# Patient Database System for a Doctor's Office

## Background

This project addresses the need for a patient database system in a doctor's office. By focusing on core entities—patients, conditions, and allergies—the system aims to provide quick access to individual patient details while also offering broader insights into the health trends within the patient population. This system is designed to improve patient care, optimize record management, and assist doctors in decision-making.

### **Application Requirements**

#### 1. Patient Information Management:

- Maintain comprehensive patient records with attributes such as:
  - i. Unique Patient Identification Number (PIN)
  - ii. First name, last name, and middle name
  - iii. Date of birth, gender, phone, and address

#### 2. Conditions Management:

- o Track medical conditions with attributes such as:
  - i. Condition name and description

#### 3. Allergies Management:

- Maintain allergy data with attributes such as:
  - i. Allergy name

#### 4. Relationships:

- Patients and Conditions: Captured through a patient\_conditions table with:
  - i. Composite primary key: PIN, Condition Name
  - ii. Additional attributes: Date of diagnosis
- Patients and Allergies: Captured through a patient\_allergies table with:
  - i. Composite primary key: PIN, Allergy Name
  - ii. Additional attribute: Last updated

### Sample Queries

Fetch a patient's information based on different search results, fetch all patients, list all patients' allergies, list all patients' conditions, etc.

### **ER Model**

