

MRZ

PHARMACY DATABASE SYSTEM

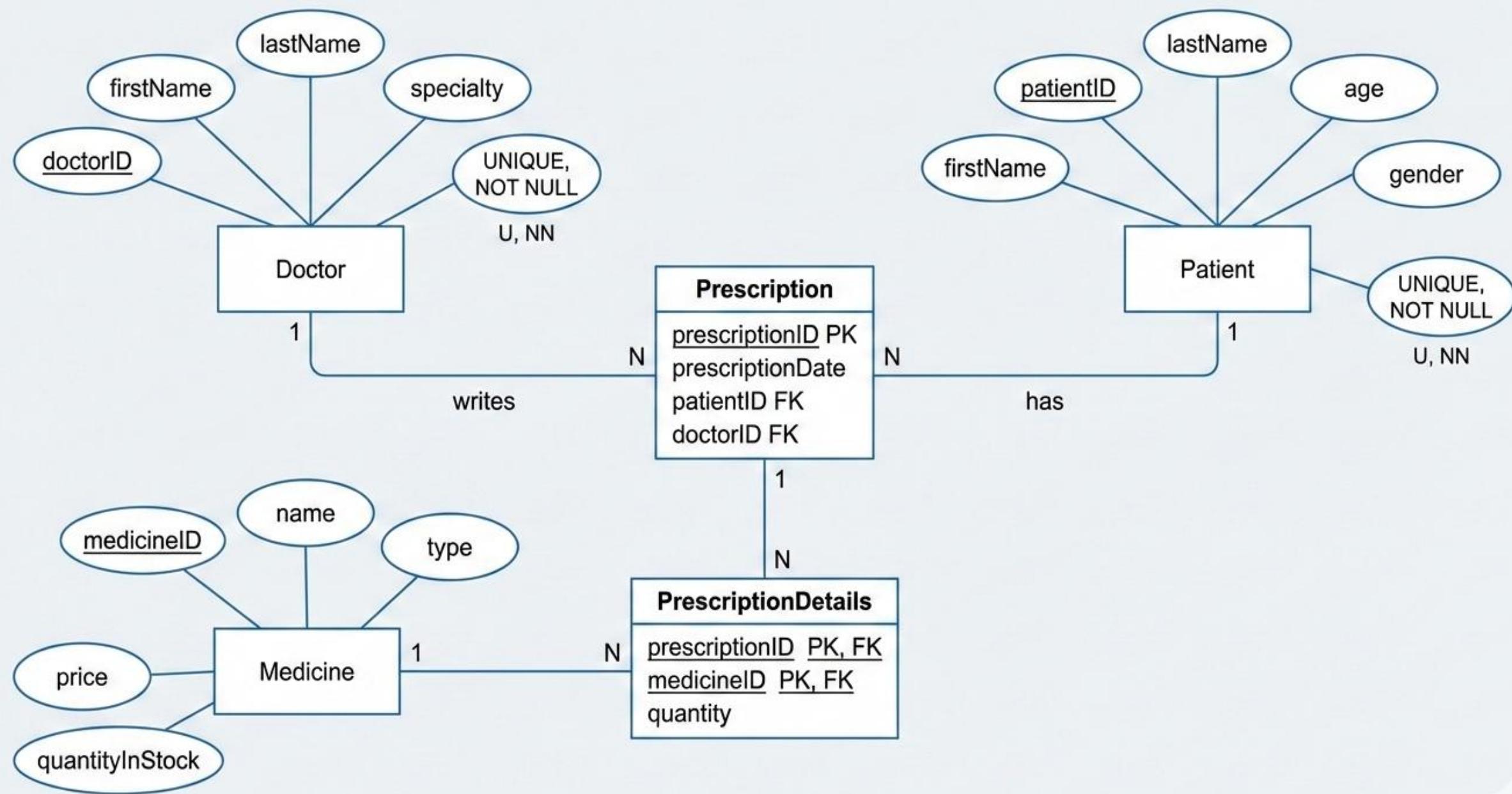
- MOHAMMAD
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 - REEM

