



MRZ

PHARMACY DATABASE SYSTEM

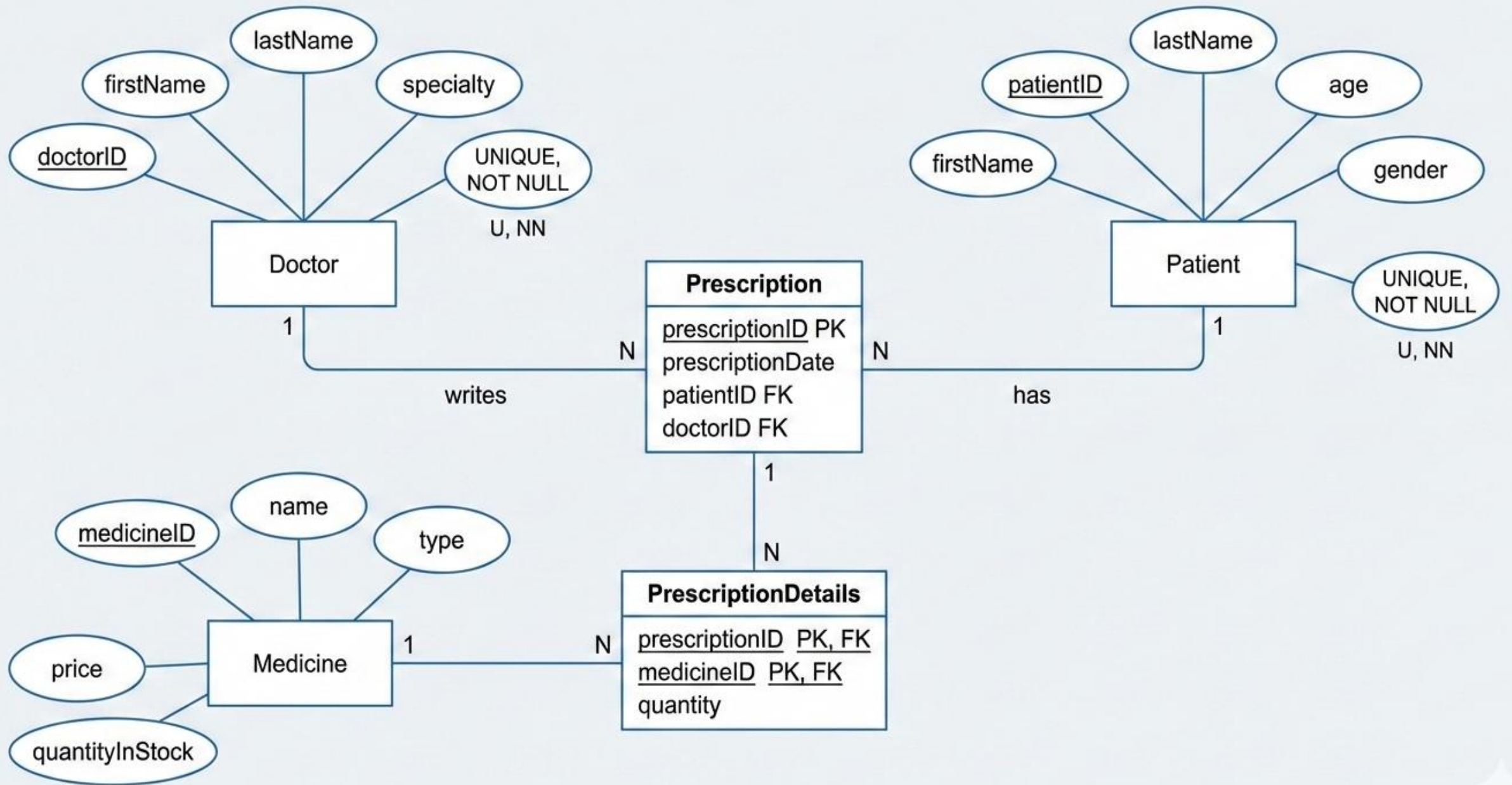
- MOHAMMAD
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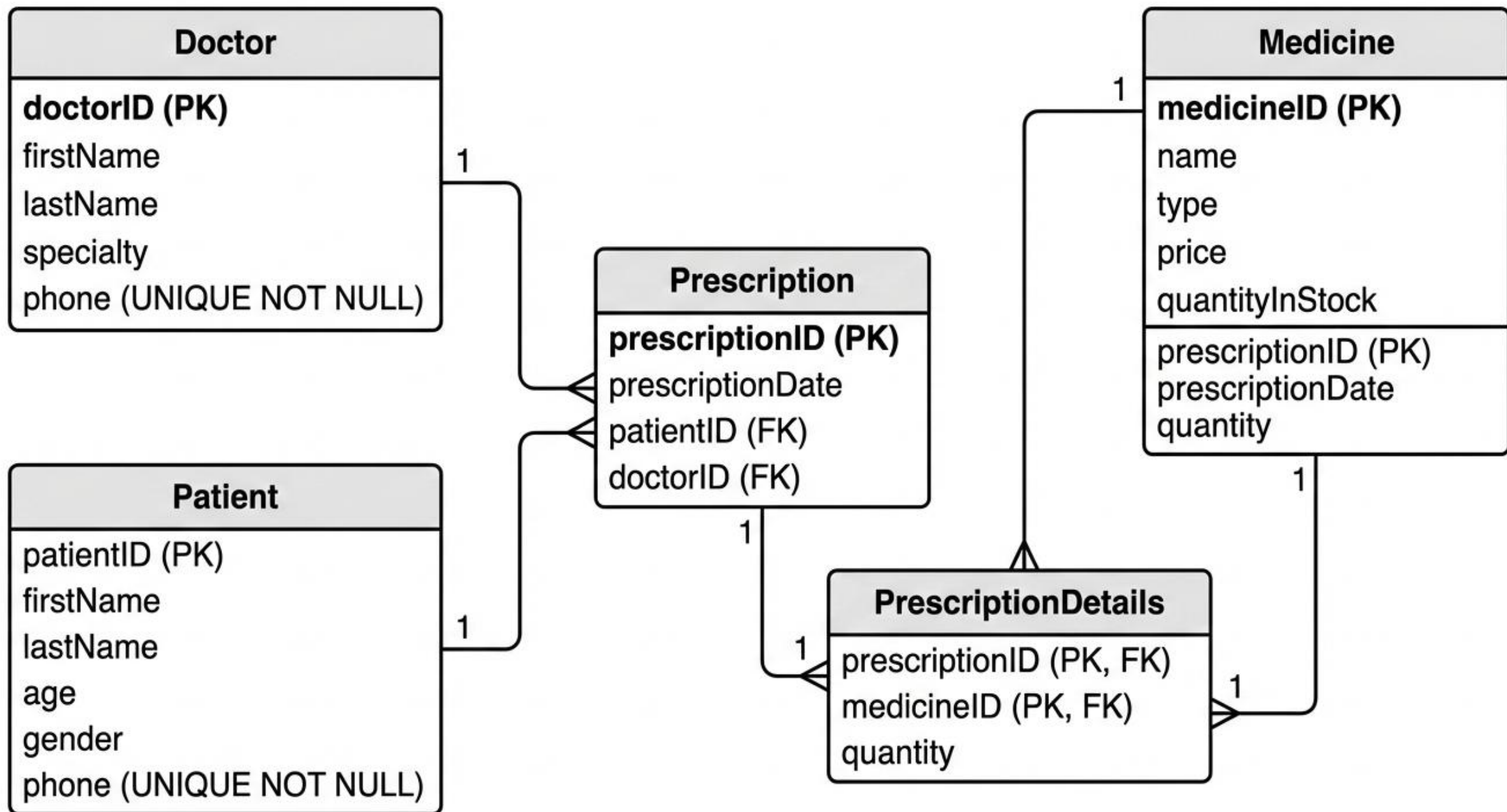
PROBLEM & OBJECTIVE

- 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







New Query



Pharmacy ▾



Execute



MRZ_sql.sql ...U\Admin (75) ▢ ×

```
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