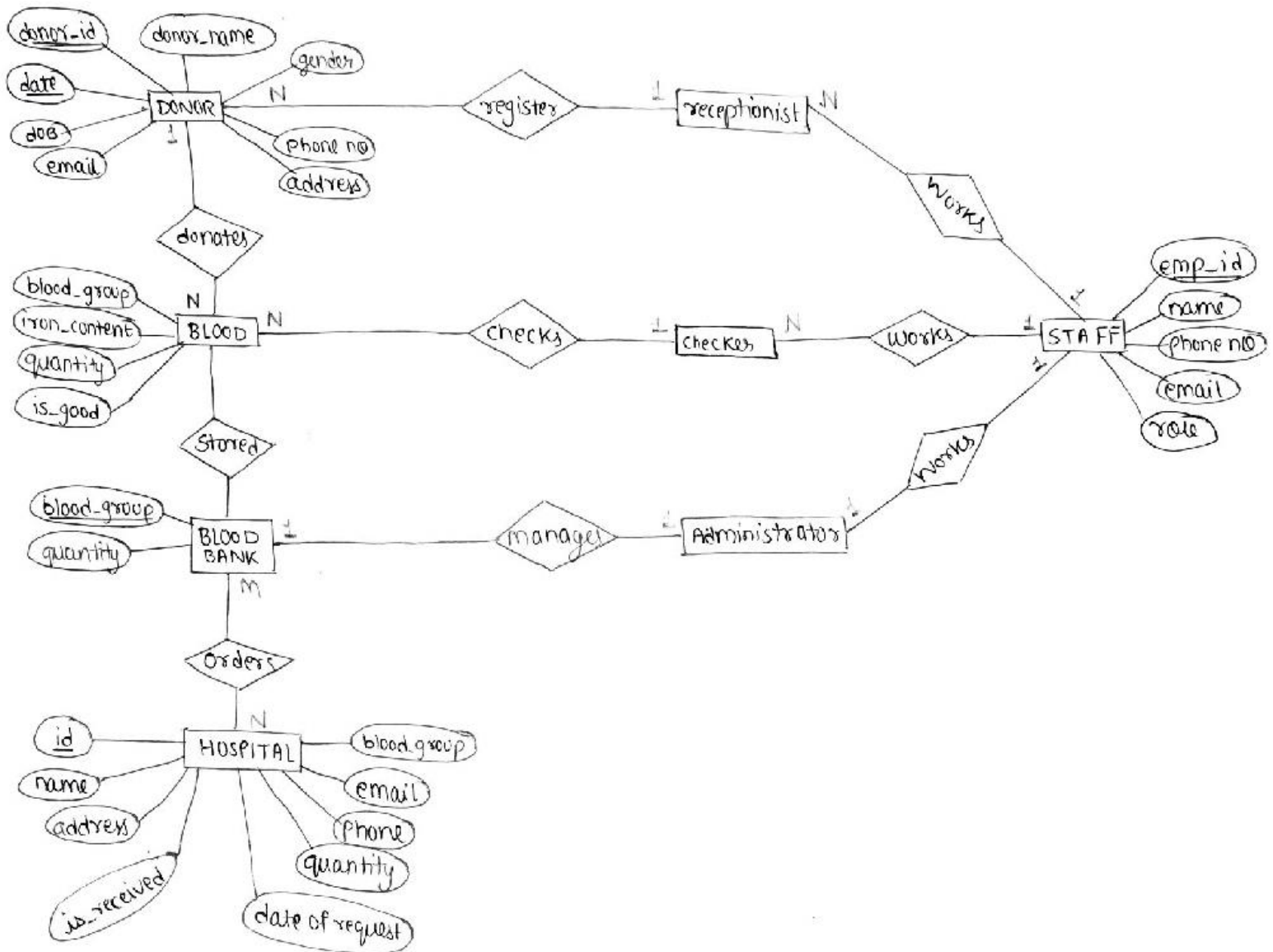
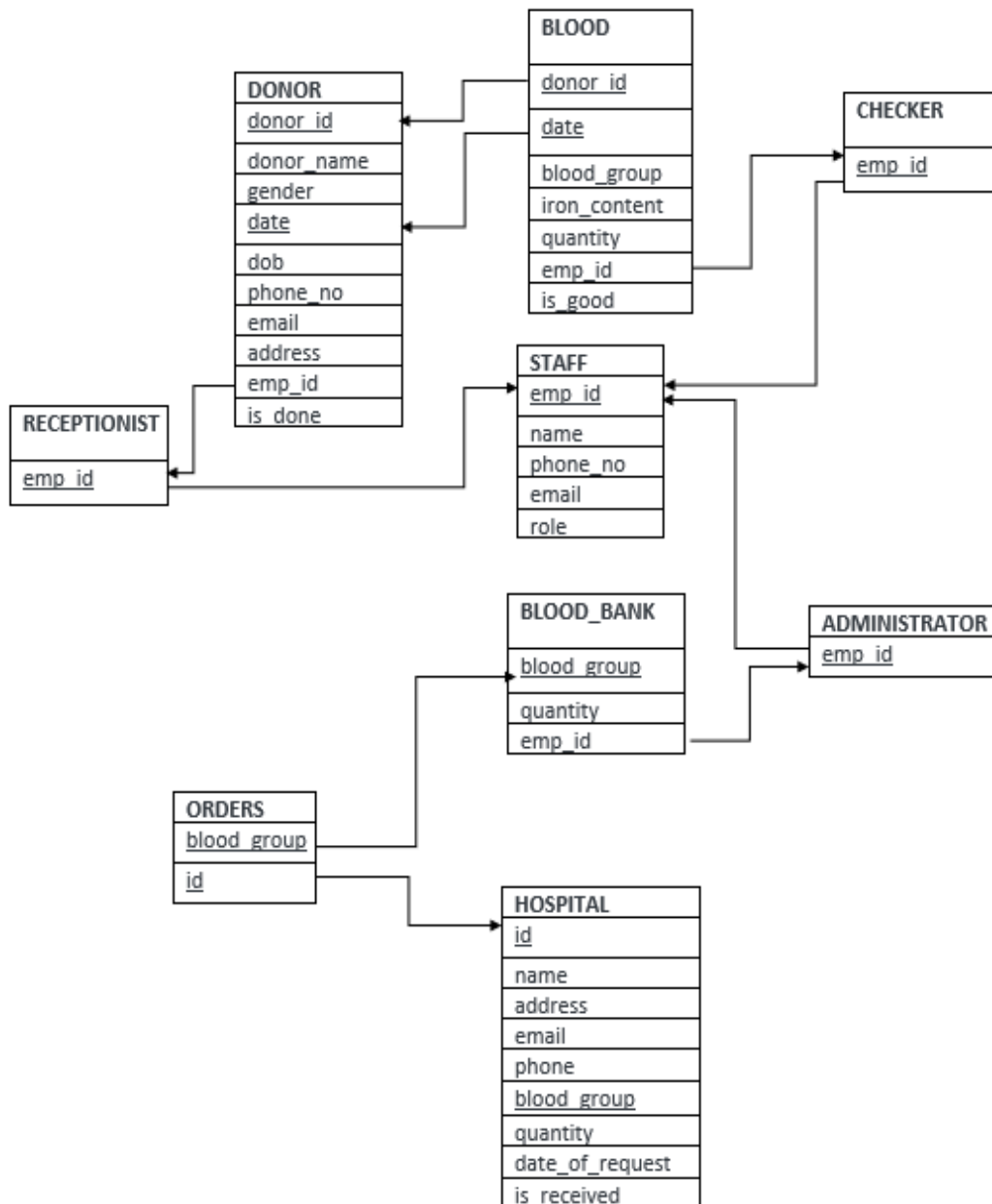