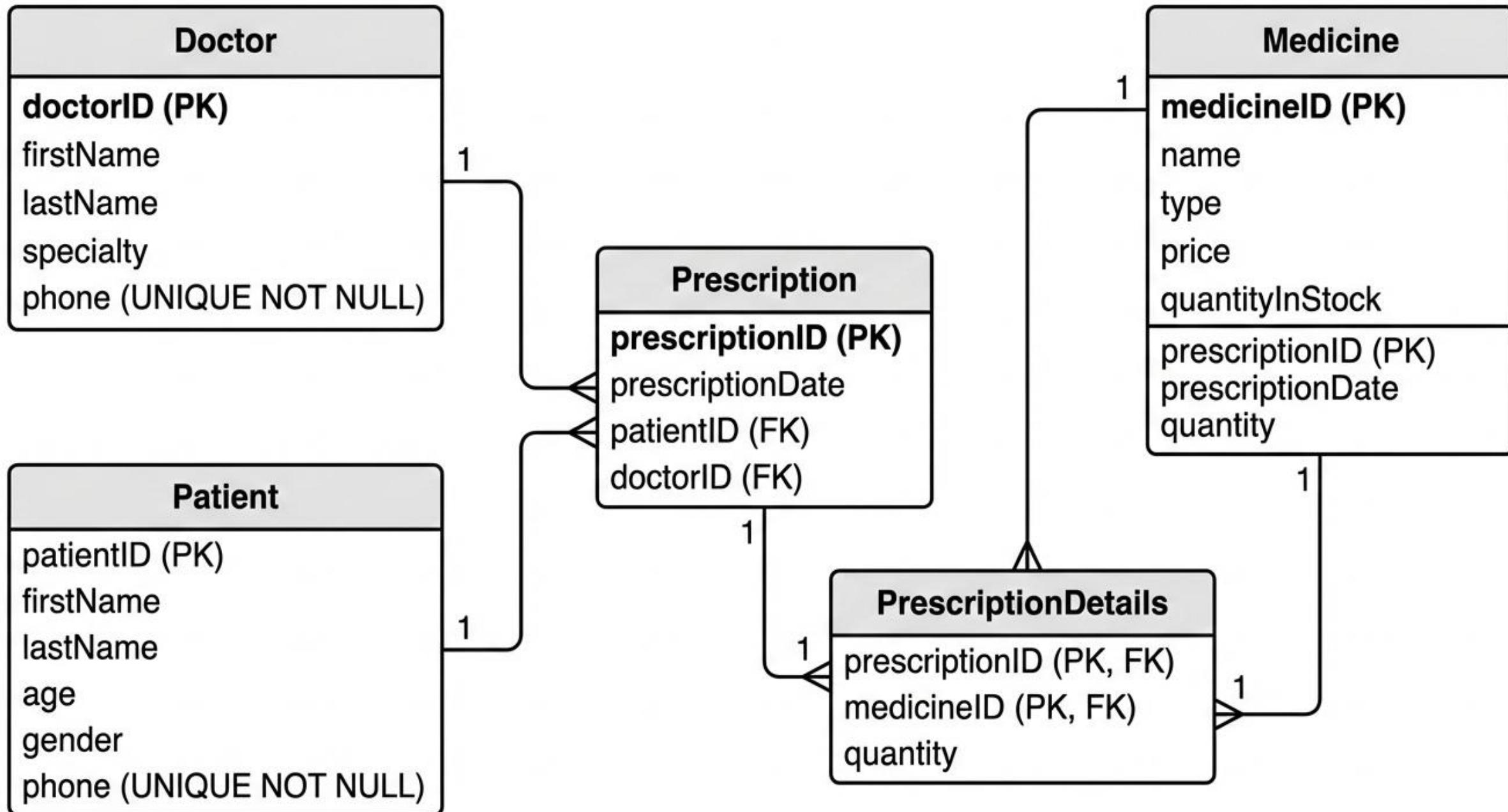
PROBLEM & OBJECTIVE

- Need system to manage pharmacy data
- Manage patients, doctors, medicines, prescriptions
- Ensure data integrity

USERS & FUNCTIONS

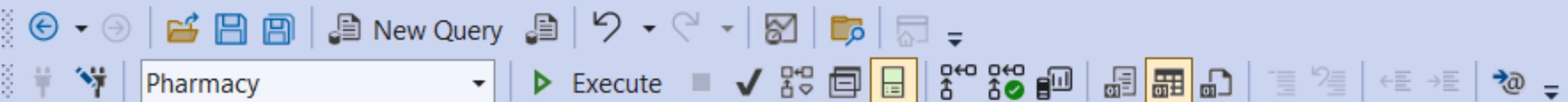
- **Users**
- Pharmacist
- Doctor
- Manager
- **Functions**
- Patient, Doctor, Medicine, Prescription Management







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MRZ_sql.sql ...U\Admin (75) ✎ X

```
1  CREATE TABLE Doctor(
2      doctorID INT NOT NULL PRIMARY KEY,
3      firstName VARCHAR(20) NOT NULL,
4      lastName  VARCHAR(20) NOT NULL,
5      specialty VARCHAR(15) NOT NULL,
6      phone     VARCHAR(10) NOT NULL UNIQUE
7  );
8
```

KEYS & CONSTRAINTS

Doctor

doctorID **INT PK NOT NULL**

firstName **VARCHAR(20) NN**, lastName **VARCHAR(20) NN**, specialty
VARCHAR(15) NN

phone **VARCHAR(10) NN UNIQUE**

Patient

patientID **INT PK NOT NULL**

firstName **VARCHAR(20) NN**, lastName **VARCHAR(20) NN**

age **INT NN CHECK (0-120)**

gender **VARCHAR(6) NN CHECK ('Male','Female')**

phone **VARCHAR(10) NN UNIQUE**

Medicine

medicineID **INT PK NOT NULL**

name **VARCHAR(20) NN**, type **VARCHAR(20) NN**

price **MONEY NN CHECK (>0)**

quantityInStock **INT NN CHECK (≥0)**

Prescription

prescriptionID **INT PK NOT NULL**

prescriptionDate **DATETIME NN**

patientID **INT NN FK → Patient(patientID)** (*ON UPDATE CASCADE, ON DELETE CASCADE*)

doctorID **INT NN FK → Doctor(doctorID)** (*ON UPDATE CASCADE, ON DELETE NO ACTION*)

PrescriptionDetails

(prescriptionID **INT**, medicineID **INT**) **Composite PK**

prescriptionID **FK → Prescription(prescriptionID)**

medicineID **FK → Medicine(medicineID)** , quantity **INT NN CHECK (>0)**

REFERENTIAL INTEGRITY

1. Prescription.patientID → Patient.patientID
2. Prescription.doctorID → Doctor.doctorID
3. PrescriptionDetails.prescriptionID → Prescription
4. PrescriptionDetails.medicineID → Medicine
5. “Foreign keys ensure data consistency between related tables