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    erDiagram
        Patient ||--o{ Doctor : "0..1"
        Patient ||--o{ Department : "0..1"
        Patient ||--o{ Prescription : "0..1"
        Doctor ||--o{ Department : "0..1"
        Doctor ||--o{ Prescription : "0..1"
        Department ||--o{ Room : "0..1"
        Department ||--o{ Prescription : "0..1"
        Appointment ||--o{ Patient : "0..1"
        Appointment ||--o{ Doctor : "0..1"
        Prescription ||--o{ Patient : "0..1"
        Prescription ||--o{ Doctor : "0..1"
        Prescription ||--o{ Department : "0..1"
        Prescription ||--o{ Room : "0..1"
  
```

The diagram illustrates the following tables and their attributes:

- Patient**: PatientID (PK), Name, Birthdate, Street, City, State, Zip, Insurance, Phone.
- Doctor**: DoctorID (PK), Name, Specialization, Phone, Office.
- Department**: DeptCode (PK), DeptName, Location, ChairID (FK).
- Room**: DeptCode (FK), RoomNumber (PK), primary key (DeptCode, RoomNumber).
- Appointment**: AppointmentID (PK), PatientID (FK), DoctorID (FK), DateTime, Purpose, Notes.
- Prescription**: PrescriptionID (PK), PatientID (FK), DoctorID (FK), Medication, Dosage, Instructions.

Relationships and Cardinalities:

- Patient to Doctor**: 0..1 to 0..1.
- Patient to Department**: 0..1 to 0..1.
- Patient to Prescription**: 0..1 to 0..1.
- Doctor to Department**: 0..1 to 0..1.
- Doctor to Prescription**: 0..1 to 0..1.
- Department to Room**: 0..1 to *.
- Department to Prescription**: 0..1 to 0..1.
- Appointment to Patient**: * to 0..1.
- Appointment to Doctor**: * to 0..1.
- Prescription to Patient**: * to 0..1.
- Prescription to Doctor**: * to 0..1.
- Prescription to Department**: * to 0..1.
- Prescription to Room**: * to 0..1.