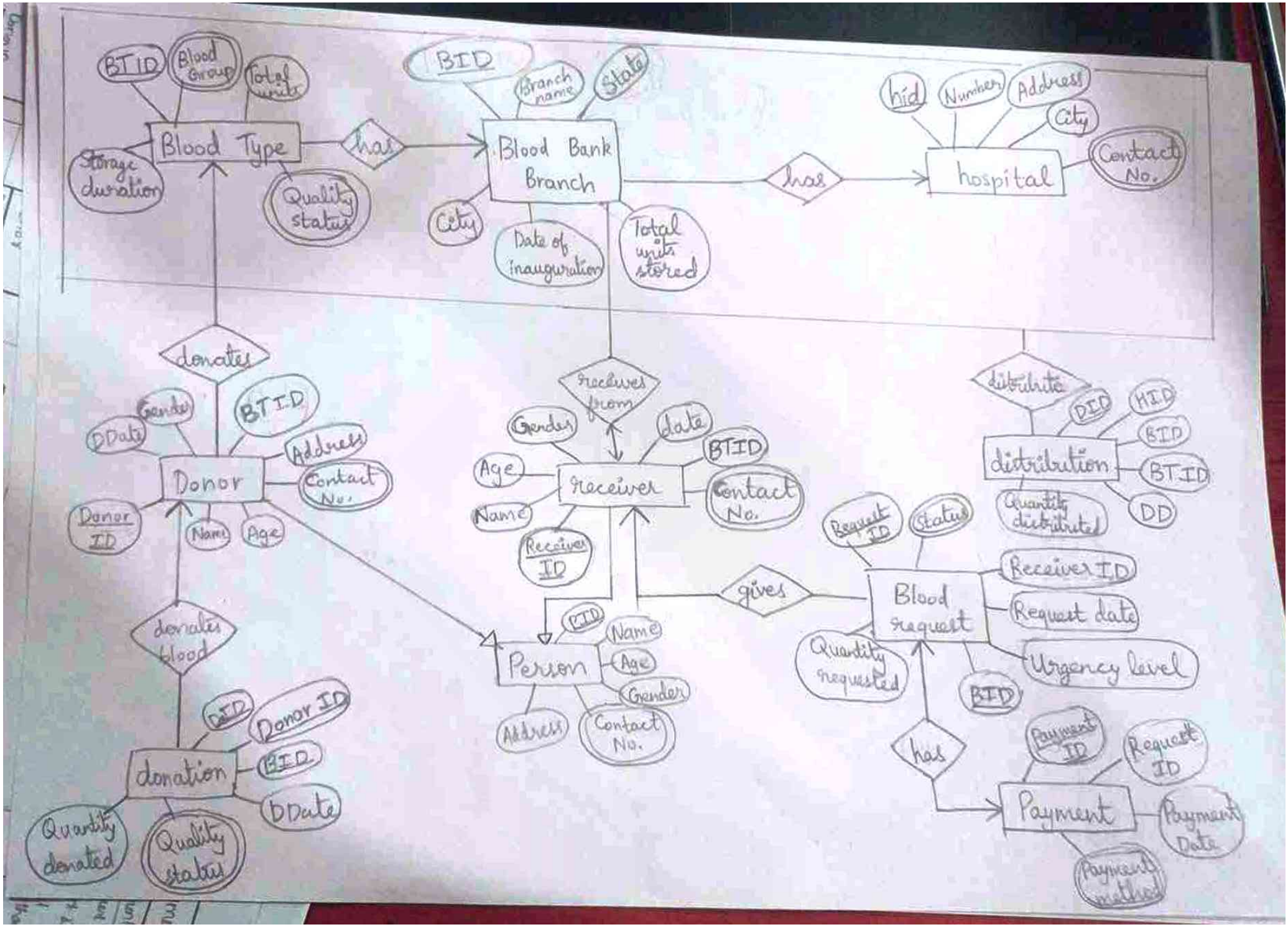
Person (Person_ID, Name, Age, Gender, Contact_Number, Address)

Payment (Payment_ID, Request_ID, AmountPaid, PaymentDate, Payment_Method)

Hospital (Hospital_ID, Hospital_Name, Address, City, Contact_Number);

Distribution (Distribution_ID, HospitalID, BranchID, BloodTypeID, DistributionDate, Quantity)


Person
PID
Age
Name
Gender
{Contact No}
Address
Receiver
RID
BTID
Name
Age
Gender
Date
{Contact No}
PID
BloodRequest
Request ID
Quantity requested
RID
Request Date
Urgency level
BID
{Status}
Payment
PaymentID
Request ID
Payment Date
{Payment method}
Donation
DoID
Donor ID
BID
DDate
Quantity donated
{Quality status}
Donor
Donor ID
BTID
Name
Age
Gender
LD Date
Address
{Contact No}
PID
Blood type
BTID
Total units
{Quality status}
Storage duration
{Blood group}
Blood Bank branch
BID
branchName
State
Total units stored
City
Date of transaction
Hospital
HID
Number
Address
{Contact No}
Distribution
DID
HID
BID
BTID
DDate
Quantity distributed


BTID
Blood Group
Total units
Blood Type
has
Storage duration
Quality status
BID
Branch name
State
Blood Bank Branch
City
Date of inauguration
Total units stored
hid
Number
Address
City
hospital
Contact No.
lose
donates
Gender
DDate
BTID
Address
Contact No.
Donor
Donor ID
Name
Age
receives from
Gender
date
BTID
Age
receiver
Contact No.
Name
Receiver ID
distribute
DID
HID
BID
BTID
distribution
Quantity distributed
DD
Request ID
Status
Receiver ID
Request date
Urgency level
gives
Blood request
Quantity requested
BID
has
donates blood
DID
Donor ID
BID
DDate
donation
Quantity donated
Quality status
PID
Name
Age
Gender
Person
Address
Contact No.
Payment ID
Request ID
Payment
Payment Date
Payment method

Assumptions :

* A blood bank has branches in all the important cities of the state whose date of inauguration is maintained.
* It can accept blood of different types
* There are different donors whose information is to be maintained. Each donor can donate blood to different people.
* each reciever can take blood from different donors. The reciever's information is also maintained which include the amount of blood taken and payment details.
* ~~A good~~ In donation entity, DonationID, DonorID, and BranchID together forms a comforite primary key
* In BloodRequest entity, RequestID and BranchID together forms composite primary key because RequestID is not universally unique
* From Person entity, both Reciever and Donor entities are overlapping, ∴ the attributes Age, Name, Gender, ContactNo and Address are connected by foreign key.
* BloodType, BloodBankBranch and Hospital entities are aggregated and has a relation of distributes with Distribution entity
* All other foreign keys are represented in schema diagram