

ER diagram:

Cardinality for each relationship:

USERS -> PATIENT_PROFILES:

1 to 1

One user has at most one patient profile

USERS -> DOCTOR_PROFILES:

1 to 1

One user has at most one doctor profile

DOCTOR_PROFILES -> APPOINTMENTS:

1 to many

1 doctor can have many appointments

PATIENT_PROFILES -> APPOINTMENTS:

1-to-many

one patient can have many appointments

DOCTOR_PROFILES (via user_id) → DOCTOR_SCHEDULES (doctor_id):

1-to-many

