XpertNurse is an innovative healthcare platform designed to support nursing operations and patient care. It manages patient information, prescriptions, clinical visits, vital signs, schedules, and staff notes.

## **Tables & Key Attributes**

### users

* id, name, email, password, role (admin/doctor/nurse), phone, timestamps

### patients

* id, first\_name, last\_name, date\_of\_birth, gender, contact\_number, email, address, emergency\_contact\_name, emergency\_contact\_number, timestamps

### medicines

* id, name, description, dosage\_form, strength, manufacturer, timestamps

### patient\_medicines (pivot)

* id, patient\_id (FK), medicine\_id (FK), dosage, start\_date, end\_date, instructions, timestamps

### vitals

* id, patient\_id (FK), blood\_pressure, heart\_rate, temperature, respiratory\_rate, oxygen\_saturation, recorded\_at, timestamps

### doctor\_visits

* id, patient\_id (FK), doctor\_id (FK), visit\_date, reason\_for\_visit, diagnosis, treatment\_plan, timestamps

### schedules

* id, patient\_id (FK), assigned\_user\_id (FK), appointment\_date, appointment\_time, type (visit/shift/follow-up), notes, timestamps

### clinical\_notes

* id, patient\_id (FK), author\_id (FK), note\_date, note\_text, timestamps

## **Relationships**

* patients 1—∞ vitals, doctor\_visits, schedules, clinical\_notes
* users 1—∞ doctor\_visits (as doctor), schedules (as assigned user), clinical\_notes (as author)
* patients M—N medicines via patient\_medicines

All relationships are non-identifying except pivot table patient\_medicines.