# BLOOD BANK MANAGEMENT SYSTEM

## 1. ER DIAGRAM



## 2. RELATIONAL SCHEMAS



### 3. FUNCTIONAL DEPENDENCIES

Table: DONOR

$\text{donor\_id} \rightarrow \{\text{donor\_name}, \text{gender}, \text{dob}, \text{phone\_no}, \text{email}, \text{address}\}$

$\{\text{donor\_id}, \text{date}\} \rightarrow \{\text{is\_done}, \text{emp\_id}\}$

Table: BLOOD

$\{\text{donor\_id}, \text{date}\} \rightarrow \{\text{blood\_group}, \text{iron\_content}, \text{quantity}, \text{is\_good}, \text{emp\_id}\}$

Table: STAFF

$\text{emp\_id} \rightarrow \{\text{name}, \text{phone\_no}, \text{email}, \text{role}\}$

table: BLOOD\_BANK

$\text{blood\_goup} \rightarrow \text{quantity}$

table: HOSPITAL

$\text{id} \rightarrow \{\text{name}, \text{address}, \text{email}, \text{phone}\}$

$\{\text{id}, \text{blood\_group}\} \rightarrow \{\text{quantity}, \text{date\_of\_request}, \text{is\_received}\}$

### 4. Tables after Normalization

DONOR1
<u>donor_id</u>
donor_name
gender
dob
phone_no
email
address

DONOR2
<u>donor_id</u>
<u>date</u>
is_done
emp_id

BLOOD
<u>donor_id</u>
<u>date</u>
blood_group
iron_content
quantity
emp_id
is_good

STAFF
<u>emp_id</u>
name
phone_no
email
role

RECEPTIONIST
<u>emp_id</u>

CHECKER
<u>emp_id</u>

ADMINISTRATOR
<u>emp_id</u>

ORDERS
<u>blood_group</u>
<u>id</u>

BLOOD_BANK
<u>blood_group</u>
quantity
emp_id

HOSPITAL1
<u>id</u>
name
address
email
phone

HOSPITAL2
<u>id</u>
<u>blood_group</u>
quantity
date_of_request
is_received

**Link to Github Code:**

<https://github.com/Siya2704/DBMS.git>