MediSched – Healthcare Appointment System
Mapping Explanation

1. User Table
   - Contains common attributes for all users: Patient, Doctor, Admin.
   - Role field distinguishes between types of users.

2. Doctor Table
   - Subclass of User.
   - DoctorID is a foreign key referencing UserID.

3. Patient Table
   - Subclass of User.
   - PatientID is a foreign key referencing UserID.

4. TimeSlot Table
   - Represents available time slots for doctors.
   - Linked to Doctor table through DoctorID.

5. Appointment Table
   - Connects Patients and Doctors through booked time slots.
   - Also linked to Admin through AdminID.
   - SlotID is unique to prevent double booking.

6. Prescription Table
   - Stores prescriptions issued during appointments.
   - Linked to Doctor, Patient, and Appointment.

ISA Hierarchy:
- User → Patient and Doctor (Role field identifies Admin).

Relationships:
- A Patient books many Appointments (1:N).
- A Doctor has many TimeSlots and Appointments (1:N).
- A Doctor issues many Prescriptions (1:N).
- Each Appointment is managed by one Admin (N:1).

This mapping keeps the design simple and matches the ER model directly.