**NORMALIZATION**

Diagram

Description automatically generated**Donate:**

**UNF:**

DID, D\_NAME, AGE, BLOOD\_GROUP, GENDER, PHONE, H\_NO, STREET, CITY, OID, BLOOD\_GROUP, ORGAN\_TYPE, OS\_DATE

**1NF:** PHONE is a multivalued attribute.

DID, D\_NAME, AGE, BLOOD\_GROUP, GENDER, H\_NO, STREET, CITY, OID, BLOOD\_GROUP, ORGAN\_TYPE, OS\_DATE

**2NF:**

1. DID, D\_NAME, AGE, BLOOD\_GROUP, GENDER, H\_NO, STREET, CITY, OID, PID
2. PHONE, PID
3. OID, BLOOD\_GROUP, ORGAN\_TYPE, OS\_DATE

**3NF:**

1. DID, D\_NAME, AGE, BLOOD\_GROUP, GENDER, OID, PID, AID
2. PID, PHONE
3. AID, H\_NO, STREET, CITY
4. OID, BLOOD\_GROUP, ORGAN\_TYPE, OS\_DATE

Diagram

Description automatically generated

**Register:**

**UNF:**

DID, D\_NAME, AGE, BLOOD\_GROUP, GENDER, PHONE, H\_NO, STREET, CITY, RID, R\_NAME, PHONE, H\_NO, STREET, CITY

**1NF:** PHONE is a multivalued attribute.

DID, D\_NAME, AGE, BLOOD\_GROUP, GENDER, H\_NO, STREET, CITY, RID, R\_NAME, PHONE, H\_NO, STREET, CITY

**2NF:**

1. DID, D\_NAME, AGE, BLOOD\_GROUP, GENDER, H\_NO, STREET, CITY, RID, PID
2. PID, PHONE
3. RID, R\_NAME, H\_NO, STREET, CITY, PID

**3NF:**

1. DID, D\_NAME, AGE, BLOOD\_GROUP, RID, PID, AID
2. PID, PHONE
3. AID, H\_NO, STREET, CITY
4. RID, R\_NAME, PID, AID

Diagram

Description automatically generated

**Stored:**

**UNF:**

OID, BLOOD\_GROUP, ORGAN\_TYPE, OS\_DATE, OBID, OB\_NAME, ORGAN\_TYPE, H\_NO, STREET, CITY

**1NF:** **NO** multivalued attribute. (SAME AS **UNF**)

OID, BLOOD\_GROUP, ORGAN\_TYPE, OS\_DATE, OBID, OB\_NAME, ORGAN\_TYPE, H\_NO, STREET, CITY

**2NF:**

1. OID, BLOOD\_GROUP, ORGAN\_TYPE, OS\_DATE, OBID
2. OBID, OB\_NAME, ORGAN\_TYPE, H\_NO, STREET, CITY

**3NF:**

1. OID, BLOOD\_GROUP, ORGAN\_TYPE, OS\_DATE, OBID
2. OBID, OB\_NAME, ORGAN\_TYPE, AID
3. AID, H\_NO, STREET, CITY

Diagram

Description automatically generated

**Works:**

**UNF:**

OBID, OB\_NAME, ORGAN\_TYPE, H\_NO, STREET, CITY, RID, R\_NAME, PHONE, H\_NO, STREET, CITY

**1NF:** PHONE is a multivalued attribute.

OBID, OB\_NAME, ORGAN\_TYPE, H\_NO, STREET, CITY, RID, R\_NAME, H\_NO, STREET, CITY

**2NF:**

1. OBID, OB\_NAME, ORGAN\_TYPE, H\_NO, STREET, CITY
2. PID, PHONE
3. RID, R\_NAME, PHONE, H\_NO, STREET, CITY, OBID, PID

**3NF:**

1. OBID, OB\_NAME, ORGAN\_TYPE, AID
2. PID, PHONE
3. AID, H\_NO, STREET, CITY
4. RID, R\_NAME, OBID, PID, AID

Diagram

Description automatically generated

**Orders:**

**UNF:**

OBID, OB\_NAME, ORGAN\_TYPE, H\_NO, STREET, CITY, HID, H\_NAME, PHONE, NO\_OF\_ORDER, ISSUE\_DATE, H\_NO, STREET, CITY

**1NF:** PHONE is a multivalued attribute.

OBID, OB\_NAME, ORGAN\_TYPE, H\_NO, STREET, CITY, HID, H\_NAME, NO\_OF\_ORDER, ISSUE\_DATE, H\_NO, STREET, CITY

**2NF:**

1. OBID, OB\_NAME, ORGAN\_TYPE, H\_NO, STREET, CITY
2. PID, PHONE
3. HID, H\_NAME, NO\_OF\_ORDER, ISSUE\_DATE, H\_NO, STREET, CITY, OBID, PID

**3NF:**

1. OBID, OB\_NAME, ORGAN\_TYPE, AID
2. PID, PHONE
3. AID, H\_NO, STREET, CITY
4. HID, H\_NAME, NO\_OF\_ORDER, ISSUE\_DATE, OBID, PID, AID

Diagram

Description automatically generated

**Manage:**

**UNF:**

OBID, OB\_NAME, ORGAN\_TYPE, H\_NO, STREET, CITY, MID, M\_NAME, EMAIL\_ID, PHONE, H\_NO, STREET, CITY

**1NF:** PHONE is a multivalued attribute.

OBID, OB\_NAME, ORGAN\_TYPE, H\_NO, STREET, CITY, MID, M\_NAME, EMAIL\_ID, H\_NO, STREET, CITY

**2NF:**

1. OBID, OB\_NAME, ORGAN\_TYPE, H\_NO, STREET, CITY
2. PID, PHONE
3. MID, M\_NAME, EMAIL\_ID, H\_NO, STREET, CITY, OBID, PID

**3NF:**

1. OBID, OB\_NAME, ORGAN\_TYPE, AID
2. PID, PHONE
3. AID, H\_NO, STREET, CITY
4. MID, M\_NAME, EMAIL\_ID, OBID, PID, AID